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RÉIMPRESSION

DE

L'ANCIEN MONITEUR

SEULE HISTOIRE AUTHENTIQUE ET INALTÉRÉE

DE LA

RÉVOLUTION FRANÇAISE

DEPUIS LA RÉUNION DES ÉTATS-GÉNÉRAUX JUSQU'AU CONSULAT

(Mai 1789 — Novembre 1799)

AVEC DES NOTES EXPLICATIVES.

ÉDITION ORNÉE DE VIGNETTES, REPRODUCTION DES GRAVURES DU TEMPS.

> Qu'il est utile, ô Athéniens, qu'il est bon d'avoir des archives publiques! Là, les écrits restent fixes et ne varient pas selon le caprice de l'opinion.
>
> *Disc. d'*Eschine *contre Ctésiphon.*

TOME NEUVIÈME.

vol 9

35151 ac

CONSTITUANTE.

77 a 8

PARIS.
HENRI PLON, IMPRIMEUR-ÉDITEUR,
RUE GARANCIÈRE, 8.
1862

s

s s s s s

D)C% 1.<1E1.>' F' ; ' (* % +' ' ' ' '

!"

' ' ' ' ' ' C('

G% -'<7 : .1' 6, 1' ,<6 .418 E1.1.' >4' 1, '8>.'H1'<;.8 .7 '>' / .8 6,< .?,46.' 6.<7 '11 -.6 ;'I .7 : .1' 6, 1' % > 17, 6% .' 014 7 J.<.1'5 .67 =4.' %GK,4 5 .' 6 .67 1.<>4' " 4@. / 0,41J '-.;' ;.' =4 5 " ?4' >.0'4' ;0.1' >.' J.<6%%%%%% % ' / 0.6;' .7 % L'4>. / ,<78 =4 6,<7 ';74.55. <.<7 '4' 6.1- ;.' >.' . / ?.1.418 5.'?1. / .1' ;, / / .' J < 1'5 .7 '471.';, < / .' ; ,5,<.58 >= -.<7 '11 -.1' ;' <;.66' / / .<7%%%%%' .16 4< .1=4.' =4.5=4.6 >.7';:. / .<76 >.'71,4?.6 E1'< ' 6.6 ,<78 > 7 ,<8 ?'669 641'5.' 7.11 7, 1.' '471 ; : .<% +' #.' / '7 <' % 5.' >4.' >.' '@. .6;:.< J,4-.1<.41 J.<.1'58 " '<<,<;.' "5"?'M 1'>.' ' ' ' ' ,46 5.6 H1'<;' 6 1.E4J .6 ;,<;, -.<7 >.'<,4-.55.6 .6?.1'<;.6%%N 6 7 .<<.<7 >.6 ;, / 7.6 ;:.O % > O.6 &; >.-'<7 >4.P%%%%%% <.';1 ;,<67'<;.' 7 .<5 7,4Q,416' <,71.' J,4-.1<. / .<7 >'<6 <=4 .74>.8 . .67 5"E.1 / .7.'> <-.168 =4'<.' -.<7 ?'6' ;,<6.<7 1' R IR 7ER'7R,<8 5'=4.55.'7,47.E, 6'41"5,4' Q,4165 .4' 5.' % .6 >.?47.6 6,<7 1.-.<46 >.' ;.77.' - 55.' 6'<6 '-, 1' ?4' 1 .< J'J<.1% ,4-' < " #79 ?546 71' 7' ' ' ' - 55.' " .<E < ;,<6.<7S%

% .6<,68 <J < .<1 J>,J1'?5 .8 ;7 5 01' 1.' >4' 1, '>.' '' <. / '1; 8 " '1 68 14.' ' <7 ';=4.68 <T C U8 '<<,<;.=4 B 1.4< 7 >'<6 6,< / 'J'6 <5.6 / . 55.<1.6 ;'17.6 >.6) '> ?'17.' / .<76% >.6 > 5 .1.<76 '47.4168 .7 =< 5 5.6 -.<>' 6.?'1> / .<78 .< J1'<>' .7 ?.7 7 E,1 / '78' <6'=4.'>.6 '75'6 ;, / ?5.76 >.'7,47.6 5.6 J1'<>.4168 . .67 ;:.G 54'=4.' ,< 71,4-.' ! " ! # ' ' ' $ 4' % ' ' & ' '4=4.5 .67 'Q,<7>.'5"<,<-.55.';'17.'>.'H1'<;.I . ' 6.' -.<>' 6>?'1>' / .<7 ' 5 -% " ;.4@ =4' ,<7 ';=4 6 ,4-'1'J.' '-'<7 =4 .55.'V E47Q, <7,.8 ;.'=4' 1.W>' ;.7 ,4-1'J.' ;4 / ?5.7% 5 -,54 / .' <UD% 15@8 -01, ;:>8 X5 -Y1.:.8 1.<>4' E7'<;'>'?,17Q'1' 7,475.'1,V'< / .% % 88 8 ' ' ( ) ' 1' ?78S < CU8 ?,<1'5" ?,; .8 ' .< / '1,=< <8 * 5 -%

B ' H # 8 ' ' #B %

.' <, / ' >.' % 4.568'47.41' >.'5"71'J.> .'>.'R&ZWW G ' [(.1R .864E5 6' 7 ?,41' .@; 7.1' 4<.' ;41 ,6 7.' - -.8 .7 ?,41' <6? 1.1'5" ;,<5 '<;.% #.77.';,<E '<;.'< "?, <7 .7.'71, / ?E,I ,4-1'J.' "0.'4;, ?'1.466 8 6417,47'4@' =4'71.'?1. / .16 ';7.6% '45. '?. 7 41' >.6?,7.' .<' 7,41.' >.' 7, '6' 5.6 ;1 / .68 >.'7,46' 5.6 6,4?;,<68 >.' 7,47.6 5.6 '5'1 / .68 =4' ';;, / ?'J .<7 ,1> 4< 1. / .<7 5.6 7V1' 6% .'<8 > '?Q.6 5.7;67'< ;<7>.' 6,< E1E.1.8 " 4641?.'5.'71,<.'> <J5.7.11.' 641' 5.'Q.4<.' 17:418 E 56 >. ! ,>.E1, VI / ' 6 E.7.67.' >.' 6;6 ?. ?5.6 5 ;1' <7 7,4Q,416=4.';.7 .<E'<7 44' .< .67 '>,1.'<;'5 '1'- 66.' ;. ;'E-'4>4 .46.';,<=4.7.I .5'5, <>.'5.'5' 66.1'1 <.1' G / > / .' >'<6' 5.6 .7'76 >.' 6" / E.1.8 #,<67'<;.'>.'K1.M 7'J<.8 '5.'7 . 7 .<E.11,.' >'<6 5" 5,41' 6,46 5" J'1>.' > B40.178 = 5 ;1, 7 6 >71.''77';:.8 / ' 6 =4' >.1, .41.' 5 >. .' " 6,< 5.J 7 / .'1, % 5% \641?'7.41' < .< .67 ?'6 ? <6 71'<=4 55;I 5 <.' 1>-.=4.;, / ?5,768 =4 '66'66 ' <'768 =4.' / .<';.6;.<71.'6,< ?,<-, 1% .'Q.4<.'?1 <;.' 'Q.7>' ?'1' 5" E.< 71.' >.' 6" ?1 6,< 4<.' ;1, @ 641' 5"M =4.55.' 5 '-' 5 .; 7 ;.] / ,76N * & (+' ' , # ' 55.' " .7.'71,4-.;'?'1' 4< E 4.5.' K1.7,<=4' .67 '11 5;8 -,45'<7 6,45;-.1'5.'?.4? .8 ;7 ;,<>4 7 >'<6 5" 7,41% .'< "1>Q '<>4' 5.' 014 7 =4 17:41' .7' 7 ?1 ->'>.' 5" 4.8 ?,41' ,7.1' '4' ?.4? .'5.'>>6 1' >.' :'1. / .771.' 41' 5.' 71><,%K . 5,7 7 1.'5 6.'54 / E / .';.77.''71,; 7>% ';,<E ;' ' / '6 5.'Q.4<.' 17:41' '4@'6, <6 > 4 ;'E. / / .' =4 5 ;1, 7 > 4<;;5'66.,06;41.8 .7=4.'6.6 <=4 .74>.6

G'N <\% + ,44' -.

:'0 74.55.6E,<7'5'<J4 1'>.?4 65,7 J7. / ?6 >'465"7,41% #.77.'E. / / .' .67 #,<67'<;.' .55; / > / .' =4 8 6,46 4< <, / ' . / ?14<5>8 ;:.1;:' 7 ?'17,47 6,<E 568 =4 .55.'B.' 1.71,4-.' = '4' / , / .<7 , 5 E5 - .<7 > >71.' ?1 -.' >4' Q,41% K'<6 4< <7.11, J'5, 1.' =4.'5.' 7V1'< 5.41' E' 5 640 18 6" 7.<>1.66;'5" 71'0 7I 5" / .1.' .7 5.' E 56 6,<7 1.;,<<468 .7 ; .6^ '11.7 >.'5.41' / ,17% B40.17 .7 .' E >.5.'K1.7,< 6,<7.<1.1 / >66.?'1. / . 7I .'?;4?5.=4' 6 .67 ,45.->' 5.6 >.5 -1.% 6 -,<5 .4@ / > / .6 01 6.1' 5.6 E.16 > 17:41' .5'>.'#,<67'<;.I < ' 6 5 .67 71'?'5'1>I 56 - .1 / .<7 > >71.' . / ?, 6,7 / .6% .'< '<6 .11.' -' <;48 >.71><.%.67 ;,<>' / <>' " - -1.' >'<6 5.6 1. ' / ,1>6 .7 '- 5 66. / .<7%

<'1.?1,;:.'5;;57.? .;.' =4.5=4.6 <-1' 6. / O5'75 ' ;.68 =4.5=4.6 <>J5 J.4;.6 >.' 67V5.8 >.6 1 / >5 7 ,<68 >.6 >.7' 56 <47 5.68 .7 4< >.E'47 J.<.1'5 >.'?.1?.7 .' .7 >.' / ,4-. / .<7% .';<=4 <.'';7.'6417,45 .65 ->.' > ';5 ,< .7 > <7.1 78 .7<.'6.'7.1 / <.'?'6 > 47 .' / '< .1.' 6'7 6E' 6'<7.I / ' 6 ,< 71,4-.'>'<6 5.';,416 >.' ,4' -1'J.' 4< J1'<>' B, / 01. >.'6 74'7 ,<6 >. #: 1 <7.68 .7 4<.'E,45.' >.' ;.6 O.'4@ -.16 ?5. <6 > .<.1J ;' ;7 >.' 6.<7 / .<78 =4' > 67 <J4.<7 7,46 5.6 ?4-1'J.6 >. % 4; 6%

" ? .;.' .67 ?'1E' 7. / .<7Q,4..% 77';:.6 " <,71.' 46'J.'>.'<.'?'6 >,<<.1'> > ,J.6 ?'1E ;45Q.16 " .0'=4.' ';7.418 <,46 <.'> 67 <J4.1,<6 ?'6 / / .' % ,<-.58 / '5J1.'5"?1,E,<>.41' '-.' 5'=4.55.' 5 " 1. / ?5 '5.1>5.' > B40.17% ' 6 <,46 >.-,<6 .@;.?7,1 GD' / ,<8' Q.4<.'>>047'<5.8 ;:'1J..'>4' 1>5.'> 17:41% -.;' 4<.' % E J41.' .7 4<.'7' 75.';:'1 / '<7.68 ' .67 / ?,66 05.'> ' ' -, 1' 4<.' <7.55 J.<;.'?546 ?'1E' 7.8 <.'6.<6 0 5 7V ?55 6 -1' ;8 4<.'> ;B,< ?546 .?41. .8 4<.' -, @ ?546 6,<,1.' .7 ?546 7,4;:'<7.% 55.' >, 7 >71.' .6?.1'<;.'>.' ;.' 7:.>51.8 ,4' ?545K7 >4 70.>51.% ,46 6.1 ,46 O .< 641' ?1 6 6' 6,<7'5.<7 <.'5"Q [17'B' 4<'Q, 418 .76'<6 O.'4;,4? '77. >1.8 Q46=4 '4' >.J1>' 5.' ?546 V / <.<7% ,4--'J.' .67 / 6 '4' O.>71.' '-.;' 5.' ?546 & ' 6, % .6 .<71. < . .416 ?'1' 66.<7 '? =<.1') ' # ' -.1 7VG>.' ;,674 / .6% < <.6'41' 7 ' 5.6V' .<;,41'J.1% # .65. '<.' <VJ5 J <7 '4.7 / ' ;.6';' ;.66 1.6 =4' 56 ;,<6.1-.1,<5 " 5.41' : 71;'5.'1'<J' '4=4.5 5 6 .67 V .-.'6'1'? >. / .<7%

" "

' " #$ ' % % !

' ' ' ' '

' # ' ' # ' C*' %

4' >.' % 5.6 6.;1.7' 1.6 E' 7 5.;741.' > 4<.'5.771.' >.' % 5.6 ,E ; .16 / 4< ; ?'4@ >.' 3 4 5 .0.4E8 =4' '<<,<;. 7 =4 6 ,<7 <11V7.') (/ '1;6 > '1J.<7 =4.' ,< Z.'> 6?,6' 7 " ;1'0'1=4.1% ' %

66. / 0 V.' .:-, .' ;.77.'5.771. '4' ;, / 7.'>.61. ' ;:.1#:.6%

' 'N .'<.' -,46 ?,17.1' 6 ?'6 >.'?5' <7.' ' , '<'-' 7 ?'6 / ;<';>' / .6Q,416 >'<6 .';'6 , 5 Q.' -.<>1' 6'5;E' 1.% 1, 6;, / / 4<'47V6 6.'6,<E1.<>4.6 >'<6 / " 7;11.8,7' .55.6 < ,<7 71,4-.'=4.' / " E. / / .'.7 / ,<E 56% 55.6,<7>. <'<>V>.6E46 7686,46 ?1.7.@7.=4.' / ,7P >;- / ; .1'5.6 '-' 5 E' 7 >V6'1 / .1I < "E. / / .'5.41 " >,4<.' ;.'=4 5 V .<'-' 5% 5 .6 ,<7 ?1 6 / ,< E 56 ?,41 ;,5,<.58 .7 5' .4'5.';,41'J.>. / '1.<.1'-..> .68 ?4 6 .55.6 6,<7 1.-.<4.6 >. <" >.1' >.' '1J.<7% " E. / / .' 5.01".<;,1.'>,4<.' C '7 -% &],<7 5 7=4.'6.?7;,7<' / 4<'47.6 >.-' .<7 .<;,1.'1.< 1% " E. / / .' -,45' 7 <'E5 18 Q.' 54 ' ' E' 7 > 1.'>.'1.67.18 ?'1; .'=4.'Q.'64 6 5' 7 ?,41 >, / .1' .@. / ?5. >.'5"E.1 / .7V% '5.6 ?1, ' ?1 V7.6 >' 4< >. ?47.'6,<7 / .<';..68 ;1,V.O -,46=4.

;.55.6 >.6 '471. ; 7,V.<6 ?4 66.<5 >E1. .< 641.7. Z
, 5" ; . =4 ' ">.7.1 / <. <" ?5' <7E.8 ; '1 Q. 64 6 71, ?
;4@ ?, 41 ' - , 1 ?; 41 >; / , 41 1%
'N .6 ?5' <7.6 >. % ' <05V 6, <7 71E.6
>J 5 / .68 / ' 6 ; . < .67 ?'6 <, 46 =4 .55.6 1. J '1>. <7I
58 >, 7 6 '>1.66.1 '4@ 1 04<'4@ .7' @ ; ,1?6 '> / < 6
71'7 E6%
'N #.5" .67 Q467.F
'>. % 5.6 6 . ;1.7' 1.6 5 7 4<. '5.771. ?'15' 4 .55.
% .1J .68 ; '7,V.< >. K ,1>. '4@8 '<; .< >1'J ,<8 ,&
>. (' '<68 ?.1. >. .<E'<768 >, <7 J '1=, <68 >.
<'<>. " X71. <6 ;1 78 ' <6 =4. 6, < 556 '7<. 8 641 5.
1.J 671. >.6 J '1>.6 <'7 , <'5.68 .7 7; / , J<. 5. >>6 1
> E71. ?5' ;> ' - ; ;54 >'<6 5. ?, 67. 5. ?546 ?. 1 55.4@8
>'<6 5. ; '6 , 5" J4 .11. 6.1' 7 >. ;5'1..%
66. / 05. ' '??5'4> 7 " ?546 ;416 1.?1 6.6 .7 ,1
>, <<. =4 5 6, 7 7' 5 / . <7 ,< >. ; .77. ?.7 7 ,< >'<6 5.
?1, ;E; 6 -.10'5%
% ,' 55.6 ?1.6. <7. >.4@ ?1, Q.76 >. > ;1.76 '4 <, /
>4 ; , / 7> / 5 7' 1.% . ?1. / .1 ' - ' 7 ?, 41 , 0Q.7 > '6
641.1 >. . / ?5, >'<6 <, 71. '1 / . '4@1, E5 ; .16E1'<G
3' 6 =4 8 < >7'<7 ?'6 <.6 J. <7 56 : , / / .68%< ' - ' .<7
'471.5, 6 ?4 .@.1; .1 5. >1, 7 >. >.E.<>1. 5.41 ?'V68 .7
8 =4 8 >'<6 ; . / , / .<78 6.1' .<7 , , <<46 ?'1 4< ?'71 ,
7 6 / . .7 >.6 7'5.<76 .?1, 4 - .6%
.6. ; ,<> ?1, Q.7 >. >. ;1.7 .7' 7 1.5'7 E " .@>;47 ,<
>4 >. ;1.7 ?'1 5.=4.5 66. / 05>. " ?1, ,<; .%5. 5 ; .<
; . / .<7 >.6 J '1>.6 >4 ; ,1?6%
#.6 >.4@ ?1, Q.76 6, <7 1.<1, V.6 '4 ; , / 7. / 5 7' 1.
?, 41 .< ?1.6. <7.1 4<. <, 4 - .55. 1. >' ;7 ,<%
% 5. ?1.6 > .<7 5 7 5" 5 67. >.6 / . / 01.6 =4 '66 67.
1?<7 " 5" 2P1, ; .66 ,< >. , ;7' - . >. 5" H>7. .4%
< >. % 5.6 6 . ;1.7' 1.6 E' 7 5. ;741. > 4<. 5.771.
>.6 '> / < 671'7.416 >4 >. ?'17. / .<7 >. 6.% ?1.6
' - , 1 .@?1 / . 5.416 6. <7 / .<76 >. ?'71 47 6 / .8 561.<
>.<7 ; , / ?7. >.6 ?1. ; '47 ,<6 =4 56 ,<7?1 6.6 '5" <, 4
V.55. >4 >. ?'17 >4 1 , . 7 56 '<4, <; .<7 = 56 ,<7
;14 >. - , 1 .< - ,V.1 " 66. / 05. >.6 5.771.6 6' 6 .6
641 >; 6 ; ,411 .16 .7 '>1.66. .6 " % .<7: E. -1. .7 "
%> 15. '<6%
?1, ?, 6 7 ,< >. % #1 55, < 66. / 05>. ,1
>, <<. " 4<'< / 7. =4. ; .6 5.771.6 6.1, 7 1. / 6.6 "5"
?, 67. ?, 41 >71. E. >4.6 "5. <7 '>1.66.% G
%0. . , / 55. >.%; ,<67 747 ,< .7 ?546 .416
/ . / 01.6 >4 ; , / 7. >. 1. - 6 ,< 6. 6 ,<7 ;146 '??.5.6 "
; ,<6 >.1.18 >. 5" / '< 1. 5" ?546 .7.4>4 ;8 5"? ,6 7 ,<
>'<6 5'=4 .55. 6. 71, 4 - .<7 5" <'7 ,< .7 1 66; / 05.. <
7 ,<'5.% "1.6 ,547 ,< =4 56 - ,46 < - 7.<E" ?1.<>1.
.67 5. 1.6457'7 > 4<. 5, <JE5. > 6; 466 ,< =4 ' .7. 4<'<
/ . / .<7 '>, ?7.. >'<6 5. ; , / 7>% ,46 ' - ,<6 ?1 6 5.6
/ .641.6 >. ?1. . '47 ,< 1.5'7 - .6 7'<7 5" 6 1.7. <7>
1 .41. =4 .@7.1 .41.% 3 4'<7 '4@ 1.5'7 ,<6 =4. <, 46
>. - ,<6 ' - , 1 ' - . ; 5. ;<.E >4 ?, 4 - , 1 .@. .47 E8 ,< "
?1 6 5. ?'17 =4 <> =4 .<7 5.6 ; 1; ,<67'<; .6 .7 5. ?1 B
? ?.% '<, 46 < ' - ,<6 ?'6 .7> , 05 J.6 > >7'05 1 5" #, <6M
7 747 ,<8 .< >.714 6'<78 .< .> E '<78 .< '> / < 671'<7
7, 47 >5" E, 68 <, 46 '41 ,<6 646?.<>4 7446 5.6 ?, 4 - , 16I
/ ' 6 5 " E'554 5.6 E' 1. / '1; : .1 ?'1'55>5. / .<7% 4
Q, 41> : 4 5.6 ; 1; ,<67'<; .6%<, 46 1' / .<.<7 '4@ ?1 <
; ?.6N <, 46 ' - ,<6 ?1 6 5. ?'17 =4 5 V ' - ' 7 " ?1.<>1.8
.7 7, 47. ?1. ; '47 ,< <57.1 .41. .67 <47 5. ?, 41 5. / ,M
/ .<7% ' 6 5 E'47 '>, ?7.1 >.6 / .641.6 J.<.1'5.6> '
?1.6 5.6=4.55.6 5 6.1" E' ; 5. > '6641.1 1.@. ;47 ,< >.
'1.6 ,547 ,<6% '1 5" 1>E5.@ ,< <, 46 ?'1- .<>1, <6
" >, / <.1 5.6 >- .<. / .<76% 5 <, 461.67. " 6' - , 1 =4.56
6, <7 5.6 < ,4 - . / .<76 >.6 ?4 66'<; .6 >71'<J>1.68 =4.5
.67 5. >. J1> >. 5.41 ?'17 ; ?'7 ,< '4@ >- >< . / .<76 =4
- .<<. <7 >. 6. ?'66.1% 5 E'47 =4. ; .7>7'7> <; .17 74>.
; .66.I 5 E'47 ?1.<>1. 4< ?'17 8 '??4V> >. 5" E,1; . >.
,? < ,< J><>1'5.% '<, 46 " ?'14 =4. ; . / ,V.< <.
?, 4 - ' 7 71. 5. 1.6457'7 > '4; 4<. >. 0>1'7 ,< ?'1
7 .5 .I .7 . .67 " 5. ?1 <; ?'5 / ,7 E =4 ' " >>7.1 / <>
- ,71. ; , / 7. >. ; ,<67 747 ,< ' - ,46 ?1, ?, 6.1 >. 646G
?.<>1. " <, / <'7 ,< >.6 >.?47.6 '4 ; ,1?6 >J 65'7 E8

" >>7.1 / <'5 ,< <. ?.45 ?1 6. =4 '4 ; .<71.8 6'<6
; .5" 5" - ,5, <7> >.6 ?'17 .6 6.1' 7 ?1. >, / <'<7. 5"
- ,5, <7. J>< .1'5. f G6'<6 ; .5" ?1. / .1 ; ' - ' ; 7.1. >4
J, 4 - .1<. / . : 7 1.?1.6. <5'7 E .67 >>714 7%
'?1.6 ; .6 / ,7 E6 <, 46 - ,46 ?1, ?, 6.1, <6 4<. E.M
>.1'7 ,< ?'1. 55. " ; .55. =4 8 '<<. >.1< >1.8 " >, <<>
7'<7 >. E,1; . " - ,6 71' - '4@% ,46 ?, 411.0 ?'1 5" - ,46
'6641.1 6 5" H1'<; . .67 ?1>7. " 5.6 6. ; ,<>.18 .7 6 5.
/ .641.6 =4. - ,46 '41.0 ?1 6.6 6.1, <7 1' 6.6 " .@>; 4
7 ,<% .6 >- >< . / .<76 =4 - .<<. <7 > ' - , 1 5 .4 - ,46
,?7 >, <<> .@. / ?5. > 4<. J1'<>. 4< ,<N >'<6 4<
>'<J.1 5, / / 4<8 5 .67 >. ' - '<7'J. >. 7, <6 >.6.
1.4< 1I / ' 6 5. ?>1 5 - .<7 5 " ; .66.18 ,< <. ?.47 6&
> 66 / 45.1 =4 5 1.67. .<; ,1. >.6 ?1 <; ?.6 >. > - 6 ,<
.@ 67. >.6 : , / / .6 =4 ,<7 <7.1>7 ; 71, 405.S
7, 478 >.6 : , / / .6 ?, 41 =4 7, 47 >7'7 >; 6, ; .7. .67 4
/ '5: . 1% # .67 #.5" 6417, 47 =4 5 E'47 ?1> - .< 1% ,16
=4. <, 46 '41, <6 ?1. 6. <7> 41, ?. 4< 6V67> / . 6 -
<>40 7'05. / .<7 '??4V> - ,5, <7> J. <>1'5.8 5 <
1.67.1" ?'6 4<. ?4 66'<; . =4 ?4 66. ; , <; . - , 1 5. ?1, Q.
Q<6. <6> >. <, 46 '77'=4 .1% ,46 - ,46 ?1, ?, 6.1, <6 >
E @.1 ; .77. E.>.1'7 ,<8 <, < ?'6 '4 U Q4 5.78 ; .5" >.
- .<7 / ?, 66 05. ?'1 5" <'741. >.6 71' - '4@ =4 - ,46
1.65.<7 .<; ,1.8 / ' 6'4 U' , >78 .?, =4. >. ; .77.
; >5.01. , : 7, 46 5.6 '046 7, / 0.1. <7 ' - . ; 5. 6V67> / .
E>, >'5% & < '??5'4> 7%P 5,16 66. / 05.. '??1, ; : .1"
>. 6" 7 <8 ; '1 .< 1.671. J<'<7 5. <, / 01. > '15 ; 5.6 =4
>. -1, <7 > 1. 1. - 6.68 .< ?, 6'<7?, 41 0'6. ?1 <; ?'5.
>. ; . 71' - ' 5 =4. 5.6 >. ;1.76 <. ?, 411, <7 ?, <7 >71.
; : '<J.6 8 / ' 6 6.45. / .<7 1'<J.6 >'<6 7.55. ,4 7.55.
;5'66.8 5 ?, 411" >71. 5 < " .?, = . =4.Q ' >.7.1 / <. .8
% 4?, 17 ?1>6. <7. 4< ?1, Q.7 >. >. ;1.7 >, <7 - , ;N
5.6 > 6?, 6 7 ,<6N
& ' ' ( ) ((*+, $ *+ (- '$.+*, / +0+*, - (, (. $*(0+(+ , .+1
0+ 2/ 3 *'+3.(4+. (#(- (.+, $ * 5*$0(. '((+ 4.(0(-$
+, , +36((*, - (" .+* +$" + *', $, ,$ * / + 3. - (0 $$
3) $'$. 4 . 3(, , (. (*$ * (4 5 ((. $ (#- - + +
+* +*, $7 ((- . (, (5+% '8 + .+ + + .$'/ (/ + , / *(
.+, $ * 9(*(.+, (- (" #" $(. " *$3 4+ 2/ - (+ 9+. - (+ *+, $ 1
+ (' / - (" , . 4(" - (, (. . ((, - ((. : - +" + 4. 4 . , $ * - - !
, (. $* (4+. (" - (3. (, " - ($* - (. *$ $%(:
'?'17 =4 , .65 ?1, ?, 6> / .1 7.
> '47'<7 ?546 0 1 0 ' 1 > ' - , 1 4<.
.6?. ; # > '<'57EJ . ' - . ; 4<. E.4 55. > 671 04; . ; . / '7 <8
8, 4 ,< > 7N W#. < .67 ?'6 7'<7>4 >. ?'17 >4 1, =4.
>. - ' 7 6 '5'1 / .1 5" - 55. >. '1 68 =4. >4 >.E'47 >.8 5"
; ,<6, / / '7 ,< >. 5" 5 67. ; - 5. .7 >. '06.<; . >; 6
: , / / .6 1 ; : .6%Y . >. / '<>. >, <. =4 '7 < >. <.
?1.<>1. '4; 4<. >.7.1 / <'7 ,< ?1. ; ? 7. .8 5. 1'??, 17
.7 5. ?1, .7 >. >>.1.7 6, .<7 > '0 ,1> / ?1 / >6 .7 > 6
1 04>6%
% K 4 0, 7N < ?'17'J. '<7 5.6 / ,7 E6 >< ?1>, ? <'<78
Q. < .< 7 1. ?'6 5.6 / . / .6 ; ,<6. =4.<; .6% % 5. 1'?M
?, 17.41 <, 46 " ?'15. >. 5" E < >.6 71' - '4@ >. 66. /
0 . . I Q. <. ;1, 6 ?'6 =4 ,< <, 46 < <. 047I .7 5"
/ .641. =4 ,< " ?1 6. >. 646?.<>1. 5.6 5. ;7 ,<6 <.
E' 7 =4. 5" 1.7'1>.1% 8 . ?, =4. >4 Q4 5.78 5.6
.5. ;7.416 <. 6. 1'66. / 05. <7 ?'6 ?, 41 <, / / .1 5.6 >>
?47. 68 56 <. ?, 411, <7 ?546 6. 1'66. / 05.1 ' - '<7 5. / , 6 G
>. 6.?7. / 01.8 / > / . 5. / , 6 > , .7, 01. N 5 .67 4<.
'471. , 06.1- '7 ,<8 ; .67 =4. 6 5.6> . ;7 ,<6 6. E' 6' .<7
>'<6 ; . / , / .<7 - ,<6 '41 .0 > .@; .55.<76 ?'71 ,7.68
.7 =4 5 .67 ?, 66 05. =4. 5. ; '5 / . - .<'<7 " 6. 1.7'05 18
.7 5.6 <=4 .74>.6 >. - .<'<7 < ,<6 - - .68 <71 J4. 6.
E'66. Q, 418 .7 =4. <, 46 < 'V, <6 ?'6 >.6 ; : , @ '466
0.41.4@% . >. - ' 6 5 1. 66. / 05.. 4<. '>1.66. >.6
J'1>.6 <'7 ,<'5.6 >< >>?'17. / .<7 >. 7 41.8 =4 >;
/ '<>.<7 2 H 66. / 0 >. <'7 ,<'5. >. 1.<, 4 - .5.1 5.41
6.11'.<78 / ' 6 >'<6 4<. E.>.1'7 ,< 5, ; '5.% . ?.<6.
>, <. =4. 5. ?1, Q.7 >< . , / 7> >, 7 >71. 1.Q.7>8 ?'1; .
=4 5 < .67 0, < " 1 .<8 .7 =4. ,< >, 7 5. - .1 5. >>; 1.5
=4 646?.<> " <, / <'7 ,< >.6 >.?47.6I ; .65 2 =4,
` ; ,<; 546%
% E >N 7 6.1' 7 71>6 / ?, 5 7 =4. > '66. / 05GG

5.6 >5.;7.416 >'<6 4< / , / .<7 ,7 >>Q >.6 5.771.6 7 ,46
'??1.<4.<7 =4. 5.6 '66./05>.6 6,<7 71'-' 55>.6 'E<
>. 1.-.< 1 6415" #,<67 747 ,< ;.5" .67 -1' 8 -,45.0
L,46 -,465 -1.1 4<. '471. 1>-,547 ,1 8 ,4 0 .< ?.<
6;0 -,46 =4. 7,476, 7 ;'5/. .< ;. / , / .<78 =4. 5.6
71,405.6 <. ?,411,<7 ?'6 6. ?1,5,<J.1Z . ?1>7.<>6
'4 ,<71' 1.=4.<,46 <. ?,4-,<6 <,46 6'4-.1 =4. ?'1
5" 1.4< ,< S" ?546 ; , / ?5.7. ,46 J<,1.0 =4.55.6
6.1,<7 5.6 64 7.6 >. 5" E4 7. >4 1, I -,46 J<,1.0 6
-,46 < '41.0 ?'6 6,47.< 1 4<. J4.11. >71'<JE.1. .
>, 6 1. >1. 6,5.<<.55.1'.<7 Q467 ; .'4 OE.5. >4 ?1>,Q<
<'<78 / ' 6 5 .67 .<71' <. ?'1 4< .@;E.6>.?'71 ,7 6 / .8
,4 ?'1 6.6 >..6 ?'17 ;45 E.1.6 . >. / '<>. >,<. 5"
=4.67 ,< ?1>'5'05.641 5. ?1,Q.7 >. K40,7
N 1.<,<6 J'1>. '<@ > EE.1.<;.6 > ,?
< ,<6 =4 6,<7 ?1>7.6 "6G.5.-.1 < -,46 > 7 >.Q" =4 5
E'45 ;:'<J.1 5" <'741. >4J,4-.< . / .<5 ,< 6./05.
;1, 1.=4.<,46 < '-,<6 < '1;.: =4. ?'6 " ?'68 =4 5
<.<,46 .< 1.67. ?546 =4 4< "E' 1.8 .7 =4.<,71. #,<6M
7 747 ,< < . 7 =4 4< =Q; , / / ,>.< .<7 '-.; '<; .<
J,4-.1<. / .<7 ; .<71.5.=4.5 5 <,46 "E'5545477.16'<6
;.66. 6,<6 >,<.=4.<,71. #,<67 747 ,< .67 ;.55.=4.
<,46 '-,<6 ;14. 5" / . 55.41.8= .<,46 <. '-,<6 E' 7.
=4. ?,41 ; ;5' >?1.4-. " 5'=4.55. .55. - .<7 > >71.
6,4 / 6. .67 4< J'1'<7 '66.0 6E71 >. ..=4 . . '47I
< '55,<6 ?'6 .@; 7.1 5.6 >..6 11.5 .;0 .6I 5 <. 6 'J 7
?546 / ' <7.<'<7 >.;,<; 5 .1 >.6 >. / '<>.6 E' 7.6 >'<6
>. ;': .168 >.6 -,5,<7>6 6,5>.6 .5 <; , :>1.<7.6 ,4
> .6 ;: '1J.6 >. E' 1. -,45, 1 5. ?.4?5.8; .65 ; =4 .67
6" -,5,<7. .?.16 67. ;1, 1.=4. 5" / .641.=4. Q "
?1,?,6. '4 <, / >4 ; , / 7. >. ; ,<67 747 ,< .67 ?1,
E,<>. / .<7 / >> 7>.8 .7 7 .<7 2 >.6 >>.6 '66.0 Q465.6 .7
'66.0 -'67.6I / ' 6 Q.<. / ,??,6. ?, <7 " / ?1.66 ,<8
< " 'Q,<14. / .<7
" ?1,?,6 7 ,< >. K40,7 < >
7'<7 =4. ' / .<>. / .<7 >. / >.6 '17 ;5.6 >4 ?1,Q.7G
>4 ; , / 7.8 .7 'Q,41<. / .<7 >. ; . ?1,Q.7 ;7'<7 >.
/ '<>>8 ,< ?1,?,6. >. ?1,<,<;.1 1'Q,41<. <.<7 64E
5. 7,47
8
#` I " ?1,?,6 7 ,< >. K40,7 .67 71
> EE.1.<7. >. ;.55. >4 ; , / -7>I ,< ?.47 .< ; ,<7 <4.1 5"
> 6;466 ,< ">. / ' <8 Q '<<,<;. 1<> / . =4. Q. ;1, 6
=<. 5. '>,?7>. 34'<7 " 5" ?1,?,6 7 ,< >.
4?,178 .55. .71. >;'17..641 5. ; : ' / ? ?'1 5"
=4.67 ,< ?1>'5'05.N .55.'<<,<..>. <;.17 74>.8 >.
5" >.5 '<;.8 .55. E.1' 7 ;1, 1.=4.<,46 <; ; ,<<' 66,<6
4 <,71.8E,1;.8 < <, 1. J1'<>.418 .7 =4. , 6<.6.<
7,<6 ?'6 ; , / 0 .<8 ?'1 <,71. ; ,<>4 7; 7,4Q,416 6'J.
;7E.1 / . >'<6 4<. ; 1; ,<67'<;. 0 .< >.5 ;'7.8 <,46
Q-, 64 / >1 7.1 1'1> / 1'5 ,<8 Q. <. > 6 ?'6 >. 5"
H1'<;.8 / ' 6 >. 41,?. .<7 .1. ,41=4, > ' 55.416
'<7 >. / ,4-. / .<76 8 7'<7>.6, <68 7'<7 >.>.?.<6.6Z
,41 E' 1. -.< 1 >.6 E>>.1.68 >.6 J.<6 =4 1,<7
4<. a5. J 66,<6 6'<6 ;.66. '-.; 6'J.66. .7 E;E / ;7.8
.7 5" <'7 ,< <,46 '; ;,1>.1" 7,4Q,416 5" ; ,< <<.. =4
E' 7 <,71. E,1; . >. / '<>. >,<. =4 ,< > - 6. 5.6
>.4@ ?1,?,6 7 ,<6 =4 -,46 6,<7 E' 7.68 .7 =4 ,< >.M
;5'1. =4 5 <'Q " ?'6 5 .4 " >.5 0>1.1 641 ;.55. >.
$ 4?,17
N ,06.1-.=4. 5" =4.67 ,< .67 7.<.M
/ .<7 / ?,17'<7. 8 & 5 6 >5 -.>.6 / 41 / 41.6 P .67 >.
/ , 5>.-, 1 >. E' 1..<71.-, 1 5.6 .EE.56 >'<J.1.4@ > 4<.
,?< ,< ?.< 1>E5.; : . ,6 ;= / 7>6 < ,<7 .4 > '471.
,0Q.7 =4. ' ; ;>5..'7 ,< >. ->6 71'-'4@ ,6 6.'<;.6
6.1,<7 0 .<707'06,10>.6 >'<6 5" ?,6 7 ,< , : -,46 -, 6
71,4-.08 6 -,46 < '-.0 Q '6 4< 7.1 / . 5 @. -,46 <.
,46 / ?,6.08 ?,41 ' <6 > 1.8 5" <>..66 7.> >;'17;1
7,<6 5.6 ,0Q.76 7 . >>7' 5I 6 -,46 < '>,?7.0 ?'6 5" / ;
641. ?1,?,6>.8 ?< VE' 6'<7 7.56 ; :'<J. / .<56 =4. -,46
<J.1.0 ;,<-.<'05.68 "1.J'1>>.6> ` .<6;68 >4 <, /
01. >.6 <>7- >468 .7; 8 5 .67 / ?,66 05.=4. -,46 'V;0
7.1 / <.'4 U ', 57 -,71. ; :'17. ; <67 7 7 ,<<.55. .
1'??,17.41 -,46 ">, / > 5.6 > EE.1.<76 / ,7 E6 >. ,
? / ,< >4 ., / 7>I Q. / '11>7. 4< 6;45 6'<6 >,47;

<,46 '-,<6 / ,<71> Q46=4 . >. 5'E,1;.8 .7< 6 . '
< ,<71.1,<6 Q46=4 '4 >.1< .1 / , / .<7I / ' 6 6 6
6./05>.<'7 ,<'5. 7.1 / <.8 ' <6 =4. Q. 5.?.<6.8 6.6
,?>1'7 ,<6 2 5" E < ;54 / , 6 > ' , ` 78 <. 5 G ?
=4 '5,16 ,?< ,< 6, 7 7.55. / .<7 ; ,<6,5 >>.]41 -,6
71'-'4@8 =4. 5" >J 65'741.<. ?4 66. ?'6 '-, 1 > '<71.
>.-, 1 2 1. / ?5 1=4. >. 5.6 1.6?.;7.18 .7 >. 6 '6641.1
1.@>;47 ,< >. -,6 5, 6Z & 6 >5.-.>.6 / 41 / 41.6 P
,6 5, 6 '-' .<7 ?1. 4 7,46 5.6 ;'6= '?,4-' .<7 'J 7 [
4< J,4-.1<. / .<71.?1.6.<7'7 E8 .@;.?7.;.54 ,: <,46
<,466,4 4 '71,4-.6 ,?< ,< ?405 =<. < 'V'<7?4
< > 6;47.18 < .@' / <.18 5 .67;5' 1=4. 6 -,46 <.
-,46 .<- 1,<<.0 > 4<. J1'<>. E,1; .> ,?< ,< ?405
=4. & 6 .5.-.>.6 / 41 / 41.6 P .67 ?546 ;5' 1 .<M
;,1.=4. / " -, @ <. ?.456 >5.-.1 '4 >.6646 >.6 / 41
/ 41.68 .7Q. 7.1 / <. / ,<,?< ,<
I < " ?'1" ;1' <>1.=4. 5" 5.J 65'741.
<.<-': 7 5. ?,4-, 1 ; , ,6E 74'<7I .7 ?,41 ?1.-.? 1 ; .
>'<J.18 ,< -,46 ,EE1. 4<. / .6<1. =4. 81,< '??;55. $
4<. J1'<>. < .64-. G .7 ?546 Q.8 1.@' / <.8 ?546 Q. 5"
71,4-. ?4.1 5. 4 5. ; , / 7> " . 5.<>4 =4. 5.6 H1'77
J' 6 6;'1.4< 1,<7 6 : ?5. / .<7 ?,41 4<. >5. ; - =4.8
.7 -,46 '-.0 " >. ; >.1 6 -,46 V045.0 4<. E>70 >. ;.77.
<'741.I ,4 5. ; ,1 7> " 5. 047 6.;1.7 >. 1. 4< 1 >.6 ,
E ; .16 / 4 ; ?'4@ .7 >.6 J'1>.6 <'7 ,<'5.6 ?,41 1'7
5 ;1 -,71. #,<67 747 ,<8 .7 5 6 .67 ; , <J5.7. / . 7 71, /
?> #, / / .<7 ?.<7 ,< ;1, 1. =4 4<. ; ,<67 747 ,<
7.55.=4. 5" < 51. ?4 66. >71. 1'7 5 .. > 4<. ?'17 ?'1 5"
E,1; . '1 / ..8 =4 <. >, 7 Q' / ' 6 >.5 0. 1.1I >. '471.8
?'1 >.6 ,EE ; .16 / / ; ?'4@8 =4 < ,<7 >. ?,4-5 1"
=4. ?,41 5.6 'EE' 1.6 ?'17 ;45 :1.6>. 5.416 ; , / / 4<.6Z
5.416 6.1' 7 ; . 5" 4< -,.4 <'7 ,< 5Z "1'7 E . 5 ,<
>. 5" #,<67 747 ,< .67>'<6 5. ; ,.41 >. 7,46 5.6 H1'<J' 6
,71. #,<67 747 ,<8 4 ;4 >,47.0 ?'68 6.1" 1.5 J .46#
/ . 7 ,06.1->.8 & < '??5'4> 7 P 34 ,<<. ?.<6. ?'6
=4. 5" 5.J 65'741. ?4 66. ; : ;1; .1 " >71. ; ,<67 74'<7.
;.5" .7' 78 -,46< ',1 .b =7 4<. ; ,<65 745 ,< / ,0 5;8
4< J,4-.1<. / .<7 <; .17' < I 5 V ''1' 7 7,46 5.6 '<6
4<. <,4-.55. ' '1; : . '<6 >,47; >'<6 4< J1'<>
,4-1'J. E' 5 '4 / 5 .4 >.6 / ,4-. / .<76 6'<6 ; .66. 1W
<' 66'476 > 4<. / / .<6.1.-,547 ,<8 5 '71,4-.1
>.6 / ?.1E.;7 ,<6I / ' 6 ,?< ,< ?405 =4. 5.6 >; .,<G
; .1'I / ' 6 =4'<> 5" 1' 6,< ?405 =4. .67 E,1 / ..8 4<.
/ '4-' 6. 5, <. ?.47 71. 5,<J7. / ?6 .@.;47.. E'4>1"
>,<.1.?'1.1 ; .6 .11.416 ,46 ?1.?'1.1.0 5.6 / ,V.<6
> V ?'1-.< 18 .7 ?,41 .- 7.1 5. >'<J.1 >.6?1,Q.76' /
\ 7 .4@ > 4<. 5.J 65'741.8 5 -,46 6.1" ?1.6.<7. >J6
E,1 / .6 6,5.<<.55.6 .7 ?546 / ?,6'<5.6I 5 .67 > J<.
>. -,46 > '>,?7.1 5.6 <.641.6 ?4.1 5.68 <47 ;6 .7
>'4J.1.=6.6 ,< <. -,46 .< ?1,?,6. ?'6 > '471.68
Q. >. / '<>. 5" =4.67 ,< ?1>'5'05.
N 66.1'05. <. / . ?'1' 7?'6 '66.0
0 .< > 6?,6>. ?,41 .<7.<>1. 5" > 6;466 ,< 641 " ?1,M
?,6 7 ,< >4 ; , / 7. . <. / .< , ; ;4?.1' ?, <7I / ' 6
Q. / .7,<<.1' =4 ,< -,<6 ?1,?,6. >. 1>71';7.1 4<
>>;1.71.<>4 >.?4 6 =4'71.Q,416 &B6 . 5.-.>.6 / 41
/ 41.6 P ,46 '-.0 >.;1.7.8 5 V " =4'71. Q,4168 5"
646?.<6 ,< >.6 ; ,1?6 .5. ;7,1'4@ I V,46 '-.0 . '<78
'-.;'1' 6 ,<8 =4 ,< <. ?1,5 7>7 >.6 ; 1; ,<67'<;.6 ?1>
6.<7.6 ?,41 5.6 .<J'J.1 " >.5 0>1.1 .7'6 .5, J<.1' 6
7.1 / .6 >. 5" 5, < #. / , / .<7 =4.5=4.6 ; ,1?6
5.;7,1'4@ >>Q: E,1 / .6 6. 6,<7 6. ?'1.6 '<6 4< >.
?'17. / .<7 > 4<.'7 ; .<<. ^?1,-<;.8 =4 " >,<<>6,4
-.<7 .@. / ?5. >4 ?'71 ,7 6 / . .7 >. 5" 5 0.17. 8 .<
K1.7'J<.8 / ; ,1?6 5.;7,1'5" ;14 =<. 5" ;5 ,6. ?4
05 =4.8 1.?,6'<7 .<7 E.1. / .<7 641 -,468 >'<6 ; .6 / ,M
/ .<76 >. ;1 6;8 5 <.E'554 7 ?'6 5 1.I 5 "6.<7 8 4 / ;
'-'<7 -,71. > ;1.78 =4 ,< <. >.-' 7 <4B. ?'17 =4 ;
>.5 0.1.1 641 5" ; : ,6. ?405 =4. #. 6.1' 7 4<; 0 .<
.51'<J. <; ,<-.<'<. =4. >. 1.7 ';7.1 4< >. .1.7 =4.
5" 1' 6,< .7 5.6 ; 1; ,<67'<;.6 ,<7> ;5 8 5 V " =4'71.
Q,4168 .7 > . 5 5" 1' 6,< .7 5.6 ; 1; ,<67'<;.6 >. / '<
>.<7 4Q,41> :< 5" ; ,<6.1-'7 ,< .E,41< 66.0 ?'6 "
;.4@ =< -,4>1' .<78 ,4 'J 7.1 5. 1,V'4 / . ?,41 ?1,

& 7.1' >4' >>6 , 1>1.8' , 4' 0 .<' , ?>1.1' >.6' ; : '<J. / .<76'
>'<6' - , 71.' # , <67 747 , <8' *(5.41'E, 41< 66.0' ? '68' > 6 '
Q.' \5.6'>5 / .<56'> , <7' 76' , <7' 0.6 , <'?, 4.' > 6.1' , '
F$< , <' ?405 =4.% '.'>. / '<>.'> , <.'5'' =4.67 , <' ?- .' '
05. 8' =4 '<7' " ?1>6.<78' 641' 4<.' .7' 5 '5 71.' ?1 , ?, 6 '
K% & <' '??5'4> 7' .7' , <' << 1 / 41.%P' ' .6& - >.<7'
V57' 1. J '1>' >.' 5" ?1 , ?, 6 7 , <' >.' % K40 , 78' ? , 41' 5.'
66. / 05. / .<7' >.6' .5. , 7.416 ' , <' <.' ?.<7' '>, ?7.1' 5"
7.67 , <' ?1. '5'05.' =4 . W<W7' ' ; '1' >'<6'
' , 0.' Q, <16' ?.47 571.' 6.1'1 5' 71.6' 6'J.' >.' 5. - .1'5"
6?.<6 , <% 41' 5" ?1 , ?, 6 7 , <' >; 6' ; , / 7.6 , <' ?, 47' 6'
, <' - .<7' ?'66.1' " , 1>1.' >4' Q, 41% \
5% ' N .6' E.>.1'7 , <6' <.'E, <7' ?'6'> , '0 .<8'
N?.4 - .W7%5' 1;'0.'77; , 4?' >.N< ' 8 I' 88 < 8 <888
% ' . 6 ' .6' E6'>. / '<>.<7' 5'S=4.67 , <'
1.'5'05;' 54' 5.' 7 , 478' 5.6' '471.655 , 1>1.' >4' Q, 4 18' P.6'
71.6' 5'%> - 6 , <8' 5.6' '471.6' 5 , R=4.67 , <?1. 'Q'05.'641'
5 .6' , 4' 7. .6' > 6?, 6 7 , < .45.E<.< ' .' < .76' '4@'
P @' 5" > - 6 , <% $ % 7 8 ' 8' 8
66. / 05. .'>. ; >.'=4 .57.' 1" '4@' - , @' 641' ; : '=4.'
1 , ?, 6 0 , <' 6.?'1. / .<7' % 1 %
"?1 , ?, 6 7 , >.' % 4?, 17.67>; '17 .'?'1'5"=4.6 '
, :' ?1. '5'05.%8' %11 %G % %
66. / 05. .'?'66.'<' , 1>1.' >4' Q, 41' 641' 5" ?1 , ?, '
7 &Y' 71<>' 7.' "5. - W1' 5.' >>.1.7' =4 '646?.<>' 5" < , / '
'7 , <' >.6' >.?47.6%%
% ' < 6 < ' % 'E'V.77.' / >; 1 7' =4 <<.' >.M
<7'7 , <' >.6' J 1>.6<'7 , <'5.]>. '1. P<; 68>. ' <7. '
5]<. 7 , 45>8 E. # :>5, 6' .7' >.6' '471.6' - 5.6' >.' 5" 1 , 47.'
_7.'5.'1 , ' " ?'1; , 414.8' >.6 1.8' ' - '<5'>.' ?'1%5 18' 1.< 51.'
, < / 'J. " 1 66.< 05..%
">.?47'7 , <.67 71 , >4 7.' '5"0'11. + .6' / .< '
1.6' 754.>7.' & 1 , 7' '(1.7 1.<4' 7' ; ! ;
K K7Q ' ' ' N ! " ' - , - .0' >. - '<7'
.46' 5.6' >.7' ; : . / .<56' >.6' J '1>.6' <'7 , 14 5.6' >.' ' 8'
'4<.6- ' >, K. / 68' Q>._I:>&, K68>.' ' 7. .<. : , 45 58'
<<7 [5. Q, K : ><1' >9%E' 1.%.@W.47.1%8< , 7; .S8>. ; 1. '
<' ?1 , 7. J. '<7' 5.' 1.7 , 1' >.' , 4 6' "8V% 7 , 46Q - .UI
- , G'>. - , 7.<' 6' 6 66E <78' 5.6' 15<.6' >.' . ' '? V. I'
]' 3K E 7><<]71_ .K1< , 776%6 , 4 / . 'B7' '85" &?%\'
<> ." $<: *= #>$ $?+, *@? $(2& 4 (' >.5 < , 4<'
.' ' ?'7H .5'>4' >>1 , >< .47' '<0 .<?405 ; 8.7%< , 4<'
E7..66.< , 46E.5 , Q11 1'< , 6' E1.1.6' > '1< .6' ; E75 <' >.E, '
66'4..4 , R' <6Q [7 >.' - - 1.I' 5 01.6 , <' < , Y1 E8'
'E7 [1.5 , <6 ' ; .55 , ' ?1 , <.66.' .<' ? >6.< ; ; ' >='
66.< 05..' <'7 , <'5.8' , 06.1 - '7 , <' 1 J , 41.46.' >4'
1. < .Q116.S?<P.47% QcQJ '1'<7 1' " 5" ?'5<.' =4._5.6. '
' & <.%6 ; 1' ' / 'E. - , .% 8' ' %
E7 <<6 / < '< N 4' ?1. / .1' 6 J<'7'
'5'1B . " H1'4 ; .I.<7 .1. " ?1 6' 5.6'1 / .6% <' " - 4'
5 7 0.'5.' .<>'<J. I'Q #7' 5.' ?.4?5.'=4 ' "Q41.' >.' / , 41 I'
; <1' , , <6.? - .1' ; . 0 .<%6 ' ?1 ; .4@' 6 .67 1'55 >' '47 , 41'
.'6 ; 6' 1.?7.6.<7' < 6 ' Y' " V4' 5" # , <67 747 , <' ?1.6=4.'
; : . - .E7 6.6' >1 , 76' 'EE.1' 68 5' "64 ; , <6.1 - .1' >'<6' ; .77.'
1 6.' 5" > J< 7V' 75%<<8' ?.<?5"E 01.8' 5 >.5.' '>.6' %6.1 '
5.<56' &=4 7' .67' 1 , ?'J [.1.< E' ? , 41' 71' : 1% # .77.' @7 '
< 7.8' ; . ; '5 / . - ; 7' , 1>1.' ?405 ;' / ' 47. 4% E' 7' " 5"
P 6' 5" J5 , 1.' >4' < , / ' E1'< ' 6' .7' " : , <7.' >.' 6.6' >7\'
1' ; 7.4168' , 46' =4 8% >'<6 ; .' J1'<>' . - . / .<78' ' - .0'
"& 641' - , 46' 1 <7> >7' >.'7 , <6' - , 6' ; , < ; 7 , V.<6I' - , 46'
4' ' - .0' ; , 3# 414' > 4<.' / '4 .1.' 6' .; 5'7'<7.' 'E? 1.'
< 1<.1' '4' ?1 , 7' >.' 5'# , <67 747 , 4' 5.6' >- . <.<76' ?'1'
66=4.56' , <' " - , 454' " 1.< - .16.18' ? , 1710' 77 6' - , 6'
, V.16' 5.' 6.<7 / .<7' >.' - , 71.' 0 , <<.' ; , <>4 7.8' .7' .5 7.6'
- . ; , 1J4. 5N .6' 1.?1.6.<7'<76' >4' ?. ?5.' , <7' '??1>'
>' < , 71.' 5> - , 5 / .7 7N' 56' , <7' 1.<>4' Q467 ; .' " < , 1.'
.5.8' .7' .<' 1. ; .1'<7' < , 6' : , / / 'J.6' .7' < , 66.1 / .<768'
6' < , 46' , <7' 71 , 4 ->6' >.6%: , / / .6' 5 01.]8> J<.6' > .71.'
1'<J' 6%
66. / 05.. , 1> , <<.' <01.66 , <' >4' > 6 ; , 416' .7>.'
"1.? , <6.8' 1 ; '6.'< ; .' .67' 5. - ..' " ' : .41.6<' 7$
#' ' 5 ' ' 5 %
41' 5.' 1'?? , 17' E' 7' ?'1' % # ' / 46' > 4<.' , >7 , < 5 .

5" / 4< ; ?'5 7V' >.' '1 68' 5.'>>.1.7' 64 - '<7' .67' 1.<>4I
''( ) - (*+, $ *+ (/ ' (.+44 .' - (' ' *' 3 $, ('
- + $ - **, $ *' - 3")$(*" +, $ *+ 2/ + , .$' (+' *$3$!'
4+ $, (' - (' #$.$" +' 4. (* - .(' " +' .0($ + *3(' - - $. (3!'
, $. (' - ' - (4+. , ((* , ' , , (" (" (' .(" * - 3(''+$. ("
4 .' 5 (A(0 $'$$$+9(' - % $ (' +$' */ '$' (' . (' +$*, (!'
+.9 3.$, (/ +3 , (3 (* , ' 33 4 - (' 4+.' $$ #+%$(*3$(./
3 * , $9 (' + 2' 4.$' *" - (' +))+8(' - (' +$*, ! (. +$*' (, '
- (4(* - + * , (' - (' +' 3$! - (0+*, ' +))+8(' - (' +$*, ! (. +$*/
(4 $'' ($. (' +' *' '$. (, (' - (' +' 9+. - (- ('- $, .'4.$' *'7
- (' +' +) + , , . (' * - $, (' +$' *' '$' +' (%3(''$, (' - (' (#+$. ('
(' , ' .(3 ** (' 4+.' +' $$$3$4+ $ ((, ' (' - $. (3 $. (' - '
- $$4+. , ($*(* , ' +4. (" 0$'$ (' (, ' - ('3.$4 , $ *' - (" $(2' /
- $$, ' $' ' (.+' - .(' ' (4. 3(''!0(.) + / ($ (' ' (. +' (*0 8('
+ ' 3 $ (' - + $(* + , $ *7 (' , , ' +' +' 36+.9(' 5 (' ("
3+ , +$. (" - (' +' +$' *' '3. $$, ' $* - ($ *$' - " - 3' 4(. , ("
5 $ " (4. 0(. +$($$, ' 4+.' . (#(, ' - (" (' . ("5 $' (. *, '
4.$' ('
% .1< .1' ?1>6.<7.8' '4' < , / ' >4' ; , / 7.' >.6' E <'<M
; .68' 4<' ?14Q.7' >.' >. ; 1.7' ; , / '< , 6.' >.' U_7 71.68' 1.5'7 E'
" , 1J'< 6<7 , <' <7.1 . 1.' >.' 5" 71. 6 , 1.1 .'<'7 , <'5.%
.6' '17 ; 5.6' 64 - '476' 6 , <7 V.1>7. 6N

' D.% + ' ' '

.' BC ' 3 4, (.' - ' C.' $ (, / (" + - $*$' , . + !%
, (." (. - ("4+.' . - - $, ' - (' +." ())' 8' 36+.9(" - (" . (!'
3(, , (" (, ' - (" - (4(*' (" - ' , . (' .'4) $3/ - ' 4+$((* , '
- (" - - 4(*' (" - (' +' 9 (. . (/ - (3((" - (' +' +.$*(' (, '
- (" 3 *$(' ' / (, ' - (, ' , (" (" 4+. , $("
(' * *$ - (' , ' 3 ' '(. *, ' (' - ((. (. *, '
' 44.$ - '
% .'1. / 0 , 416. / .<7' >.' 5.4 ' E <'< ; .' , <' ; '47 , <' . '
<.<7' 6.1" . E. ; 74>' ; , <E , 1 / . / .47' '4' > ; 1.87' >4' ('
E. - 1 .1' (* I' .7' .<' '77.<>'<7' 56' Q, 4 1 , <7' >.'1 7>1E 7'
>.'5'>Q7.'E <'< ; .' , 4' ; '47 , <<. / .47' 641' 5.' ? 5 >' >.' ; < '
? , 41' ' / ' 6' 6.45. / .<7' .7' < <6' ' &54 5' ' > >' >. .1>7.'
? , 41' 7 , 46' 5.6 ; , / ?7'07.68' Q46=4 '4' .54 ' =4 ' 6.1" @>'
? , 41' 5" 1 ; >> 5 , <>.5.416 ; , / ?7.6% 8
%' 8 .6' 71.6 , 1 .16' >.' 5" J4.11.' .7' >.' 5" / '1 <.8'
< , < / E.' '> / 4 671'5.416?'1' .> 7' >.' / '16' 8( ))8' 1.< '
>1 , <78c5' 5.% 16E1' 6 5.6' ; , / ?5.@'<7>1 .416' '<' D8FQ4 55.7'
( )) 8' > , <7' Q5% %] , <7' ; , <5?5405.6' ; , / / .'71.6 , 1 .16' >.'5"
J4.?1. ; 78' > , 8' 5'8' / ' 1 < . ' ' ; .E' .RE.7' 56' 6.1 , <7' '47 , 1 6.6'
=%E.? 1.E' >. "041EEE54@8' ; '17 , <6' .7' >.?>76' =4 56' ' - ' .<7'
'4' 71 81?405 ; 8d7 , <6' 5.61. J 651.68' Q, 41<'4@8' ' ; &^4 768'
1. ; .? 66>68' 1. ; , <<' 66'< ; .68' .7' J.4>1'5.< .<7' 7 , 47.6' 5.]'
? . ; 6' Q.' ; , / ?7'0 5 7>' ' ; ; .66 , 1.6' ? 5" 1.>> 7 , <' >.6 '
& 76' ; , / ?7.6% ' 8
8 % .6' ; <='> / < 671'7.416' .1>.6' ?' 15 >> 7' >.' / ' '
( ))' < >7'<7' ? , <7' ; : '1J.6' >.6' E1' 6' >.' 1.>> 7 , <' >.'
; 416 ; , / ?7.68' '4@' 5.1 / .6' >4> 7' .> 78' ; ; 6' ; , / ?7.68'
>.? 6' 5.' D'Q4 55.7' 8' .? , =4.' >.' 5.41' '> / < %671' '
7 , <8' 6.1 , <7' E' 56' >'<6' <5.1 .41' >4' 71. 6 , 1' <'7 , <'5'
?'1' 4<' 041. '4' ' ; .' >.67 <>8' > , <7' 5.6' '> / < 671'7.416'
> 1 J.1 , <58' ?1.66.1 , <7' .7' 641 - . 55.1 , 1 7' 5.6' , ?.1'7 , <68'
; , / / .' >.'5.416' ; : , 6.6?1 , ?1.68' '77.<>4' = 56' >. / .4 '
1. 76?> ; ' . < . 7.7?1 - '7 - . / . 5 ; : '1J.6>.6' 1.7'1>68'
.11.416.7' , / 66 , <6' 1.6457'<76' >.% 5'> 7.' ; , < ?540 5 7.%
% , 46' 5.6' ; , / ?7.6' >.6' J'1>.6' >4' 71.6 , 1' 1 , V '58'
'<7 ; 1 .<16' '4> 7' Q, 41' 5D1' Q4 55.7' ( ))8' .7' =4 ' 6 , <7"
Q4 J.18' 6.1 , <7' >J'5. / .<7' E' 56' >'<6' 5.' 041. '4' >< , < ; .'
.<' '17 ; 5.'?1. ; .>.<7I' 5.6' ; , / ?7.6' > ; 6' J'1>.6' >4' 71.6 , 1'
1 , V'2' < 'V'<7Q' / ' 6' >7.'1.<> 6' '4@' E1' 6' >.' ; .6' 71.6 , '
1 .16% %
% .6> 76'> / < 671'7.4161. / .771 , <7'4@; , / / 6 '
6' 1.6' >.' 5" 71>6 , 1.1 .4<. 7'7' ; .17 >>.5 , 47 ; .=4 56'
'41 , 5' 1. .4' .7' ?'V>' 641' '<<..' (* 8' 6'<6' <.'4 / , <6'
=4.'5.> 7' .7'7' ? , 66.'6.1 - 1' '471. / .<7' =4.'? , 4 I' , 1><1' %
.7' E' 1.8' >'<6' '4 ; 4<' ; '68' 5 71.' ; , / ? '05.%
(' ' ' '
' !
.' CD' (" '$2' 3 *$$''+$. ('/ # , ('4+.' +' 4. 1
3 + +, $ *' - ' /. $ - ' E' $6+$/ (*' (2(3 , $ *' - (" - (3. (, '

>.6 '.7C(' / '16 (* 8.'71.1,<7;<.@.1; ;.'"; , / ?7.1'
>4' 5W1'Q4 55.7 (* %
%#<';4<> .<@6.1';:'1J7 >.> 1 J.1?'17 ;455E71.'
/ .<7 5.'714-' 5 > 5 <.'>.6 ?'17 .6 64 -'<7.6N
D "1.<7.Q, 1<'5 .1.%
CD ">.?.<6.'>4';457.8 >.' 5" 5 67.'; - 5.8 >.6 'EM
E' 1.6 .E1' J.1.68 >.6 ?,476 .7 ;:'466>.68 .7 >.6 >> '
?.<6.6 %
\' D .'?' . / .<7 >.6 <7>1>76 >.'5" >.77.' ?405 =4.' .7
>.6 ?.<6 ,<6% 8
UD .6 >.?.<6.6 >.'5" J4.11.%
D ;6 >>Q .<6.6 >.'5" / '1 <.' .7 >.6 ;,5,< .6%
D " ;, / ?7'0 5 7.%
% 56?1>7.14<7 5.6;1 / ,<7>.'E >.5 7.'.<71.'5.6 / ' <6
>< 1, 8 .7 6.1,<7 6,46 5" 641-. 55'<;.' :'0 74.55;' >.6
;J 5'741.6%
% .' ; , / 7> 6.1" ?1.6 >> 64; ; .66 - . ?.<7 ?'1' 4<
>.'6.6 / . / 01.6 ?; 7>'47 4< / , 68 >'<61,1>1.>.'5.41'
<, / <'7 ,<%
% .6 >.5 0.1 7 ,<6 6.1,<7 ?1 6.6 "5" / 'Q,1 5> >.6
-, @I .7 >'<6 E.';'6 >.' ?'17'J.'5" -, @ >4' 1'??,17.41'
<.'6.1" ?'6 ; , / ?7..%
% .6 ; , / / 66' 1.6 =4 ' < '41,<7 ?'6 >7.'>.' '- 6
=4 '41" ?'66.' ?,411,47.@ J.1=4 5.<6, 7 E' 7 / .<M
7 ,< 6 1'5.'1.J 671.%I 56 ?,411,<7 / > / .'1. / ;771.' '1'
>;1 7 5.6 / ,7 E6 >.'5.41',? < ,<8%?,41'>71.''44.@>6 "5"
>. 5 >147 ,<%
N % "<, / <'7 ,< 7 7,47.6 5.6 ?5'; .6 >4' 71>6,1'?4M
05 ;' '??'17 .<>1" '4' ; , / 7> >;' 71>6,1.1 .I ; .77.' , '
'E' 7.' " 5" ?541'575> >.6 - , @8 641'5.'1'?M
?,17 >4' '>'<6 5">- 6 ,< >4=4.5 5" ?5';.'
6.' 1,4-.1" -';< 7.I.< ;'6 >.'?'17'J.'> ,? < ,<68%5.'
1'??,17.41' '41" -, @ ?1.?, >;1' 7.I " >J'1> >.6
. / ?5,V.6 >,<7 5.6 1; ; .-.4 6.7 ?'V.<16 6.1' .<7?.1 '
6,<4. . / . 7 1.6?,<6'05.68 5" <, / <'7 ,< < .< 6.1"
E' 7.=4.' 645 5.41' ?1.6.<7'7 ,<8 5'=4.55.' 6.1" 6 J4>.'
> .4@ .7 '<<.@..'> 5" > > 0.1'7 ,<%
% .' ; , / 7> >.' 71>6,1.1 .' ?,411" >.67 74.1'5.6
64Q.76 =4 ' <.'1. / ?5 1,<7 ?'6 ;416 >.-, 16I .7 5.6 1> '
,;'7 ,<6 6.'E.1,<7>'<6 5" / > / .'E,1 / .'=4.'5.6 <, / M
<'7 ,<6 , 5 '> / 66 ,<6% d ' %7 G G
"% #.' d6.1" >'<6 5.6 '66. / 05>.6> ' ;0 / 7> = / 6 G
1.<7 1'??,17>6 5.6 > '56 >.' 5 671 047 ,< >.'! ''E1.6 '
6.6 ?'1'5.6 : < 671.6 >.6 > 5 .1.<76 >.?'15. / ><E6 c >4:E
56.1"=4.67 ,< . '? .68 =4.6. ,<76 J< .6 5.' >77 / 6
;,55.;7 -.68 .7 =4.'6.'E.1" 5" -.1 E ;'7 ,<>.%6 d>5 7 '>;'
1.;.55.'.7 >.'>.?.<6.% \
"% ,<6 5.6 Q,4168 " ,4-.1741.' >.6 d041.'4Q7I 5.'
?1>6 >.<7 >.' / , 6 6.'E.1" 1; / .551.' >7'7 >.' 6 74'7 ,<
>4' 71>6,1' ?405 >8 =4 ' '41" .7.' '11>7> 5" -. 55.I ; .7
>7'7 .;1" E' 7 >,405.8 '5 <>.'E">1.66.1' " 5" ?1. / .1.'
>.< >.8 6, 5 " 66. / 05..'<'7 ,<'5;'86, 7'4@'; , / '
/ 66' 1;6 , / / .6 ?'1' .55.% .' 6.;,<> > ,405.' 6E1"
;,<6.1-.' >'<6 5.6 '1; : -.6 >4' 6.;1.7'1 '7 >4' ; , / 7>%
" ' ,<6 5.6 =4 <0.'Q, 4168 .< .@>;47 ,< >.' '1 '
7 ;5.' " "' >.'5" 5, '>4' ' / '16 (* 8 > ; , / ?7.' J> '
<>1'5 >.'1.; .77.' .7 >.' >.?.<6.' 6.1" ?,17.' '4' ; ,1?6
7>J 65'7 E .7 '4' 1, ' ?'1' 5.' ?1>6 >.<7 >4' ; , / 7>% #.'
1<. / .' ; , / ?7.' 6.1"1.<>4' ?405 ;'7,46 5.6 / , 6 ?'1'5"
-, .'>.' / ?1.66 ,<%
" % .6 5.771,6 =4 ' 6.1,<7 '>1.66>.6 '4' ; , / 7 >
>.' 71>6,1.1 .' 6.1,<7 ,4-.17.6 ?'1' 5.' ?1.6 >.<7% 7
/ .771" " ?'17 5.6 5.771.6 .7 / > / , 1.6 &E,<7 5 ;1, 1"
>>-, 1'E' 1.'> 1.;7. / .<7 c.'1'??,17 '4' ; , / 7>I 5 E.1"
5.' 1.<-, ' >.6 '?71.6 " ; .54 ' >.6 ; , / / 66' 1.6 >.'5"
71>6,1.1 .' =4 56 ; ,<;.1<.1,<7% ' 6.1" 7.<4'1.J 671.'
?'1'5.'6..1>7' 1.8 7'47 >.6 1.<-, 6 =4 ''41><7>7.'7' 568
=4.'>.6 / .5<, 1.6 .7 ? >..6 >,<7 5.' ?1>6 >.<7 6.'6.1"
;:'1J.'>.'E' 1.'5.'1'??,178 .7 5 5.41' 6.1">,<< > 4<
44 / .1,' ?,41' ,1>1.' >4' 041.'4' >.6 1.<-, 68 ' <6Q
=4 5 6.1" ?546' ' / ?5. / .<7 .@?5 =4> >'<6 5.'5 71.'
-' 7%
' +*' (' 3+" $' (" 3 $''+$.(" -(' +', .-' 1
.(.$(''(.+$($$,'$*# . -" -(' 5 (5$$(" 3+ '(" 5 $+44 .!

7.1' .<7 >.6 1.7'1>6 >'<6 5.6 1.; ,411. / .<768 56 .'
<6714 1' .<7 5.' / 4 671.'>.6 ; ,<71 047 ,<6 ?405 =4.6
.7 1>;5' / .1,<5 ?>1 6,< .<71. / 6;'5.'6.; ,416 >.6 ; ,1c
'> / < 671'7 E68 ?,41' =4.'5.6 1 B.6 >.6 ; ,<71 047 ,2
> 1.;7.6 6, .<7 / 6 .< 1.; ,4-1. / .<78 ?,41' =4 5 6,'
<, / <.' >.6 ; ,55.;7. 16 ,< >.6 1.; .-.416 >.' ; , / / '
'47>68 .7 =4 '6, 5 .7'05 '>.6 ?.1; .?7.416 ?,41' 5'
; ,<7<047 ,<6 <> 1.;7.6 >'<6 5.6 .<>1, 76 , 5 5 < 5
.@ 67.1' 7 ?'6 8 .7 J><.1'5. / .<7 ?,41' 7,<6 5.6 ,0QQ.'
=4 ' ?,311,<7 <7>1.66.1'5.'6.1- ; .' ?405 ;8 .7 / . 7 &
6.1" E' 7.' >.'5'> 7.'1>;5' / '7 ,< > '<6 5.' ; , ??7.'1.4;'
7,46 5.6 = <0.'Q,416 '< ; ,1?6 >J 65'7 E .7 '4' 1, %
" % .6 ; , / / 66' 1.6 >.'5" 71>6,1.1 .' ; ,11.6?, '
>1,<E > 1.;7. / .<7 4-.;' 5.6 ; ,1?6 '> / <671'7 E.' W'
7,47 ; .' =4 ' '41" 71' 7 '4' -.16. / .<7 >.6 E,<>6 >7' '
>'<6 5.6 / ' <6 >.6 1.; .-.416 >.' > 671 ;78 '4@' ,0'
7 > .6 '=4.' ; .' -.16. / .<7 ?,411' 7 >?1,4-.18 " 5" -.1'
E ;'5 ,< >.6 ;' 66.6 >.6 5.; .-.416 .< 1.7'1>I . E ' '7
,1>1.6 ">,4<.1'?,41'6641.1'5.'6.1- ; .'>.6 1 G..-;41'
>'<6 5.';'6 , 5 75 6.'71,4-.1' 7 1'5.<7 '?'1'<.J5 J.4.7
1>5.<7 ,< >.' >.< .168 E' 55 7.' ,< '471. / . / 7I .7 '
'>1.66.1,<7> 1.;7. / .<7 '4@ 1.; .-.416 5.6 ,1>1.6 1'
5'7 E6 '4' 6.1- ; .' ?405 ;%
" % .6 1.; .-.416 >.' > 671 ;7 <.' ?,411,<7 E' '
'4;4< ?' . / .<7 641'5;6 >.< .16 >.67 < ' ">71.' -.16
>'<6 5" ;' 66.'>.'5" 71.6,1.1 .'<'5 ,<'5.8 6'<6 V '-,'
>7> ' 7,1 6.6 ?'1'5.'; , 4 7.'>.'71.6,1.1 .8 'c . .'> 5
>. / .41.1' ?.16,<<.55. / .<7 J'1'<76 .7 1.6?,<6'05.6%
" % .6 1.J .6 .7'> < 5 671'7 ,468 >,<55.6?1,>4
< . 71.1,<7 ?'6 >'<6 5.6 ;' 66.6 >.6 1.; .-.416 >.'> '
71 ;78 5 .' ?,411,<7 E' 1.' '4;4< ?' . / .<7 .71' J.1'
5.41' '> / < 671'7 ,<8 6'<6 V '-, 1'>7.''45,1 6>.6 ?'1'
; , / 7> >.'71.6, .1 .8%' ?. / .'>.'>. / .41.1' ?.164 / .'
5. / . 7 J'14 7.6 .7 1.6?,<6'05.6 >.6 ,1>1.6 =4 .57'
'41' .<7 ?4' >, / .1' " ;41" & 7 66 . % 5 6.1" '11>'
?'1' 5.' / 4 671.' >.6%; ,<71 047 ,1 6 ?405 =4.68 ?47
,:'; <.'>.6> 7. ' 1>'V.68 4< .5'7 >.6 >.?. 6.6 5 @.'
'7 / '.55.68 >, E7 4< >,405.'6.1" '>1.66> ' ;' ; , / / '
6' 1.6>E.'5E'71.6,1.1 . % ' d #
" B%' ;6 ?1>?'1'7 E d?,W1' ';:'7> 7 % / 57<>1' 1'
7'47 QW.' . _57. / K . .1.d >; .Y' 1.I e W,<7 E.'
?1, 6,<7 7. 7 .7 5.%6 E1' '> 6;47>6 ?'1'5.;, QE7.'5
71.6,1.1 .8 ' 66. / 05>.' <'7 , 1'5. ; , 5 <<'47 '' 7.'
>J'1> 8 ?,41'5.6 ; ,7 / 66' 1.6 >.' 5' 7 1>6,1.1 .?1' N
7,1 6'7 , =4 .55.' " ?1.0.>. / < .<7>, <7>.574 ? 5 67'
>.6 5 <'<; .6I '/ '76 5.6 / '1; : .6 <> 6.1, <7; . 546 =4'
5" / 'Q,1 7> >.6 >.4@ 7 .16 >.6 -, % F ' ' \ R
" U % .6 ; , / / 66' 1.6 >.'5" 71.6,1.1 . <> 1. 7
?5 1,<7 5.6 E, ;7 , 6 >,1>, :<'7.416 =4 " J';> >'
E1' 6 > ';:47 >4' 4< / .1' 1.' 6.45. / .7 7I d>' 6 ^,46 5'
'471.6 #'68 7,1>,<<'<..'>.>>?.<6.' ,4' >7 7 >1>0 '
<'<;.' 6.1" ?1>6.<7> 2' 5" 6 J<'741.' >7'1,7 ?'1'5.' / '
< 671.'>4' >.?'17.< .<7 =4.' ; .77.'>.?.<6.'; ,<; .1 .<
.< ; ,<6.=4.<; .' 5.6 041.'4@' >.6 ,1>,<, '<; .68
; , / ?7.1' >4' WD Q4 55.7 ?1, ; :' <8 ; .66#1,K7 >.'E' N
?'15 .'>.'; .4@ >.'5" 71.6,1.- .<'7 ,4'5.% G $
" "% ;6 ; , / / 66' 1.6G >.'5' 71#6,1.1 .' E 1.<>1, '
5.6 ?1.;'47 ,<6 <.; .66' 116 ?,41' =4.' 5.6 .5E.76 >.'
7 <.6 " .71.' 01 .6 .' ?4 66.<7 ?'6 1.<71#1' .< ; '
> 5'7 ,<I .7 5.' 01E5 . / .47 >.6> 76 .5E.76 <.' ?,411" '
E' 1.' =4 .< Q 1.6>4@' >.6 ; , / / 66' 1.6 <, / / .6 ?'
5.' ; ,1?6 5.J 65'7 E%
" "% <>.?.:>' / / .<7>.5.416E,<;7 ,<6; ,55.;7 V.'
5.6 ., / / 66' 1.6 64 -1,<7 Q,41<.55. / .<7 .7 7 > -'
>4.55. / .<7 7,47.6 5.6 ,?.1'7 ,<6 1.5'7 -.6 '3 I> -.16
6.;7 ,<6 >.'E" 71.6,1.1 .' '7 ,<'Q;' ' @=<.55 ' 56 6'
1,47 ?'17 ;47 .1. / .47 '77'; : .68 ' <6 '=4 5'.]7 6?.; E
>'<6 5.6 5 71.6 64 -4 768 .7 56 E.1,<7 '4' ; , < 7.'5.'1'Q
?,17 >.' 7&P47.6 5.6 '55' 1.6 =4 ' ' ; , <; .1<.1,<7%
$ ' ' %%% & ' % d
17% 7D-% .' 6..1.7' 1.8 >,<7 5" <, / <'7 ,<'" .'
?1.6.1 7.' ?'1' '17% 55 >4' >.;1.7 >4']' / '168 6.'
;:'1J.'>.' >1.66.1' 5.' ?1, ;06 -.10'5 >.' 7,47 ; .' =

'41'' 44 .7 ; : '=4.'67'<; .8 ' .'7.< 1
5.'1. / 71.'>.6>.5 0.1'7 ,<6> ' ; , / 7.'>.'71.6,1.1 .8
> V E. 1.' / .<7 ,< .< >.7' 5 >.'7,<6 5.6,0Q.76=4 ' '4 '
1,<7.7.'71' 7.6>'<6 5.6'66. / 0 ..6%
E.1'' ?'66.1' '4@; , / / 66' 1.6 >.6> EE.1.<7.6
6.;7 ,<6>.' S'' 71.6,1.1 .'5.6 5.771.6 .7 / . / , 1.6 '>1.6 '
.6 '<' ; , / 7.8 64 -'<7 5.6 ,1>1 6 >.' 1.<1, ' =' ' P4C
6.1,<7>,<<.6 ?'1 5.'?1.6 >.<78
.< E;1'' .<1.J 671. / .<7 6, / / ' 1.'=4 ' ; ,<7 .<>1''
5'' >'7.' >.' 5'' 5.771.' .785'' >'7.'>4 1.<- , N .< / '1J.'
5 E.1'' / .<7 ,< >.' 5'' >'7.' >.' 5'' 1.cP,<6.' .7 >.' ; .'
=4 .55.' # ,<7 .<>1'% 2' ; .7 .EE.78 5.6 ; , / / 66' 1.6 >.'
5'' 71.6,1.1 .8 ; : ';4< >'<6 6'' ?'17 .8 54 ' 1.< ;771,<7
>.6 E.4 55.6; ,<7.<'<7 5'' >'7.' .7 .@71' 7 64; ; <. ' >.6
5.771.6 =4 56 '<1,<7 ?1 .<7. .6 ' ' $,(%
' .7'05 1'' >.'?546 < 1.?.17, 1.8 ?'1' ,1>1.' '5?: ' '
'>7 =4.8 >.'7,47.6 5.6 5.771.6 >,<7 5 '41'' E' 7 5.'1.<- , %
% .' 6. ;1.7' 1.'6.1'' ; : '1J.' >.' 5'' J'1>.' >.6 '1M
; : -.6 >4 ; , / 7.I >.'7.< 1 .< ,1>1.'5.6 .7'76 >.'1. ; .77.'
.7 >#?.<6.' =4 ' 6.1,<7 E,41< 6 '4 ; , / 7.' '4@ > 5 .'
1.<7.6.? =47 6; '?1#6 <> =4..68 ' <6 =4.'7,<6 5.6
/ . / , 1.6 .7 ?E.;.6 >.'1. 6. J<. / .<76 4 >.' ; , / ?7' '
0 5 7.'J.<.1'5.% %8
'< <, / ' >4 ; , / 7.' / 5 :41.' N '<6
5 47.6 5.6 ?'17 .6 >.' .1'? 1.' E1'<J' 6 5.6 ; ,<5.4-6
<'7 ,<'5.6 6,<7>.-.<4.6 4< 6 J<.'>.' 1'55 . / .<7?,41
.6 ?'71 ,7.68 ?,41 5.6 >#E.<6.416 >.'5'' # ,<67 747 ,<%
'17,47 5.6 .<<. / 6 >.' 5'' 5 0.17.' ,<7 ; : .1; : > 5.6
>.714 1.8 .7 . .67 ?.47 71.'4< >.6 / ,7 E6 ?,41 5.' / 45M
7 ?5 .1% .' ?'<' ; : .' 05'<; > 4< >.' <,6 1, 6 / .<' 7
Q'> 6 5.6 H1'<?' 6 5'' - ;7, 1.% .6 . ,45. 16 <'7 , '
<'5;6 E.1,<7 ?546 N .55.6 1'??.57.1,<7 '4@ / 5 7' 1.6
=4 56 ,<7 4<.' ?'71 .8 .7 =4 56 ?,17.<7 5.6 '1 / .6 ?,41
'>.6714;7 ,< >4 >.6?,7 6 / ..7 Q'>.E.<6.'>.'5'' 5 0.17.%
<6' ,<.'5.6 '7J5.6 1, / ' <.68 .55?6 >.- .<>1,<7 5''
7.11.41 >.' ; .4@ =4 ' <,46 '77'=4.1,<7I / ' 6 .< <.'5.6
>>?5,V'<7Q' / ' 6 ?,41 .<-' : 1 5.'>, / ' .'>.6 <'7 ,<6
#71'<J#1.68 .55. ' '77.67.1,<7.< / / .'7. / ?6 =4 .55.6
?7,4-.1,<7 -,71.' ; ,41'J.' .7 -,71.' .<.1J .8 .55.6 '7 '
7.67.1,777 -,71.' Q467 ; .'%.7 -,71.'J. 4.1,6 7.% 3 4.' .'
5.<>'1> <'7 ,<'78 ; ,<E > .<71.'5.6 / ' <6 >.6 6,5>'768
6, 5 4< J'J.' >.5.41 6,4 / 66 ,< '4@ 5, 6 3 4.' <,6
01'-_Y / 5 7' 1.6 6.'6,4-Q.<<.<7 =4.'?546 4<.'<'7 ,<%
5 01.8 ?546 5.6 6,5>'76 6,<7 604 / 6 '4@ Q, 6 .7 45''
> 6; ?5 .E 7 V,468 ,EE ; .16 E1'<; ' 68 6 = ;5=4.6
?1>Q4J>6 -,46 1.7 .<<.<7 ,<J.O =4.'5.6 > 67 <;7 ,<6
0,<,1 7 =4.66.6,<7> 66 ?#.6; , / / .'4<.'-' <.E4 / >.8
=4.' 5'' 1.<7'05.' <,05.66.' .67 5.'6,4-.< 1 >.6 0,<<.6
' ;7 ,<68 .7 =4.'5.'6,4-.< 1 .67 <>>?.<>'<7 >.'7,47.6
5.6 5, 6%
,45.0 -,46 ?'17'J.1 5'' J5, 1.' >.' -7\6 '<.>71.6Z
V.O 5.416 -.1746I E'>.6 ?,41 -,71.' ?'71 .' ; ; =4 56
,<7 E' 7 ?,41 .55.I / ' 6 < '55.O ?'6 ; : .1; : .1 >'<6
>.6 '<7 =4.6 ?'1; : . / <6 <.'64?1> / '7 .'=4 '< .67 >4.'
=4 '' -.174% .7.O 5.6 V.4@ 641 -,71.' ?'71 .I .55.'
-,46 7.<> .<; ,1.' 5.6 01'6% ,V.O .. ' ; ,<; .17 > ,? '
< ,<6 .7 >.'-,5,<7>6I ?,4-.O -,46 ;1, 1.' .<; ,1.'=4.'
5'' #,<67 747 ,< 4.' 6, 7 ?'6 5.' 1>6457'7 >.' 5'' -,5,<7.'
J#<.1'5.8 =< .55.' <.' >, -.' ?'6 E' 1.' 5.' 0,<: . 1 >4
?.4?5.'E1'<?' 6Z . / 66.0 -,46 '4@ >.E.<6;416>.'5''
5 0.17.8 .7 -,46 ';=4.11.O >#6 >1, 76 / ?1.6;1 ?
7 05.6 5 5'' 1. ; ,<<' 66'<; .' >.' 5'' ?'71 .%%%%%%% ,71.
; , / 7.' / 5 7' 1.'?.<6.' =4.' 5.6 >1'?.' @ '4@ 71, 6
; ,45.416 <'7 ,<'5.6 >, -.<7 >.-.< 1 >'<6 7,<6 5.6 1.M
J / .<76 5.'6 J<.' >.'1'55 . / .<7 >.6 0,<6 H1'<; ' 6% 5
-,46 ?1,?,6.'5.'?1,Q.7 >.'>.;1.7 64 -'<7N
66. / 05..' <'7 ,<'5.8 ,< ' 5.' 1'^ ?,17 >.' 6,<; ,M
/ 5 7' 1.8 >.;1.7.'5.6 '17 ;5.6 64 -'<76N
5D .' ?1. / .1 >1'?.'4 >.' .0'=4.'1.J / .<7 > < '
E'<7.1 .'E1'< 6.8 '55. / '<>.8 15'<>' 6.' .7 5 .J., 6.8
>.' ; : '=4.'1.J / .<7 > '17 55.1 .8 ' <6 =4.'5.'>1'?.'4
>.' ; : '=4.' 0<7' 55, ' > <E'<7.1 .'5. J 61.% 5.' ?1. / .1
. ; <>'1> >.' ; : '=4.'1. J / ;<7 >.' ; '-'5.1 .'E1'<Q' 6;8
>.' : 466'1>68 >.' ; : '66.476 '' ; : .-'5 .5 >.' .'1'0 < .16%

.7 5.'?1. / .1 J4 >,< >.' ; : '=4.' 1>J / .<7 >.' >1'J,<6
?,17.1,<7 >>6,1 / ' 6 5.6 71, 6 ; ,45.416 <'7 ,<'5.JV
64 -'<7 5.6 > 6?,6 7 ,<6 .7 E,1 / .6 =4 ' 6.1,<7 ?1.6.<M
7..6 '' 66. / 05>.' <'7 ,<'5.' ?'1 6,< ; , / 7# / 5 7' 1._
OD .6 '471.6 >1'?.'4@ >.6 1#J / .<76 > <E'<7.1 .
E1'<; ' 6.8 '55. / '<>.8 15'<>' 6.' .75 >J., 6.8 .7>.6
1.J / .<76 > '17 55.1 .8 5.6 '471.6 #7.<>'1>6 >.6 1.J M
/ .<76 >.' ; '-'1 .'E1'<; ' 6.8 >.' : 466'1>68 >.' ; : '66.4<
'' ; : .-'5 .7 >.' .'1'0 < .168 5.6 '471.6 J4 >,<6 >.'
; : '=4.' 1.J / .<7 >.' >1'J,<68 ?,17.1,<7 >.6,1< ' 6
5.6 ; ,45.416 '5E.;5..6 '' 4< E,1 / .' >.' ; : '=4.'1.J M
/ .<7 64 -'<7 5.6 > 6?,6 7 ,<6 .7 5.6 E,1 / .6 =4 '6.1,<7
?1.6.<7..6 '' 66. / 0 ..' <'7 ,<'5.' ?'1 6,< ; , / 7.'
/ 5 7' 1.% $
D ,<6 5.6 >1'?.'4@8 .7.<>'1>6 .7 J4 >,<6 ?,17.G
1,<7> 4< ; 7.'5.6 <6;1 ?7 ,<6 64 -'<7.6I '
5 >.5 '451.8 5.'<4 / .1,'>4 1.J / .<7%
UD .6 ;1'-'5.6 >.'7,46 5.6 >1'?.'4@8 .7.<>'1>6 .5
J4 >,<6 '4@ ; ,45.416 <'7 ,<= .6%
'#,4@ >.6 1.J / .<76 =4 ' ?,17' ?<7 >'<6 5.416
>1'?.'4@8 .7.<>'1>6 .7 J4 >,<68 >.6 ?1. -.6 : ,<, '
1'0 .6 ' =4.5=4.6 ' ;7 ,<6 .;5'7'<7.6 > 5'' & 8
; ,<6.1-.1,<7 ; .6 / '1=4.6 >.'5.41 0,<<.' ; ,<>4 7.' .7
>.'5.41 -'5.<1G8 / ' 6 7,47.6 '1 / , 1 .6 ,4 '471.6 / '
=4.6 > 67 ;7 -.6 =4 ' ?,411' .<7 7.< 1 ' 5'' E >'5 7.'
6.1,<7 .<5 .1. / .<7 64??1 / #.6 >.6 >1'?.'4@8 .7.<M
>'1>6 .7 J4 >,<6% + '#.'?1,Q.7 >.' >.;1.7 .67 '>,?7.%
41 5'' ?1,?,6 7 ,< >.' % 5.@'<>1.' ' / .7 : 8 5.'
>7 .1.7 64 -'<7 .67 1.<>4N
W .6 ,EK; .16 ; : , 6 6 ?,41 ; .77.' E, 6 6.45. / ;<7
?,41 ' >.6 >; ' ; ' / ? <.'?,4 1,<7<#'< / , <6 ,0 '
7.< 1 5'' ; , / / 66 ,< >.' ; '? 7' <.6 =4 '' .?,=4.'5' '
=4.55.' 56 V '41' .<7 .7.'?,17.6 ?'1 5.41 '<; .<<.7.'
>'<6 5.416 ; ,1?6 1.6?.;7 E6%
Y .' / < 671.'>.'5'' J4.11.' .67 '47,1 6> '' . / ?5,V.18
; , / / .' ,EE ; .16 J#<#1'4@8 5.6 ,E5 ; .16 =4 8 #7'<7
E1'<; ' 6 .7 6 .7'<7 .@?'71 .6 6,46 '<; .< J,4-.1 . '
/ .<78 6,<7 1.-.<46 .< H1'<; .' '4 / , / .<7 >.' 5''
1.-,547 ,<%G
% K41.'4@ 40V ?1.6.47.8 '4 <, / ' >4 ; , / 7> / : '
5 7' 1.8 7 < ?1,Q.7 >.' >.;1.7 641 5'' 64??1.66 ,< >.G
;7'76 / 'Q,16 >.6 ?5' ; .6 .7 641 5'' / '< :1.'>.'6 ??5#.1
'5.416 6.1- ; .6% %
,46 1'??,17.1, 6 >'<6 5.'<4 / >1,'?1, ; : ' < 5.6 '1M
7 ;5.6 >#;1.7#6%
% I .'-.<6 >.'1.,.-, 1 4< ?'<4.5
, ,<7.<'<7 >.4@ 5.771.6 '>1;66;.68 <<.' '4 ?1. 6 4.<7
>.' 66. / 05..' <'7 ,<'5.8 .7 '471.' ' 66. / 05..%
55.6 6,<7 >.' % K,4 55.% '' 5.771.' =4 ' / .67 '>1.66>.'
.67 ' <6 ' ; ,< 4 .NW % 5.'?1.6 >.<78 Q.' -,Q 6 .<-, .'
; Q, 74<.' 5.771.' ?,41 5 66. / 0 U.' <'7 ,<'5.I Q.' 5''
;1, 6 '66.O <7>1.66'<7.'?,41 -,46 .<J'J.1 ' 5'' / .771.'
6 < 6 6.6 V.4@% & ' 5.' / '1=4 6 ' (' $
%K b N# .674<.'5.771.E,17 <6,5.<7.%& 546 .416
-, @ >.' 5'' ?'17 .' J'4; : .'N # .67 . J'58 5 E'47 5'' 5 1.%P
% ' N .'< V ' 'Q.7.' =4 4< ; ,4? > ; . 58
.7 Q ' ' -4 =4 .55.' ; ,<7.<' 7 5.6 .@?1.66 ,<6 5.6 ?546
-5.6% & .6 / / .6 -, @I 3 4 / ?,-7.Z 6.O 7,4Q,416%P
' ' ' + ' .'1, ' - .<7 >.' E' 1.'
4< . K017 ?,41 01 6.1 6.6 E.168 4<.'>.67 >.' '-.4J5.' '
5'=<. 5.'5.6 . / ? 1.6 6,<7 6, < 6 .< '' >#; >> '471. '
/ .<78 5 .67 .<; ,1.' -,71.' ; '?7 E% .6 Q,416 ' <6 '=4.'
; .4@ >; 5'' 1. <.1 6,<78 .7 Q .< E1# / 68 ' 5'' > 6?,6 7 ,<
> 4< ?.4?5.'=4.'-,46 '-.O 1.<>4 E.1, ; .' .7 =4 ' .67>. '
-.<4 ,0Q.7>4 / ?1 6 >.' 4< -.16% .67 7>1#66'<7
?,41 5.'1, 8 ?,41 -,468 ?,41 ; .' =4.' -,46 '??.5,O 5''
<'7 ,<8 ?,41 / , 8 =4.'5.'J1'<> ,0Q.7 = ' >.-' 7 >71.'
5.' 1#6457'7 >.' ; .77.'>. / '1; : .'6, 7 ; ,<<4I 5 .67 / M
?,17'<7 =4.' ,< 6' ; : .'=4.'5.'1, ' <.' ; : .1; : ' 7 =4.'5.'
6' <7 > 4< ?.4?5.' <Q467..7 ;14.5%8 >J'J. / ' <7.<'<7
>.'7,<6 5.6 5 .<6 =4 ' / '77' ; : ' .<5 '' -,468 Q.-' 6 -,46
?'15.1 5.' 5'<J'J; >.'5'' -;1 5>8 =4.'-,46 < .<7.<>1.O
?'6 6'<6 >,47.% .'1, ' >7' 7 >.-.<4 5.' ?1 6,<< .1 >.

[illegible]

(' 4.$2' -(' 36+5 (' (',+ 4(' (','-&' F' F' ' /' (','-(' T' $0 '+4(.$(*.((*,' 3 .$((D' *' (''-$',.$) (.+' '*$0+*,' (' .+*9' - *'3.#4,$ *

' +.$'/' 36(U' ++,(*./' (' +$*,%@8+3 *,(/' *D' BT

' .$*,(.(,'-(') (,'' 5 ((' - $,' .(4.#((*,(./' 3(, (' ' $,(' .(*$.+' (' (.$,(' -(' (2(3 ,$ */' '$' ((' ('#,.+$,(3' +0(3' (' ! $F (' ' $*' 5 (' (''-(2' 4.($(.(''(',+ 4(''5 $' 8$(**(*,' #$(' 4+.+$,.(;

' ,. 8(' +' +' (3' +-.(''(' ('' 0.+9(''$8+*,''-+' F$*(' + ,(./' $*-(4(*-+ (*,' -D+*' 9.+*-' *).(' -D(+.' <+ 4(''(4+.(('' $

V' ' ' ' ' ,+) (+ 2' 6$', .$5 ('' -('' 9.+*-''6 .+(''-(' +' .+*3(' 4.$''-+*''36+5 (' 9(*.(' -(' 3(D' ().$ (7' 0.+9(' *+,$ *+ /' # . +,' ,*!# $

(,' 0.+9(/' 3 4 '(' -(' GF' 4 +*36('' 5 ,' 3 $$,$(*-. *,' G ' 4 .,.+$,'' (*.36''-(' ,+) (+ 2' (,' (-+ $ *'/' +0(3' -('' * ,$3('' 6$', .$5 ('/' 3 *,(.+' TG' $0 ' (*' #($,('D' BB' 8' +' +3&' , (,((*,' FP' (',+ 4('' -(' 3(,,(' 3 (3,$5 ' + ' . ' .$2$' GF' $0 ' BI' ' '7' +0+*,' +-.(''(' (' -) (' +' ' $,(' 3 D' 4 ,(/' ' 4(.$(.($*(*,' 3 .$((/' P I I' 0' .($((

V' !'' ' #$ ' ! WX' #$9 .('' - +4.('' ('' -(''$*'' -(' ' +.$ $(.' .$2/' FDW' $0/' $*DFDD/' 4+4$(.' 0F $*7 PG' $0 / 4+4$(.' .-$* $$.(7' WH $0 /' 4+4$(.' 0 -$*/' $*!EC7' (,' WF' $0 /' 4+4$(.' .!/' -$*+$.(D' ('' (',+ 4('' 4(0(*,' ' +-+4,(.' ', ,' (''(.$(('' - (-$D' ,$ *,Y

' %' (*.36(' -(P I I' #$9 .('/-%+4.('' '' -(''$*'' -(' +.$ $$(./ BW' 0 ' $*!EC/' 3 *,(*+*,' WX' $$0.+$' *'' BB' 8' +' +3, ($ ($(,' G' $0.+$' *'' + ' . ' .$2/' $W' $0 ' ()+5 (' A$D' 0.+$' *

V' ' & ' ' ' ( ) ' ' *# + ' (*' BG' #,9 $('/' # . +,' 9.+*-' $*$ F / +0(3' -('' * ,('' 6$', .$5 ('' .$2/' WF' 0' (' #($$ ('' &

V! ' ' ' ' !' (*' BG' (',+ 4('/' .(4.(''(*,+*,' -('' 4 +# *-''(,'+.+)('5 (''+*,$5 ('/' +0(3' *(' -('3.$4,$ */' # .1 +,' $*!# $ ' .$2/' (*' #($$ ('/' BE' $0 /' 9.+*-' 4+4$(.7' (,' BW' $0 / 4(,$,' 4+4$(.

%' & ' -(' 0 ('/' 3+.,(''(,' 4 +*'' -(' +' 3 *$(' #.+**+ '(' -(' +$.$,! $*9 (/' $*!# $ ' .$2/' FE' 0' (,' 0.+9(/' 5)' (' 0(*-' '(4+.((*,/' (',' -(',$$#6' +' .*(.' 0.+9(' -(' !' .(+ ' -(' +$$$,! (.8' '+.' ('' 3 *$('

Z' 4+.+$,' +' 4.($(.(' $0.+$' *' -(''' ' -(' A+' (0 1 ,$ *' #.+**+$'(/' ' , ' -(' FE' 9.+0 .(''.(4.-'(*,+*,' ('' (0(*((*,'' 4.$*3$4+*2' 5 $' *,' (' $(' (*' .+*3(' -(! 4 $'' +' ,.+*'# . +,$ *' -('' ,+,'! (*(.+ 2' (*' ''( ) ((6+,$ *+ (/' ,(' WI' $*' BHET' < 8(U/' 4 .' (''3 *-$,$ *''-(' +) **($*(*,/' +** *3(' 5 (' * '' +0 *'' #+$,(' -(%' 3(,' != 0.+9(' -+*'' (' *C' BXT?

' ''%

'' ' ' -(' +*,$5 $,(' $,,(.+$.(' $''#' +' 4 .,((' -(', ,%' (' *-('/' *' - ' 6$', .$5 (' (,' $,,(.+$.(' -(''4 (,(''9.(3''(,' +,$*'/' ' 0' -('5 (5 ('' -$.(3,$ *''4 . 3 *- $.(' +' ' (3, .(' ('' (,.+- 3,$ *'' #.+* +$'(''5 (' * (*' +0 *''/' (,' -(' 3 *,(''* ,$3('' -('' 46$ ' 4)(''/+ ,(.'/' '3(*'/' +.36$,(3,('/' ' '3 4,(.'/' 4($*,.('/' 9((,.('/' F-(3$*'/' .+,(.'/#((''3(().('/' (,'+ ,.(''4(.' $ +9('' .(* $(''36(U' ('' +*3 (*''7' 4+.' ' +*,($.(''/' 4. #(''(. 6 * .+$.(' (*') (('! (,,.('/' (,3' ' + '+**(/' 36(U' ' $'' 5 $(*'/').+$.(' (,' +' +.$'/' 36(U' ') ''+*'9(/' $).+$.(/' . (' -('' 8(.' ' BHTB

(,' 0.+9(/!4(+' ' '3(4,$) (' -D *' (2,.+$,/' 4.('($$,(' **' ,+) (+ '#$-((' -(', ,'3('5 (' +*,$5 $,(' (,' -('4 '$ ',.(' %+ ,(.' +' ' $*' -(' (9+8(.' 4+.' ('' 3$,+,$ *'' -('' ($$(' .3(+ 2' -(', '' (''9.+*-''6 ('' - *,' $' 4+. (' (,' 3('' 3$,+,$ *'' (*.' 4.('5 (', ,('' ,.+- $,(''(*'' 0(.''#.+*3+$'

(,,(' 3 (3,$ *' +' (' (.$,(' -'% #' .$' -+*'' $$' (' ' 0 (' 3(' 5 (' *' *(' 4 ..+$,' 3(' 4. 3(' 5 D(*' #($ (,+*,' $!' 9(*(! +(.3(/' +) .3*'/' ,+.5 (/' ,3 /' ,3(A+' -$,' '*#[$#(' 4 .' ('#+$.('+9.((.' -+' 4) $3

V' ' +0(3' 4. (,' -(,' $' *.' (' - ' ' ' .(''$* .(' (,'. (' -3' #+$,' (*,.(3$$,' 8(*' /' 4+.' ' ! ' . 36(/' -(4 ,(' - ' -(4+.,((*,' - *-.(!%' $.('+' ''($*) (3' *+,$ *+ (D ' +.$'/36(U' ' 8(./').+$.(/' 5 +$' -('' 9 ',$*'

V' '' ' (' +' 3 4(,(*3(' -(''A 9('' -3' 4+$2/' 4+.' *' +*!' 3$(*' +0 (#,9' + ' . !-(0+*,' 4+. 3*' -(' +.$' .$2' K

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,47 1.?1.<>' '<' ' 1'J4.11 .1'641' <,6'E1,<7 1.6' ' / 71,?:.6'>.'5" 41=4 .8' .6':'0 7'<76'>.' '' ;' / ?'J<.8' >.?4 6' <<" Q46; 4 '4' 197:8'6.<7'641'5.'?, <7'>.6.' 1.?5 .1'>'<6' <7.<.41'>4'?'V6'?,41'<.'?'6' 71.' .@?,M 6.' '4@' <;416 ,<6'>.6' 41;6% .Q" ?546 .416' J <>1'4@' 47'6.'71,4-.<7'$;',<7'1.;4'.1>1.'>4';,<6. 5'>.' J4.11.' '5.'6.'7.< 1'?1.76' "6.'1.<>1.' '4@'> -.16';,1?6'> '1/ .8' .7'5.'>.?'1'7>4'5 .47.<'<7 J.<.1'5'0'1,<'>.' <6'?,41' 5" #1,'7 .' .67 E @.8'>7 ,<8' "5" E<'>.';.77.' 6./ ' <.' I 5.' J.<.1'5' >555 ;:8'=4 V' ; , / / '<>.' .<'6,<'06.<;.8' 'V'<7'>.Q" E' 7'6,17 1'>.'5.416' =4'17 .16' ?546 .416' 0' ' 7' 55,<J'>.' #1.'7.6'?,41' '55.1,;;4?.1'>.6'?,67.6'.66.<' 5 .56' .7' .,4-1 1'5.'7.11 7, 1.' '471 ;: .<% .' / '1.;:'5' ;4/7.'>.' '55 68'=4';, / / '<>.' "K.5J1'>.8' ">. / '<>.' ' / 55.'0, / / .6'>.'1.<E,178' =4 '6.1,<7'7 1.6'>.' ./5< .7'> '451.6'?5';.6' -, 6<.6% <E<'5.6'>.1< .1.6'5.771.6' >.'K4;:'1.67'<.'?'7 .<7' =4.'>.6' '5'1 / .6' =4.'5.6' '- 6' -1' 6',4'E'4@'>.' '??1,;:.'>.' '1/ ..'>,'J1'<>' - 6 1'V ,;;'6 ,<<' .<7' ';:'=4.' <67'<7% .?4 6'5.'C ' / ' ' ,< V' '-' 7' .<7 .1. / .<7'?.1>4' 7,47' .6?, G>.'?' @8' .7' ,< WV '75.<>' 7' "V -, 1' '11 -.1'5.6' / < 671.6' '471 ;: .:6' ' <6'=4.';.4@'>.6'?4 66'<;.6' / .> '71 ;.6'>.'1.7,41'>4' .,,J1.6% 8' %

' '? ' +' W ' .7' 7' '6.'>.' -, 1'?'1'5.'?.7'> ';' 7 - 7.'=4 ,<' / .77' 7'>'<6'7.6'<.J,; '7 ,<6>7;.,<JE.6' " 67,-.'8' .7' ?'1' 5.6' >. / '<>.6' <'75. >4;6' >.88<= 1.' ;,418' =4 .55.'?.86.1' 7'?'6'E';:..%>.'71,4-.1%4< / ,7 E' > .54>.1'5" ;,<-.<7 ,<'>.' . ;:.1,0';:1.' .E .7Q< 6' 1%1.;.-,<6'.<' ,' / , / .<7' / ?,17'<7. 17,4-.55.G'=4.' . 'E'Q, <'5.7E?59<?,7. 7':E.6' : 71 ;05.: ' ,?0 '1? ??4 ;,<E.1.<;.6' .7'6. ,<71.5 1E. ' K4;:'1.67%Q ;6' / ,Q.<6' >.';,<; 5 '7 ,<' J7' .:75>' 5'<7'?546' / ?,66 05.68' =?.' E.6' / < 67 .6' 77, / ' :' :6 7'EE.1 7 5.@ >47E, 1 , %% 1.46.'.7'5 77.1'5.>.' ";,<-.<7 ,<6 J< . 7K. ;0. / 0';:I' 5'<> 6' =4.' <,6' ?5.< ?,7.<7 ' 1.6 i>) %5.41' # 5' .<7' / ,> E .1'5.' '1 ' ' .<'>. / '<>'<7' .<71.' '4' 71.6' 7" ;.66 ,<' >.' cE .4@ &P16'-'8' .7' 4<' > 671 ;78'>.' 5" #1,'7 .'641' <<'% .6'5.771.6' =4' <,46' ,<7' '??,179' ;.77.' <,4-.5 .' 'Q,47.<7' <.'< / , <6' =4.'5.6' / < 671.6' / > '7.416'6.'E5'77' .<7 .<;,1.'> .<J'J.1'<,6' ?5.<?,U '7.<7 ' 1.6' "1.-.< 1' " 67,-.' .7' "E' 1.'d.<,4.1'5.6' ;,<' $a1.<;.68' Y

@ ' 0 ' ' ' ' '

% % % % % ' 1.6=4.'7,46'5.6' / < 671.6' ;, / 7 '4@'6.<7' ';74.55. / .<7' / 4<' 6'> <6714;5 ,<6'>.'5.416' ;,4168' ;,<' ;.1<'<7'5.6' 'EE' 1.6'>.6'?1 <;.6'.5'.7'76'?,66.6 ,<< 6' .<' H1'<;.% '1/ ;.6' <6714;7 ,<685.6'4<.66,<7' / ,> 1..68' > '471.6'6,<7'6.1 .46.6I' / ' 6'7,47.6'6,<7'1 > J..6'>'<6' 5.' / . / .' .6?1 7% #.'6,<7'>.6'? .11.6'> '77.<7.8' # ;6 '6 1' 5.'5 .4' / . / .' =4 5' E'47' .<7.<>1.'1' 6,<<.1'6';;'64Q.7% " -1' .'=4.67 ,<8'5" -, >' N .6'?1 <; ?.6'>.'5"1 - ,541% 5 ,<'>.'H1'<;.'?.4-.<7 56' `1.'1.;,<<46'?'1' W' A' '>.' 41,?.'Z' " ' > 4 ,?.'E.1' ' 7 .55.5" J4.11.' "5" <'7 ,<'E1'<;' 6.8=4'<.-.47? 46>.' <,05.66.8' .7'=4 ' ">.714 75" E.,>'5 7.Z8%% / ?,17.' ,% ?< ,<'>.' >.;7.41' >.' 'V.<;.8' >.' - ='.' >.' ? 1.' .7'>.'7'<7' > '471.6% ,V.0'6916' .<'H1'<;.' =4 56' <.'> 6.<7=4.' ;.'=4 ,<'5.41'E' 7'> 1.%%8% ,<' .67' ?.1M 64'>.' ;'=4.' 66. / 0 ..'<'7 ,<'5.'>.6' H1'<=' 6' < .67' ;, / ?,6..8' .4' E' 7'>.' =4.' >.' ? ,;41 [68' > '-,;'76' .7' '471.6' J.<6'>.' @5.1 / <.1';.77.' '?'1' 7' 4W.';.4-1.'?,5 7 =4.'> J4.' >.' 5" W,G ' .41,?..<<.%%%%% % , ;' ;.'=4.'Q.';,<<'Q6'> 4<.

>.6' <6714;7 ,<6' >, < .6' '4@' / < 671.6 ' 5" > .% && .;5'1.1' '7'5" H1'<;.'=4.' / ? 1.' < .67'?546'5 "?'1' '4;4<'71' 7.';,<;54' '-.';.77.' ' ' .7' .<' ;,<6 ' =4.<?.'E' 1.' -'5, 1'5.6'?1 7.<7 ,<6'>.'1.7<? 1.' > 55.' ' <'J<.'641'5.6'?'V6'=4 ' ,<7'.7.';.>.6'?'1' 4' "5" H1'<;.I' ?1,0 0.1' / ?,17'77,,'.<' 55. / 'J<.'>.6' / '1;:'<> 6.6' E1'< ' 6.68' .7' 7 1.18' ' ' ! *' 4<' ;,1>?<'>.' 71,4?.6I' 6 =4.671.1' 7,46'5.6' 0 .<6' .7' 1.-.<46' '??'1' 7.<'<76' .<' 55. / 'J<.' ">.6H1'?;' 6I' ' A' ' ' ' ' 4;.4@'=4 ' .<' 55. / 'J<.',6.1,<7' ?1,?'J.1' >,6' ?1 <; ?.6' >. / ,;1'7 =4.6'8' '75.<>4' =4.' ;.6%?1 <; ?.6'6,<7' '?6,54 / .<7' ;,<71' 1.6' "5',,<65 ' 747 ,<'J.1 / '< =4.%%%G % 8 8 G%
. / '1=4.0'=4.'>.'7,<6'5.661- 6'>4,,75 J.' .;7,1'58' ;. 4' >.6' % 5.;7.416' .;;5 6 '67 =4 E1.67 ;,<67' / / .<78' ?,17 ' ?,41'5" J4.11.%#.?.<>'<78';, / / .' 5' ;,<- .<7' > 71.'?1.7' "7,478' / / .' "71' 5.1' "7' / '05.' .7' ";,<' ' 6.1-.1'5"?' @8' 5'V ">.6' - 6'?546'5',>.1 67' 34.5=4.6' 1 ;5' / '<76' ?.<6.<7 =4 5' .67'0,<' .<;,1.'>.' E' 1 ' >.' <,4-.55.6'1.?1.6.<7'7 ,<6'2' ' ' '$ ' / ,7'B ,6' < .67' <455.'?'17I' .7Q ' ' 0 .<'>.'5"?. <.' " ;1, 1.'=4.8'>'<6'4<'.7'7'>.;:,6.6',<'5"6.4E.'<,05.66.' ;, / / '<>.' .<' 41,?.'5.6' 1/ ..6'>.6' ;,41,<<.6'8'5.' ?.,?5.'E1'< ' 6'?'1- .,<.' " E' 1.'1.;,<<' 71.'6"67'4' -.1' <.7.8' 5" 6.45.'5 J7 / .8' '-'<7'> '-, 1'J'J4 ' >.6' 0'7' 55.6' .<'?.16,<<.%%%8' ' ,46' '-.0'6'J. / .<71; / 'E=4 '>.6'5" ;,<-.<7 ,<'>.' . ;0. / 0';:' =4 5' V'6.1' 7' =4.67 ,<' >.6' ' E':.6'>.' H1'<;.% ' '7,47 " E' 7' '>,?7 ' 4<.' > .'=4.'7,<6'5.6' - <. / .<76',<7'>.?4 6';,<E 1 / .% .'J1'<>';,<J1.6'>.' ' 67,-.' \<.)7 ?'1'64 7.8' ?.47 51.8d=4 4<' E.411 8' >4' 1 / , <6'. 5';.=4 ' .7 ' < / ,> 1 71 .>7? ,5,<J I 'E5<

7B:' / .EE1 7.:' '1/7. GGGGDGGG

7 ,<'6,4>' <.' 6.'1.<> 7'E,1:4>'07. ;><71.'5 <.'<'7 ,<' 5 01.' =< ,<' '??.55.1" (

%>.' <7. .7" .67 >.'> 6 <J4. '5.6% Y/ 5.' .E7 a df< .6' >.6Q?67 ,,6' =4 '5.41',0 66.<78' .7'?'17,%47 \>. ' \-415" 8;'67.' <,0 ' 1.'>.'5" / 457 74>.'? 0. .<<W $\.\ .60 5 ' > 1.'>.6'<'7 ,<6' / . / .68' ' $ #.?.<>'<7' ?546 .416'8;,<6 >.1'7 ,<6' / ?,17'<7.6' 6 ,??,6.1 7 " .@ .45 ,<' >4' ?-,Q.7' =4.'Q.' ;1, 6' 1..5' > 4<.';,'5 7 ,<'>.'= .E= .6'?4 66'<;.6' ;,<7 .'5.'?.4G' ? .'E1'< ' 6' .76" <,4-.55.';,<6 7- .<88' % .68?1 <; .6' 6 .<7.<>.,7 56'?'1E' 7. / .<7' .<71.' .4@8Z' .416'8<_ 6' 71.6'<.'6,<7 56'?'6' 46?.;76' 4'6' '4@' V.4@'>.6'7<7' 71.6'Z .7'5.6'?.,?5.6' 1.6?.;7E.'6,<7>56'0 .4' > 6?,6 6' 5' ?'V.1'><6' / ?,76'?,41'0' 1.'4<.'<'7 ,<' =4 ' .67'H'<% 7.41' ' ' ' ' ' ' *' .7'>.' ";:'<6,<8'>.Q" 6' E' / .46.8' '7 / '>

U ! N%

%+ <' ' '<<,<;.'5.'C '>" / , 6'?'66 %=4 4<.' / ' 6,<'>.';, / / .1;.'>.'5";7.' '-' 7'1.=4'5" -. 55.'>.6' 5.77106'>.' 5.1'0,41J8' .<'>'5.'>4'C)' / / '>.1< .18' > " ?1.6'5.6=4.55.6' 5'?'1' 71' 7' ;,<67'<7' =4.'#'7:.1 <.'8'5" ,.1.'#'7:.1 <.8';.>.'74' -,.4'>.6'71, 6';,416' '555 .68' .7' <.' / .7' ?546' > ,06 ';5.' '4' 1 7'05 66. / .<7'> 4:.'?' @' J., 1'5.'.<' 41,?.8' ,<'?.47 71.' '4' ;, / / .<;. / .<7' > 4<.' '45 .' J4.11.8'>,<7' .55.'<.'6.' / .5.1' 7'?'6% #.77.' <,4-.55.'?'66.'?,41' '47:.<7 =4.I'<,46?. / 67, / ?,'1' 7'<7' "5" ;1, 1.'E'466.8'?.164'>.68' '<,46'5.'6, / ' / .68' ' ;, / / .' 5" 6' <.'?,5 7 =4.'-.<7 =4 ,<' 5.'6? '8' =4.' / ?.1'51 ;.>. [66 .8' '=4.5=4.'6';1 E ;.'=4 .5 4' 6.'> 7.1 / <.8' <.' ^.1"?'6' ;.5777> ;0' , [' .5'>.'6,<' 7.11 7, 1.'N .<' .EE.78' ;.77.' ?5';.' 4' .67' 1,?'<.;.66'1" ?,41' !,<6.1-. '4<'? .>'641'5.'7:.'71.'> 4 7.'J4.11.'=YG ?.<7'6.'1'554 / ;1'> 4<' / , / .<7' " '451.8' .775 4<' '4 1.

. , 7 ' 2 \41' . / E7 ; : . 1' 5' ! 1'>>. K1.5'J<.' >.' , E 7. 1'
>4' ; , / / .1; .' =4 .55.' 6.1' 7' 7 / .' .7' =4 .55.' '6'<6'
> , 47.' <7.<7 , <'>.' E' 1.' .=' , 5 , J<.' ?'1'5.' E.?.1' .7' 5.'
.67.1G' # .' ; , / / .1; .8' Q , <7' C' ; .54 ' = .55.' E;1' 7' > 4<.'
'471.' ?'17' >'<6' E.' / E / .' ?'V68' ?'1'5' - , .'>.' '< 0 ; 8'
'4' / ,V.<'>.' 6 ,< '55 '<; .' '- ; ,'5' 1466.85' > 6?.<6.1' 7'
>.'7 1.1'>.'5' K466 .8' ?,41' 6' / '1 <.8' >.6' 0 , 6' >.' ; ,<6M
714 ;7 ,<8' >4' E..8' >' '<-1.' .7' >4' J 4>1,<% ' / , < '
>1.' ; : ,6.' =4.'5' ,17.' , 7 , / '<.' E.1' 7' >'<6' 6' 1. ; ,<M
<' 66'<; .' ?,41' <J5.7.11%.' 6.1' 7' >.' ?.1 / .751.' ' 6.6'
-' 66; '4@' >.' ?'66.1' ?'1' 1; : ?.5' >'<6' 5' / .1' , 1.' 8'
>_ ' 56' 1. / ,<7.1' .<7' ' 6. / .<7' 5.' .?.1' .7' 5.' .67.18'
'% . / 0 , 4 ; : 41.' >.6=4.56' 6.' 71 , 4-.' ;0' , [' 8' >,<7'
<J5.7.11.' .@ J.1' '466 ' ; .17' <. / .<7' 5' 1.67 747 ,<'
'4@' 41; 6' =4.'5' 466 .'5' 1.E46.1'% 4' 1.67.8' A'
=4.' % H' [5 <.1' ' >>' .<-0V.1' ?1,<,< ; .1'
>>5 < 5 - . / .<7' 641' ; .6' ; ,<Q. ;741.6%

% .' 014 7' ; , 1' 7' ' , <>1.68' 5' V' ' =4.5=4; 6' Q , 4168'
=4 5' .5' 7' =4.67 ccc >.' ?1,?,6.1' ' 66. / O5..' <'7 ,<'5.'
4<' ?5'<' > '57 '<; .' >.E.<6 - .' .<71.' 5' H1'<; .' .7' 5' , M
5,J<.' 8' >5.6' >.4@' ?4 66'<; .6' ' ; ; .>'<7.6 6.' J'1'<7 '
1' .<7' 1. ; ?1,=4. / .<7' c. 41' ; ,<67 747 ,<8' .7' 1.?,466.'
1' .<7' >.' ; ,< ; .17' 5.6' '77. <7.6' =4.' 5.6' ?4 66'<; .6' .71'<'
J.1.6' ?,41E' .<7' ,45, 1' V' ?,17.1' # .67' 4<.' 7.55.'
. : / .1.' 8' 5.'1 -.'> 4<' : , / / .'>.' 0 .<8' 4<' / 'J< E =4.'
?1,Q.5' / ?1'7 ; 'O5.8' -4' 5' > 67'<; .' .7' 5' > EE ;455.' >.6'
; , / / 4< ; '7 ,<68' .7' =' ' <.' >.V7 .<>1' 7' 4<' ?.4' ?546'
?,66 05.' =4 '47'<7' =4.' 4J5.7.11.' .<71.1' 7' >'<6'
; .77.' '55 '<; .' N' ; .' 6.1' 7' 5' 5 J4.' >.' 5' 5 0.77O' ; .<71.' 5.'
>.6?,7 6 / .%

.6' : '0 7'<76' >.' .16.V' ,<7' E,1; .' 5.60 / J1'< 6' E1'<'
' 6' ' 0 / J1.1' >.' 5.41' 5 .8' =4.' ; .857.' '1 / 0.' >.' 6'45.'
@.55.6' < '41' 7' ?'6' 5'1>.' > '5E' / .1%

.6' -.<76' >4' <,1> .678' =4.' ,<' '1.66.<7 6' 6' 5,<J'
7. / ?68' ,<7' .<>, / / 'J.' 5.6' E14 768' .7' 6417,4Q7' .6 ?, / '
$ / .6' .7' ?, 1.6' ' ; 5>1.% " '1 J4.41' >.' 5' 6' 6,< ' .J'5? c'
5 / 7' <4 ' '4@' OGN' 6. / .6' 4<' 8' ?.48' I' . , E =8' ?_\41'
6 Q #1;77 . / ,5: .418' .6?'741'J.6' ,<76?4E5 78' ; T5 S'
_Q <68 4 , ==.' >.' 5=' '??'E .<,cZi?S??5' E'

175E a7.G E:')' Q Q' 17 E E1 ')A ( )' R ' ^
74 EO' , -' 1'

' F &%Q V' '4($*(' +' * 0(# (' - (' (0+!
a'$ $$' - - #)$D#,$,J((' (" " ('3/'5 *(' 9.+*-(' 4+.,$('
,+, 0(*$' (' .(*-$#(*'+..+-' ' +' +$' *'3 .+ @('
J ,' b*$3$4+ ,(% 4.$,' , '% (' 8(* (' 4 ' 4. 4.('
% `%,*+$ %(D$*D% +' ,.+*5,$$ $,-' 4) $5 (' (').+0(' ' !'
-+,$ # '#4%9$ (*,' F(' +' +..(' (* 8-.(*' *(' * !'
). %(,,'(4--4 ,+$ *% ' +' ' ($(,--(' $' -(' +' *',$1
, , $ *' / 4 .'+' ' .(' (' 3$, 8(*' 5 $ ' (,+$3 ,'4.-,'
M' (.'(.' (.''+*9' 4 .'5' $)(.,('

<'5 7>'<6' 4<.' .' <, 6' E.4 55.6' 5.' / ,1; .'4' 64 - '<7N
% &' .6' O'0Q7'<76' > . d' E' 7; .<<.' J.<.1'5 7.' >.' 5' , ; ; .55.'
?'V' .<78' 6,46 '<; .< 1.J / . '? ' ?1:6' (8 (8 *' -% .<
7' 55.8' - <J7' / .68' ; '? 7'7 ,<8' ?1.67'7 ,<'>.6' ; 0. / <68' '>.68'
7'0' ; 8' > / .8' , ; 71, 6' >.6' - 57.68' E '<; 6' E .E68' E1' 6' > ' / .<>.8'
' ; ; , / / ,>.<7.<7' ?,41' ; ,<71'-.<7 ,<8' .7; 8' '1. ; .77.' >.6' ' M
>.6' >.' #,J<' .' .7' ; .55.' >?' 7'0' .' ?,41' 5' / . / .' . . ; 7 ,4' < .'
7' .<7' ?'6' ; , / ?1 6.6' >'<6' ; .77.' 6, / < .%'

.' A *' 4 . ,+*,'#,' F0I/I ' $0' (' #.+$' -(' * , .(', b $*$',.+,$ *'
0((/' * +' ('4+$(. *' ' +0(*$.'5 ('F/HFE/XI I' $0
Q(' *' * (' #+$,' 4+' (*, .(.' -+*' '3(,#(' ' (' (' - . $,' - ('4+!'
, (*, (' (*,!$' - , .(' 4+.('+*' '(+ '$*' ,+*,'+', ,'3('5 ('3 -!'
,+$(*,' (' - - ($ ('/' ('3(*,$($ (' -(*$(./' (' #.+$' -('A ',$3('/' ('
(+*3$4+,$ *'/' (' '3(-'/' (' 3 .0((' # - + ('/' (')+$,+ $!'
, -'/' (' - . $,' -(' ()+' '(/' (,3/'/' (3/'c
.' . 8(U/' +4. '3(+/' 3(2' 5$,$' -$'3$ ' 5 $*' 4+$(.+' 4 '
' ' ('.(9$ (' - ('5' $)(., -'5 (' ' * '3(' - ' 4 ,$0 $.' +.)$!'
, .+$.(' :

' ' + %,) -) . , ' /

E;R4<8' 'Q 7 77% + '66;< O5; .> 1. ; 7,1 '5.'>4' > 671 ; 7'
>.' ; 54 8' %' ?1.6' ' - , 1' . 7; <>4' 5' 5. ; 741.' =<' <' ' .7;

E' 7.' ?'1' ; '?10 ; 41; 41 6V' <> .'>.' 'E105.'>4' >0?'17. / .<5'
>4' [illegible] >. ; .' / , 68' 1.5'7 E' '4@' 7: ,V.<6' 5.6' ?546' ?1,?1.6' '
' ; ; .5O1E.1' 5.' 1. ; ,4-1. / .<7' >.6' ; ,<71 047 ,<6' ? 05 '
=7 .68' .7' ' 1>7'O5 1' 5' ' ?' @ ; 5' 5' 71'<=4 55 7V' >'<6' 7'5 '
?'1' 4 .' '-'<; .' - ,5,<7' 1; ' 641' 5.6' ; ,<71 047 ,<6' <,<'
.< ; ,1.'1>?'17 .68' '< / ..'>.6' / > / .6' 6.<7 / .<76' >.0.5.'
.7' >.' ?'71 ,7 6 / .' =4 ' ,<7' > .' '66. / O5..'> 1. ; 7,1 '5.'
>4' >.?'17. / .<78' ' '>: .1.' ' 4<'< / 7.' ' 5' >.5 0.1'7'
7 ,<' ; ,<7.<4.>'<6' 5.> 7' '1157.8' .7' 5' 6V'<; .' 5.-..8' 7,46'
5.6' / . / O1.6' ; , / ?,6'<7' 5.' > 1. ; 7, 1.' >4' > 671 ; 7' 6.'
6,<7' 71'<6?,17. 6' .<7 O' % '5.66.8' 1. ; .-.418' ?,41' V' .E '
E. ; 7 .1' 5.' ?' . / .<7' >.' / , 7 .' >.' 5' 6, / / .' ' 5' =4.55.'
56' ,<7' > >' <= / 6.6' .<' (* 8' .7' ,<7' '11.7.' =4.% ; .77.' >.M
5 0.1'7 ,<' .7' ; .55.' >4' > 1. ; 7, 1.' >4' >>?'17. / .<7' 6.0'
1' .<7' <,7 E >.6' ' 7, 7.6' 5.6' / 4< ; ?'5 7>6' >4' > 671 ; 78'
.<' <- 7'<7' 7,46' 5.6' -1' 6' ' / 6' >.' 5' ?'71 .' ' E' 1.' .<'
6' ' E' - . 1' ; .' >J.1' 6' ; 1 5 . . %

.' ?1 @' >.6' >, / ' <.6' <'7 ,<'4@' -.<>46' >'<6' 5.'> 6M
71 ; 7' 4.' .54<8' 8 <6&Q4 N / ' ' / '16' > ; 1< . 8' ' .7>' ?546'
>55' >,4O5.' >.' ; . <'>.'5 67 / '7 ,<% . C' >.' ; .' / , 6'
5.' ?1 @' >.6' - . 7.6' ' '71, 6' E, 6' ?546' ; ,<6 >.1'O5.' =4.'
; .54 '>.6' >-'54'7 ,<6% %

'<6' 5.' > 671 ; 7' >.' .'4@8' > . ?4 65.55' >. ; .< 01.'
(* 'Q4%6= '4' C(' < ' ' (* 8' 5.< ,<7' 7' >.6' '>Q4> ; 'M
7 ,<6' ' .7>' >.' 8 (8((' 5 -1.%68' ; .54 '>.6' .67 / '7 ,<6'
'-' 5' .7; '>.')8U* 8 U' 5 -1.6I' .@; >>'<7; 67' ?'1' ; ,<6.M
=4.<7' >.' 9899 8U ' 5 -1.6%

' ' "/' / G //

' +' '<6' ; ?75.' E,45.' >.' ; >.-' 7' <,O5.6' O1.'
7,<6' 1.E<J ; 6' ' @8' 5 .6' >.' .16.V' .7' >.' ! 4.1<.6.V8' 5'
; 67' 0.'4; ,4?' >.' ?1,?1 >7' 1.6' >.' ' ' ' / 55.' 5 -1.6'
>.'1.<7.8' >,<7' 5.6' 'J.<76' ,<7' >7>' '<6' ; .66.' , ; ; 4?>6'
Q46= .'>'<6' ; ; 6' >.1< .16' 7. / ?6' ' <>J , ; .18' ' .7' '
?,41' ; .<7' >.' ?.17.' #.<71.' >.6' > ; 468' 7,46' 5.6' '66 J<% 56'
J4 56' Q ; ; .V' .<7' ?,41' ; 4@%

d% 77 5 A YB ! %I1' E 8 %%%%%%%%%%%%%%%%%%%%

0 Q a E' (* % ' '55 8d> < 5. 7\ Z9J 17c%\ .'
> : ; Q.7>'<6' O5467. .' '451.6' Q,41<'4@85.?1, .E. '
- .10'E >.' E' > / 0>1'5 ,< ?1 6.' ' .7O8dE.' C ' ># 7.'
' / , 6 , 4 , 5B > .16 .7' >1'J,<6' >4' 7.J / E.?7'
d> 1E> 68' >7Q E' O'1. '1=4.'5.6' .@?1.66 ,<6' 64 -'<7.6I'
' % 'E' 55.' >.' '<>.5.78' ; ,< < '<>' 7' 5.> 7V.J '
1, .<78' ' .7.' 7'@>' U '- , E' > 7' ?4O5 =4. / .1 7' =4 5G '4 '
1' 7' E' ; 5 7>' >-'6 ,< >4' 1, 8' .7' =4.' ?'1 5' ' 5' 6.' 6.1' 7'
E' 7' ' " ' 0 ' ' ' .7.' ?1,4-.' =4.' ; .' ?1,?,6' ' -' 5'
.7.' 7.< 8' < '?'1' % K'7' 55.8' ' F
>.<7 7>' >.' <, ' .65' 6' ?.< O5.8' .< ?'1; B' ; '68' =5 .'
,< / .' ?'1>,<<.1' > ,O6.1-.1' = ' <67'<7' ,< 5.'
?1,?,6' ' .5>' 7.<4' ' .7O8' Q; '?1>7' 6' ' '1 6' 5.'<,4-.'4'
6.1 / .<7' < 57' 1; 8' ' 5' 71 O4<.' >.' 1 66. / O5..' <'5E, '
5 '5.I' =< .Q.' < ' 'Q' / ' 6' ; 4' 5' < , <>1.'1.5'7 ,< '- . ; '5.'
1.J / .<7' > 17, 68' .7' = ' ; 4 ' >.' / .6' ?'1.<76' : '
6.1- ' < '<.' 6.17' >'<6' ; .' 1.J / .<7%

) 0 ' ! ,418'
' ' ' '
,

' 5 %

'( ) -(' *+,$ *+ (' -(0.+$,' -(,(. $*(.',#*'$* -(' (.,+$*'
4 * .' +' 3$.3' +,$ *' $*, .$(,$.(' -(' +''$9*+,' ' Bd '*#$$.+$,' 5*('
-+*' 36+5 (') $!(+ ' -('4 ',(' *'4.$,'3 *$$)$''+*3(' -(' +' 5*+*!'
$, ' -(' (*0 $' - +''$9*+,' ' (,(' 4 .+ $ *' '(' #(.+$,' +,$''$' 8$,('
5 (' (' ()+.9((*,'). -$*+ .(' ' +- $$$,' ,.+,$ *' (*' . 4 *!'
- .+$,' 8(**+*,'4*' -) (' +' +*' , .$4 ('4 . ,' (' #' (' '(+'
8(*' -(' ,.+*5 $ $'(. (' $*(.3(' .' (' (*0 $'/' (,' (.,('
, .+*5 $ $,(' (' ,' 4 ' $*#$ ((*,' $ (' +*' 3.(-$,' -(' +''$9*+,'
5* *' *(' $>$$%+$,' ('3. $.('

8' 8' ! 64 7 %
% 66. <O 7 #' <'7 ,<'5.' ' ; : '1J.' 6,< ; ,< 7; '>.' ; ,<6

7 747 ,<.5>.'Q41 6?14>.<;.';1 / <.55.'>.' 54 '?1.6.<M 7.1'>'<6 5.' ;,>.' ?><'5 4< ?1,Q.7 >.' 5, ' ;,<71.'>.6 >4.56

' ' .<7.<>1.'5.6 J.E6 >4' / ,<>.8 5'< V' " ?'6>.'5, ' " E' 1.'641';.5',0Q.78 =4 ' .67 .<7 01. / .<7>'<6'5.'>, / ' <.' >.'1,? < ,<%

N .5,< =4.5= .6 ?405 ; 67.68 5 E4<7 ?.1E.;7 ,<<.1'5" 5, ' ;,<51.'5" ;'5, /< .' .7 5.6 <Q41.6 ? ,41'E' 1.' ;.66.1' 5.6 >4.56%

8 .6 ?: 5,6,?:.6.75.6 / ,1'5 67.6'70 ; :.<7 5.41';.6M 6'7 ,<'4@ ?1, J1 ;7'' <E54.<;.'>.' >>4;'7 ,<8 ?4 ' 05 =4.' .7<'7 ,<'5.%

Q 55 / 5 .4 >.';.6 ' - 6 > 5E.1.<768 5.' 5.J 65'7;41'6'J.' ,06.1-.'=4.' ,? < ,< ?405 =4.' 6 .67 >.Q" / '< E.67..' >017. / .<7 ;,<71.';.7 46'J.'0'10'1.I .7 =4.6 5 .67 >.6 / , / .<76 , 5 1,? < ,< ?405 =4.' <E54.<;.' .7 ;,<>4 7 5.' . J 65'7.418 ' .67 '466'>.6 . 1;,<67'<;.6 ,0 5.'5.' J 65'7.41' ';;>5.1.' .7 '6641.';.77.' / / ' ,? < ,< ?4%\' ?5 =4.%

.67>,<.''4@ J 65'7.416 =4 ' ,47>,<<>''5"H1'<;.' 4<.';,<67 747 / ' E,<>. .'641'7.6 0'6.6 .7.1<.55.6 >.'5" Q467 ;.' .7>.'5"1' 6,<8.7641'5.6 >1, 76>.'1:4 / '< 7.8 "Q.7.1 4<;,4?>,;5 1'?>.' 641' ;.'=4 56 ,<7 E' 7 .7 641';. =4 56 ?.4-.<7 .7>, -.<7 E' 1.%

" ; 0 ' 36+*9(.' , ,(" (" $*',$, ,$ *" -% *' /9.+*-' 4(4 (/ (;3(" $*',$, ,$ *" *'(,-' 36+*9(('

556 ,47>.5.J4.'5,46 5.6 ?,4-, 168 .7 7,46 5.6 ?,4' -, 16 6 ,1J'< 6.<7 .7 'J 66.<7%

556 ,<7 '77'=4>5.'?1.Q4J.'>.6 ?. <.6 <E' / '<7.68 .7 ;.' ?1.Q4J.' ">6?'14%

" *,'4. '3.$,' (.(9$ (O -+/(, +',(..((';'+ ''$ $).(5 ((").+" 5 $ +'3 ,$0(*,

'1';.'=4 56 ,47 E' 58 ,< - , 7 ;.' =4 56 ?.4-.<7 % E' 1.I .7 5" 5, ' ;,<71.' 5.6 >4.56 .67 >>Q ' ;, / / .<;..' '466 747=4.' .6 <,4-.'4@ >J 65'7.4<6 Q.75.<7 '47,41' %> .4@ >.6 1.J'1>6 ,06.1-'7.416 641' 5.6 ;'46.6 >.' ;.' >.5 5%

556 -, .<7 4< 46'J.'E ,>'5 641- -1.' '5">.6714;7 ,< >.'5"E.,>'5 7.%

556 -, 1<7 4< 46'J.' ; 1;,<6;1 7 >'<6 4<.' ;5'66.' > :, / / .68 .7 E,1 / .1'4<.';'67.'?,17 ;45 .1.' ' '6. <'>.' % >J'5 5.';,467 747 ,<<.55.8% " ;14'47.'?,5 .'>.6 >4.56 ;,<6.1-.1" >,<.';.'=4.'7'<7>.'>>;1.76 6, .<<. 6 ,<7 '0,5 I .7 5" <,05.66.' .@ 65.1" %.<;,1.' ?' 4 '<,46 ?'1' 46'J.'>.6 J5'> '7.4168 =4'<> .55.' .67 ?1,6;1 7.'?'1' .6 54 6 >.'5"1' %i %' 8

556 -, .<7 5.'1,V<4 / .';,<-.17 > '1 / >.6<'7 ,<'Q;68 % .7>.; 7,V.<6 '1 / 6 ?,41'5">.E.<6.'>.'5"5, '6 .<71>' J,1J;Q <7 ?,41' 4< / '5.<7.<>4 ,4 ?,41' 4<.' .@?1.6 ' 6 ,<>,47.46.I ' <6'5" ,7'5 ,<%>.'7,47.6 5.6 , 6 .67 4< / '5 =4 '6.'?1,?'J.1"?'1'5.6 .EE,176 =4.'5.6 . 7,V.<6 E,<7 ?,41'5.6 E' 1.'1.6?.;7.1%

,47 1.;5' / .'?<.'.@?1.66 ,<>.5" - ,5,<7.'J><.1'5.' 641' 44 >.6 ,0Q.76 =4 ' '77'=4.<7 5" 6,; .7.' >'<6 6.6 E,<>. / .<768 .7 5.6 5, 6 >'<6;.'=4 .55.6 ,<7>.' ?546 1.6?.;7'05.%#.?.<>4<7 5 <.'E'47 ?'6 .@?,6.1'5"5, ' '4 / >?1 6 ?'1'5">>64.74>.8 " '- 5 66. / .<7 ?'1' <.@. ' ;47 ,<% 'E'47 .< ?1.6.<7.1'4<.'=4 ' >>1 -.' <'741.55; ' / .<7 >.6 <67 747 ,<6 6,; ' .6% #. 5. " ">.6 >1, 76 " '??1,0'7 ,< ?405 =4.% , ; 8 / .6 >. .6N

6 ((*'(*,.+*,' -+*" +' 3$(,($+' .($" (' ' $*' -('+' -(%#(*'(7$'+' -(4 '('+ 0(*9(+*3(+ 2 4$(-" -(+' $7 $' + .(* *3(+'(#+$.(',$3($! , (7$' + +)-$5 - (,.$) *+' 0$ (*,' -(+'# .3($*-$0$- 3 (' "# .3(3 *(/ + $/ + , .$,(4) $5 (/0 $+' '("-(#(*'(.'' .'3$, 8(*' *(3 **+,'5 (+ 5, 8 * $*! 5 (5 ('(" $*$',.('/ *(' $;5 ('(" .+3 (' .' - ($',(+ ' 3 * .+$.(.(,$.('+ 0(*9(+*3(-(" +$*" -(+' $)$7$'0$ (3 4+3,(3$+ 7 $$ '(#+$,' ',$3($! (7 $' .(* *3(+ +' 3$-,37 $$ (*' -(0$(*,' (*! K *($ (4 "3. (

34.'>, 7 E' 1.'5"6,; 07.' ?,41'4<'7.c <> - >4Z >.M ;5'1.1'6.45; / .<7 ';5 ,< =4 5 "E' 7.8 .7 .< 7 1.1'5" ;,<6; E4.:;;% 34.55.' .67 .55;Z "6,; ;5>'<.'>, 7 1 .<

';.5<'=4 '< .<.67 ?546 / . / 01.' ,4 =<E 1.7 1.';.'=< 5 '-' 5'??,17.'>'<6 .7'7 6,; '5% "5, '<.': '>, 7 ?546 6" ?1,7.;7 ,<% " 6,; >7.' <.' >, 7 ?546 .><6.1-.1'6.6 >1, 76% .'>4.5 .67 4EE.'>>.5'1'7 ,<>.'J 7.11.' "5" 6, ' ; 7.I ;.55. ;' >, 78 5.' 71' 5.1' .< .<<. / ' ?405 ;% .' >4.55 67.' '66'66 <.'6.6 ;,<; 7,V.<68 '4 5 .4 >.'5. 'E' 1.' ?4< 1% # .67 4<.'0>7.'E>1,;.'=4 5 E'47 5 -1.1' "5">6' ;1>5 ,4 >.6 :, / / .6 =4 ' -; 55.<7 " 5.41'6771.7.%

34.'5.'>4.55 67.;6, 5>,<.'6'<6 ?1,7.;7 ,<>.'5"?'17 >.' 5, I =4 5 <.Q,4766.' ?546 > '<;4< ?1 - 5.J.'>.' >7'7 6,; '5% 3 .';.77..@:.1.>'7 ,<; - 5.'.7 ?,5 7 =4.; Q.'5 -1.' '5" / .1;' >.'7,46 ;.4@ =4 ' E1'??.<7 4< .7 :. / ' ?405 ;% 34.'5"5, '5.'>.;5'1.' . R, 8 . .6E1> > 1.' >.;:4 >.'5"?1,7.;7 ,< >.'5"5, ' .7>.'7,46 f.6 >1, 76 >.'; 7.8 8 8 8

.67 '4% / , / .<7 , 5 5" 5, ' - "1>J<.1'64 G 7,776 5.6 <> - >468 .7 / > / .' 641'5.'71 <.I . .67 '4 / , / .<7 , 5 4<;, / / .<;.' " ' - , 1'><# ?'71 .' .7 "6.<7 1'5" 5 J4 7.' >.6 >1, 76 >.' :, / / .' .7 >4 ; 7,V.<8 =4 4<;'?'1. 55.' > 6?,6 7 ,< >4 >J 65'7.41' ?.<7 ?1,>4 1.' >.6 .EE.76 :.41.4@%

"

' (' ,+!))( )('

8 F ' '(',

' ' E7 ' 5W1' B " %

8 <'>.' % 7.6 6.;1.7'1.6 E' 7 7.;5'1.'> 4 '.' 5.7E1.' >.6 ;, / / 66' 1.6 .<-,V.6 >'<6 5.6 >>?'17. / .<76 >.'5" .46.8 >.'5" ,6.55.' .7>.6 1>.<<.6 N%.< - , ;'5"6406M 7'<;.' N W ,71.' / '1;0.''V'<7 7.'1'5.<5 .'?'1'5.6 >'<M J.16 '4@=4.56 5.6 . 7,V.<6 ,<7 ;14 .51.'.@?,6.68 <,46 5 .'6, / 1, .6 '11 - .6 7 .1>4< =4.'5.'C ' '< 6, 1% , 6 <,46 6, / / .6 71'<6?,17.6 641 5. ;:' / ?' "5" / ' 6,< ;, / / 4<.8 5" J'1< 6,< ?1 7 5.6 '1 / .6 5.' 5.<>. / ' < / '7 <I%5" J'1 / '<'7 ,<'5.'6.'1'<J. " .< 0'7' 55.% " 5.;741.'>4 6.1 / .<7 ?1.6;1 7 ?'1'5.6>>;1.56 'V'<7 >7> E' 7.8 'E4E?1 7>''-.;' .<7:,46 67<.'?'1 "J'1U.' / ' 5, '5.' .75.6 71,4?.6 >. J<.% .6 E5 ; .16 ; - 566.' ,47 ;,<E,1 / .6 '-.;'5.' / > / .' . / ?1;66. / .47) A ;1.56% ?106 5" ;.1 7<,< ' >.'5"? .67'7 ,< >4 6.1 / .<7 " .1>4<8 <,46 <,46 . / / .6 1.<>46 " .70 ,4 'V'<7 <E41 / . .'> 1.;7, 1.'>4 >>?'17. / .<7 >.' 5" .46.'>.6 1'.641.6 =4.'<,46 <,46 ?1,?,6,<6>.'?E1,>1.Q#.54 ;' 6 .67 . / .66.>.'6 V ., 'E,11,.7% ,46 < ' - ,<671<4-.' >'<6 ;.6 >.?'17. / .<76 '4;4< ,E5 ; .1'%J>4>1'5 '6.:' ?,67.% ,46 ' - ,<6;14 >.-, 1' ?1,<, <;.1' ?1, - 6, 1.' / .<7 5"646?.<6 ,<>.' ' '-'1.=<.%8'., / / '<> / 0 ' .708 ?'1;.'=4 '<,46"?'14 <.'?'6' - , 1'5';,<5 '1 ;.' >.6 6,5>'76I <,46 ' - ,<6 >0E5 1> .' ;, / 7:'<>. / .4?" % #140.5 =4.'<,46 ;1,V,<6 > J<.'>.'5"?546 J1'<>.' ;,<E '<..%

V'<7 / '<>>'5.6 6,46 ,E ! ; .168 76 <,46 ,47 ;, / M / 4< =4.'5.416 J1 .E6I <,46 '-,<6 1.;,<<4 =< B6 ' 1' / ' .<7 5" #,<67 747 ,< ;7 = 7 56 .7' .<7 ?1J76 " / , 1 1' ?,41'.55.% # .67 '4 #:' / ? . '16 =4 '4 / 5 .4 > 4< ;,<;,416 / / .<6.'>.' . 7,V.<6 5.' 6.1 / .<7 "#7.'? U7> '-.;'5.' ?546 J1'<>'??'1. 5% Y

% 5.6 ;, / / 66' 1.6 1.<>.<E ;,7<?7.' .<64 7.'>.' ;7'7 ';74.5 >.6 ?5';.6 E1,<7 .1.68 >.'5"<0..66 >'> .< 1.< ,1;.E =4.5=4.6 4<.6%

'1 'N .'>. / '<>.'5.'1.<- , '>.' ..E7.' 71.' '4;, / 7.' / 5 7' 1.8 =4 '6.';,<;.17.1" '-.;'5.' / < 671.' >.'7"J4.11.' ?,41'1.@>;47 ,<'>.6 / .641.6 Q 1 6.6 ?'1' 5.6 ;, / / 66' 1.6% % %

.'1.J'1>.';, / / .'4< ->1 7'05.'>>5 7 <'7 ,<'5 =4 ,< ' 55' %W6>4<?,67.''466 ' <7>1.66'<7 =4. : ,<- 75.''-.;' ' :, / / .68 ;.' =4 ' 6'<6 @><?5.' >.?< 6 5" ' , ' <'1;: .%

'N '>7' 7 / ?,17'<7 > '- , 1'>.6 ,E3. .16 J> >1'4@ ; 4< ?'71 ,7 6 / .' >?1,4-.8 .7 >.';,<<'571.' ?'1E' 7. / .<7 >7'7 >.6 J'1? 6,<6 .75.6 6.<7 / .<76 >.6

.:W5*% `>. / '<>.'=<.'>7.'>. / ' <5.'1'??,17>4W, / ^f7.'
>.6 ;, / / 66' 1.6 6, 5 E' 7 ?'1'5.';, / 7V / 5 5' 1.%
#.77.'?1,?,6 7 ,< .67 >. ;1.7..%
546 .416 / . ? 1.6 . .-.<7>.6>,47.6641' '47:.< '
7 ; 7>'>.'5" 5.571.'>. % K, [E %
' % 7 ' 'N >7'<7 E' 7 E.?1>6.<7.1' .<-. '
5,??.'>55 ?'=4.7E Q .<' ';, / ?'17'5" 646;1 ?7 ,< '-.;'
.;1 741.'>.'5" 5.771.' .;1 7.8 '4 ? E, >.<78 .7 Q ''5'5"
E, 6 1.;,<<4' 5.' 7 / 01.'>.' 4@. / 0,41J .7 5" / > / .'
.;1 741.%
< >.' % 5.6 6.;1>7' 1.6 E' 5 5.;741.'> 4E7.''>1.66.'
.6 ,EE ;.16 / 4< ; ?'4@ > `5" - 55.>.' . / 6 =4 ' .@ '
?1 < .<7 5.6 6.<7 / .<76 >4 ?546 .<7 .1' >.-,E51<.<7 "
.@. ;47 ,< >.6 5, 6 >. ;1.7..6 ?'1' 66. / 05..' '7 ,M
<'5.%
% H1>7.'4' 1.<>';, / ?7.8 ' '1 , / '>4';, / 7>'> ?5,M
/ '7 =4.'8 >.' '11.67'7 ,< >.'?546 .416 .EE.766' 6 6 ?'1'
5" / 4< ; ?'5 7V >.' ,V..< ;'1> .I ?'17 .'>.';.6 .E '
E.76 .7' 7 >;67 <>.6 ?,41' K14@.55.68 > '471.6 ?,41'
L'5.<. .<<.6 I 5.6 4<6 #7' .<7 ';;,/? J<#6 >.'5.771.6
>.'-, 741.8 > '471.6 < .<'-' .<7 &5'6% '1 / ';.6 .5E.768
;,<6 67'<76.<'?546 .416 0'55,768 6 .67 7V,4-..'4<.';'6M
6.77.'J'1< .'>.'5' / .6 >.' ;4 -1.' <,5 8 " '>1;66.'>.'
'1 . #:1 67 <.8 '1;: >4;:.66.' > 471 ;:.8 J, -.1'
<'<7.'>.6 'V6 K'6% .6 6;.55.6 ,47 .7.''??,6.6 641';.6
.EE.76% d
66. / 0 V.' >>;7>.' =4.'5.6 0'55,76 .7 ;'66.77.6 6. '
1,<7 ,4-;1768 .7=4.' <-.<7' 1.'>.6 .EE.76 6.1" .<-,V.'
' 66.1'05. .'<'7 ,<'5.%
% H1>7.'4' E' 7 5.;741.' > 4<.' 5.771.'>.'K14@.55.68
>'7..'>4' C 'Q4 <8 =4 ''<<,<;.'=4.' ,<6 .4E8 E1#1.'>4'
1, 8 '?1.6 '-, 1'?)66.'?'1'K14@.55.6 8 .7 >.'5"?'1' 'M
/ 418 ?,41' 6.'Q ??1,;:.1' >.6 E1,<7 #1.68 " 1.?1 6 5"
1,47.'>.'K'4@.55.6%
% Z ?1.6 >.<7 '<17,<;.' =4G 5 1.;, 5 4<.' 6.;,<>;'
?V7 7 ,EQ >.6 , -1 .16 >.6 '7.5 .16 >.' '1 68 5 ;.4; >6
?'1 5.' ;5>;1.7 >4' 'Q4 <_
7E Gd ' ' .'E,1 / .' 4< 1'66. / 05. / .<7 >.' ;.6 ,4 '
-1 .16 641' 5" ?5';.' . > / #% .'>. / '<>.' =4.'5.'> '
1.;7, 1.'>4'>.?'17. / .476, 7'-.1 '>.'-. 55.1" ,1>1.'
?405 ;8 .5=4.'1 66. / 0E,.'?' 6.' ' ,1>1.'>4Q,41%
#.77.'?1,?,6 7 ,< 7 >..1>7. .%
41' >6 1'??,176 >.' % #' / 468 E.6 >. .1.76 64 -'<76
6.<7 1.<>46N %
G" 66. / 05.'<67 ,<'5#-',4d'5.'1'??,17 >4';, / 7V
> '5 .<'7 ,B8 >V;1>E,'=4.'5" ?1.6;1 ?7 ,<';.<71.'5"<' '
7 ,7 ?,41' 1' 6,< >.6 >1, 76 ;,1?,1.56 ,4' <;,1?,1.56
>.?.<>'<76 >. ' 0 #<6 <'71,<<4@ .67 .7 >. / .41.'646 '
?.<>4.'>.?4 6 5.'C <,-. / 01.' ()*'Q46=4 '4'C <,-.< '
01.' (*U8 6'<6 =4 .55.'?4 66.' .71.'55.J4>.' ?,41'4 '
;4<.'?'17 .'>4'7. / ?6 =4 ' 6.' 6.1" >;,45>'?.<>'<7 5.'
; 4 6 &5.6>7.6 ; <='<<..68Y
%% Y 66. / 05;.'<'7 ,<'5.' 'V'<7 .<7.<>4' 5.' # / ?7.'
=4 '54 '" .7.' 1.<>4' '47,1 6.' 6,< ;, / 7.' ;.<71'5 >.'
5 =4 >'7 ,< "5 =4 >.1' 5.6 / > / , 1.6 >.6 E,41< 66.416
.7 .<71.?1.E5.41688 641' 5.' ? .> >.6 1>J5. / .<76 =4 ' .<
,<7 #7.'E' 568 68 4E ';7 ,<;.<71.'5.6 ,1>,<<'7.416%Y
% 'S '?1.6 5.6 0'6.6 =4.'-,46 '-.0
>V;1.7..6 ;.6 Q,416 >.1< .168 1.5'7 -. <.<7 '4@ ;1 / .6
.7 '4@ >.5B6 ;,<71.' 5.6 ?.16,<4.68 5 V " =7 .5=4.6
;:'4J. / .<76 "E' 1.' " ;.'5 71.% ,71.';, / 7V >.'5.J 6M
5'7 ,< ;1 / <.55.'< 'V'<7 ? '6 '66. <05.18 <,46 '5 .<6
?'66.1' '4' 5 71.' ;,<;.1<'<7 5.6 >V 76 ;,<71.'5.6 ? , '
?1 .7V6% , 1.8 ;, / 7.' -,46 ?1,?,6.'>.'1'<J.1'5.6 -,56
6 / ?5.68 5.6 5,47.1 .68 >'<6 5" ;5'66.'>.6 >V 76 '? '
?'17.<'<76 '5"?,5 ;.';,11.;7 ,<<; 5.% #.'<.'6.1">,<.'
=4.'>.6 -,56 ;'1';7.1 6.6 >,<7 <,46 <,46 ,;;4?.1,<6
.< ;.' / , / .<7% .6 -,56 E' 56 ?'1' '046 >.';,<E '<;.'
<,46 ,<7 ?'14' >.-, 1' 71.' ;5'66V6 '-.;' ;.<@ E' 56
'-.;'.E51'; ,<I <, 6 <-,<6 .<;,1.' / \6 641' 5.' / > / .'
1'<J' ;.4@ E' 56 '-.;';, / ?5 ; 7V8 4< >.6 J1'<>6 ,0Q.76
>.'5" 5, '>.-'<7 > 1.'>.'> - 6.1' 5.6 / V;:'<76%
.?.55.7 .1'E' 7 5.;741.' >4' 5 71.'1.5'7 E '4@ >.5 76
;,<71.'5.6 ?1,?1 .7V68 .6 '178 6< -' 76 6,<7 * *

0 (' ' ' ' ' %%
G ' ' ' ' '
17% D1% ,47 -,5 6 / ?5.8 . .67 ' > 1.'7,47 V,5 =4'
< .67 ?'6 '.;, .?'J<V >.' = .5=4.6 4<.6 >.6 ; 1;,<6 '
7'<;.6 =4 '-,<7 >71.'6Q .; 5 ..6 ; '?1.68 6.1"?,4164 -5
.7 ?4<'?'1'-, '>.'?,5 ;.';,1 .;7 ,<<.55.%
% .'-,5 ;'1';7.1 6.'6.1"?4<'' <6 ' =4 5 64 7%
% ,47 -,5 ;, / / 6 ' E,1;.T,4-.17.' ,4 ?'1'- ,M
5.<;.' .<-.16 5.6 ?.16,<<.6 6.1"?4<'>.'> @'4<>.6 >.'
;:'<.%%
" >4-.'>.'5"?. <.'>4 ;1 / .' / .<7 ,<<V .< '17 '
;5.' ?1.;.>.<7 6.1" '4J / .<7V.' >.' >.4@ '<<..6 ?'1'
;:';4<.'>.6 ; 1;,<67'<;.6 64 -'<7.6 =4 '6 V 71,4-.1"
1V4< .8 % $
" ?1. / .1. '6'5.' ;1 / .'" V7V ;, / / 6 5"< / 7%
">.4@ . / .8 6 5 " ';, / / 6 ?'1' >.4@' ,4 ?54
6 .416 ?.16,<<.6%
"71, 6 . / .8 6'5.';,4?'05.',4 5.6;,4?'05.6 >4> 7
;1 / .'V7' . 7 ?,17.416 > '1 / .6 'E.4 ,4 >.'7,47.'' 71.'
'1 / .' / .4171 .1.8
% .' ?,<11" 7,47.E, 6 5" >41. .'>.'5"?. <.'>4> 7
;1 / .' .@;.>.1' =4 <0.' '<<..68 "1' 6,< >.6>7.6 ; 1M
;,<67'<;.68 .< =4;5=4.' <, / 01.' =4 .55.6 V 6, .<7
1.4< .6%
% '5.' ,5 'E,1;.',4-.17.' .7 ?'1'- ,5.<;.' .<-.16
5.6 ?.16,<<.6 .67 ;, / / 6 6, 5 >'<6 4< J1'<>';:. / <8
14.',< ?5';.'?405 =4.8 6, 5 >'<6 <7.1 .41'> 4<.' <' '
6, 8 5"?. <.'>41.1" U '<<..6 >.';;:'<.%
% " ><1..'>.'5"?. <.'>4> 7 #1 / .' / .<7 ,<<.'.<
'17 ;7.'?1V.>>.<7 691)''4J / .<7V.' >.' =4'71.' '<<..6
?'1';:';4<.'>.6 ; 1;,<67'<;.6 =4 '6 V 71,4-.1"1. < .%
"?1. / 1. '6'5.'#1 / .".7.';, / / 6 5" <4 7%
">.4@ . / .8 6 5 " V7V ;, / / 6 ?'1' >.4@ ,4 ?54M
6 .416 ?.16,<<.6%
"71, 6 . / .8 6'5.';,4?'05.',4 5.6;,4?'05.6 .7' .<7
?,17.416 > '1 / .6 'E.4 ,4 >.'7,47.''471.''1 / .'< .41G
71 .1.%
" =4'71 . / .8 6' 5.' ;,4?'05.'6 .67 <71,>4 7 >'<7'
<7V1 .41'>.'5" / '6,< ,4 >4 5,J. / .<7 ,4 7 ';;, <'
/ 6 5.';1 / .' ' '>.'> .EE1';7 ,< E' 7.'?'1' 54 / V <.'
,4 ?'1 6.6 ;, / ?5 ;.6 '4@ ?,17.6 .7 ; 741.68 6, 5 >.'
5'>7.' / '6,<8 6, 5 >4> 7 5,J. / .<78 ,4 " '>.'>.'E'46'
6.6 ;5.E6 , 5 .<'.6; >'>'<7 5.6 <41' 55.68 7, 56 ,4 '451.6
;5,741.6 .@7.1 .41.6 >.' <>7.' / '6,<8 ,4 6'5.';,4?'M
05.' .67 5 '0 7'<7 ,4 ;, / / .<6'5 >.' 5'>7.' / '6,< ,4
1.; ' :<0 74.55. / .<7 >4<6'5'>7.' / 55 6,4 ?,41' V E' 1.'
4< 71'-' 5 ,4 4< 6.1- ;.'64541 V8 ,4 =4 ' '41" .7.'1.I4
'5 71.'> ,6?7'5 7.%
% ,47.E, 6 5" >41V.'>.' 5'>7.'?. <.'<.'?,411"
.@;.>.1' - <J7 =7 '71.' '<68 '1' 6,< >.6>7.6 ; 1;4<6 '
7'<;.6 8 .< =4.5=4.' <, / 01.' =4 .55.6 6 V 71,4-.47
1.4< .6%
% ,47 '471.'-,5 ;, / / 6 6'< '- ,5.<;.' .<-.16
>.6 ?.16,<<.68 ' '>,'> .EE1';7 ,< E' 7.8 6, 5 ?'1'5.'
-,5.418 6, 5 ?'1'6,<;, / ?5 ;.8 6.1"?4<'>.':4 7 '<<V.6
>.'J <.%
"% " ><1..'>.'5"?. <.'>4> 7 ;1 / .'6.1" '4J / .<M
7V.'>.'>.4@ '<6 ?'1';:';4<.'>.6 ; 1;,<67'<;.6 64 -'<M
7.6 =4 '6 V 71,4-.1" V4?.% '
"?1. / .1.8 6 '7\ E1';7 ,< .67 E' 7.' '4@ ?,17.6 .7'
;5 7 1.6 .@7.1 .41.6>.'0>7 / .<768 ' '.> E ;.6%
">.4@ . / .8 6'5.';1 / .' .67 ;, / / 6 >'<6 4<.' / '5G
6,<';74.5E, / .<7 :'0 7..',4 6.1-'<7 ' 0'0 7'7 ,<%
"71, 6 . / .8 6'5.';1 / .' "V7V ;, / / 6 5"<4 78
"=4'71 . / .8 6 5 " V7V ;, / / 6 ?'1' >.4@ ,4 ?'1'
?546 .416 ?.16,<<.6%
"; <=4 / .8 6'5.';,4?'0E,4 E,6 ;,4?'05.6 V7' .<7
?,17.416 > '1 / .6 'E.48 ,4 >.'7,47.''471.''1 / .' / .47'
71 .1.%
% "K '6 'N % '5,<.7 >. / '<>.' ' <7.1'
1, / ?1.'5" > 6;466 ,< ?,41' '<<,<;.1' 4< E' 7 =4 5 > 7
/ ?,17'<7%
') 'S 4@ ?,17.6 >.' 66.1,0 V.8 6546 -,6

V.77"8 >'<6 ' ; ,11 >,168 5" # ,<67 747 ,< .55,1>1.'
?405 ;'1. , -.<7 5.'?546 - ,5.<7 ,471'J.% <.' 'EE ; : .8
<,< 6.45. / .<7 6.>7 .46.8 7<' 6 1.->74.'>.'7,46 5.6 ; ' ' '
1';7.1.6 >.' ;1 / .8 ; ,<6. 55.' '4 ?. ,?5. '0,5 7 ,< >.'5" '
1,V'45>% .'>. / '<>.' =4.' 66. / 05..' <'7 , '5.' ,1 '
>,<<.' " ' ; ;46'7.41 ?405 ;8 " 7,47.6 5.6 '47,1 7 6 64 '
?.1 .41.68 '?,4164 -1.'5.6 '47.416 >.' ; .'?5' ; '1>%
" ?'17 .' >1, 7.' .7>.6 / . / 01.6 >4 / 5 .4 >.' 5"
6'55.' 6.R.-.<78 ?'1 4< / ,4-. / .<5 6 / 457'<>8 ?,41
'??4V.1 5" ?1,?,6 7 ,< >.' % '5,4.7%
F ' # 'I '0,47.' "5" / ,7 ,< >4 ?1.,? <'<7
5" >. / '<>.' =4.' 5.6 6 J<'7' 1.6 >.' ; .77.' 'E0; : .'6, .<7
<1 5. ; : ' / ? '11>7.6% & .' - ,5.<E.6 14 / .416 ?'17'<7
>.' .@71. / 7.' J'4; : .' ; ,4?.<7 5" ?'1,5.' " % '1'
7 < .'4%P %
' ' < <> - >4 ># ; .77.' 66. / 05. ' '< '
<,<; .' 4<.' 'E7 ; : .' =< 5 71,4-.' 6.>7 .46.8 641 5.'
; : ' / ? ,< - ,46 >. / '<>.' =4.' 5.6 6 J<'7' 1.6 6, .<7
?,4164 - 6 .7 '11>7.6% .'>. / '<>.' =4.' >4 / , <6,<
E'66.' 5. ;741.'>.' ; .77.' ? 7..8 '5 < =4.' <,46 >,<< 0<6
<,6 ,? < ,<6 .< ; ,<<' 66'<; .' >.' ; '46.% & % ! '1'7
' <> <7.11, / ?7 ' - .; - ,5.<; .% + ' < 5.'1'??.55.' "
,1>1.%P '0,47.' 4<.' ; ,<6 >.1'7 ,< J. <.1'5.' > 4<.'
?546 J1'<>.' / ?,17'<; .8 . .67 =4.'>'<6 5.6 ; 1; ,<67<< '
; .6 ,< <,46 6, / / .68 6 ' - ,46 - ,46 '11>7.0 " ; .77.' >>
<,<; '7 ,<8 7,46 5.6 0,416 5 - " .< '11 -.1 >.'6. / 05' '
05.6% 'E'47 =4.' 66. / 05..' <.' / '1; : .' ?'6 '4 : '6: .>
.7 =4.'5.' ; , / 7.'>.'#,<67 747 ,< 54 '?1.6.<7.' .< < 4<.'
'J. <.1'5.' 641 5" 5 0.17.'>.'5" ?1.66%.8
<J1'<>'<, / 01.'>.' - , @ >4 ; ,7> J'4; : .N ' ,1>1.'
>40,41%
' %6.' 5. -'<7 ' - .; - ,5.<; .N # , / / .<7
" ,1>1.' >4 0,41Z ' 00'V.S 5 .67 'E> / .' =4 ,<
5' 66.'>.' 7.56 >.5 76 / ?4< 6%
%%%% # .67 4< E' 7 >.'?,5 ; .%
' ' # 'N ' / .'>. / '<>.' >.8 7,47.6 ?'176
=4.'0.' / .77.' '4@ - , @ 5" / ,7 ,< =4 .67 E' 7.'>.'>. '
<,<; .1 " ' ; ;46'7.41 ?405 ;'5.6 6 J<'7' 1.6%%%
' 'N % 5.' ?1.6 >.<78 ' - '<7 >.' ; ,<6457.1
66. / 05>.8 ?.11' .77.0 / , '>.'54 6,4 / .771.'>.4@ ,0M
6.1-'7 ,<6 N 5" ?1. / .1.8 ; .67 =4.'5,16=4.' 66. / 05. ;
'??1.<>'>.6 ; <,6.6 >.' ; .'J.<1.8 .55.'5.41 >,<<.'0.'4 '
; ,4? ?546 > / ?,15'<; .= .55.6 <. / .1 7. '& '6 .5.- .'
>.' - ,5.<E6 / 41 / 41.6 >'<6 5" ?'1>.' >1, 7.8 >.6 '?j '
?5'4> 66. / .<76 >'<6 5" J'4; : .%P ' .67 . - >.<7 =4.'>.6
?'1'>,@.6 =4 ' < ,<7 ?'6 5.' 6.<6 ; , / / 4< >, -.<7
7,< 0.1 > .4@ / / .6% ' ' .67 . - >.<7 &54.' '<7.41 >.'
; .77.' 'E ; : .' .67 4< <6.<6.' =4 5 E'47 '0'<>,<<.1 '4@
6, <6 >.'5" ?,5 ; .'>, / .67 =4.% .'1'??.55.' 66. / 05..'
'6.6 ?1,?1.6 ?1 <; ?.68 " 6.6 ?1,?1.6 / '@ / .68 >,<7
0.' ;1, 6 =< ,< ?.<7 > 1.' =4 .55.' 6 .67 046=4 ; ' 0 .<
71,4->.% 5 .67 ; .15? < =4.'7,47.6 5.6 ?1,>4;7 ,<6 >.'
; . J.<1.' 6,45 1.6 >.6 046=4 ; '6'<6 .5E.78 ?'1; .' =4.'
-,46 5.6 ' - .0 / >?1 6>.6% 66. / 05..'?.1>1' 78 " .<7.<M
>1.' .7 ' > 6;47.1 ; .6 ?1,>4;7 ,<6 =4 ' <.' / .1 7.<7 ?'6
4< ; ,4? > ; . 58 4<'7. / ?6 =4 .55.'>, 7 ' ' ; : . - . / .<7
>.'5" #,<67 747 ,<8 .7 '40,<: .41 >4 ?.4?5.%
546 .416 - , @ >.'1.@71> / 7.' J'4; : .' I ,41=4, '
< ' 7,< ?'6 >>4,<.>5.6 01.E6 >4 ?'?.'G.7 '>1.66.'>4
1, 'Z
' ' 'N .' > 6 =4.'7,47.6 ; .6 ?1,>4;7 ,<6
>, -.<7 >71.' '0'<>,<<>.6 '4 / .?1 6=4 .55.6 / >1 7.<78
.7 =4 .55.6 ' ,07 .<>1,<7 8 .7 =4 .55.6 ,07 .<<.<7 >.0'%
& <.' - , @ >.'5" J'4; : .'N ,1<8 / " E, %P 34'<7 " / , '
0.' >. ;5'1.' =4.'0 ' ' ? ,41 5" ?1,>4;7 ,< =4 ,< - .017 >.' '
>.<,<; .1 5.% ?546 ?1,E,<> / . ?1 6I =4.'0 40-4 7,47 5.

6>'<7.' ' '1 6 ?,41 6 , ; ;4?.1 >.'5" ?,5 ; .'>.' '1 6Z
& <'??5'4> 7 >'<6 .@71> / 7.'J'4; : .%P 5 V " >.6 ; ,1?6
'> / < 671'7 E6 ' '1 6I 5 V " 4<.' / < ; ?'5 7> ; : '1J>.'
> .< .@.1; .1 5" ?,5 ; .I 5 V " >.6 71 04 / / @ ; : '1J.6 >.'
-. 55.1 " 5% ,1>1.'?405 ; 5,16,4.'5.6 / ,V.<6 >.'5" ?,M

5 ; .'6,<7 >6,EE 6'<76% .'> 6 =4 5 E'47 5.41 5 ' '5.
6, < > .@.;47.1 .7>.'E' 1.' .@>;47.1 5" 5, 0 J4.' ' '>'<6
; .77.' '5 5 ; : .' 5 V " '471.' ; : ,6.' =4.>.'5" E,5 .8 =4.' >4
>. 5 1.8 ; .67 '4@ ,E ; .16 / / ; P'4@.&64; ; .66 -. / .<7
'4@ 71 0 / '4@' <7.1-.< 1% .'>. / '<>.' >,<.' =4.' ,<
?'66.' " ,1>1.'>4 0,41%
% / KK ' 'I 34 =47.' ,< ?,4164 -.' '466 '5.6
'47.4 6 >.'5" 5.771.'>.' % '00.'B'V<'5%
% 5.' ?1.6 >.<7 / .7 '4@ - , @ 5" 1 ,7 ,< >.'?'66.1 ' '
,1>1.'>4 0,41% + .' ;97.'>1, 7 .7 5" ?'17 .'>1, 7.'>4
; 7.' J'4; : .' 6. / 05.<7 E,1 / .1 5" / '0,1 7.'?,41 5" <.M
J'7 -.%
546 .416 / . / 01.6 >.'5" ?'17 .' J'4; : .' 1. ;5' / . : 7
4<.'<,4-.55.' .?1.4-.8 .< ,06.1-'<7 =4.'5" / '0,1 7>
< .67 ?'6 '66.0 >- >.<7.'?,41 '47,1 6.1 5.'?1.6 >.<7 ' N
?1,<,<; .1%% 8
% 'N ><,<J,<6 >,<.' '466 '5.6 01.E6 >4 ?'?.%
% 'N ,46 ; : .1; : ,<67,46'<,46>;5' 1.1
.7 " <,46 1> / 1% < >.<,<; '7 ,< =4 ' " .7.'E' 7.'<.'7.<> %
'4 ; ,<71' 1.' =4 " <,46> - 6.1 71.6 / '5 '?1,?,6% ,47
5.' / ,<>.'6' 7 =4.55.' .67 / ,< ,? < ,< 641 5.'1.?407 '
; '< 6 / .% .'<.' ; ;66;1' ' >.' ; , / 0'771.' ?,41 1 <5. J 5>
>.'5" ; ,<67 747 ,< =4.' -,46 ' - .0 >. ;1. 7>.% ' 6 ; .'< .67
?'6 ' <,46'<,46 , ; ;4?.1 > 4<'; 5.'7 .'E,5 .'64JJ>1.' "
4< <> - >48 ,< >.'1.@'J.1'E ,< >.=4.5=4.66..7' 1.6%
.67 " <,46 " 6,47.< 1 ?'1 <,6 71' - '4@ 5.6 ?1 <. ?.6
>.'5"% # ,<67 747 ,< ' ; 7 . 5.8 " 5.6 64 -1.'>'<6 7,46 <,6
>. ;1.768 '5.41 >,<<.1 >.'5" ; ,<6 67'<; .' 2\'1 7,47.6
<,6 <67 747 ,<6% ' 6 > '0,1> <,46 <.'>.-, 6 ?'6 <,46
/ >5.1 >.'5" ?,5 ; .I CD 'E5 ; : .' =4.' ,< " >.<,<; ..
?,411' 7 0 .< < >71.'?'6 4< >.07 8 ?4 6= .'>'<6 5.'E' 7
.55.<.' ; ,<6. 55.' '4;4< >.078 / ' 6 =4.'6.45. / .<7 .55.'
><,<; .'4<.' ,? < ,<I .7 0 ,06.1-.' =4.6 - ,461.?,<>.0
?'1 5" ?.16WI P7 ,< '>.6 ,? < ,<6 >.5 1'<7.68 - ,46 6.1.0
5.6 ?1. / .16 " '77 % =4.1 5" 5 0.17.8 .7 " - ,5.1 5" #,<6M
7 747 ,<% ,46 <.'>.-,<6 >,<.' ?'6 <,46 , ; ;4?.1 >.6
E,5 .6 >.' =4.5=4%.6 ?'17 ;45 .168 < ' 6;147.1 >.6 <7.<M
7 ,<6 =4 ' 5 .'?.4-.<7 ?'6 >71.' ,00.7 75 4< 04J. / .<7%
,<6 ; .4@%=4 ' ;1, .<7 ' - .; / , ' =4.'5.'J,4-.1<. / .<7
/ ,<'1; : =4.' .67 5.' / . 5.418 ; .67 ' > 1.'5" ?1.6=4.'
4< - .16'07.'>.6 ; 7,V.<68 E.1,<5 4@ / >1, .60467 ..> '
; .7 > ;1 78 .7 5.'1.0.77.1,<7 '4 <, / 01.' >.6 E,5 .6 =4.'
; : '=<.'0,41 - , 7 . ;5,1.% 8 8
% 'N ' ' .<7.<>4 .<6 5.<; .'>.4@ ,? < ,<6
64; ; .66 -.68 7.<>'<7.6 " 5" / ; <.; ,<; 546 ,<8 ; .55.>.'
?'66.1 " ,1>1.'>40,41% '0.'?4 6 ,??,6.1 ' ; .77.' ,? M
< ,< >.6 / ,7 E6 1' 6,<<'05.68 0 .6? / .' =4.' - ,46 - ,4 '
>1.0 0 .< / .<7.<>1.' .< 6 5.<; .% & 546 .416 - , @ >.'
1.@71.1' 7.' J'4; : .'N ,<8 <,<%P ' ' I ' %
% / (2 'N # .77.' 'E7 ; : .' .67 6>1. / .<7 ,4 '
1'J.' >.' ; .6 / .66 .416 .4@ / > / .6FI 56 ; : .1; : .<7 +
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% 'I .'6' 68 ; , / / .' ; ; 6 / .66 .416%%%
% 3 44 'N <; ,1.'4<.'E, 68 ,<6 .41I 5' 66.@ '
<,46 ' ; : .-.1 5" ; ,<67 747 ,< / ,<'1; : =4.% #.'6.1"
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%) 5 'N 67 ; .' =4 ,< ?.<7 >.<,<; .Z
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'?1.6 >.4@ '46 >.' > 6;466 ,< 641 5.6 ?1 <; ?.6 >.' 5 M
0.17V 8 <,46 ?1,?,6.1 > '<.'<7 1 .<7 .1. / .<7 5" 5 0.17.'
>.' 5" ?1.66.8 =4 5 6;'1.<>.'5.'>.E. 6.41 > 4= 6V67> / .'
'466 ' '0641>.' .7 '466 ' .@71' - 'J'<7 >.' 7V1'<< .% & <
'??5'4> 7%P
66. / 05..' >>; >.8 ' 4<.'71.6 J1'<>.' / '0,1 7>8 .7
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% %.? 5.7 .11. ,1.<> 5" 64 7.' >.'6,< ?1,0.7 >.

5.<;.6 ,<7 .@;1;..6 '-.;' '771,4?. / .<7 .7 " E,1;.' ,4-.17.%

" " " L% 34 ;,7=4.'6.1" ;, -'<; '>'-, 1'-,5,<' 7' 1. / .<78 ?'1' / '5 ;.' ,4 -.<J.'<;.8 .7 " >.66. <'>.' <4 1.' " '45 4 8 ./?, 6,<<.'>.6 ;:.-'4@ ,4 0.7.6>.' 6, / / .8 / ,45,<68 0.67 '4@8 ?, 66,<6 ;,<6.1-.6>'<6 >.6 .7'<EE ',4 1.6.1-, 168 6.1" ?44 '>.'5" ?. <.'>.'=4'71.' '<<. ;6>.'&

A. . . ' 34 ;,<=4.'-,5,<7' 1. / .<78 ?'1' / '5 ;.' ,4 ?'1'-.<J.'<;.8 .5 " >.66. < >.' <4 1.' " '4714 8 '41" 145.' ,4 >.714 7 > 4<.' / '< .1.'=4.5;,<=4.'>.6 5 71.6 >.'?1,?1 .5. ' 0 55.768 5.771.6 >.' ;:'<J.8 =4 77'<;.6 8 .;1 76 ,4 ';7.6 ,?.1'7 7 ,05 J'7 ,< ,4 >.;:'1J.8 6.1" ?4<'>.'5" ?. <.'>.'=4'71.''<<>.6 >.' J <.%

" " " % .16=4.'5.> 7 ;1 / .' '41" >7> ;, / / 6 ?'1' >.4@ ,4 ?546 .416 ?.16,<<.68 5" ?. <.'6.1" >.'6 @ '<<>.6 >.' J <.%

' " ?. <.'>.'<.4E '<<. .6>.' ><.'6.1" .<' ;,414.'?,41 5,47.' .6?7..'>.'? 55'J.' .7 >.J>76 >.' / '1 G ;:'<> 6.68 > .55.76.7>.'<1,?1 .7.6 / ,0 5 .1.6 ;, / / 6 '-.;' '771,4?. / .<7 .7 ' E,1;.' ,4-.17.%

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" % '5.> 7 ;1 / .'>.'E'4@ .67 ;, / / 6 .< . .1 741.' ?1 - . .8 5" ?. <.'6.1" >.' =4'71.' '<<. .6>.' J><.%

" 5% '5.> 7 ;1 / .'>.'E'4@ .67 ;, / / 6 .< 5.57 .'>.' ;:'<J.' .7 '471.6 .EE.76 >.' ;, / / .1;.' ,4 >.'0'<=4.8 5" ?. <.'6.1" >.'6 @ '<<. .6>.'J><.% ' R'

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T " E% 34 ;,<=4.'6.7" >,1 -'<.<>4 ;1 :. >.'E1 4@ 7. / , J<'J.' .< / '7 .1.' ; - 5.'6.1" ?44 ' >.'5" ?. <.'>.' 6 @ '<<. .6>.'J><.%

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4 >'-, 18 6; . < / . 7 .7 >'<6 5.'>.66. <'>4 ;1 / .8 ' >.';7 '66 67.' 5.';,4?'05.' ,4 5.6 ;,4?'05.68 6, 5 >'<6 5.6 E' 56 =4 ' ,<5 ?1>?'1.'>4 E';5 7> 6,< .@.;47 ,<8 6, 5 >'<6 ';7.'1<> / .'=4 ' " ;,<6, / / .I

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05 ;6 ?'1'5" -, .'>.'1 / ?1.66 ,<Q .1" ? 4'>.'5" / >< ?. <.' ?1,<,<;.' ?'1'5" 5, ' ;,<71.' 5.6 '47.416 >4.' ;1 / .% ' ' d f

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5$$+,.(6(.('-(,(4'/'+*"5 (/ +9.((" 4. 4 "
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.4' '4;4<.'-, .'>.'E' 5ß<''4;4<';5.'>.'- ,5.<;.'=4.5' ;,<=4.½ ,41=4, ' ;.5'ß ,<6 .41Z , .67 =4,' <,46 6, /< .6 >.' - .4@ 6;;E'7.416 >.' 5'' 5 E;.17.ß =4;' <,46 6'-,<6 5.';457.' =4 .55.' ?1.E71.ß .5 =4 ,< .67 > J<.' .'6.''E'-.<16 =4'<>',<'5'';,<E,<>''-.;'5''5 ;.<;.½

(A $ 1
F F 3
& '0 !
ß * & ! A
'& ,46'-,<6> Q' <6.1.'<<.'5.571.; 1;4'
5' 1.'>.' ½ ,V< .1'641'5.' / < .' ,0Q.7ß >'<6 <, 1.'
E.4 55.'>''*'<,-. / 01.' (* 8P

W ! (+ .';,<6. 5J.<.1'5>.5'' ! '>.'
5'' - 55.' &5.' ' <7 .< 6 .< H1'<;.ß ;,<6 >.1'<7=4.'5''
;,<>4 7.' .1.'.7 0'1> .'=4.' ½ ,V< .1''7.<4.'>.?4 6
?546 .416 / , 6 .< E' 6'<7 / ?1 / .18 / .751.'>'<6 5.6
?'? .16 ?405 ;6 .7 > 671 04.1'7'<7 ;0.0 >51'<J.1'=4.'
>'<6 5.6 > EE.1.<76 >. ?'17. / .<76 >4'1,V'4 / .ß =4 5 .7' E
';;46.' > '-, 1' E' 7 E' 55 7.' ,4' 0'<=4.1,47.' .< 4 66.ß
1'' 6 =4.' ;.77.' ';;46'7 ,< >7' 7 4 .' ;'5, / < .ß ?'1;.'
=4 5 < '-' 7Q' / ' 6 E' 7 0'<=4.1,47.' < ' '7.11',V>'.<
4 66.'<' ' 55.416I'5.' >>5' E,1 / .5 =4 5 '' E' 7 '<@ '4M
7.416 >.' ;.77.' ';;46'7 ,< >.' ?1,4-.1' 5.' ;,<71' 1.I'
'6641'<;.'=4 5 ''>,<<>.''<'?405 ;'=4 5 ;7' 7 '17 6'<
>.' 6''E,174<.ß .7 =4 .55.'<.'?VQ-.<' 7 =4.'>4' E14 7>.'
6.6 -. 55.6 ½5 <> ;'7 ,<=4 5 ''?'1. 55. / .47>,<<..'>.6
/ ' 6,<6 >.' ; , / / .1;.'>.'5'' 4 66.' '-.;'5.6=4.55.655'
'-' 5'E' 7 >.6 'EE' 1.6I' .@' / .< =4 5 '' 6,55 ; 7>'>.'5''
/ 4< ; ?'5 7>';5.E' 1.ß 6'' ;,<>4 7.ß 5.61.<6. J<. / .<76
=4 5 '' 1.=4 6 >.' ?1.<>1.'7'<7 .< 4 66.'=4 ' 55.416 I'
7,47 .<E < 6,17 '' ;,<-' <;1.' >1V''=4 5 < '-' 7 1 .< ''
1;>,47.1'>.'6.6 .<<. / 6ß ?4 6=4 4<.' E' 55 7.' ,4' 0'<M
=4.1,47.ß <.' ';,<6, <1'.1'>'<6 5.6 7. <E.01;6ß
5 < .47?'6 ,6.ß 6 5 .< .E77 .7.' ;,4?'05;ß 6.';,<5 .1''
5'' ?14>.<;.'>.';.<@ >.6 <. J, ; '<76 ,4' E'01 ;'<76 >.'
5'' < 66.½=4 5 .471.<>46 6.6 - ;7 / .68 17, 7 5,16= .'
>.?4 6 5,<J7. / ?6 5 <.'71'17' 7 ?546 '-.;';4@ß .7 =4 ß
< 'V'<7 ;,<6. =4. / / .<7 '4;4< <7. 1>7 >.' / '<'J.1'6''
1>?47'7 ,<ß ?,4-' .<7ß ,4'>.Q,4.1'6.6 >. / '1; :.6 .<'
J'1>'<7 5.' 6 5.<;.' 641' 5.6 1. 6. J7 .1'.<76 =4 ' 7. '18
.7' .<7>. / '<>>6ß ,4ß .<'>.;: 1'<5 5.6 -, 5.6 >4 6.;1.7ß
E,41< 1'>.6 '1 / .6 '' ;.4@ =4 ' -,45' .<7 5.' ?.1>1.I
#,<6 >. 1'<7 .<;,1.' =4 5 1; 6457.'>.6 ? .;.6 .7 >.M
;5'1'7 ,<6 ; >.6646 1'??,17. .6ß 5.6 '77.67'7 ,<6 5.6
?546 :,<,1'05.6 >.' 5'' ;,<>4 7.' E1'<;:.' .7 5,V'5.'=4.'
½ ,V< .1'< '' ;;66.'>.'7.< 1'>'<6 6,< ;, / / .1;.'>.M
?4 6 .';, / / .<;. / .<7 >.' 6,< .5'05 66. / .<7 Q46=4 ''
;.' Q, 41I' .7<,7' / / .<7 =4 5 < '' Q' / ' 6 '??,17>' >.'
1.7'1>' >'<6 6.J ?' . / .<76ß / ' 6 =4 '4' ;,<71' 1.' 5 5.6
'' >'<6 7,<6 5.6 7. / ?6 E' 56 '-.;' .@';7 74>.' .7 ?1,0 7. I'
<7. 1>7 5.' ?546 - E =4.' 7,<6 5.6 <. J, ; '<76 .7 E'01 M
;'<76 >.' 5'' 4 66.' .7 >.6 > EE.1.<7.6 ; >.-'<7 ?1,M
- <;.6 7 55 1,V'4 / .'?1.<<.<7 ' 6,< 6,17ß 5'' ;,<5 '<;.'
<'57>1'05.=4 56 7. / , J<.<7' , 1' .< 54 8 '6641'<;.'
=4 56 >,<<.<7 =4 5 < '' Q' / ' 6 E' 7 0'<=4.1,47.' <'
'7.1 / ,V>ß 5.6 ,EE1.6 =4.' 5'' ?54?'17 54 'E,<7 >.'6.'
Q, <>1.' '54 '?,41'>. ;,4-1 1ß ?,4164 -1.' .7 E' 1.?4< 1'
5.6 ;'5, / < '7.416I' .<E < 7'<7 >.'7. / , J<'J.6 1.4< 6ß
Q, <76 '' 5''1.?47'7 ,< >,<7 5 '' 7,4Q,416 Q,4 ' .<;.77.'
- 55.ß <.'?.1 / .77.<7 ?'6 >.'>,47.1'=4 5 '' .7.' ;'5, / '
< >'J1'54 7. / .<7ß =4.' 5.6 '47.416 >.' ;.77.' ;'5, / < .'
<.'?.4-.<7 '-, 1' 1.?'<>4.' <6 > .46. / ;<7 >'<6 5.'
?405 ;ß 5 V' ''?546 .416 '<<>.6ß .5 1.<,4-.5..' '' '?'
?1,;:.' >.6 '66. / 05>.6 ?1 / ' 1.6ß =4.'?,41'54 '<4 1.'
>'<6 6,<;, / / .1;.ß .< 7.1< 66'<7 5''1.?47'7 ,<=4 5
6 V' .67 ';=4 6.ß . / ?, 6,<<.1'6.6 Q,416 .7 6'<6 >,47.'
#.4@ >.'>.4@ E 56 =4 ' >, -.<7 54 ' >71.' >''47'<7 ?546
;:.16 =4.' / '1;:'<7 641' 6.6 71';.6 5 ;41 '' & >Q''
>,<<>' &5.6 / '1=4.6 >.' 5'' ?546 7;<>1.' 'EE.;7 ,< .<'6'
6, ; '<7 1' <>'>4<6 6,< ;, / / .1;.I'
#,46 0 1'E 7 #<5 < =4;' 5.6 ; 7,V.<6 >.';.77.' - 55. '

Q467.6 '??1.; '7.416 >.' 5'' ;,<5 '<;.'=4 56 >,<<.<7'
;.4@ >.'5.416 ;,<;7,V.<6 =4 56 Q4J.<7 > .<.6 >.'5.'
1.?1>6.<7.1' .7 > 71.' 5.416 ,1J'<.6ß ,<7 >>Q'' 1.<>'
5 <.'Q467 ;.'>;5'7'<7.' '' ½ ,V< .1ß .7 ;,<-.17 >.';,<7
.6 ? .16>;47.416ß .<5.'<, / / '<7ß 5.' U<,-. / 01.'>.1'
< .1ß ,EE ; .1' / 4< ; E '5ß .7 =4.'>'<6 ;.6 ; 1;,<67'<;.S'
4< >.6 ?1. / .16 .7 >.6 ?546 ?1>; .4@ >.-, 16 >'
;,<6. 5 .7' 7 >.'-.< 1' '< 6.;,416 > 4< <>J,; '<7 11>'
?1,;:'05..7>'<6 6'' ;,<>4 7.' .7>'<6 6.6 / ;.416ß > /'
;,55.J4.' :,11 05. / .<7 ;, / ?1, / 6ß .< 54 ' >,<<'<
>.6 / '1=4.6 '47:.<7 =4.6 >.'6,<'77';:. / .<7N
''11.7.' =4 5 1.J'1>.'5.6 014 76 1>?'4>46 641'0
;, / ?7.'>.' ½ ,V< .1'>.<4 6 ?546 .416 '<<>. Q .7<,'
7' / / .<7 >.?4 6 '??1,;<.'>.6 '66. / 05..6 ?< / ' 1.'
=4 ' ,<7 >7>'7.<4.6 .<;.77.' - 55.'5.6)' ,;7,01.'>.1< .'
.7 Q,416 64 -'<76ß ;, / / .'E'4@ .7 ;'5, / < .4@ Q =4 .'
;,<6.=4.<;.' ½ 5.' / ' 1;'E.1'' ?'17ß >'<6 5.'Q,41ß Q
½ ,V< .1'>4' ?1.6.<7 '11>7>ß .7 <- 7.1'' ' -,45, '
0 .< ;,<7 <4.1' 5.6 E,<;7 ,<6 > ,EE ; .1' / 4< ; ?'5 =4'
54 ' ,<7 .7;'>#E. 1#.6 ?'1' 6.6 ;,<; 7,V. 6ß .7 =4.'?,4'
5.' / .571.'' ?,17>.' > ,07.7 1'>.6 71 04<'4@ 5'' 1>?'1''
7 ,< =4 '54 ' .67 >4.ß 5 54 '6.1'' >;5 -1.' ?'1'5.6.;1>'
7'11. J .E5 .1'4<.' .@?.> 7 ,< 7'<7 >.6 >. ;5'1'7 ,<6 ;'
>.6646 >'7..6 =4.'>4' ?1.6.<7 '11 7>ß 5.=4.5 6.1''
?1 / >' ''5''> 5 J.<;.'>4' ?1, ;41.41'>.'5'' ;, / / 4<.ß .'
'E ;:.'?'17,47 , 5 0.6, <'6.1'' .7 '' '66. / 05..'6 J<.
RJ<.' 'ß / ' 1.'f '' '1
'' 'ß o'ß 1!!
L bß , 'ß 1;.! ;'ß , . 'ß ; .-'
;,K ß 3
'.7 ß 'I' , 'ß
)'.7 3 -'
#,55'7 ,<<>' .7 >#B-1.' ;,<E,1 / .' '4@ / <47.6 >7'1'
' 5 1.J 671.'>. / .41.' / @ '1; : -.6½ ' ' <7 .< 6ß 7'
5.1' / '16 (* ½ & ' ' 3 '

' F ' 3 ' ' ' A<
0,1 (' ' '' ''0 '
'1 685;')'Q<5 5(* ½
.6 E,555;45' 1.6 =4.' ;' ?405 ;'' Q<J.6 '-'<7 / .'
,<7 -,454'>.?4 6 =, .5=4.'7. / ?6 / .>#<,<;.1' ;, / /'
4< ?.16>.47.41' .5 4< <7, . 1'<7½ H,17 >4' 7. / , J<'J'
>.'< '' ;,<6; .<..'.7>.' .67 / .'>.6 :,<< 7.6 J.<6 =7
/ .' ;,<<' 66.<7 .7 6.<7 ''?,17>.' > '??1>; .1' / '' ;,<
>4 7.' ?405 =4.ß Q ' ' / .?1 6#'Q46=4 ; '5.6 / ?47'7 ,<
-'J .6 =4 ,< ''1. ?'<>4.6 / >;:' / / . ' ;,<71.' / ,'
.7 Q.' / .< 64 6;14' / > / .' :,<,1>I' / ' 6 '4Q,41> 54'
/ .6 ' / 6 .4@ / # / .6 / .'E,<7 4< >.-, 1'>.'1.?,466.'
4<.' / ?47'7 ,< ?546 ?1. . 6.ß =4 '7.<>'9 / .' >><,<;.'
;, / / .'5.'E'47.41' .7 5. , / ?5 ;;'>.'7,47 ;.'=4 '6 .6'
?'66.' '4@ :;'7 :6 >.?4 6 5.'Q,41'>.' 6;.<6 ,<IQ '?'
?-;;.'71,? 5.41' ' / 7 .' ?941' / .'1.E46.1' ''5.416 <6M
7'<;.6½
.'>;;5'1.>,<;'=4.'1 .< < .67 6 ' / ?4>. / / .<7E'4@
.7 ;'5, / < .4@ =4.' ;.77.' ';;46'7 ,<I'Q.'>.E .' / .6 .<M
<. / 6ß =4 '5.'6,47 .< / E / .'7. / ?6 >.'5'' ;:,6.'?40 '
=<.ß > .<'55.J4.1' '4;4<.'?1. 7-.I' .7Q '77.67.641' / ,<
:,<<.41=4.Q.< ' ' .4' '4;4<.' <E54.<;.'<'> 1.;7.'7 '
<> 1.;7.';5'<6 5''1.6 67'<..=4 ''>7. ,??,6>.'> .@>;4 '
7 ,< ,< ?54747 '' '??5 ;'7 ,< >.'5''5, '>.' 66.1'05>.'
<'7 ,<'5.ß .7 =4 ' ' -' 5 .7>?1>-4.'?'1';.4@ 5'' / > / .6
=4 'H,<7 ?1,-,=4>.½
.< < .67 ?546 ,??,6>'' / .6 ?1 <; ?.6 .7 '' / ,< .''
1'.7#1.'=4.' 5.6 <71 J4.6 .7 .6 / '<;.4-1.6 =4.' ,<
,6.' / / ?47.1I' .7 ?.16,<<.'<.';=<<'57 / , <6 =4.' / ,'
;.77.' - 5.' 1.66,41;.' >.6 / <5-. 55'<76½ .?4 6 / ,<
<67'55'7 ,< >'<6 5''?'1, 66.' =4 ' / '' >7>'#,<E >.'?'1'
/ .6 ;,<; 7,V.<6ß Q.'<.' / .'64 6 '??5 =4>'=4 ''V'>7'05 1'
5.';<5 / .'.75''?' @I'1 .<'<.'< '' ;, 47.'?,41'V'?'1-.< 1½
,< .6 / .6 <6714;7 ,<6 .7 7,47.' / '' ;,<>4 7.' < ,<7
7.<>4' =4 > ;;7 ,0Q.7 >.6 -, .7 @ .7 >.6 .EE,176 >.'7,47
5.6 -1' 6 ?'71 ,7.6½ .E5 '4.67.'7,>6 (''?'1, 66 .<7½

%

[illegible]

,($ +

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[illegible]

[illegible]

s s :I s

G U% D ' < 6 '=>?=' ' ' ' '

5 %

' ' ' ' +' '' ; : ' / 01.'>.'1. - 6 ,<'.67 64??1 / . .I' 4>' 041. '4' 640,1>, , <.' '' 5'' ;0' <01.' >.6' E 4' ' ; .6' E.1'' 5.' 71' - ' 5' >, <7' .55.' ' - ' 5' .7.' ; : '1J. .%

'' J'1< 6, <' >.' ; .57.' ; '? 7'7.' .7' 5.6' J'1>.6' >4' 1, ' 6.' 6.<7' 1.<>46' >'<6' 5.6' ; : ' / ?6' >.' '>4J'1>8' ?, 41' V' .@. ' ;47.1' >.6' / '<; .4-1.6' ?.<>'<7' =4.5=4.'5. <?6%8

.'0'1, <'> <J.671, . / 8' / < 671.'>41, '>.' '16, - .8 ' '' , 07.<4' >.' % % 4<' ; , <J.' ?, 41' 1. - . < 1' ; ' ?, 41' =4.5=4.'7. / ?6%

! % %

'!) ' ' ' +' <' 6 , ; ;4?.' '466 ' >4' 6, 17' >.6' Q4 E68' =4 ' 66<7' 7 U6' <, / 01.4@' >'<6' ; .' ?'V6% .41' <, / 01.'6 .5. - .' .<71.' 9' '' (' / 55.' <> - >46I' 4<' ?1, M Q.7' =4 ' 5.6' ; , <; .1<.' '' 5 7.'?1 .<7.' '' 5'' > .7.% ' .67' ?1, M O'O5.' =4 5' 6.' 1.66.<7 1'' >.' 5'' 6' J.66.' =4 ' ?1.6 >.' '' 7, 47.6' 5.6' >.5 O.1'7 , <6%

' 67' 7, 4Q, 416' =4.67 , <' > '1 / .1' 5''0, 41J. , 6 .' >.' ; .57.' ; '? 7'5.%

'! ' '8 & ' ' ' V ' .6' 71, 4?.6' >.' 5'' 1.?405 =4.'<.'=4 77.<7' ?'6' 5.6' =4'17 .16' , 4' .55.6' 6, <7' ' ;74.55. <.<78' / '6' 5.6' 71, 4?.6' 5 704'< .<<.6' ?<7' 1. 4' , 1>1.' >.' 1.7, 41<.1' >'<6' 5.41' ?1, - <; .%

<' .; 1 7' >.' 5'' - , < .' =4.' 5.' ; , 1?6' > '1 / .'1'66. / <' O5.' 641' 5'' E1, <7 .1.' .67' >. 8 ' : , / / .6%

%

' ' ' ' 9 ' - + <' '77.<>' ' - .;' / ?'7 .<; .' 5.'1 7, 41' >4' ; , 411 .1' =4 ' '' .7.' .@?.> .' > ; ' ?, 41' F 7.160, 41JI' , <' .6?.1 '=4 5' '??, 15;1'' >.6' <, 4- .55.6' =< \' <.' 5' 66.1, <7' ?546' >.' >, 47.' 641' 5'' ; , <6.1- '7 , <' >.' 5'' ?' @%

%4 .1, ' .67' '' # : '15, 77.<0, 41J% 888' *

I' ')

' ' ' ?C' ' / , <6 .4 G' .7' 5O' # >. - '<7 ; , <7.' > 17, 6' - , <7' 1.?'15 1' > ; 8' 6'<6' >, 47.' ?, 41' @' 5' # : '?.55. , 4?, 415 55. / 'J<.% % K, 4 55# .67' ' 1 - #' 5.' CU' '' 4@. / 0, 41J' '' / > 8' ' - .;' =4.5=4.6' J < .1'4@' .7' , 5O; .16' E1'<; ' 6 ' =7E75=4.6' 0.41.6' '?1.6' V' .67' '466' ' '1M 1 - .'5.' ; >. - '<7' ?1 <; .' ' / 0.6; % ! .6' <6.<6.6' ?1, / . ' 4.<7' 7 <' '1.66.<7 / .<7' E#1, ; .' ; .<71.' 5.6' <, O5.6' 64 ; ; ' >.' 66. / 0 #.'<'5 , <'5.' >.' H1'<; .' .7; , <71.' 5'' H1'<; .' .<7 .1.% .416' > 6; , 416' 6, <7' ?5. <6' > .J'1. / .<76% 56' < , 4-1.<7' 5'' 0, 4.0.' =4.'?, 41' O5'6?: . / .1' '' 5'' E, 6' 5.' <, / ' >.' .4' .7' 5.' <, / ' >.' ?'71 .% %

41' 5.6' E1, <7 .1.6' >.' H1'<; .8' - .16' , <6' .7' , 41<'V8' >.6' ?'V6'<6' , <7' 1.E46' >.' ?' - .1' >.6' > / .68' .7' ; , <7.6 ' 7.<7' > - .16' >1, 76' '' 5.416' 6. J<.416%%%%%% '' ?' @' '' 5' H1'<; .S' 5'' ?' @5' , 4' =4.'7, <6' 5.6' 7V1'<6' ?1, 7. ; 7.416' >.' 5'1. - , 57.' .7' >.' 5'' 71'< 6, <' E1> / 66.<7S'

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'% ' '? ' +' ;' ; , <6. 5871' - ' 55.' >.?4 6' =4.5=4.'7. / ?6' '' 4<' ?5'<' ; , <; 5 '5, 1.8' 6, 46' 5.'<, / ' >.' ' & 8% ?, 41' ; , <7.<5.1' 5, 46' 5.6' <> - >46' >.' ; .7' >7'7% ' .<' ?1, ?, 6'' 5.6' E, <>. / .<76' .<' / '16' .7' .<' / ' ' >.1 ; 16% #.6' , 4- . '4@' '11'<J. / .<76' 1 7'O5 66.<7' ?1.6=4.'7, <6' 5.6' '<; .<6' 1.J5. / . 768' .7' / .77.<7' '4' < M - .'4' 5.6' >1, 76' >.6' '<; .<<.6' E' / 5 .6' 0, 41J. , 6.6' ' - .;' ; .55.6' =4' <.' 6, <7' =4 .71'<J.1.6% #.6' '11'<J. / .<76' ?1>5 / <' 1.6' , <7' .7.' 6'<; 7 , <<.6

'5J1.' ; .5'8' 5'' 71'<=4 55 7.' <.' ?'1' 7' ?'6' .< , 1.' #7' ' %O 5.E' <, / 01.' >.' ; 5, V.<68' =4 ' 6.' ; 1, .<7' >>?, 4 5 > '

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% ! 1.<46' ?'66.' ?, 41' >71.' '47.41' > 4<.' <, 4- .55.' E.4 55.' ?>1 , > =4.8' 6, 46' 5.' <, / ' >.6' ! ') ' ' G ' #.77.' E.4 55.' ; 1; 45.' ; 5'<>.67 <. / .<7' >'<6' 5'' - 55.% , <6' ; .4@>.' 5'% O, 41J. , 6 .' =4 ' <.' >. / '<>.<7 ' =4.' 5'' ?' @' , <7' E' 7' >.1< .1. / .<7' 4<.' '>1.66.' ' ' #, <' 6. 58' ?, 41' 5.' ?1 .1' >.' ?1.<>1.' ; , <<' 66'<; .8' .7' >.' ?146' ; 1 1.' 5, 46' 5.6' .; 1 76' =4 @I 1; 45.<7' .7' =4 ' ?'1' 66.<5' #, <' 71' 1.6' '' 5'' 71'<=4 55 7.' ?405 =4. ' ' .67' > 7' >'<6' ; .77.' '>1.66.' W' =4.' 7, 46' 5.6' O, <6' ; 7, V.<6' 6.' Q, <>1, <7' '4' ; , <6. 58' >'<6' 5.' O.6, <8' ?, 41' 1.?, 466.1' '' / ' <' '1 / ; .' 7, <7' ; .' =4 ' ?. / 1' 7 '' ' - .< 1' ; , / 1 O4.1' ''1, / ?1.' 5'' ?' @' =4 , <' >, 7' >.6 1.1' ?, 41' 5.' 0, <0.41' >.%5'' 1.?405 ' =4.8' .7' ; , <6.1 .1' ?'1' ; .' / , V.<' <>.?.<>'<; .' >.' 7'7% Y $

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#.?.<>'<78' ?, 41' .71.' .<' .5'7' >.' >.E.<6.8' , <' E' 7' >.6; : '<J. / .<76' '' 4<.' ? 17.' >.' 5'' - 55.8' >4' ; 97 ' >. ' H1'<; .8' .7' , <' 1#?'1.' 5.6' E, 17 E ; '7 , <6' =4 ' 6, <7' >.' ; .' ; ; 97. 5'% .' / 5 7' 1.' .67' 6571' 4<'? .>'1.6?. ; 7'O5.8' ; , / / .' 6 5' V ' - ' 5' .<; , 1.' .<' H1'<; .'4<' / < 67.1.' ; '?'O5.' >.' j <, 46' , ??1 / .1' .7' >.' <, 46' ' - 5 1%

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, 46' 6, / / .6' / ?'7 .<76' ; ' >.' - , 1' =4.55.6' 1.6, 54M 7 , <6' ; .' ?1 ; .' ?1.<>1'' 641' 5.' >#; 1.5' > .' 66. / O5; .' <'7 , <'5.' =4 ' , O5 J; ' , 4' >.' 1.<51. - ' >'<6' 7; '1, V'4 / .' ' - .; '6, 4 / 66 , <8' , 4' >.' 6 .5, J<.1' >.6' E1, <7 > .6' '' >.6' ; , <> 7 , <6' =4 ' 54 6, <7' 4 / .6% #.77.' '57.1<'7 - .'54' 6.1'' > EE ; 5.' '' ' ; ; .?7.1% <' > 7' =4.6 / ' '5.<7, 416' .76.6' 0, 11.6?, <>'<76' >.' '1 6' .<71.7 .<, .<7' >'<6' 4<. 'O.1 ' 1'5 , <' > >. .6>, <7' 5V' '?.4' > .@. / ?5.6% ' % $

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(+.ʽ/ WH8 \,ʽVʽ +ʽʽ 3$-Yʽ-3ʺ ,$ʺ-ʽ +ʽ *ʽ,$1
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G " % ,47 ,EE ; .1' '4=4.5 5.' #, / '<>. / .<7 6.1"
#-,577 ?'16,<' J1'>.' .7 ?'1'6,<' '<, .<<.7 '<.'?,411"
1.E46.1'>.' .@.1;.1%
" % ,6 ., / / '<>'5 76 ?'17 ;455.16 6.' ;,4E,1' .%G
E,<7 >'<6 5.416 ?5';.6 1.6?.;7 -.6 E' ,'=4 ' .67 ?1.6%\
;1 7'15% e' >4' ?1.6.<7 5 71.8 ?,41' ,EE ; .1' J.<.1'5
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,1>1.6=4 '1.;.-1,<7 >4> 7 ,EE ; .1' J.<.1'5%
" % '<6 7,<6 5.6 ,0Q.76 =45'<.';,>;.1<.1,<7 =4.'
5.'6.1- ;.' ?41. / .<7 / 5 7' 1.8 7.5" =4.'5" >.E.<6.'>.'
5"?5';.8 5" J'1>.' .7 5" ;,<6.1-'7 ,<' >.' 7,<6 5.6 .7' '
05 66. / .<76 .7 .EE.76 / 7' 1.68 ;, / / .: ? 7'468 '1\
6.<'4"Q ;'6.1<.68 'J<' <68 ?1 6,<68 - -1.68 . E.76
> '17 57.1 .' ,4' >.'E,17 E ;'7 ,<6 .7 '4 1.6 OE77 / .<768 .EM
E.7.' ,<'E,41< 741.6 " 46'J.'>.J 71,4?.68 5"?,5 ;.'>.6
=4'17 .168 5" 7.7 4.8 5" > 6; ?5 <.' .7 <6714;7 ,<' >."
71,4?.68 '47,177# / 5 7' 1.'6.1" '06,54 / .<7 <>>?.4 '
>'47.'>4' ?,4-, 1' ,5- 5
'B3*(4 ..+ (,.(4. A 9-' -(+*$3 (' 4.(%3-!
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4 .'+ 3 * 3+" 3$0$' ' .$ $ (' '(4.(0+ $.' -(' *
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5"?,5 ;.8 7 ,1>1;8 5" 1'<=4 55 7#' <7.1 .41.'>.6 ?5'd
;.68 .7 ,4'5"?'17 ; ?'7 ,<' '.6 71,4?.6 6.1' 7Q4J.. / >G'
6 '1.8 5.' ;, / / '<>'<7 / 5 7' 1.'< ,J 1'N=4.'< '?1.6
5"1.=4 6 7 ,<' ?'1' #;1 7>." ,EE ; .16, - 561 .01 '47'<7
=4.'E' 1.6.?,411E7Q =4 '?1 66 .71.,,<,;77.'-.K.4@ %
$" % <' ;,<6.=4.<;.8S' 5,16=7E 5 ,J 7'-'6 / 7 >;'
' > 6?,6 7 ,<6 ?'66'J.1.6-'6, 5>K / .'41.6 '>. ?1 .' 7 '
7 ,<6?.1 / '<.<7.68 '=4. ?'71,4 55.61 77 #1. Q
>>E';<. / .<76 ?,41' 5.' / ' <E .4' >.' ,1>1" ,W 5R.61#G'
;47 ,<W>.6 5, 68 ?,5 ;.'>.6 E, 1. 8 / ,E;:>6_,4 ,7 71; '
B.4@?405 ;68 .7;%8 5.6 ,EE ;5.16 ; - 56 1. / .771,<77'4'
;, / / '<>'<7 / 5 7' 1.'4<.' 1.=4 6 7 ,4'6 J<. .'> .4@8
>,<7 5.6 > -.16' ,0Q.7C 6.1,<7 ,1' 1. / .<7 .@?5 = 5#6%.5
>>7' 55#68 .7 >'<6 5'=4.55.' 56 >.6 J<.1,<7 #7.<>4.>.'
641-. 55'<;.' =4 56 ;1, 1,<7 <. ;.66' 1.I' '?1#6 =7 ,'
.@>;47 ,<' >.';.6 > 6?,6 7 ,<68 .7 7;47.6 / .641.6;' '
?'05.6 >.' 5" ?1,;41.18 7.55.6 =4.' ,,<6 J<.68 ?5';.M
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71.6 / ,>.6 > .@. ;47 ,<8 6.1,<7 5' 66>6 '5">6;1.7 ,<'
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46=4 5' ;.'=4 5 54 ' '55 # '<,7 >>'?'1'5.6 ,EE ; ;16 ;'- 56
=4.';.6 6, <6 <.'6,<7 ?546 <.;.66' 1.68 ,4' =< 56 >, '
-.<7 ?1.<>1.'4<.' '471.'> 1.;7 ,<%
" % "E,1;.'>. 'J'1< 6, B' 6.1" 1>J5>.'>.' / ' '
< 1.' ' ;.'=4,'>'<6 5.6 ;'6>4' 6.1- ;.',1> <' 1.',.:'=4.'
,5>'7 > <E<<7.1 ;' ' 7 : <7 44 76 >.' 1.?,68 .7 Q' / ' 6
/ , <6 >.'6 @I' .7 ;:'=4.' :, / / .'>.'71,4?.6 " ;:.-'5
>,40.'<4 76 >.'1.?,68 .7 Q' / ' 6' <, <6 >.'> @8
' 455.' 71,4?.' <.' ?,411" E 71.' ;:'<J>.'>.' 5"
J'1< 6,< =4 ' 54 ' '41" >7.' ' H.; >;' ?'1'5.'1? 8 =4.'?'1'
<' ,1>1.';,<71' 1.'>.' " 'Q;67>8 ,48 >'<6 5.6 ;'6 4< '
J.<768 ?'1' ;.4@ >.6 'J.<76 >.'1'47,1 7>' / 5 7' 1.' '4@ '
=4.56 5.'1, ' .<' '41" >.5>J4.'5"E';457>%
' 3"-$'4 '$,$ * " -(4 $3(*('(. *,') $9+!'
$ $.('4 $$.' (" 3$, 8(* " (,'4 .' (", 4('/ 5+ + ,+*,'
5 ((" + . * -,-' 4.-+ $((*,'4) $-(" ;' ((" '3!'
. *,'$*- (+##$36(3'/ '$ (.'$ 4 .,+*3('$3,$.'-$$.-(

.@ J.I' 5.6 ?405 ;'7 ,<6 .7 'EE ;:.6 6.1,<7 E' 7.6 ?'1'
P.6 / 44 ; ?'5 7>68 .7 5.6 E1'Q6' .<' 6.1,<764??,17>6 ?'1'
.55.6%   8 I
' % " " % '<6 ;:'=4.'?5';.'>.'J4.11.',5' 5V '41" J'E'
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?,67.6 / 7' 1.6 =4 ' < ,<7 ?, <7 >.' / << ; ?'5 7.68 .7
>'<6 5.6 ?1 <; ?'5.6 J'1< 6,<6 >.' <7>1 .<18 5 V '41"
7 <'6.;1.7'1 '7 / 5 7' 1.' ,4' 6.1,<7 >.?,6.6 5.6 >. ;1.76
.7 1.J5.7<. 6;,<;.1<'<71'1 / ..I' .7 .1' ,1 J <' @ .6
,1>1.68 ;,<6 J<.68 1.=4 6 7 ,<6 .7 '471.6 ,0Q.76 >.;.'
J.< .'1.5'7 E6 '4' 6.1- ;.'>.'5"?5';.%
" " % > J'1>.' .7 5.'6, ' >.' ;.' 6.;1.7'1 '7 6.1,<7
;,<E .6 ' 7 <'6.;1>7' 1. >;1 -' <' <, 7 / .' ?'1' 5.' 1, ' .7
'66.1 / .<7>'?'1 >;-'<7 5.';, / / 66' 1.'>.6 J4.11.68 $
" " % 47' Q7=4. ' 1.6.'?,411" ; / ?5, >.6.;1>'
7' 1. >;1 -' =' E .'6.1">,< .=4 '>.6 64Q.76 =4 ' '41,<7
.7;'6, 76 ,EE ; .16%>'<65.671,4? '>.'5 J<.%
" " % .6 6.;1.7' 1.6 .;1 -' <6 <.' 1.;.-1,<7 >;
,1>1.68 =4'<7 5.41' 6.1- ;.8 =4.'>.' '47,1 7>' / 5 M
7' 1.'I' .78 ?,41'7,46 5.6 ,0Q.76 =45 < <7>1.66.1,<7 =4.'
;.'6.1- ;.8 56 <.'6.1,<7 Q467 ; '05.6 =4.' >.6 71 04' %
<'4@ / 7' 1.6% % %
" " % .6 6.; >7' 1.6 >;1 -' <6 Q,4 ,<7 g'??, <7.'
/ .<76 ?1,?,17 ,< .6 9 .7.<>4.' >.6 E,<;7 ,<6 =4 56
'41,<7 '1. / ?5 1' >'<6 5.]'?5';.68 ?,67.6 ,4' J'1< 6,<6
'4@=4.56 556 6;14<0 '7 >44;6%
" " %% 4' ;,<6.=4.<;.' 56 6.1,<7 1>?'17 68 =4'<7
'4@'??, <7.. // .4768 .4'71, 6 ;5'66.68 ' 46 '=4 5 64 7I
6'-, 1' 8
C '>.'?1. / .1.';5'66.8 '4@'??, <7. / .476 >.' %
?'1' '<8 .<6. / 05.')8 '5 -% A%
U '>.'6.;,<>.';5'66.8 '4@'??,5<7. / .:76 >.' %
?'1' '<8 .<6. / 05.'CU8 '5 -% %
9 '>.'71, 6 / .';5'66.8 '4@'??, 7 7. #<76>.'U %
?'1' '<8 .<6. / 05.'CU / <.'5 -8
% 7□ '6.;1.7' 1.6 >;1 -' 7 68 ;, 5' 7 .<6. / 05.'?'1' '4'
5'6, / / ; E.9*8 5 -% G' $$ ' <' ' ' ' % ' GZ8
!' 88" " 5:'55%6.1">' J< '>'<6 .6 0 7 1'.<76 7< 5 7' 1.6
$>. #0'=4 E?5' ! . <%. / ?5';. / .<7 64E5 6'<7 ? 41 ;IJ
.-'7'1 '7 .78E,I5 J. / .<7U<'6. / .7' 1.1.;- -'7<%Z< ?8
Qi-" " 5 % ,1J=4 4<.71,4?.' '11 -.1" >'<6 4<.'?5', .%
.55.'<.'?,411" ?1.<>1.'?,66.66 ,<' >.68 5 J. / . 7.' =4'
5 '6.1. 7 >.67 4.6 '=4 '?1 % =4.>.R8;,1'1,c ' N=' '.'
J4.11.6 '41" E' 7 ?40E .1% .6 :''6J'5'>7E < , ?77 %.<Q6"
?1.6.<;.'?'1'5.'6.;1.7' 1. .;1 -' % %& $ 0
" " "% #.6 0'<.' 1'??.55.1,<7 K,? ^6.45=< .< 7 5.6
5, 6 J.<> '5.6 >.'?,5 ;.' .7 >.'> 6; ?5 ?.@ [, 6 D1.'
,.55.6 ?'17 ;45 .1.6'5" ?5';.8 % 7 % .' 7 <'
" " "% .6 ,E ; .16 / 4< ; ?'4@ 6.1,<7 5.<46>.'>.< '
<.1;,<<' 66'<;.'>.';.6 0'?6 '4@ :'0 7'<76 >.'5" ?5';.%
" " " % .'?546 ' ; .< T>.6 1 7 .<7 @1 <E'EE57.1 .
E,'<=' 6.'=4 '6.'71,4-.1,<7 .<' J'1< 6,<' ' '-.;'>.6 &1.M
J / .<76 > <E'<7.1 .' .71'<J 1.' ?1.<>1" 7,4Q,416 5.'
1'<J' 641' ## ' >.1< .16% .6 '<E.1.6 1. J / .<56 > <E'<'
.1 .E1'<;' 6.' .7 .71'<J.1.8% >'<6 5'% / / .'J'1< 6,<8
?1;<>1,<7 .<64 7.'7'<J.<71.'.4@ 6.5,<' 5" >'7.'>.'5.41'
;1.'7 ,<% 8 ' 8 '
" " " % .' 6.1,<7 1.?47.6 1.J / .<76 > <E'<7.1 .'
>71'<J 1.'=4.';.4@ =4 8 #<' -.174' >.'71' 7>68 6.1,<7
E,41? 6 ,4' '-,4.6 ?'1' <.'?4 66'<;.' .71'<J 1;% ,16 '
<4.'5.6> 76 1.J / .<76 .'71,4-.1,<7 .<' J'1< 6,<' '-.;'
7 .6 1. J < .:76 > <E'<7.1 .'E1'<;' 6.8 5.' ;, / / '<>. '
/ .47 / 5 7' 1.'>.'5" J'1< 6,<' '??'17 .<>1'8 2' J1'>.'
.J'58 " ,EE ; .1'>.6 71,4?.6 E1'<J' 6.68 =4.55.'=4.'6, 5
6,<' '<; .<<.7. >'<6 ;.'J1'>.%
% " " " 8 '<6 7,46 5.6 ;'6 ,:'5.6 J'1>.6 4'7 ,<'5.6
6.1- 1,<7 '-.;'5.6 71,4?.6 >.'5 J<.8 5.6 J'1>.6 <'7 , '
<'5.6 ?1.<>1,<75.'1'<J641'7, 7.6 ' ' '5 J<.%
" " " % ,16=4.' #6 J'1>.6 <'7 ,<'5.6 6.1- 1,<7
> .;'5.6 71,4?.6 >.'5 J<.8 :,4<.41' >4' 1'<J' =4 ' .67
1.6.1-.''4@ ?1. / :1;6 < ;< ?>.:.1" ?'6 =7 .'5.';, / '
/ '<>.1'.<7 J.<.1'5 <.'6, 5 7,4Q,416 >.5 .1.' " ,EE ; .1'
5.' ?546 '<; .< >'<6 5.' J1'>.' ;' ?546 .5;->' >.6> 7.6
71,4 '>.'5 J<.%

" " " - ,47.6 5.6 E, 6 =4. 5.6 J'1>.6 <'7 ,<'5.6 $
6.1,<7 / 6.6 .< ';7 - 7>8 .55.6 <. ?,411,<7 >71. 1'6
6. / O5>.6 =4 '4 ?1>'5'O5. 5.6 ,< ; .16 ; - 56 < .<
' .<7 '-.17S 5. ; , / / '<>'<7 / 5 7' 1.%
" " " .6 ; , / / '<>'<76 / 5 7' 1.68 >'<6 5.6 ?5'M
;.6 , 5.6 J'1>.6 <'7 ,<'5.6 E.1,<7 5. 6.1- ;.8 >. / '<
>.1,<78 =4 5 '??,17 .<>1'8 5. <, / O1. > ,EE ; .16 .7
>. 6,5>'76 >.6> 7.6 J'1>.6 <'7 ,<'5.68 <. ;.66' 1. '<
6.1- ;. / 5 7'Q1.I / ' 6 5.6> 76 ; , / / '<>'<76 <. P,W1
1,<7 6 <J>1.1 >'<6 5. >>7' 5 >.6 ,EE ; .168 6,46 ,E5
; .16 .7 J'1>.6 <'7 ,<'5.6 =4 >. -1,<7 / '1; : .1I 7,47.6
5.6 > E5 ;45E>6 >.%; . J.<1. >. -'<7 >71. ?,17>.6 " 5" >.M
; 6 ,< >. 5.416 ?EE ; .16 64?.1 .416 , >.6 / 4< ; ?'5
7. 68 6.5,< ;W =4 6.1' 1>J5> ; .7 >J'1> ?'1 5. > . ;1.7%
; ,<; .1<'<7 5d, 1J'< 6'7 ' : >.6 J'1>.6 <'7 ,<'5.6%
" " " % , 16=4. 5.6 J'1>.6 <'7 ,<'5.6 E.1,<7 5.
6.1- ;. / 5 7' 1.8 5.6 : ,<<.416 / 5 7' 1.6 6. 1.<>1,<7
1>; ?1,=4. / .<7 .<71. .55.6 .7 5.6 71,4?.6 >. 5 J<.8
64 -'<7 ; . = 6.1' 1>J5> ?,41 ; .6 >.1< .1.6%
" " " % .6 : ,<<.416 / 5 7' 1.6 >7'<7 >'<6 '1
/ >. 4<' ';7. >. > 6; ?5 <.8 4< 6 J<. .@7>1 .418 >.67 <>
'1'??.5.1 .7 " ; ,<6.1-.1 6'<6 ; .66. ?'1 / 5.6 71,4?.6
5" 6,4 / 66 ,< / 7,1 5> O J 7 / .8 5" ; ,<6 >.1'7 ,<
<. ; .66' 1. ?,41 5.6 ; : .E6 .7 5. 1.6?. ;7 ?,41 5.6 ,OQ.76
>4 6.1- ;.8 .1,<78 ?'1 ; .6 / > / .6 1' 6,<68 ' ; ; ,1>.68
: ,16 >4 ; ,1?6 / 5 7' 1.8 7 71. > : ,<<.41 ,< >. > 6M
7 <;7 ,< ? O5 =4.8 '4@ ,OQ.76 >4 ; 45E.8 "5" ?.16,<<.
>4 1, 8 ' ; .55.>.5 : >1 7 .1?1>6, / ?7 E>4 71><.8 5,16
'4 5 '41' '77' <7 5 J. >. / 'Q,1 7> & @> ?'1 5.6 5, 6I
; '<6 5. ; '6 >. / <,1 7. >4 1, 8 '4 1>J.<7 >4 1OV'4 / .8
'4@ ; ,1?6 '> / < 671'7 E68 Q4> ; ' 1.6 .7 / 4< ; ?'4@8
'4@ ,EE ; .16 <7 < ; ?'4@ <> - >4.55. / .<7?1 68 5,16
=4.8 1.->746 >4 6 J<. > 65 <;7 E >. 5.416 ?5' ; .68 56
6.1,<7 >'<6 . " .1; ; . >. 5.416 E,<;5 ,<6I .7 '4@ ?1 <M
; .6 1>J<'<7'8 ' <6 =4 " 5.416 ' / O'66'>.<16 ,4 /
< 671.6Q 5,16J<. 5K. 1, '41' 6?>; '5. / .<7 >,<<> >.6
,1>1.6 " ; .7 .EE.% 8 8 88 I
% " " " " 8 .6 : ,E <.416 =4 6. 1.<>1, : 7 .4Q 'E; ,1?6 .7
' @ 1P> - >468I'J.<56 8>4 ?,4-, 1 ; - 5 8 6.1,<7I 6'
@, 1 8 ?,41% 8 ; ,1?6 '> / / 671'7 E6 8 Q 1> ; ' 1.6 .7
/ < ; ?'4@8 5.6 1<> / .6=4 6.1,<7 'EE. ; 7.6 '4" / '1>
%;5 ' @ ?. ; ' / ?. / ?5,V.6I 8.7 ?,41 5.6 ,EE ; .16 / 4 /
Q; ?'84@88 <> V QQ .5P.? .1 7 Q.6 / / .6 =4. ?,41
QcQ 8; '? 7' <.6 F F
" 58%d%.6E9 : ; <, : 6 >.5" J.<>'1 / .1 . <'7 ?<'5.>7' 7
c# 6.<7 .55.? c. : 78> I7 <;7.6 > 6.1- ; . ?41. / .47 / 5
7' 1; > 51?I4?.6 . J'1< 6,<8 5" J.<>'1 / .1 . <'7 ,
: '5. <. 6.7" Q' / ' 6 1.J'1>. . ; , / / . ?,17 ,< >. 5"
%J'1< 6?< >#' >'<6 5.6=4.55.6 .55.6.1" 1>?'17 .%
S888 : ; ,<6>=7 .<; >. 5" > 6?,6 7 ,< ?1>.>>.<7.8
Q.6 ,EE ; .16 >. 5" J.<>'1 / .1 . <'7 ,<'5. <. ; ,<; ,<1
J, 7?, <7'4 ; / / '<>. / . 7 / 5 7' 1. >'<65.6?5' ; .6%
% " 55E '<6 5.6 ?5' ; .6 >. J4.11. .7 ?,67.6 / 5 7' 1.68
,7>1; .7 5d / ,76.1,<7 7,4Q,416 >,<<>6 ?'1 5. ; , /
d / < >'<7 / 5 7' 1.I .7 >'<6 5. ; '6 , : E.6 J'1>.6 <'7 ,
<'5; 6 E.1,<7 =4.5=4.5 6.1- ; . >'<65" ?5' ; .8 5. / ,7 6.1"
?,17; ' ?'1 ,E5 ; .1 ,4 5. 6,46 ,E5 ; .1 >.6 J'1>.6 <'M
7 ,<'5.68 =4 ' 51" 1. . " ,1>1.8 '4 ?1 <; ?'5 ,E7Q
; ; 1 / / 4; ?'58 ,4 '4 ; , / / '<>'<7 >.6 J'1>.6 <'7 ,
< 5.68 6; ,< ;# =4 6.1" 1.J > ; .7 . J'1> ?'7 5. >>;1.7
> ,1J% 7 6'5 ,< >. J'1>.6 <'7 ,<'5.6%
" >5 % '<6 5.6 J'1< 6,<6 >. <7.1 .7 18 .7 >''6 7,<6
5.6 O; @ =4 '<. 6.1,<7 < ?5' ; .6 >. J4.11.8 : '?,67.6
/ 55 7< 1.6 8 5,16=<. 5.6 71,4?.6 >.8 5 J<. 6.1,<7 1.=4
1%S ?,41 E' 1. 5. 6.1- ; .8 ; ,<Q, <7. / .<7 '-. ; 5.6 J'1M
>.6 <'7 ,<'5.68 ,4 =4. 5.6> 7.6 71,4?.6 >. 5 J<.8 .<
W;1, 7 ; : '1J. .6 6.45.68 5. ; , / / '<>. / .<78 ,1>1. .7
. / ,5%6.1,<7 >,<<>6 ; ,<E,1 / . / .<7 " ; . =4 .67 ?1.6
;1 5 '4@ '17 ;5.6 ; >.66468
" % ' 6 5,16=4.8 >'<6 5.6 - 55.6 ,4 '471.6 5 .?@
=4 5 . 6,<7 < ?5' ; .6 >. J4.11.8 <'?,67.6 / 5 7' 1.6
5.6 ;% 1>.6 <'7 ,<'5.6 6.1,<7 6.45.6 ; : '1J. .6 >. '5'
(1> ; ; 7 >. 5" ?,5 ; . >.6> 76 5 .4@8 6'<6 ?'17 ; ?'7 ,<
.] 71,4?.6 > ; 5 J<.8 '5,16 5. / ,7 6.1'8 6.5,< 46'J.8

; , / ?,6. >. >.4@ '471.6 / ,768 >,<7 5. ?1. / .1 6.1"
>,<<. ?'1 5. ?1 <; ?'5 ,E5 ; .1 / 4< ; ?'58 ,4 ?'1 5.
; , / / '<>'<7 >.6 J'1>.6 <'7 ,<'5.68 6.5,< ; . =4 6.1"
457.1 .41. / .<7 1.J .I .7 5. 6. ; ,<> ?'1 5. ; , / / '<M
>'<7 >.6 71,4?.6 >. 5 J<.%
" % '<6 5.6 ?5' ; .6 >. J4.11. .7 ?,67.6 / 5 7' 1.6
.< >7'7 >. ?' @ .%7 >'<6 5.6 J'1< 6,<6 >; <7.1 .418
5,16=4. 5.6 ' 7,1 7.6 ; - 5.6 .7 / 5 7' 1.6 6.1,<7 >'<6
5. ; '6 >. E' 1. O'771. 5" J <>1'5. ,4 6,<<.1 5. : ,47.
6.55. ?,41 5. 1'66. / O5. <.<7 >.6 J'1>.6 <'7 ,<'5.6 ,4
>.6 71,4?.6 >. 5 J<.8 .55.6 >. -1,<7 '4 ?1. '5'O5. 6 .<
?1. - .< 1 1>; ?1,=4. / .<78 6'4E 5.6 ; '6 >. 641?1 6.8
> <; .<> . ,4 > <,<>'7 ,<%
" % .6 ;5.E6 >. 7,47.6 5.6 ?,15.68 ?,7.1<.68 '<M
<'J.68 '=4.>4;6 W7 '471.6 ,4-.1741.6 =4 >,< .47
.<71. . >'<6 5.6 ?5' ; .6 >. J4.11. ,4 ?,67.6 / 5 7' 1.68
6.1,<7 7,4Q,416 ; ,<E . .6 '< ; , / / '<>'<7 / 5 7' 1.%
" 55% 7 1.?.<>'<78 ?,41 5" E' ;55 7> > ; , / / .1; .
.7 5" ; , / / ,> 7. >.6 : 'O 7'<76 .7 >.6 V,V'J.4168 5 V
'41" >'<6 ; : '=4. ?5' ; . 7 ?,%67; >. J4.11. 4< ; .17' <
<, / O1. >. ?,17.6 ?'1 5.6=4.55.6 5" ; ' / / 4< ; '7 ,< >4
>.>'<6 '4 >. : ,168 E7 >4 >. : ,16 '4 >.>'<68 ?,411" 6.
E' 1. >'<6 " 7,47.6 5.6 : .41.6 >. 5" <4 7
; , / / . >4 Q,41% .6 ,EE ; .16 ; - 56 .5 5. ; , / / '<>'<7
/ 5 7' 1. 6. ; ,<; .1E.1,<7 641 ; .55.6 >.6> 7.6 ?,17.6 =4
6.1,<7 'EE; ; 7. .6 " ; .77. >.67 <'7 ,<8 641 5.6 E,1 / '5 7.
" 1. / ?5 1 .7 5.6 ?1. ; '47 ,<6 " ?1.<>1. ?,41 >- 5.1 5.6
'O46I .@. ; 47 , >. ; .6 > 6?,6 7 ,<6 '??'15 .<>1" 7,=
Q,416 '< ; , / / '<>'<7 / 5 7' 1.%
" 5% ,16=4. 5.6 ; 1; ,<67'<; .6 .@ J.1?<7 4<.
641-. 55'<; . ?546 ?'17 ;45 .1. >. 5" ?'17 >.6 ,EE ; .16
; - 56 .5 / 5 7' 1.68 5 ?,411" V '-, 1 " ; : '=4. ?,17.
>.6 ?5' ; .6 >. J4.11. 4< ?1.?,6. ; : , 6 ?'1 5" / 4< ;
?'5 7.8 5.=4.5 6.1" ; : '1J> >. 1. ; .-, 1 >. 7, 6 ?'17 ;4
5 .16 '11 -'<7 >'<6 5" ?5' ; . 5" >. ; 5'1'7 ,< >. 5.416
<, / 6 .7 =4'5 5.68 ' <6 = . >. '4O.1J. ,4 / ' 6,<
?'17 ;45 .1. >'7 6 5'=4.55. 56 6. ?1,?,6.1,<7 >. 5,J.7%
#.6 1.<6. J<. / .<76 6.1,<7 ?,17.6 '4@ ,EE ; .16 / 44
. ?'4@8 .7 5. ; , / / '<>'<7 / 5 7' 1. ?,411" ,1>,<<.1
'<@ , , / / ' >'<76 >.6 J'1>.6 >.6 ?,17.6 >. E' 1. '6
6 67.1 4< 6,4671,E5 ; .1 ' 4I >. ; 5'1'5 ,<6 =4 6.1,<7
E' 7.6 ?'1 5.6> 76 ?'17 , 5 .16'11 1'<7 >'<65" ?5' ; . 7
>; 54 .< 1,<>1. ; , / ?7; %8 % 8Q % V 8
'4" "- ,=7 ?'17 ;45 .1 =4 6.1' '11.5. ?,4 E' 7>.
>>6.1>1.8 >. ; ,7 71,- . ,7 ,< '4@% ,68 ,< " 5" ?,5 ; .8
6.1" 1. / 6 6,<6 >.5' 8 5. ; 7,V; < " 5" ?,5 ; . ; - 5.8 Q4
/ 5 7' 1; " 5'?,O ; . / 5 7' 1.8 ?,41>71. ; : ' ;4<864 M
-'<7 .6 ; 1; 3?67'<; .6 .7 " <'741. : >,5 71 1.4-,V.
>4@ 7E O4<'4@ ; - 56 ,4 / 7' 1.68 J * % [% %
% ,47.6 E. / / .6 ,4 5 .6 ,7, a; < .<7 ; ,<<4;6
?,41 / .<.1 4<. - . >.O'4; : .. 8 =4 6.1,<7% 641?1 6.6
'-. ; 5.6 6,5>'76 >'<6 5.416 =4'15 .168 5,16=4 56 6;1,7 7
>. 6.1- ; .8 ,4 '?1 6 5" 1.71' 5. / 5 7' 1.8 6.1,<7 : 11.
7; .6 .7 1. / 6.6 6'<6 >>5' " 5" ?,5 ; . ; - 5.8 ?,41 >71.
Q4J. .6 ; ,<E,1 / > / .<7 '4@ 5, 6%
% .6?1 6, 6 / 5 7' 1.68 ' 7'<7 =4 5 6.1" ?,66 O5.8
6.1,<7 7,4Q,416 6.?'1. .6 >.6 ?1 6,<6 ; - 5.68 8 \ 8
55% . ; , / / '<>'<7 >4<. 71,4?. .< <'1; : . 6.1"
7.<4 > <E,1 / .1 5" / >< ; ?'5 7. >4 5 .4 , : ; ,4; : ;1"
6" 71,4?. >. : .41. " 5'=4.55. 5 5" E.1" ?'17 1 5. ; ?
>. / ' <% <. >. / : .41. '?1.6 6,< ; 7,V; 6
<. ?,411,<7 ?546 ?,17.1 >. '?5' <7.6 ; ,471. .75; I .5 6 8
?,77>'<7 ; . 7. / ?68 5 < V .< " '4;4 ; >. ?,17. .8 "
/ 4< ; ?'5 7. <. ?,411" 5.E46.14< ; ;17 5 ; '7 >. 'O ; ?
- -1. " ,EE ; .1 >. '5'> 7. 71,4?. =4 '41" >4 1.67; 1 "
; .7 .EE.7%
5 % ,47. 71,4?. .< / '1; : .8 ,4 ?1>7. " / '1; : .1
.< ; ,<6.=4.<; . >4< ,1>1. >4 1, 8 <. ?,411" 8 6, .<
7,7'5 7.8 6, 5 .<? [5 .8 >71. >.7, / . >. 6" >.67 <'7 ,<
=4. ?'1 4< ,1>1. ; ,<71' 1. >4 1, 8 ,4 >. ; .4@> @
=4.56 7 ; < '41" >. 5>J4. 5" E' ; 457.% d
% 4; < ; ,1?6 '> / < 651'7 E<. ?,411" > 6?,6.1
>; 6 / 4< 7 ,<6 > ; J ;11;8 6406 67'<; .68 .7> '4;4<.'E6
?E. ; . > .EE.568 '1 / .6 ,4 E,41< 741.6 ; ,<E >6 '4 >>?=1

7. / .<7 >.'5'' J4.11.8 <7 ; : '< 1 5.41 >.67 <'7 ,<8 < ' E
. / ? ; : .1 5.41 71'<6?,17 5. J' . / .<7 ,1>,<< %=4 .<
-.174 > <<.''47,1 6'7 ,< .@?1.66.>4?,4-, 1 .@.;47 E%
% .6 E,<>6 '5E.;7 6 '< >.?'17.< .<7 >.'5'' J4.11.
7'<7'' 5'' 6.45. > 6?,6 7 ,< >4 / < 671.8 6,466'1.6
?,<6'0 5 7.8 5.6 ;,1?6 '>< < 671'7 E6 <.'?,411,<78 >'<6
'4;4< ;'68 > 6?,6.1 >.6 E,<>6 -.16.6 .<71.'5.6 / ' <6
>.6 711 6,1 .16 >4 >.?'17. / .<7 >.'5'' J4.11.8 < ',1>,<_
<.1 '4;4<.'>.?.<6.641 5.6> 76 E,<>6%
5% 45 ,EE ; .1 .< ';7 - 7.'<.'6.1'' 7.<4 >.'?'V.1
6'' ?'17 >.6 / ?,6 7 ,<6 > 1.;7.6 .7 ?.16,<<.55.6 >'<6
6'' J'1< 6,<8 =4 '47'<7 =4 .5 .'6.1' 7 .< / > / .'7. / ?6
.'5 .4 >.'6,< >, / ; 5.': '0 74.5 ,4 >.'6.6 ?1,?1 .7.6%
55% ,<6 5.6 . / ,54 / .<76 ' ; ; ,1>.6 ?'1 5.]''<; .<
<.6 ,1>,<<'<;.6 <P 5 7' 1.6 '4@ ,75 ; .168 >.'=4.5=4.
J1'>.'.7 '1 / .'=4 56 ?4 66.<7 971;8 6,<7 .5 >. / .41.
1,<7 6 ??1 / .6%
% ,47 / 5 7' 1.'.< ';7 - 7.'<.'?,411''?,17.1
> '471.': '0 7 =4.'6,< 4< E,1 / .'>'<6 5.6 5 .4@ >.'6,<
6.1- ; .% G G
"% .6 ,E5 ; .168 5.6 6,46 ,E ; .16 .7 5.6 6,5>'76
<.'?,411,<7 >,<E .1 >.6 1.?'6 >.' ; ,1?68 < ' .< 1.; .
-, 18 6,46 =4.5=4.'?1.7.@7.8 .7 >.'=4.5=4.'?'17 =4.
; .'6, 7%
"% '<.'?,411'' 71.'E' 7 '4;4<.'1.7.<4.'641 5.6
'??, <7. / .<76 >.6 ,E5 ; .168 6,46 ,E5 ; .16 .7 6,5>'768
6,46 ?1.7.@7.'>.'>>?.<6.6 >.' ; ,1?68 >.'=4.5=4.'<'741.
=4 .5 .6 6, .<78 .@;.?7> ; .55.6 =4 '6.1' .47 >.67 <>.6 >
?'V.1 '>.J1'>'7 ,<6 ; ,< / 6.6 ?'1 5.6 71,4?.6 >'<6
5.416 5,J. / .<#68 ,4 7,47.6 '471.6 <>. / < 7.6 >4.68
6, 7 '' 7'78 6, 7 '4@ ?'15 ;45 .168 ?,41 1.?'1'7 ,< >.
>,1' / 'J.68 >.6,1>1.6 ,4 .@;.6 ; , / < 6 ?'1 5.6> 7.6
71,4?.6%
"5% , ,7 / 5 7' 1.'.< ';7 - 7.8 =4 ' >7'<7 / 'Q.418F
'41'' ; ,471';7.'>.6 .<J'J. / .<76 ?>;4 ' 1;6 ?'1 5.771.6
>.' ; : '<J.8 0 55.76 '' ,1>1.8 ,4 ?'1 7,47.''471.' .6?>..
> ,05 J'7 ,< . / ?>17'<7 5'' ; ,<71' <7.'?'1 ; ,1?68 .%7=4
>7'<7 5' 66> ?,4164 -1.'?,41 5.'?' . / .<7 >.'6. / 05'\ N
05.6 >.77.68 '41'' .7> ; ,<>41'<> ?'1 . ,1?6 '<.'?,411''
1.67.1 '4 6.1- ; .% '' 6.<7.<; .'?1,<,<.>.' ; ,<71.'54
>=4 -'4>1''"4<.'>> / 66 ,< ?1>; 6.% ' '\
% " % .6 ' ;7 ,<6 1>6457'<5.6> ,05 J'7 ,<6;0<71'#d
7>.6 ?'1 4< / 5 7' 1.'E.4 >.7 - 7> <;'?,411,<7 % 71.
?,4164 - .6 =4.'?'1 >.-'<7 5.6 / 'J 671'76 ; - 56 8 .7
6.1,<7 ?'1 .4@Q4J>.6 ; ,<E,11'. / .<7 '4@ 5, 6 ; - 5.68
6'<6 =4.'5.6 ,E5 ; .16 < '5.6 Q4J.6 / 5 7' 1.6 ?4 66.<7 .<
?1.<>1.' ; ,<<' 66'<;.8@ ' ; .'< .67 '' ' / >.8 .7 : ,16 >4
1,V'4 / .8 6'<6 =4 56 ?4 66.<7 <,< ?546 '??,17.1 ''4M
;4< ,067';5.8 6, 7 2 5''?,4164 7.8 6, 7 '' .@.;47 ,< >4
Q4J. / .7 7%
"555% .'?,411,<7 >71.' ; , / ?1 6 >'<6 5.6 6' 6 .6 .7
1.<7.6 =4 ''41,<7 5 .4 .< .@>;47 ,< >.6 Q4J. <.<76
1.4>46 ; ,7 71.'>.6 / 5 7' 1.6 .< ';7 - 7.8 5.416 '1 / .6
.7 ; : .-'4@ > ,1>,<4'<;.8 < '5.416 5 11.6 .7 <6714M
/ .<76 >.'6.1- ; .8 < '5.6 ?'17 .6 >.'5.41 : '0 75. / .<7
.7 >=4 ?. / .47 >,<7 5.6 ,1>,<<'<;.6 / ?,6.<7 '' 7,46
/ 5 7' 1.6 5''<>..66 7.'>>71.'?,41-46% .416 '??, <7.
/ .476 <.'?,411,<7 <,< ?546 >71.'6' 6 68 =4.'?,41 ; .
=4 ' .< .@.>>.1'' 5''6, / / .'>.'9 '5 -1.6I 5'=4.55.'5.41
'. / .41.1'' 1.6.1->.8 6'<6 ?1.Q4> ; .''4@ #1. '<; .16 ''
;@;1; .1 5.416 >1, 76 641 5.6 '471.6 0 .<68 / .405.6 .7
/ / ;405;6 >.'5.41 >.0 7.418 64 -'<7 5.6 1>J5.6 .7 .6
E,1 / .6 ?1.6;1 7.6 ?'1 5''5, %

- ' %!

"' ' ' ' ' #
* !! ! ' ' '1 ' ' A
&
'1 ' ' '& ' ''0

. '5WG % ,46 5.6 >7'05 66. / .<76 .7 5,J. / .<76 / M
5 7' 1.68 ' <6 '=4.'5.416 ' / .40 ; / .<76 .7 467.<6 5.6 ' ;
7<;55;< ;<7 .@ 67'<76 >'<6 5.6> 76 5,J. / .<76 .7 .7'
$ 55 GG< /<@1E5; <G ;< 7 < Y 9 'R5 -?1;'<5 ?7;

'??'17 .<<.<7 '' 7'7 ,4'4@ ; >.-'<7 ?1,- E5..6 .7
'4@ - 55.6I 7,46 5.6 7.11' <6 .7 . / ?5';. / .<76 / 5 7'
1.68 7.56 =4.'.6?5'<'>.68 / '<>J.68 ?,5 J,<.68 .7;% 8
>,<7 7'7 .67 5.J 7 / .'?1,?1 >7' 1.8 6.1,<7 ; ,<6 >>1 >6
>>6,1 / ' 6; , / / .?1,?1 >7>6 '7 ,<'5.68 .7; ,< : >6 .< %
#.77.'=4'5 7.''4 / < 671.'>.'5'' J4.11.'?,41 .<'6641 .
5'' ; ,<6.1-'7 ,< .7 #<71.7 .<%
% .'6.1,<7 ?, <7 ; , / ?1 6 >'<6 '17 ;5.'?1>.>>.<7
5.6 0>7 / .<76 .7 . / ?5' ;. / .<76 = . . / < 671.'>.'5''
J4.11.'<.'Q4J.1' 7 ?'6 <>..66' 1.6 '4 6.1- ; .'>.' '1
/ ..8 5.6=4. 6 6.1,<7 >'<6 ; .';'6 1. / 6 '4 7 ; ,1?6 '>
/ < 671'7 E68 ?,41 E' 1.'?'17 .'>.6 ?1,?1 .7.6 <'7 ?<'
5.6 '5 > '05.6% 6 5]''??'17.<' .<7 ; >.-'<7 2 7'7I .7
>'<6 5.' ; '6 ,< 56 '41' .<7 '??'17.<4 '4@ ; >.-'<7
?1,- <;.6 ,4 '4@ 1 55.6 .55.6 ; ,<7 <4.1,<7 > .< > 1.
?1,?1 >7' 1.6 ' % 8
% '6.1'' >1.66.'>.6 ?1, ; .6 -.V0'4@ >.'7>46 5.6
7.11' <68 0>7 / .<76 .7 >7' :5 66. / .<76 ; ,<6.1->6 ?,41
5.'6.1- ; .'>.' 41 / >.8 ' <6 '=4.'>.6 ' / .40 ; / .<768
.EE.76 .5 E,41< 741.6 =4 56 ; ,<7 .<<.<78 6, 7 =4 56 '?M
?'17 .<<.<7 ';74.55. / .<7 '' 7'78 6, 7 =4 56 '??'1M
7 .<<.<7 '4@ ; >.-'<7 ?1,- <;.6 ,4 '4@ - 55.6% >4.
.@?>>Q5 ,< >.6> 76 ?1, ; .6 1.10'4@ 6.1'' >.?,6>.''4
>.?'17. / .<7 >.'5'' J4.11.8 4<.''471.'6.1'' 1. / 6.''4@
> 1.;7, 1.6 >.6 >>?'17. / .<76 >'<6 5.6=4.5 6.'71,4-.<7
5.6 ,0Q.76 ; >.6646 / .<7 ,<<>68 .7 0,1<..'?,41 ; : '
=4.'>.?'17. / .<7 '' ; .'=4 '5.' ; ,<; .1<.% 7 5'' 71, 6 . / .
.@?>> 7 ,4 6.1'>>?,6>.'>,<65;66.;1>7'1 '76 / 5 7' 1.6
>.6 > EE>1.<7.6 ?5' ; .6 N ; .55. ; '6.1'' 0,1<..'?,41 .0'
=4.'?5' ; .'.4 ?'17 ;4 .1 '4@ ,0Q.76 1.4E.1 / ` %>'<6 5'
'7.'?5' ; .8 ,4 =4 ' .< 6 <7 >>?.<>'<76
% 4 / ,V.4 >.' ; .'=4 '?1. ; .>.8 5.6 >>?.<6.6 > .<
71.5 .<8 1>?'147 ,<8 1. ; ,<6714;7 ,< ,4 '4J / .<7'7 ,<
>.'0 7 / .<768 1.<,4-.55. / .<7 > .EE.76 .7 E,41< 741.6
; ,<; .1<'<7 5.'6.1- ; .'>.' '1 / >.8 =4 8 Q46= '' ; .' / ,M
/ .<7 8 '-' .47 > > 64??,15>6 ?'1 5.6 _ ' >.-'<7 ?1,M
- <;.6 .7 ?'1 5.6 - 55.68 ; .66.1,<7 > 7E.''>5.41 ; : '1J.8
>4 Q,41 >.'5''1. / 6.'=4 ' .< 6.1''E' 7.I 5.6> 7.6 >>?.<M
6.6 >.-' E ' ; , / ?7.1 >.' ; .' <> / .Q,41N8 >71.'6'??,N1
7>.6?'1 '' ?'17 .'>4 7 >6? I ?405 ; ''EE..7>.''4 >.?'1
%7. / .<7 >.'5'' J4.11.% ' E
% .' / < 671.'>.5'' J4.11.' >>V.<'<7 1.6??<6'0E.
&Q4 0,<. / ?5, '.7>.'5'' ; ,<6.1-'7 ,< >.6 >7'0 66> / ;<56
.70>7 / ><76 / 5 7' 1.68 .7 >.6 .E .76 =4 56 1.<E. / .<7
,4 =4 ' .4 6, : 7 >>?.<>'<768 5.6 ; ,1?6 '> / <767 / 7 E6 <.
?,411,<7 >'<6 '4;4< ;'6 .< > 6?,6.18 > / / 6>.1
>'<6 5.41 / '<47.<7 ,< > 4<.''471.' / '< .'=4.8; ;55.
<> =4>.'?'1 .'?1>6.<7 >> ;1.7% ' ' ' S
% '<6 5.6 ?5' ; .6 .7 J'1< 6,<6 =4 ' / '<= .< .
0 7 / .<76 / 5 7' 1.68 .' / < 671.'>.'5'' J4.11# >.6 J<.1''
; .4@ >.6 0>7 / .<76 <'7 ,<'4@ =4 '?.4-.<7 V 64??5. ;18
'7 < =4 .8 6 5 V '' 5 . 8 5 6, 5 6<16 6 '' 5.41 '5 ><'7 ,<8
.7 =4.'?'1 66. / 05>.'<'7 ,<'5.' 56 ?4 66.<7 >51> >.
;5'1>6 '5E.;7>6 '4 >>?'17. / .<7 >.'5'' J4>11.8 .0<4?''
0 7 / .<76 / 5 7' 1.6% 8
% ,47.6 E.6 E,56 =4 4 : '7.11' <'??'17. / <7 '' 4<.
/ 4< ; ?'5 7.' ,4 '' =4.5=4.'?'17 ;4 .1 6.1'' <> ; ;66' 1.
?,41 4< >7'05 66. / .<7 / 5 7' 1.8 5.'>>?'17. / .<7 >.'5''
J4.11.'.<E.1'' ' ;=4 6 7 ,< >.'J '' J1>I .7 > <76 5.' ; '6 d
,'5.'?1,?1 >7' 1.'1.E46.1' 7 >.'.>>.1 6'' ?1,?1 .7.% 5.6
> 1. ; Q0 1.6 >.6 ; ,1?6 '> / < 671'7 E6 6.1,<7 ; ,<64 .6 .7
; : '1J.6 >.' .67 / '7 ,< >.' ,0Q.7 >. / '4>>%
= ' ' ' E

' ' 'N ' -'' - ,46 >71.'>,<<> 5. ;747.'>.
>.4@ 5.771.6 >.' ,<J [V .7 > 4<.'>.' '<7.6%
@ ' '' ' ' ' A 3 ' '
&V3 ' ' ' 'C) ' %%% 8
,71.'01'-.' J'1< 6,< 71'-' 55.' '-.' < ; ,41'J.
-1' / .<7 '> / 1'05.''<,46 < .771.'.< >7'7 >.'>.E.<6.%
,6 1. / ?'176 6,<7 : .1 66>6 >.' ; '<,<68 .5 5.6 1.71'4
; : . / .<76 >.6 ?'1'?.76 ,<7 .7 ; '?1.?'>>6% ?7 ' ; ,1>,< > ;
15G<< ' < %5 ' ' < EE757 / <.' % - EW

[illegible]

[illegible]

! b ʼ / WW ʼB K ʼ5B B / %

D BEX' ' 'A $$, 'BHTB' V' - ! ' ' '6'

E7#a%

G & ' 7,' 9 - ' + ' .' , '?57' <.' .<" ! 1,<8 , 1 .<8 < ,<7'<7 5.' 0 `7 / .<7 @ ;,<-.178 5.' '>4' / , ">.1< .18 4<' 0'6 E,<>' .<71.' 5.' > <:, ' .7 ''0,41J' .< 4.>.% #, /1'.' ' < .67 ?'" E' 7 / .<7 ,< >.' ; .' 0'6 E,<>' >'<6 5" ;'17.' >4' ! '7 J'7 &f4.'5.'?1,E;66.41' ,<6 "?405 ..' '<<..'>.1< .1.8 . ' / 1'47 ' >'<, 6.' - .<7 >.' E' 1.' .@? > .1' >.4@'V';:76 =4 '6.1,<7 / ,<7 '?'1'>.6 ,5B; .16 .@? 1 / .< '0 ; : '1M J.6 >.'5.'1.;,<<'571.'?,41'5"641.7V >.'5" <' - J'7 ,<% .'?1 <;.' #:'15.6 >.' B.66.' .67 '55 '?'66.1'4<' / , 6 >'<6 5.' B,567. < '-.;'5.'?1 <;.' H19>91 ;8 6,< E 56 '5<9% 6 6,<7 ?'17 6 5.'>Z' >.' ; .' / , 68

! B %

F ' ' ' 7 ' j ' % / ?.1 '55V 8 / '1=4 6 > V' 5'68 ;'? 7' <.'>.'5"; , / ?'J< .' 7'5 .<<.>.6 J'1'>.6 >4 ' ;,1?68 .67 <, / / .' ' / 0'66'>.41' "5" ; ,41'>.' 60,<<.8 '5"?5';.'>.' % 5.' ; ,1,7.' >.' # E4.<7.6% .' J,4-.1<.41' .<'6.;,?>'>. '>1 >8 8 >.' K1'<; E,15.' 8 1. / ?5';.' % 5.' / '1=4 6 > V1'6 >'<6 5.' ; , / / '<>. / .<7 >.'6"; , / M ?'J< .% .' / '1=4 6 >.% ! '5'7'<.8 / < 671.'>.'5" ; ,41' $>.' '?5.6 " ..55.'>.' ,174J'58 - .<7 > '11 - .1' . 8 .56.' ?1,?,6.'> .< 1.?'17 1' <,.66' / / .<7 ?,41' J.' 1.<>1.' ' 6">.67 <'7 ,<%

< ; ,<7 <4.'5."<>J, ; '7 ,<6 .<7' / >.6 '-.;'5.' J,4 ' -.1<. / .<7 > 5J.1' ?,41' >-';4'7 ,< >.' 5" E,17.1.66.' > 31'<% .<71.7 .< >.' ; .6 6,17.6 >.'?5';.6 ; ,47.' E,17 ; : .1' " 6?'J<.8 .7 <.'54 ' .67?1.6=4.'> '4;4<.' 47 5 7.% ." J'1< 6,<6 =4.' ,< .67 ,05 J.' > V . / ?5,V.1' 6,<7 '466'E,17 > 6?.<> .46.6 8 .7 ,< 1. / '1=4.' =4.'5" ?546 J1'<>.' ?'17 .'>.6 71,4?.6 .6?'J<,5.6 .67 >'<6 ; .' / , ' / .<7 ; '641'5.6 ; 7.6 > E1 =4.8

! 8 d

' + ' .' > / '<.0.' C9 >4' / , 6 >.1< .1' % 8 K1 5'<, =4.8 : '0 74.55. / .<7 ' <>6,1'>.?4 6=4.5=4.' 7. / ?68 " . / ?5,V.'5"?546 J1'<>.' ?'17 .'>.'5"0,41<..' " 5 1.'5.6 >.?.; : .6 =4.' 5,1 > ! 1.<- 55.' '-'G7 1. ;4.6 >'<6 6.6 041.'4@ =4. =4.6 / , / .<76 '4?'1'-'<7% ' V .< " =4.5=4.6 4<.6 >.' '1 68 / ' 6 5.'?546 J1'<>'<, / 01.' - .' 4' 7>.' 5 . / 'J<.% + .' / / .'0,41'.67 '11 -.'>.' 'M >1 > % H5 <78 ; ,411 .1' >4' ; '0 <.7% < J<,1.'5.' ; ,<' 7.<4' >.6 >.?.; ; .6 >.'5,1>' : .5.<6 8 =4 ' " .@?.> ' f / ' 6 ,< 6.'E5'77.'=4 .55;6 '<<,<;.<7 .<7 .1' ' ; ; , / ?5 6:' 6;1'.<7 >.'5" ; ,<-.<7 ,< 1.5'7 -.' " 'EE' 1.'>.' ,7 ' ' ,4<>'8 ;'1'6' 6?'J<.'> EE.1' 7 71,? " ?'V.1'5.6 < ' >. / < 7.6 ; ,<-.<4.68 <J5.7.11.' 8 =4 ' 6.' 71,4-.' .< ?,6 7 ,< >.' V E,1; .18 5.' E.1' E;'?1,0'05. / .<7% +' < ; ,411 .18 ?'17 '>.' 5'<8 .7 ?,17.41'>.6 5.771.6 >.'5,1>' 5J < 8 " 7.' 4< ?.4'1.7'1>.' " #'5' 6 ?'1'5.6 ,1>1.6 .7 5.6 =4.67 ,<6 >.'5" / 4< ; ?'5 7.'>,' ; .77.' - 55;8 >,<7 .' -.<. / .<# >4' C ' 0467 E ' 7 '66.0 ' >.E '<; .% 66 7,# '?1.6 '11 - ..' ' ; ' ; ,4 .1' 5V " .4' ; , < 6 . 5. 7'5.6 / < 671.6 .< ,<7 .<- ,V>'5.'1.6457'7 " <>6,1%

.6 <,4-.55.6 >.' ,176 / ,47:8 .< >'5.'>4' C '8 ?7 ' 6.<7.<7'5"E5,77.'>>-.5,?? .'641'4<.'5 J<.'> .<- 1,<'4<.' 5 .4.'.7 >. / .'> .7.<>4.'>.' .67 " ;4.67% 34'<7 7 5" ?.7 7.' J6;'>1.' >.67 <..' ?,41' 1; : ?.58 >.6 ,1>1.6 >.' ' / 1'47.' ,<7 ; ,<71. / '<>..'>'<6 5" / '7 <..'>4' C 8 .7 ,< '77;<>' 7 5.'1, ' .7 6"E' / 55.'?,47'5.' ; , / / .<; .8 5' .<7 >.'04 55.7% < ; ,<6.=4.<; .' ,< "E' 7 5.6 ?1.?'1' ' 7 E6 <. ; .66' 1.6 >'<6 5" < ' 6,< >4' J,4-.1<.41%

4 - '<7 ?546 .4160,41<'4@'>.'?1, - <; .8 ' <6 '=4 4<.' E,45.'>.'5.771.6 ?'17 ;45 1.68 '<< - .16' 1.'>4' U04 55.7 6.1" ; .5.01.' >'<6 ?546 >.' ; <=4'<5.' .<>1, 76 ?'1'5.6 ' / 6 '-,4.6 >.5"5 0.17.; - 5..71.5 J .46.8'4@=4.564<

' ' ' + ' < ' ' .

7..6 J1'<>'<, / 01.'> : , / / .6 : ,<<>7.68 / '76 7 / >.7V 6.'1.4< 1,<7 '4' / , <6 >.' ; .641%

L K 8

e W8 7,' 7 ' + ' ' ,< .E 7 .4' 2'04J.? 7E77 .'-',' 7.1.'>.6 : , / 1' .6 =4 '<,46 J,4-.1<.7 '<#<6 .<'4B ,<' 71,4- , ; ; '6 ,<>'<6 5'0, .#71'<J.'=4.5.41"?1, ;41>.' 5"<,4V.55.'>.' .-'6 ,< >.' ,4 6 " 8 7'<7 & ;JE-1'' =4.'7,46 P.6 .<<.1' 6 >.'5" 550.17.'6 .<7.<>.,78 .?4 6 5,<J7. / ?6 5.6 1.E4J .6 E1'<;' 6 8 6, 5 .< 55. / 'J<.8 , 5 >'<6 5." 'V' K'68 '<<,<;' .<7 ; .' J1'<>' -.<. / .<7% 56'V - ,V' .<75" J?.11.' ; - 5.'.7 5"14 <# >.'5.41'?'71 .% .416 6.<7 / .<76 ?.1-.16 .7' .<7 ?'17'J 6 ?'1' E" ?54 ' ?'17>.6 0, / 1, .6 , ,11,7<?46 =4 '7 .<<.<7'4'J,4-.1<. ' / .<7 ,4 =4 ' '??1, .0.<7 5." / , 671.J8 4' ; ,< 1' 1.8 5.' ?.7 7 <, / 01.'>.6 ?'71 ,7.6 =4 'J. / 66.<7 >'<J >.'<,7 ' -.'4@ E.16 E1 / 66' 7 > '??1.<>1.' 4<.' <,4-.55.']' '5'1 / '<7.% " ?1.> ;7 ,< " >,<.' .7.' ' ; ; , / ?B.f / '76 ; ,1, / .'5.6 64 7.6 >.' .-.<. / .<7 ,<7 >.0,40 5.6 ?1, ' ?:.7.6$ '1 6 .7 7,47.' 5" H1'<;.' ,K7>,<< 8 >'<6 ; .77.' ,; ; '6 ,< ,4 56 'J 66' 7 >4'6'547>4'1,V'4 / .8 4<' .@. / ' ? .' / . / ,1'05.'>.'5" ''J.66.' > 4< ?.4?5.'=4 '6 .67 E' 7 E 01.% ,71.' 66. / 05..'<'7 ,<'5, < ' 0' / ' 6 .4' ?546 >.' / '0.67.%8%%

,46 '-,<6%'??1 6 '11.67'7 ,< >.' ,4 6 " '?1.6'' =4.''466 7,7 =4.'6,< -'6 ,<8 .7 5.61 5.6 >.'>,45.41' .7 >.'0, .' ,<7 ; :'<J.'7,47 " ; ,4?% .6 ?'51 ,7.6.6?.1.<78 5.6 ,??1.66.416 6,<7 ; ,<E,<>468 5" ; , .' >.' 05'<; ; .'" 0.'4; ,4? ?.1>4' >'<6 ; .77=0,41<9 .f .7 ?,41'> 1.' =4.' 5.6 $ ' ' 8 4<'K1'0'<; ,<'<'4<' ' J..56 <.' ;1' <>1,<7 ?546 > 51.' . / ?1 6,<<#6%%%%8 ' 6 =4.5 ' ?'17' - "?1.<>1.' 66. / 05 E.'<'7 ,<'5.'Z ,4 6 " 5'0' > =4.1' 7 5Z'#.'0.1' 7 5" ; ,<6.=4.<; .'<'741.55.'>.'6, ' / . / , 1.' ; ,<51.'5"?'17 .'>.'5" ; ,<67 747 ,< =4 5 " ' ;' ; .?5..8 ; ,<4\.'5.6 5, 6 =4 5 "6'<;5 ,<<..6% ,4 6 " 2 6.1' 7 5 ; , 6.1-' ?,41' 1, ' >.6 H1'<=' 68 ' 5" ; ,<>E > 7 ,< =4.8 1.>.-.,4'E 01.''4' / , / .<7 ,4' 5" ; ,<67 74M 7 ,< ';:.- .' 54 '6.1" ,EE.17.' >'<6 6,< .<6. / 05.8 ' ' ; ; .?7.1">.'<,4-.'77 -,5,<7' 1. / .<7Z <.'5 J4.'E,1M / >'05.' .7 >.' J1'<>.6 ; 1; ,<67'<;.6 ?1.66.<71 66. / M 05..'<'7 ,<'5.' .7 0.<'; .<7 . / ? 1.% #.17.6 5. ' H1'<M ;' 6 71 , / ?:.1,<7 >.'7,470 / ' 6 =4 56 <.'6 .@?,6.<' ?, <78 '?1 ' >.4@ '<6 >.'1.-,547 ,<8 ' >.6 '<J, 66.7 <47 5.60 =4 56 < .@?,6.<7 ?, <7 5" 5 0.17 ' >.6 <'7 , / ' =4 ' '57.<>.<75 '; : .-. / .<7>.5" .,<67 747 ,<E1'< ' 6.% .'1.66.<7 / .<7 >4' ?.4?5.' E1'<;' 6 .67 0467.' .<-.16 ,4 6 " I / ' 6 5 -'47 / .4@ ; ,< .1-.1' ,4 6 " 2 ?,41'1, ' > ; :4 ; , / / .' 5 .67 >'<6 .6?1 7 >4'?. ,?5.8 '4@ ; ,<> 7 ,<6 =4.'54 ' E.1,<7 5.6 1.?1 6.<7'<76 >.' ; _ / / .'?.4?5.8=4 >.'1.; ,<6';1.1'5"64?.16E 7 ,<'1,V'57 ?'1'4<' ; : , @ <,4-.'48 ; : '<;.'E,1 / > [5.'?'1'5.' ; :'<' J. / .<7 > 4<.' ; ,<67 747 ,< > ; - 7 .' / ,<'1.0 =4.' .7 ; ,<67 747 ,< ?405 ; ' <.I / ,V.<J1'<>' / ' 6>'<J.1.4' .< ; .'=4.'5">- 6 ,< >.6 >.?'17. / ;<76 ?,411' 5 .< 71' 5" 64 7.8 .7 E' 1.' 0.'4'0.4' '4@ ?4 66'<; .6 71'<J.1.' 5 J4 .6 ; ,<71.'5"5 0.17 ' >4' ?.4?5.'E1'<;' 6%

HK # %

8 ' . ' '# ' ' $ ' %$ ' &! %' % & " % ' (!)% ' '& ! % ')! $ & '$%' %$*

b *$ ' b

@ ' ' & ' ' ' ' ' ' ' ' - ' NW

.' ; ,1?6 / 75 ; ?'5 5 E,1 <.'=4.8 / '5JE>' ;G1 ,1>1.' >,<<>6 ?'1'1'>' < 671'7 ,<8 .< .@.;47 ,< >.'5"5,7>' '04 < >.1< .18 =4 '6 ??1 / .'5.671'V'4@ 3 '

;6 E,<>6 & .6 '7.5 .16 >.' 6.;>4168 5.6>4-1 .16 . / M ?5,V.6 '4@ 1.?'1'7 ,<6 >.6 =4' 6 .7 '471.6 ,<7 ; ,<7 M <4.' .6 71'-'4@ =4 56 '-' .<7 ,1>1.'>.' ; .66.1I 1. 7E.1.' .4@> 76 ,4-1 .168 '4 <, / ' >.' 5" 5, 8 ,1>1.'>.' ; .66.1 5.416 71'-'4@8 6'4E " .4@ " 6.'E' 1.' ' ; ; .?7.1 ? ,41 ;6 ; ,<7 <4.1 ?'1 5.6 .<71.?1.<.416 ,4 '>Q > ; '7' 1.6 =4 ' .< 6.1, 7 ; : '1J.6I ;41 >. ;5'1.' =4 56 <.'6.1,<7 ?, <7 ?'V%>6 >.6 Q,41 ..6 / 56 ,<7E' 7.6>.?4 6 5.6 >.E.<6.68 .7 '11.7.' =4 .< ;'6 >.' >.6,0. 66'<;.' " 5" 5, ' .7 " '4 ' 7,1 7.'5.J 7 / .8 5 6.1" ?1 6 >.6 / .641.6 ; ,<51.' .4@8 ; , / / .'>.6 ?.1E410'7.416 >.' ,1>1.'?405 ;I ,1>,<<.' =4.'5.'?1.6.<7 '11 7>6.1" / ?1 / .' .7'EE ; : .%

& ' '*' 5 # * ' F 0& !!

'G ! ' (' - % + '<,4-.55.>.5'E4 7.' >4 1, ' " ?1,>4 78 <,< 5" ; ,<67.1<=E ,<8 / ' 61 > ' J<'7 ,<>4 ?.4?5.'>'<6 ; .'>>?<17. / .<7% 1.6=4.'?'1 ' 7,47 5.'?.4?5.6 .671'66.< 05>>'<65.6?5' ; .6?405 =4.68 .7 >.' 54 / > / .' 5 " Q7 1> >.' / ' 45.< 1 5" # ,<67 747 ,< >4 1,V'4 / .8 >.' / ,41 1 ,4 >.' - -1.'5 01.% " <,4-.55.' >.' '11.67'7 ,< >.' ,4 6 " ' " >7> 1. <.' ' - . ;% '66.0 > <> EE.1.<;.% .6 .<7 / .<76 =4.'5.'Q .4?5.'7> / , J<.' " ; .77.' , ; ; '6 ,< E,<7 ?5' 6 1 " 7,46 5.6 0,<6 ; 7,V.<6I 8 6 ?1,4-.<7 =4.' d.6?1 7 ?405 ; .65 >7'05 8 .7=4.' 5" <'7 ,< .67 / >1.'?,41 5" 5 0.17>% & @71' 7> 4<.'5.771.' > ;1 7.' " % '55.78 ;41>8 >>?47>8 ?'1 % / 55.78 >5.;7.41 >4 >>?'15. / .<7 >.6 .4@ .-1.6%P

' '< %

('L '$G+ .'C ' >.' ; .' / , 6 >.4@ ,EE ; ;16 >4 1>J / .<5 >.' .<7: .-1.8=< ' '55' .<5 " ,41<'V J1,6 ' 6 1 5.'<, / 01.'>.6 . / J1'<768 ,<7 >7> '11> 6 " ,4 ' ; : < ?'1 >.6 ; 57 -'7.416 J'1>.6 <'7 ,<'4@% # .<@ ; ' .@ J.' .<7=4.'5.6?'66. ?,176?1.6;1 76?'1 5" 5, 'E466.<7 .@: 0>6I / '76 5.6 >.4@ E4V'1>68'4 5 .4>.'?'66. ?,1768 ' ,<7 7 1> >.' 5.416 ?, ; : .6 .4@ ? 67 >.76 .7 ,<7 E' 'E.4 ' ; .6 ; 7,V.<68 >><7 7 4< W .7;' 05;66.8 ' <67' 7 56 447 > > '11>E>6 ?'1>.6 : '0 7'<76 >4 - 55'J.' .7 # ,<>4 76 $>'<6 5.6 ?1 6,<6 >.' 55.I ? .>6 .7 Qa\ <J6 5 .68 .7 '7M 7' ; : .6 641 4< ; : '1 ,7 ; ,<-.17% ' 5. 4G .<71..'>'<6 5" - 55.8 5.'?.4?5.' " .@ J> =4.' 5.' ; : '1 ,7 >7 >> ; ,4-.178 ,4=4. 5.6 #1 / <.7 66.47 5.41 .< >.' " ? .>% " 7, 5.' >4 ; : '1 ,7 " >7> .<5.1>.% % Y

'1>' C)8 " C.' : .41.6 .7 >. / .'>4 6, 18 << J1'<>' <, / 01.' >.' ; 7,V.<6 '66. / 05.6 " : >5.5 >. - 55.' .7 641 5" ! 1'<>.' 5' ; .8,<7 ;14 ' - , 1 >.6 / ,7 E6 71.6 E,< $ >.6?,41 >. / '<>.1 " 5" / 4< ; ?'5 7> =4.'5.6 ;5.E6 >.6 ?,17.6 >.' 5" - 55.'E466.<7 >>?,6..6 " 1 : >7.5 ; , / / 4<% # .55.'?.7 7 ,< .7' 7 E,17. / .<7 '??4V. .8 5.' ; ,1?6 / 4 / ; ?' ' " <, / / > 71, 6 >.'6.6 / . / 01.6 ?,41 .< E' 1.' '5" >. / '<>> '4 ; , / / '<>'<7 >.'5" ?5' ; .% # .6 71, 6 ; ' 7,V. 68 .< . ; : '1?.' ;7 ' ; ; , <?'J<>6 > 4< >.7' ; : . / .<7 >.' ! ' : , / / .6 >.' 5" J'1>.' '7 0<'5.8 ,47 1. 4 5.6 ;5.E.' >.' 5" - 55.'>.6 / ' <6 >.' % '0'V.77.8 ?1. / .1 ' ' >. / 'Q,1 >.'5" ?5' ; .% 55.6,<7 >7> ?,17..6 " 5 ,7.5 ' >. - 55.8 '4@ ' ; ;5' / '7 ,<6 >.' ! ' ' ' ' .7 '4 014 7 >.6 'Q ?5'4> 66. / .<76 4 - .16.56%

5 V " =4.5=4.6 Q,416 =4.'>.4@ E1>1.68 ,E5 ; .16 > '1 ' 7 55.<.'4 6.1- ; .'>.'5" B ,55'<>.8 ,47 . ' 1 / Q4 4>.< ; .' > '55.1 641 5.6%1. / ?'176 >.' 5" ; 7'>.55.' .@' / <.1 5.6 O'77.1 .6 >,<7 56 6,<7 : >1 66>68 .7 / > / .'>.'E' 1.' 641 ; .'64Q.7 >.6 =4.67 ,<6 > 6 ;1.7;6 '4@ 6 ;<7 <.57.6% 56 ,<7 .7.' '11>7.6 .7 ; ,<>4 76 " 5" / 4< ; ?'5 7> ?'7 >#6 6,5>'76 >4 1.J / .<7 ; >.-' : 5K1 .8 >,<7 5" - J 5'<; .' .7 5" O1'-,41.' ?'71 ,7 =4.' / .1 7.<7 ; : '=4 ; Q,41 >.' <,4-.'4@ >5,J.6% < 5.6 ' ' 7 > '0,1> 6,4 ; ,<<>6 > .6? ,<<'J.I .5 ?,41 5.66'4-.1>.'5" E41.41 ?,?4 ' 1.8 56 ,47 >7> / 6 .< ?1 6,<% < " - 6 7> 5.416 ?' ' ? ;16 .7 .EE.768 <' 6 'V' 7 1 .4 71,4->=4 ' ? 'Q467 ' 5 [' 5.6 6,4?;,46 =< ; ' ;41 / ?14>.< ; .' '-' 5 E' 7 ' <'571.8 ,< 5. ' " 1;5> ; : .6 .< 5.6 <- 54 7 " <.' ?546 6 .@?,6.1 " '-.< 1 " >.6 >. / '1; : .6 =4 ' ?,411' ;<5

5.41 >.-.< 1 E4<.67.6 >'<6 >.6 ; 1; ,467'<; .6 ,E7 7'< ' > .<<. / 6 >.'5" ?'71 .' ; ,<Q41.<7 ; ,<71.' .55.%

% ,; : '< 0.'48 ; , / / '<>'<7 J.<>1'5 >.'7'1 / >.' >4 >>?'17. / .<7 >4 ,1>8 .67 '77.<>4 '4Q,41> :4 ' ; % ' .67 ' ; ; , / ?'J<> ,4 6.1 " / / . > '7. / .<7 64 - ' >.6 71, 6 ; , / / 66' 1.6 <, / 7<>6 ? '1 66. / O5..'<' ' 7 ,<'5.% Y

'?1.6 .6 ,1>1.6 >.' % ,; : ' / 0.'4 ' % '<,<.8 <'1>; : 'S >.' : ' / ? . / ?5,V> >'<6 5" ?1. / .1.'> - 6 ,< >.' 1'1 / . .8 " ,1>,<<.8 5'C(8 " % ' / '1; : .8 5 .4M 7.<'<7 ; ,5,<.5 >4 W1>J / .<7 >.' : 466_1>68>.'E' 1.'5" 7,41<>.'>.6 ?,67.6 .7'05 6641 5"E1,<7 >1.8 >.?.<>'<7S >.'6,<'11,<> 66. / .<78 ?,41 1. ; , / / '<>.1 .7 ,1>,4 ' <.1 '4 '71,4c\ .6 ?5' ; >.6 <6 ; .77.' ?'17 .'>.'5" E1,< ' 7 .1.'>.' 0 ' ' ' ' ' ' '

5' .5 >.' #5I 5.18 ' - . ;5" ?546J1'<>..@' ;7 74>.8 41 .6 / ,4-. / .<7S .7 >: 05 66; / .<76 >.6 ?,67.6 >.6 71,4?.6 .71'<J;1.E 641 5'> 7.'E1,<7 >1.8 '5 < >.'?,4- , 1 1 5. ; : ' / ? .< 1.<>1.' ; , / ?7.'?'1 >.1 7% % ' / '1; : .' .67 ; : '1J> .< / > / .' 7. / ?6 ?'1 % '4,4.' > ,1>, <.1 > 7,46 5.6 ; , / / '<>'<76 >.6 ?,67.6 >.'6.' ; , <; .17.1 .< 7,47 ' - . ; ' 5" J'1>.'<'7 ,<'5.8 .7 >.'1. : - ,V.1 '4@ / 4< . ?'5 7>6 5.6 >71'<J.16 ,4 ?'66'<56 =4 ' ?, 411,<7 >71; ' '11.7>6%

< I .Y1 ' '

') 'QW <% + >-'6 ,4 >4 1, ' .5 >.6 " E' / <.' " >7> '<<,<;>.'>'<6 <,71.' - 55.'5.Q,41 >.'5" H>7. .4 -.16 7.6 O' 7 : .41.6 >4 / '7 <% .6 ; ,1?6 '> / < 671'7 E.' 6.' 6,<7 641 5. ;0' / ? 1>4< 6 '4 >.?'17. <. 7% < " ?5' ; .' " 7,47.6 5.6 ?,17.6 >.' 5" - 55.'4.6 >.7' ; : . / .<7S >.'5" J'1>.'71'7 ,<'5.' =4 ' >7' 7 6,46 5.6 '1 / . '?,41 5" ?1, ; .66 ,<% # .7 >-. . / .<7 " ?, <7 71,40 > 5" ; .1>' <,< .'>4 Q,41I 5 '%'4 ; ,<71' 1.'1' / > 5.' ; - 6 [.' >' <, ' # ,<; 7,V.468 1 ' 0 ' '1 ' ! ' 0 '!4 ' ' ' & ' ' ' 0 '

' ' ' ' '<6 5" <4 7 4 - '<7.'5.6 >>?47>S >.6 71 04<'4@ .7 5.6 ; : .E6 >4 67@Q.< .'1.J / .<7 >.' ; ' ' -'5.1 .' 6.6,<5 1>4< 6 '4@ ; ,1?6 '> / / 671'7 8 ?,4 ' ?1>7.1 7,46 .<6. / 05.' 6.1 / .<7 >.' 7 >>5 7> .7 > 4< ,<% .' 5.<>. / ' <8 ' L ' : .41.6 >4 / '7 <8 7,45.' 5" J'1>.'<'7 ,<'5.8 '4 <, / 01.'>.'c\54]'>.'984 ; , / / .6% 6 .671.<>4.8 ?'1 <- 7'7 ,< >.'5" / 4 ; ?'5 7>8 >' ' < ?1, / .<'>S >.6 ! 5 .168 , : .55.' " 71,4-> 6.6 E1>1.S >.'5" ; '-'5.1 .' .7 >.' 5" J.<>'1 / .1 .' 4'7 , '5.% .' 6.1 / .<7 >.'5" -. 55.' " >7> 1.<,4-.5> ' - . ; .6 >> / ,<6 ' 71'7 ,<6>4 ?'71 ,7 6 / .'5.'?546 '1>.<78 .75, 4 < .< ' 7. / 5' 7 =4.'5.6 ;1 6 1>?>5>6 >.' ' ' ' ' ' ' ' ' ! ' ' ' & # ' ' ' ' '& ' ' ' ' '

' 3 ' ,1>1.'?405 ;' < " ?'6 .7.'71,405.'4< 6.4 ' / , / .<7% .6 '66. / O5..6 ?1 / ' 1.6 ,47 ; , / / .<; .' 5.'5.<>. / ' <%

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. ' .60'77 / .<76.7.7'07 66. / .<76 / 5 7' 1.6'
>,<7' 5'' 1. / 6.' '41'' 7.' E' 7.' '4'>.?'17. / .<7' >.%5''
J4.11.'<.'?,411, 7' 71.' 'EE.;7 6=4 '4'5,J. / .<7' U.6'
71,4?.6' 8' >.6' . / ?5,V.6' '77';:.6' " 14> / 4 671'7 ,<'>.'
5' J- .-1.8' .7 " . ,<7. ,Y1' ,77; ,<6.1-.1I5W ` <4< 7Q [illegible]e8'
Y 06 67'<;.6' ,4' .E5.76' < 5 7' 1.6G' ' ' ' % ' ' \
%' '<6'4;4<.?5';.>.J4.11. ?_67. / 5 7' 1.8' ,4'
1 55.'>.' <7.1 .418' 5.6' / 74'; ?'5 7>6'<.?,411,117 .71.'
'a< .6' >.' ,41< 1<' 5,J. / .<78' <' . / ?5';. / .<78' '
/ 'J'6 6' ?,41' 46'J.'>.6' 71,4?.6=4 '47'<7' =4.'
;.4@';74;55. / ;<7' .@ 67'<76'<.'6.1' . 7?'6'64E 6' 76%
55G' '6.1''1. / 68' '4@'< 4< ; ?'5 7.6'>.'7,46'5.6'5 .4@'
,4'6.'71,4-.1,<7'>.6' 0>5 / .<76'1' 5 7' 1.6' ;,<6.1-.68'
4<' .7'7'>.7 5 5.'>.6' ,J. / .<76' =4.';.6'0 7 / . 76'1.7 '
E.1 / .<78' '5 <=4.'5.6> 7.6'< 4< ; ?'5 7.6?4 66.477,4 '
$Q,7 16';,4 ' 71.'6' 5.6' ,J. / .<76' =4 '5.41'6.1,<7'>. '
/ ' >.6' 6,<7' ?1,?,17 ,<4>6' '4@' 0.6, <6' 1..56' >4'
6.1- ;.% % % %
%' '<6'5.6' ?5';.6' >.' J4.11.Q' ?,67.6' / 5 5' 1.6' .7'
- 55.6' >.' J'1< 6,<' :'0 74.55.'>.' 7.1 .418' 5'6.1" E' 7'
?'1'5.6' ,55 ; .16' / 4< ; ?'4@' 4<'1.;.<6. / .<7'>.'7,46'
5.6' ,J. / .<76';7' .7'0 . / .<76' =4 . .6'?.4-% <7'E,41'
< 18'6'<6'E,45.1'5.6' :'0 7'<768' " .55.7>V'-, 1'1;;, 16'
'4'0.6, <'.7' / ,< . 7'<. 4;478'6, 7'>' 6'5.';'6'>.'?'6M
6'J.'>.6'71,4?.68'6, 7'>'<6'5.6' ; 1;,<67'<; 6' .@71',1 '
> ' 1.68' 5,16=4.G5.6' .7'05 66. / .<76' / 5 5' 1.6' <V'
64E 1, 7'?'6%
%' ,16=4 5' V' '41''<.;.66 7.'>.'5,J.1' ;0.@'5.6' :'M
0 7'<768' .7?,414<'< , 68'5.6'71,4?.6' =4'>.-1,<77.< 1'
J'1< 6,<8' 5.6' 6.456' ,J. / .<76' >.6' 6,46 ?E5 ; .16' ;7'
6Y5>'768' .7'5.6' .;41 .6?,41'5.6' .5 .-'4@8' 6.1,<7'E, 1'
< 6';<<'741.'I' " .J'1>'>.6' ,E5 ; .168' Q56'<.'?,411,<7'
?1.7.<>1.'">.6'0 55.76'>.'5,J. / .<7'Q ,41' '71, 6'
<4 76I' .7..7.1 <..@? 1.8' 56'6.'5,J;1,<7'>.' J1.' "J1.'
;:.0'5.6' :'0 7'<768' '4' / ,V7<' >.'5" 6, / 7<.' =4' 5.41'
6.1"?'V..'64 -'47'5.41'J1'>.8' ' <6'=4 5'6.1>'>; ;E.7.'
?'1'1 66. / 05;.'<'7 ,<' .%

% .6' <4 < >?'5 7. 6' -. 55.1,<7' 1 '5.6' :'0 M
7'<76'< '046E'<5'?, <7'>'<6'5.'?1 @'>.6'5,V.16'>4'0.6, <'
>.'5,J. / .<7' ,4'6.'71,4-.1,<7'5.6' ,E! ; .16%
% % ,47.6'5.6'E, 6'=4 5'6.1"?,41-4'" >7'05 66; '
/ .<7' >4'5,J. / .<7' >G4<.'71,4?.8' .@;.?7>'7.';'6' >.'
'66'J.8'5.'5,J. / .<7'>.6'6, K ,EE . .16'.7'6,5>'768' .7'
5.6'5,41< 741.6' > .;41 .6' ?,41' 5.6' ;:.-'4@8' 6.1,<7'
5' 76''4';, / ? ;7' .7'<,<''1. E.;7 %
% H'47;'>.'0>7 / .<76'' E.;5 6' '4'5,J. / .<7' >.6'
71,4?.6' >.67 <>.6' "7., 1'J'1< 6,<'>'<6'4 ' 5 .4' =4.5'
;,<=4.8' 5'3'6.1"?, :1-48' '777'<7' =4.'E' 1.'6.'?,411'8'
.<' .7'05 66'<7'5.6> 7.6'71,4?.6'>'?6'>.6' / ' 6,<6' - >.6'
.7';,<-.<'0 .6%8' .7' 5'6>1" .4' ,471.'E,41 >' '4@'71,4?.6'
' ;:.-'5' >.6'>;41 .6' 64E5 6'<7.6' ?,41'5.416' #:.-' Q@%
#.6' / ' 6,<6.7 .#41 .6'6.1,<7.0, 6 .6' .7 ,4..6'?'V'5.6'
;, / / 66' 1.6'>.6' J4.11.68' =4'6.7 ,<7' '<7,1 6.6'"1; '
=4.1Q1' 5.6' 6, <6' .7' <5.11.<7 ,,' >.]' / 4< ; ?< 7.6'
?,4E'5.41'E'; 5 5.1' .7'05 66. / ;<7'>.6' ,J. / .<76'>,<7'
56'6.1,<7;:'1J 6%' .'?5468' 5.6' 'J.<76' / 5 5' 1.6' >>'
6 J< e' " ;.7' .E .7?'1'5.6'1 5. / .<76' E.1,?78' .<'?E> '
6.<.>' > 4<' ,<' >.' ?546 .416' ,E5 ; .16' / 4< ; ?'4@8' 5"
1.;,<<' 66'<;.' >.6' / ' 6,<6' .7' ;41 .6' =4' 6.1,<7'
,4>.68' 'E <' >=' ;,467'7.1' >7'7' >'<6' 5.=4.E' .55.6'6.'
71,4-.1,<78' .7'5 <>.'?,4-, 18'4'>.?'17'>.6'71,4?.68'
.6 / .18' 6 5 V' " 5 .48' 5.6' <>. / < 7.6' >4.6' '4@' ?E, '
?1 >7' 1.6' ?,41'5.6>>J1'>'7 ,<6= '41' .<7.?1,4->.6'
5.6> 7.6' / ' 6,<6' .7'>.'1 .6%
"% '<6'5.6' ;'6'>.' / '1;:.6' ,1> <' 1.68' >.' / , Q-.'
/ .% 76' / ?1.-468' .7'>'<6' 7,46' ;.4@' ,4' 5' <.'?,411"
>71.' E,41<' '4@' 71,4?.6' >.6' ,J. / .<76' 6,5>68' 5.76'
= 56' ,<7'> .' <> =4>6' >'<6' '17%' '?1. .>>.<78' 5.6'
71,4?.6' 6.1,<E'5,J>.6' ;:.0' 5.6' :'0 7'<76%' '<6' > 6'
E <;:,<' >.'?.16,< .68' &2c4.55.6' _c .'6, .<7'5.7716'E,<;'
7 ,<6' .7'5.416' =4'5 5>68' " .@;.?7 ,<'>.6'>.?,6 7' 1.6'
>.' .' 66.6' ?,41' '6.1- .>'?405 ;8' 5.6=4.56'<.'6.1,<7'
?, <7' ,05 J.6'>.'E, 1< 1'>.'5,J. / .<7'>'<6'5.6' / ' 6,<6'
=4 '1.<E.1 / .<7'5.6> 7.6' ,< 66.68' / ' 6'6.1,<7'7.=46'> V'
64??5 [18'6, 7' .,'E,<14 66'?7'>.6' ,J. / .<76' .<'<'741.'
;:.0' > '471.6' :'0 7'<76 ' '-.;'5.6=4.56' 56' 6 '11'<J. '
1,<7' EEE.5 ,7'?'1'4<. ,,<7E 5 / ,77'?1,?,17 ,<'
<. .' '5.416'E';457>6 7'J1>..'?'1'5.6' / 4< ; ?'5 7> `%
' "% .6'71,<?.6' 6.1,<7'1.6?, ,6'05.6'>.6'0>7 / ; <76'
=4 .55.6',;;4?.1,<78' ' ,6'=4.'>.6'>.'1 .6'=4' 416. '
1,<5'E,41< .6' ?,41G'5.416';5 .-'4%@%' ' <' d. -
"E%' 66.< 0E>.<'7 ,4'7.67'74.1" 57>1 .41. / .<7'
641' >6, / / .' " '751 04.1";:'=4.',E ; 1',4'. / ?5,V.'
>.' '1 / >.'8' 6.5,<'6,<'J1'>. .7'6,<'. / ?5, '%' ?, 1'c4'
7.< 1'5 .4'>4'5,J. / .<7' =4'<.'?,411' 7'54 '> 1.'E,41<'
.<'<'741; >'<6'5.6. 0:66. / .<76' / 5 5' 1.6%%' Z
" % 45' mE5 ;5.1' .<' J'1< 6,<'<.'1.;.-1" 4<'5,J. '
/ .<7' .<' '1J.<7' =4 '474<7' =4 5' <.'?,411' 7' 54'.7 .'
E,41<'4<'5,J. / .<7' .<'<'741.'>'<6'5.6'0>5 / .<76' / '
5 7' 1;6%' <' ;,<6>=4.<;.8' " >? =4.'>4' >.?'17' >.6'
6. / .671 .168' 5.6' ,J. / .<76' =4 56' 5' 66.1,<7' -';'<76'
>'<6'5.6> 76' 0>7 / .<76' 6.1,<7'1. / ?5 6' ?'1' ;.4@%=4'
>.-1,<7'?'66.1' : -.1'"5" J'1< 6,<%
"5B' ,16=4.' 6' ,E5 ; .16'>.6'71,4?.6' >.'5 J<.'1. '
;.-1,<5'5.41'5,J. / .<7' .<' '1J.<78' 5' <.'5.41' .<'6.1' '
E' 5' '>.;, / ?7.'=4.'?,41'5.'7. / ?6'=4 76'6.1,<7'?1. '
6.<76'4' ;,1?6I' =4'<7' '4@' ,B ; .E6' .<'1.6 >.<;.8' 7.56'
=4.';.4@'>4'J.< .8'>.' '17 5 .1 .8' .7'5.6' ;, / / 66' 1.6'
&5.6' J4.11.68' 56' 1.;. 1,<7'5.41' Q,J. / .<78' '06.<76'
;, / 5 .'?1>6.<768' 7, 47 '7. / ?6'=4 56'6.1,<7' . / ?5,V.6'
>'<6' .'?5';.% 8
" % 6.1'7.<4;, / ?7.8' 6415.6E,<>6'>.'5"J4.11.8'
'4%-' ,E5 ; .16'>.'7,47' J1'>.' '4@=4.56'5.6' ,<5,<<'<;.6'
'5E;;7' .<7'>.6' ,J. / .<76' .<' '1J.<78' >.6'6, / / .6'>,<7'
56'< ,<7'?'6'>7>'?'V>6' 641'5.6> 76' ,J. / .<76' ?.<>'<7'
5.6''4<>.6' ()*' .7' (* %
" % .6' ,E5 ; .16'>'<6'5.41' & ' '1>6 >.<;.'
5,16=4 .55;'<.'6.1"?, <7'5.' .4' ' ' ' ; ' ;
: 74;58' .7'5.6'. / ?5,V '>.5'<<..'>'<6'5.41'1.6 >. E;.8'
5 .'5,J;1,<7'?, <7'5.6'J.<6>.'J4.11.'>'<6' '5,J. / .<7'
/ 5 7' 1.'=4'5.41'6.1"E,41<' .<'<'741.I' .7'5,16=4Q56

1. ; . [,<7 5.41 5,J. / .<7 .< '1J.<78 56 <. 6.1,<7 7; <46 >; E,41< 1 5.5,J. / .<7 '4@ 71,4?.6 =4 '47'<7 =4. ..54 =4 56 , ; ;4?.1,<7 .@; .>.1" 5" ?1,?,17 ,< 'EE.; 7>; 2 5.41 J1'>. ,4 5.41 . / ?5, 34'<7 '4@ E7EE ; .16 .< J'1< 6,< >'<6 5. 5 .4 >. 5.41 : '0 7'7 ,< ,1> < ' 1.8 66.1,<7 7.<46 >. E,41< 1 5. 5,J. / .<7 >'<6 5.41 >, / M ; 5. ?1,?1.8 ; ,4 / . 7,<6 5.6 '471;6 : '0 7'<76

* V 1

, ' .6 ?1. / .16 '17 ;5.6 >E7 + 5 71. , - Q4. <,46 '- ,<6 ?1, / 6 >'<6 5.)C

. 5.18 ,46 5.6 . / ?5, 6 > ,EB; .16 > .7'5 / Q,1 & , ?5'; .6 >. J4.11.8 ; 7'>.55.68; : 7; '4@.7 '471.6 ?,6 .6 / 5 7, 1.6 ,4 - 55.6 >. <7.1 .418 >. =4.5=4. J1'>. =4. 6, .<7 ; .6 ,EE ; .168 .7 6,46 =4.5=4.6 >.<,M / <'7 ,<6 =4 56 .@ 67.<78 .7 7,47.6 5.416 E,<;7 ,<6 .< #.77. =4'5 7. 6.1,<7 .7 >. / .41.1,<7 64??1 / >;68 " >'7.1 >4 D' ,>7 >. 5" ?-.6.<7. ' <.. .6.1,<7 ; ;<6 >.1.6 ; , / / " ,EE ; .16 > .7'7 / 'Q,1 >. ?5'; . =4. ; .4@ >.6 J<.6 >'<6 1,1>,< '<; . >4) / '16 ((98 6,46 5.6 >.<, / <'7 ,<6 , & A & >. >. >. * .7 >.

A A 8 A

55- 6.1" ';#,1>> '4@> 76 , K; .1" >.6 1.71' 7.6 >,>7 5" -'5.41 6.1" >>7;1 / <>.8 7'<7 .< ; ,<6.=4.<; . >4 71' 7. / .<7 >,7 7 56 Q,4 66.<7 =4. >. '<; .<<.7. >. 5.416 6.<>..68 ' <6 =4 5 6.1" .@?5 =4> ; '?1 6 .EE.7> >- '54.1 5. 71' 7. / .<7 .< 1.71' 7. >,<7 , .-1"Q,4 1 ; : ' ;4<>.6> 06 ,E3; .168 ,< ?1.<>1" ?,41 0'6. 5. 7'1 E '<<.@> ,1>,<<'<; . >4) / '16 ((98 ?,41 7,46 ; .4@ =7 ,<7 .7> ?,41146 >. 5.416 . / ?5, 6 >.?4 6 ; .77. >?,=4. 34'<7 '4@ ,EE ; .16 ?,41-46 >. 5 1- -'<; .68 > '>Q,<;7 ,<6 ,4 > . / ?5, 6 .EE.;7 E6 >'<6 5.6 >7'76 / 'Q,16 >.6 ?5'; .68 '<7>1 .41. / .47 '48 / '16 ((98 1.-'54'7 ,< >. 5.41 1.71' 7. 6.1" E' 7. 5.41 ; : , @8 6, 7 > '?1.6 5. 7'1 E '<<.@> 45'> 7. ,1>,< <'<; .8 6, 5 > '?1>6 5" -'5.41 >.6 71' 7.1'.<76 .7 . / ,M 54 / .<76 =4 56 Q467 5 .1,<7 '-, 1 '??'17.<48 " ; .77. >?,=<.8 '4@ . / ?5, 6 >,<7 56 >7' .<7 '5,167 45' 1.6 8 '>Q, E 76 ,4 641- -'<; .16

8 ,717 ,EE ; .1 > >7'7d7<'Q 1 >. ?5'; .8 >,<7 5. 71' .1 ;<7: .@; >. ?'6 8C '5 -8 '41'.< 1.71' 7.4<. 6,1< / . '<?4.55. J'5. " 5" 7,7'5 7. >4 71' 7. / .<7 >,<7 5 Q,4 7 ' ;74.55. / .< g F ,47 ,E5 ; ;1 > >7'7 7<'Q,1 >. ?5'; .8 >,<7 5. B7' 7. / . 7 .@; .>. '5 -88 <.?,411'8 >'<6 / ;4< ; '68 >71. 1>>4 7 2 4<. 1.71' 7. >,<7 5. / ,<7'<76, 7 '4 >.66,46 >. 8C '5 - .R ['1RW 4Y1' =4.5?,411'6 .7.-;15'1;71' 7; F> 5 / ,EE ; .1 > >7'7 1''Q,1 >. ?5'; .I =4 '< .67?'6,E ; .1 J.<.1'58 6.1" 5" 7,7'5 7. >. 6,< 71' 7. / .<78 6 5 4 .67 =4. >. 98 '5 - .7 '4 >.66,46I .7 6 ; . 71' 7. / .<7.@; . .8 -8 5. >. 5" 1.71 7. 6.1" 1.>4 7 '5'> 7. 6,1< / . ;5. 98 '5 - 34'<7 " ,E E ; .1 > >7'7 7<'Q,1 >. ?5'; . =4 '6.1" ,EE ; .1 J.<>1'58 5 6.1'8 6.5,< 6.6 6.1- ; .68 646; .?7 05. >4 >. 1.71' 7.8 H ?'1 5. >.;1;7 ,4 ' ,>7 (* '?,41 5.6 ,EE ; .16 J><>1'4@ >4 / > <. J1'>. =4. 4 \ 55 ,EE ; .1 > .7'7 / 'Q,1 >. ?5'; .8 >,<7 5. 71' 7. / .<7 641?'66.1" 8C '5 -8 <. 6.1" 1.>4 7 " 4<. 1.71' 7. <, < 1; =4. 5" / , 7 . >. 6,< 71' 7. / .<7I 5'M > 7. 1.71' 7. <. ?,4-'<7 7, / 0.1'4 >.66,46 >. :8 B .@.>>.1 5. E @> >'<6 '17 ; >.6646 " . , / 01. >.6 '<<..6 >. 6.1- ; . >.6 ,EE ; .16 > >7'7 / 'Q,1 >. ?5'; . 6.1" >-'54> ; ,<E,1 / > / .<7 '4 >; ;1.7 >4 ' ,E575 , I .7 >'<6 ; .77. .-'54'7 ,<8 5. 7. / ?6 =4 56 '41,<7 >7> . / ?5,V>6 >'<6 5.6 E,<;7 ,<6 > ,E5 ; .16 > >7'7 / 'Q,1 >. ?5'; . 5.41 6.1" ; , / ?7> ; , / / . 6 56 '-' .<7 >7; .< ' ;7 - 7; >'<6 5" 5 J<.8 Q ") '4E 5.6 / ,> E ; '7 ,<6 <> =4>.6 64@ '17 ;5.6 c ?1>.>>.<768 \ B8 B .7 " 8 ;6 71' 7. / . 76;<

1.71' 7. &E,<7 >.-1,<7 Q,4 1 5.6 ,EE ; .16 > >7'7 / 'Q,7 >. ?5'; .8 6. ; '5;45.1,<7 ; ,<E,1 / > / .7 7 ' >>;1.5 >4 ' ,47 (* '641 5.6 ?.<6 ,<6I . .67 > 1. =4. 5.7 16 1.71' 7.6). ; , / ?,6.1, 7 > '0,1> >4 =4,-7 >. 5.41 71' 7. / .<7 ';74.5 ?,41 5.6 71.<7. ?1. / .1.6 '<<>.6 >. 5.41 6.1- ; .8 .7 .<64 7. > 5 < - <J7 . / . >.6 71, 6 =4'176 1.67'<76 ?,41 ; : '=4. '<<>. >. 6.1- ; . =4 56 ; , / ?7. 1,47 '4 >.6646 >. 71.<7. '<6 Q46=4 " ; <=4'<7.8 7.1 / . '4=4.5 56 . / ?,17.1,<7 5" 7,7'5 7. >. 5.41 71' 7. / .<78 6 5 < . " ; .>. ?'6 5. '5 @> ?'1 '17 5 ?1.G >75.<7

" ,47 ,EE ; .1 > >7'<<'Q,1 >. ?5'; . =4 '41" ?.1>4 4< / . / 01. " 5" J4.11. '41" .< 1.71' 7. 5. / ,<7'<7 >4 71' 7. / .<7 7,7'5 >,<7 5 Q,4 78 ?,41-" =< 5 < .@; .>. ?'6 5. '?1.6.<7 ?'1 '17 I .7 >'<6 5. ; '6 , 5 5 .@; . >.1' 78 6" 1.71' 7. 6.1" 1>>4 7; ; .

" 5 >>?.<>'< / .<7 >.6 1.71' 7.6 ' ; ; ,1>>.6 ; : <= 5. ,EE ; .1 > .7'7 / 'Q,1 >.6 ?5'; .68 5 6.1" ?'V; ; : ' ;4< > .4@ 4<5,J. / .<7 .< '1J.<78 , 46 =4 7 64 7I ; : ' Q4. J>4-.1<;418 ; : '1J. >. 1.6 >.<; .8 5 .47, < <7 >. 1, 8 ? . / 1. ;5'66.8 6 5 .6 ,EE ; .1 J.<>1'5 ,4 01 J'> .18 ?'1 '<8 9 '5 - 4@ / / .68 6 56 <. 6,<7 ?'6 ,EE ; .16 J><>1'4" , 01 J'> .168 ?'1 '<8 9 '5 - ; : '=4. 5 .47.<'<7 >. 1, .7 ; , / / '<>'<7 >. 6. ; ,<>. ;5'66.8 ?'1 '<8 '5 - ; : '=4. / 'Q,1 .7 / 'Q,1 ; , / / '<>'<78 ?'1 '< C '5 - ; : '=4. ' >. / 'Q,18 ?'1 '<8) '5 - ; : '=4. 6,46 ' >. / 'Q,18 ?'1 '<8 '5- " .6 ,EE ; .16 1.7 1>6 '5" 64 7. >.6 ?5'; .68 ?'V> >. 5.41 1.71' 7. 641 5.6 1.-4.6 >.6 ; , / 66' 1;68 ;5 =4 '-' .<7 ,07.<4 >.6 5,J.1'. 76 >'<6 5.6 ?5'; .6 6 64 7. >. =4.55.6 56 .7' .<7 1.7 1. 68 & , 6;1-.1,<7 5.6 > 76 5,J. / .<768 6, 7 .< <'741.8 6, 7 .< '1J.<78 ; ,< E,1 / ; / .<7 " 5.41 J1'>.

" ,47 ,EE ; .1 > .7'7 / 'Q,1 >. ?5'; . 6.1" 5 0<

5. 54 '1. / 6.1

S " .6 ,EE ; .16 > .7'7 / 'Q,1 >. ?5'; .< .<71.1,< E,5 Q,4 66'<; . >I ' 1.71' 7.6 .7 >.6 5,J. / .<76 =4 5. 6,<7 ' ; ; ,1>.6 ?'1 5. ?1.6.<7 >.;1.78 =4 '4 5.1 ',45 (I ;< ; ,<6.=4.<; . 56 ; ,<7 <4.1,47 "Q,4 1 >. 5.4 71' 7. / .<7 ';74.5Q46=4 ' > 7Q,41 .@;546 " .6 ,EE ; .168 ?,41-46 >. ?1,- 6 ,<6 ,4 >. ; , / / 66 ,<6 .< '>Q,<;7 ,< ,< .< 64--5-'<; . >.6 ,EM E ; .16 ';74.56 >.6 .5 / 'Q=16 >; ?5'; .8 ; ,<6.1-.1,< 5.6 71' 7. <.<76 >,<7 56 Q,4 66.<7 Q46= '5" / ,17 >. 7 745' 1.68 8 A

" < ; '6 >. / ,17 >.6 7'745' 1.68 5.6 5 56 '>Q, <7M ,4 641- -'<; .16 ?.1>1,<7 5.6 71' 7. / .<76 >,<7 56 Q,4 66.<78 .7 6.1,<7 64067 74.6 '4@ >1, 76 >.6 7 745' 1.6M .< ; ,<6.=4.<; . 5.41 <,4-. '4 71' 7. / .<7 .< 1.71' 7 6.1" ; '5;45 > '?1.6 , .54 '7E.;7. " . / ?5, >,<7 56 ,<7 5" 641- -'<; . ,4 '>Q,<;7 ,48 .7 ; ,<E,1 / . / .<5 " 1.J .6 ?-.6;1 7;6 ?'1 5. ?1.6.<7 >.;1.7 '<6 E. -'54,7 ,< >. 5.41 6.1- ; . 56 ; , / ?7.1,<7 5.41 7. / ? >. 641- -'<; .16 ,4 > '>Q, <768 ; , / / . 6 56 '-' .<7 .7& .< , ;7 - 7E. >'<6 5" 5 J<. 8

" # .4@ =4 8 5,16=4 56 ,<7 57> E' 56 ,EE ; .1 > .7'76 <'Q,16 >. ?5'; .8 ,4 5,16=4 56 ,<7 ,07. / >.6 '>Q,<;7 ,<6 .7 641- -'<; .6 >, ; .6 . / ?5, 68 '-' ; < ' ;=4 6 5.6 5 71.6 .< -.174 >.6=4.56 5.6 ; ,5,<.56 .7 5. '5.47.<'<76 ; ,5,<.56 ,<7>7.>.;5'1>6 6 ; ;?7 05.6 > U717 E' 56 < '1>;5 '4@ >. ; ' / ?8 ,07 .<>1,<7 ; .WJ1'>. ; ,<M E,1 / > / .<7 '4@ >>;1;76 >.6 E>-1 .1 .7 ' / '16 (*

"5" 7 #.4@ >.6 ,EE ; .16 >.6 >7'76 / <Q,16 >. ?5' [=4 8 >.?4 6 >?,= . >4 UQ4 55.7 ()*8 ,<7 >7>?1 ->6 6, 7 #< 7,7'5 7.8 6, 7 .<?'17 .8 >;6 . / ,54 / .<76 =4 5.41 & 7' .<7 'E .;7.6 ?'1 5.6 ,1><<<'<; .68 6.1,<7 < >. / < 6>6Q46=4 '5 Q,41 >. 5.41 1.E,1 / .8 > '?1.6

'14'7 ,<'=4' .<' 6.1'E' 7.' .7 ;,<67'7 . .I' 5]6.1'<7>.' ?546'?'V.6'>.'7,47 ;;'=4' 5.41' 6.1'' >E5'> '11 .1.'6418' .4H'71' 7. / .<7%
" "% . ';,1?6'.7 ,EE ; .16' ; - 568'=4' '-' ;<7'5.'?1 M - 5.J.'> .@.1;.1'5.6'E,<;7 ,<6'> ,E5 . .16'> ;7 6 / 'Q,16' >.' ?5' ; .8 5.6' ; .66.1,<7'' >'7.1'>4'5.1'Q< 55.7' (* %
" " % .6'>6?,6 7 ,<6' ?1.;>>.<7.6' .7'7,47.6' '471.6' >4' ?1.6.<7' >>;1.7' <.' ; ,<; .1<.<7' ?, <7'5.6' ; ,5,< .6' E1'<J' 6.6' : ,16'>.' 41,?.I' 66. / 05..<'7 ,<'5.'6.' 1.6.1-'<5'>.'?1,<,<;.1'457.1 .41. / .<7'641'5.'1.J / .' '4=4.5' .55.6'4.-1,<7'>71.'6,4 / .6%

' ' ' ' "

% 5.'?1.6 >.<7'<<,<;.'=4 5'- .<7'>.'54'>71.'1. / 6' 4<' ?'< .1'1.< ?5' >.')('5.771.6' ,4'?'=4;76'6' 6 6'641' >.6'0'7.'4@ .<'<7'>.' E5.'>.' .16.V%
' ' 'I' <'> ' 71.6'7. / ?6'Q.'6.1' 6'5.'?1. / .1' ''>. / '<>;1'=4.' ; .6'5.771.68' >.'=4.5=4.'?'17'=4 .55.6' - <66.<78'=4.55.'=4.'E>7'5.41''>1.66.8'5466.<7'.<-,->.6' ''5.41'>.67 <'7 ,<I' <' 6'5,16=4.'5''?'71 .' .67 .<'>'<M J.18' 5,16=4 .55;' .67 < .<';>.' >.'7,47.6' ?'1768' ; .75.' 5,V'47.'6.1' 74<.' / ?14>.<;.' ; ,4?'05.% .'>. / '<>.' =4.'5.6')('?'=4.76'6, .<7'1.<-,V>6' '4' ; , / 7>'>.6'1. ' ; : .1; : .6%
'' ?1,?,6 7 ,<'>.' % K,4; : .' .67'>>#1>7>.%
% 5.'?1.6 >.<7'<<,<;.' =4 4<' ; ,411 .1'>.6' ?,67.6' '' E' 7'1. / .771.' 641'5.'041.'4' 4<' '471.'?'< .1' '466' 1. <?5'>.'5.771.68'5.=4.5'-' 7'>7.'1. / 6' '4'041.'4'>4' ; ,<71. 6. <J'?'1'4<'>.?47>'=4' .<'E' 7'?,17.1''47'<7''
A7,<6'5.6' ,1> <' 1;6%
% ,L 'N' .'>; <' 45.'=4.'5.' ; ,<71. 6. <J86, 5' 64??1 / >8' ; , / <;' >7'<7'5'' ;'46.'>.6'?546'?.1< ; .4@' '046% # .67'?'1'5.' / ,V.<' >4' ; ,<71. 6. <J'=4 ,<'E' 7' ?'66.1'>'<6'5.6'>.?'17. / .<76'5.6'5 0.55.6'5.6'?546'?.1' < ; .4@I' .7'Q.'?,411'' .<'E,41< 1'>.6'?1.4-.6%
' B ' <'?? V'<7'5'' / ,7 ,<'>.' % 4V>.58' Q 'Q,47.'=4.' ; .67 ''1'41'>4' ; ,<71. 6. <J'=4.' '<; .<' .-;=4.'>.'#5.1 / ,<7 ''J 7>'5.'>>?'17. / .<7'>4' 4V' >. / .%
' 'N' ''=4.67 ,<'< .67'?'6'>.'6'-, 1'6'5'' 64??1.66 ,<'>4' ; ,<71. 6. <J'>, 7'?1,>4 1.'4<'0.<>5 ; .' >.'=4.5=4.6' ; .<7' <.6'>.' / 45.'5 -1.6''' '> / < 671'7 ?<' >.6'?,67.68'<'>.'6'-, 1'6'5.6'5 0.55.6'=4 ,<'?.<7'E' 1.' ?'66.1' '' =4.5=4.6' ?, J<..6' > '1 67, ;1'7.6' 1>?'<>46' >'<6'5.6' >>?'17. / .<76I'?.4-.<7'?1,>4 1.'4<' .EE.7'0 .<' >'<J.1. @% '6 'J 7'>.'6'-, 1'6'?'1'5''64??1.66 ,<'>4' ; ,<71. 6. <J' ,<' 4 >7.'?'6' '4@' < ; / 01.6'>.' ; .77.' 6' 6. / 05. ;8' =4' 6,<7 '77' ; : .6' '' -,71.'#,<67 747 ,<8'5'' E';457>'> ; ;5' 1.1'5.416' ; , / / .77'<76'641'5.6' -.1 7'05.6' ?1 <; ?.6'>.'5'' / ,<'1; : ;'=4.'-,46'-.0'-,454'>,<<.1% ''5''H1'<; .8'?1<. ?.6'< .'7'<7'>.'J.<6' .J'1.6'?'1'4<' ?'71 ,7 6 / .' / '5' .<7.<>4' .7'5.6' .E7 ,176>.5'' / '5-. 5' 5'<; .''77'=<;<7'>.'7,47.6'?'176I'Q.'>. / '<>.'=4.'641'5'' ?1,?,6 7 ,<'>.' % ,V>;5' ,<'?'66.'' ,1>1.>4Q,41%
66; / 05. ;'?'66.'' ,1>1.'>4'Q,41%
<.'>.?47'7 ,<'>.6' . / ?5,V.6' '4'6.1- ; .'>.'5'' ; ' 66.' >.' 1;@51',1>Q<' Q ' 6.' ?1.6.<7.'' 5'' 0'11.% #.6' . / M ?5,V.6'?1.7.<7' '-.;' .<7<,46 '6 / .'5.'6.1 / .<7'>.'5>>' 5 7.' '4@' 1.?1.6.<7'<76'>.'5'' <'7 ,<8' .7'6 .<J'J.<7'' E,41< 1' 71.<7.' J'1>.6'<'7 ,<'4@'?,41' 5'' >.E.<6.'>.6' E1,<7 ;1.6%

J 'F ', ' '

'<6' 4<' / , / .<7' , 5' ,<'?.<7';1, 1.'5''?'71 .' .<' 5'<J;18' 7,<6' 5.6' ; 7,V.<68'=4.5'=4,'6, 5'5.41'.7'78'6.' > 671< .<7'>;5.416'E,<;7 ,<68' ,405 .<7'5.416' <7.1;76' ?1 ->6% ;7'<;'6 , ; ;4?.<7'=4.'>.'5''>.E.<6. ; , / / 4<>I' 7.5' .67' ; .5' .6?1 7'?405 ;'=4'E' 7'5''E,1;.'>G4<' . / ? 1.I' 7.5' .67' '-'<7'J.'> 4<' .7'7' 5 01.8' =4.' ; : ' ;4<' <.' 7: .1.0 .'?546'6,<' <7>1>7'=4.'>'<6'5''J5, 1.'>.'6,<'?'V68' ;5'<.'?5' ; .'?546'6,<'0,<: .41'=4.'>'<6'5''E.5 ; 7>' ; , / M / 4<.%
' ,6'E,<;7 ,<6' '4?1E.6'>4<.''> / < 671'7 ,<'<,<-.55.' <;<5' .1>..' -,46' : .<7;4'64; ; .6'>.'<,71.'1>-,545 ,<'Q

/ ' 6'#.67'>'<6'-,71.'>>-,> / .<78'>'<6'-,6' ,EE1.6'J>' <>1.46.68' >'<6' .@?1.66 ,<'>.' -,6' #<5 / .<E68' =4.' 66. / 05>.'<'7 ,<'5.6.'?5'E7' ;E'.1; : .15.6'<, / 01.4@' / ,7 E6'>.6' ; ,<E '<;.I' .55.-,46'. ; ,47. 6'-.; <7.1 78' .5' .55.'71,4-.'>'<6'-,6' '6%641'<;.6'4<.'1' 6,<'>.'?546' ?,41' '('5 -1.1' '' .6?, 1'= #6.6'71'-'4@'1` 67'1,<7'' 7,<6'5.6' .EE,176'>. ' .<<. / 6'>.'5''?'71 .%
<.'>.?47'7 ,<'>.' : 7.5'>.6' <-'5>.68' ; ,1'?,6..' > .<- 1,<' ' ->7>1'<6' .67 <71,>4; .'>'<6'5'' '55.%
/ ' -.-%8,2 5' ; ''4 >.66,B '>.' 1,1 E5' / / .>.Q'<<..E1'<='6.8'?1>76' '1.<71.1>'<6'5.' 6. <'>.'<,6'E' / 5 .68' .<8'-.174' >.' -,71.'>. .1.78' <,46' -.<,<6' 6,55 ; 7.1'5''E'-.41'>.'Q, <>1.'<,6'6.1 / .<76'2' ; .4@'>.'<,6'E1E.1.6' <,46'-'<7.1,<6'-,6'71'-'4@'0 .<' E' 6'476I'<,46' ; , / / 4< =4.1,<6'K5'Q.<<.66.'J4.11 >1.' 5.6'54 / .1.6'>.'<,71.' .@?>1 .<; .8 .7'<,46'6'41,<6' .<M ; ,1.'E' 1.'5.'6';1 E ; .'>.'<,6'- .4@Q, 416'?,41'5''>.E.<6.' >.'5''#,<67 747 ,<% & <'??5'4> 7%P
' ' ' ' ' 'N' ,46'-.0'>.Q'' ?'1'>.' 5,<J6'6.1- ; .6' / .1 7>.7, :7.<4' '' 1. ; ,<<' 6M 6'<; .'?405 =4.I'-,71.'6'<J''>.Q''#/#-.16.'?,41' 7'78' <' 6% '5''?'71 .' 7' 7.<'>'<J.18' 5'-?46' .<'1.67.'.<M ; ,1.' '' 1. ?'<>1.'?,41' .55.I' -,6' E,1; .6' . ?4 6 6' ?'1' >J.'1.<' 71,<7'?'1'5.'6,4-.<1'>.'-,71.'J5, 1.'I'.7'5'' H1'<; .'-,46' ; , / ?7.1'' .<; ,1.''-.;' ; ,<E '<; .''4'<, / ' 01.'>.6.6>. E.<6.416%34 56' ,6.<7>,<; 6.' / ,<71.1; .6' .<<. / 6'>.'<,71.'1.?,68' ; .6' : , / <.6'6,4>,V#6'?'1'>.6' 7V1'<6S' .5'-,468' ,4 8'-,46 / >1<.6.67 1,'05.6-.7#1'<68' -,46'6'41.0'5.41'?1,4-.1'=4.'5.6 <E 1 / 7.6'>4<'55, / ' / .'5 01.' ?.4-.<7 1.6 67.1' '4@ E,1; .6' > 4<' .6;5'-.' '1 / .I' .7'=4 '< / >'?'1' ' / ,41'>.'5''?'71 .'4<'6,5>'7' E1'<;' 6'< '' ?, <7'>>J.%
66. / 05>.'7,4Q,416''77.<>1 .'?'1'-,71.' ?1.6.<; .' 1.=, 7'-,6' : , / / 'J.68' .; ,47.1'' -,6'6.1 / .<768' .7'-,46' <- 7.' '' '66 67.1' ''6''6#'<; .%

@' ('4.('$-(*,' $,' +' # .* (' - ' '(. (,$,7 ' & 4($*('4.(!' * *3(!,=$' (' ' - (' '5 D$' (' ' ,(. . 4+' 4+.' *' +.(. (*, '$. +*(%-(' 3('' 0$($ +.-'' 5 $/' (0+ ,' ,(+.'' +$*''0(.'' ('3$(/ '(3.$(*,/'4+.' *('+33 + +,$ *' *++' (;' ; ,'3(,,(' -(4 ,+,$ *' '*33(-(*,' (*8$. ,$'E1I' (,*-$#,*,+' - ' . *$0('.'$,('-(' +.$'/'+8+*,' ('4. #(''('' $ ('.',$,(

/ ' ' ' 'I' ,6'?E.1.6' ,<7Q41.'''' / ,41 1'?,41'5''>.E.<6.'>.'5''5 0.17#I' '< / >6>.6 / > / .6' 6.<7 / .<768' 5.416' .<E'<76' - .<1 .<7' 641' 5.416' 71'; .6' >.?,6.1'641' '47.5'>.'5''?'71 .'5.'6.1 / .<7'> .71.'E >.5.6' ''5'' , I'6.1 / .<7'71,?' ?1,E,<>. / .<7' J1'-.'>'<6'<,6' ; ; . 16'?,41'=4.'<,46'5.'71' : 66 ,<6'Q' / ' 6% %' 8
'N .6%6 .4168'=4'<' - ,71.' ; - 6 / .'-,46' ; ,<>4 7'4?1.6' >.6' 1.?1#6.<7'<76' >.'5''<'7 ,<8 . .6'4<.'Q, 66'<; .'=4.'-,46'5.41'?1=' ;41.08 ; '1' 56'-, .<7 .<'-,46' .6?#1'<; .'>.'5''?'71 .8' 56'-, .<7 .<'-,46' ; .4@' ?,41' 5.6=4.56' 56' ,<7'5.'?546' ?'17 ;45 .1. / .<7 1'-' 55.% <.'J1'<>.'1.-,547 ,<'< '' ?4'6.'E' 1.'=4 '4?1 @'> 4<'J1'<>'<, / 01.>.'6' ;1E ; .6I' 5.' < -.55. / .<7'>.6' > 67 <;7 ,<6' : '' ?<' 6 .7'05 1'6'<6' ; '46.1 >.6'1.J1.76' '' 7,<6' #.4@=4'>.-' .<7'5.41' .5.S -'7 ,<' '' >.6'?1.Q4J.6% '6'?,41' -,468' =4' <.; ,<' <' 71.0'?, <7'5''?1 -'7 ,<'>.' =4.5=4.6'-'<7'J.6'5554' 6, 1.68' .J'E 7>''41''7,<6'6.6' ; : '1 / .685''5 0.17>'41'' 7,47'6,<'?1 @% < -.0'>,<.' '-.;' <7 / 7' >.6' 71'-'4@' >,<7'-,46'>.6' ,0Q.78'64 -.0'5.6'?1,J1.6'>.' '17'6,M ; '5I'E 74> .0' '-.;'6, ' ; .6'?1 <; ?.6'=4'6,<7'5''0'6.' >.6' 0,<6'J,4-.1<. / .<56I' ; .6'?1 <; ? ' =4.'>'<6'5'' : .,1 .' ,<'< .6'41' 7; , / 0'771.8' .7=4 4<.'66. / 05#.' > : , / 1<.6'E 01.6'=4'E47'5. 5.'4'>.6'J1'<>6' ,6'' / .771.' .<'?1'7 =4.' ?,41%5.'0,<: .41'>4' ?.4?5.% ,V.b'-.;' .<7<,46 '6 / .'5'' ; '11 .1.'<,4-.55.'.701 55'<7.=4 4<.' ; ,<67 747 ,<E 01.' ,EE1.''4''7'5.<76I ; .>.'6,<7'?546'>.6' ?5' ; .6' ; : .7. .68'01 J4>.68' ,07.<4.6 ' <71 J4.,4' ?'1'5'' E'-.418' ; .67'5.' -&;4' > 4<.'<'7 ,<' =4' -,46' ;5E.-.1'' ''5''> J< 7.'>.E,<.E ,<<' 1.6'?405 ;6I' ; .'6,<7' 5.6' <5>1E 76'>.'7,47'4<'?.4?5.'641'5.6=4.56'-,46''411'' ''?1,<,<; .1I' ; .67'>.6,1 / ' 6' .<E <8'-.;'5'' ; ,<6; .<M ; .'>.'-,6'-.17 68'=4.'-,46'41.0'Q,4 1'>.'-,6'64; .E.68

^Q,V.O'=,<;'Y."' / 6' '.'<,71.7 ,<67 747 ,778 6,V.66.6' ?5460 5.6' >E7E.<6;416' ' /.O' 5" ?'7- .'-.,' .<5:.,=' 6 '6 ?.I' ;.77.'?'66 ,<8' " -, <?7.'7 .6 J '<>.6' / .68' >,<<.1" >4'1.66,178' >.' .<.1 .' " 7,<7.6' -,6-.17468' .7' -,46' ?1,<-.1'O' = .' 5" ?1. / .1' ><' 7,<6' 5.6' 0 .<68' ;, / / .'5.'>.1' .?'7.1 / .'>.' ' / O 7 ,<8' . .6' 5" J5, 1.' > >71.' ; 7,V.4' > 4<' ?'V6' 5 01.8

5.'?1. 6 >.<7' 5 7' '<@Q. <.6'>.?47.6' 5" E,1 / 45.'>4' 6.1 / .<7I' '466Q747' / 55.';1Q6' E,<7' 1.7.<7' 1' 5" 6'5c.'>.6' / ,76' >.' ?'71 .' .7' >.' 5 O.17. .6' .5.-.6 .7' 5.416' ?,4 ' -.'<@' ?1,E.66.4168' 1> / 6' ?'1' 4<.'1. ; ?1, ; 7.'>.'6.?' 7 / .<76' .7' >.' ; ,<5 '<;.8' ?1E 7.<7' 4<'< / .< .<7' 5.6.1 ' <.<7' > >71.' E >.5.6' '4@' 5, 6' >.' 5" ?'71 .8' ' 5'=4.55. 6' - .<<.<7' > .71.' 'J1.J>6 .<7:,46 '6 / .'>.6' 6?.;5' ' 7.416.;5'7.' ?'1' >.' <, / 01.4@' '??5'4> 66. / . 76I' .7' 64;;.66 -. / .<7' 7,47.'5"Q;4<.66.'>.'14? -.16 5.8' =, / ' ?,6..>.?546>.U8 'Q.4<.6J.<6871' -.16.'5.'?'1=4.78' .<'1.?.7'<7' '-.;'71'<6?,178' 5.'6.1 / .<7' >.'6.'>.-,4.1' '4' 6.1- ;.'>.'5" ?'71 .

<'E' 7' 5.;741.'>.'?546 .416' '>1.66.68' W7' <,7' / / .<7' > 4<.'>1.66.'>4' > 671 ;7>. .>'<=4 ?1.64 / .8' > '?1 ' 5" ; , / O <' 6,<>4< ,4-. / .<7' >.6' 71,4?.6' .7' 5.6' / 4M < 7 ,<6' 64.;.66 -. <.<7' ; , / / '<>, .6' >'<6' > EE.1.<7.6' - 55.68' =4.'5.'1, '>.-' 7' 6<;;.66 -. / .<7' > .7.1' 6.6' 5, 6' 2' 7,47.6' 5.6' ?5' ; .6' E,17.68' .<' , ,1, / .<.'<7' ?'1' ,<7' / .>V8' .7' >.'5" 6.'?,17.1' 641' '1 6' " 5" 7J7.>.6' 71,4?.6' >.' J<.' .7' >.' '1 / .'>.6' / >.,<7.<768

5.?1gQ>.Y7' '<<,<..'=4. >8' 'E'V.77.' 'Y<' ,O .7' " .7 / 4<4< =4.1' " 66. / O5..8

' 4 'N .'1. , 6' >.' 4@. / O'<1J8' 6,46' 5.' ;';:.7' >.' >.'K,4 55.'8>.4@'.@. / ?5' 1.6' / ?1 / 6' >E76" 5.771.' "1 66. / O5. . ' 5.6' ?1,Q.76' =4 Q5' ' / ,4;.' 6;'1.'5 6' .<78' 7' / .';,<- .<>1' 7' / .4@8' 6'<6' >,47.8' >.'5.';, / O'771.'=<.'>.'1.?,<>-.' " 6.6' ?.16,<<'5 7.6' ' ;.'<G.67' >,<.'?'6' ?,41' >.'K,4 55.'=4 ' / .' ; ' 5, / < .8' ;.'< .67' ?'6' / E / .'?,41' -,46 .66 .4168' =4 ' / 04 ' <,1.O' >.' -,71.';,<5 '<;.8' . .67' ?,41' ..4@' =4.'6,<' '6M 6.17 ,<' ?,411' 7' 71, / ?.1' =4.'Q.'>, 6 5" 1.5.-.1' ; < / V' >.',<;.' ; , / / .' .1<. / '>.'5" E,1 / .'>.'J.4-.1' <. / .<7' =4.' -,46' '-.O' .7'O5 .I' .66 .4168' .'4.'1.<,4 ' -.55.'?, <7' 1',<' 6.1 / .<78' [' 6Q.'64 6' ?1.7' " -. 6.. / ,<' 6'<J' ?,41' 5.' / ' <7.4 1 & <' '??5'4> 78P

66. / O5..' ,1>,<<.'=4,'5.'> 1.'>.' 8' 'E'V.77.' 6.1" ; ,<6 J<>>'<6' 5.'?1, ; .6 -.1O'5

41' 5.' 1'??,17' >.' ' #' / 468' 5.6' >.;1.76' 64 '<76' 6,<7' 1.<>46N

& *+,$ '$+ (,' B' -(' C

4(*+$?-(3. ,(' (' ' .' # * +'+ (3,("+ '4+$(*,' -(" 4(*'$ *'/' 5,$(' .'4) 3' 4+$(.+' 4.+0$' $.(>(*,'(,'+' ,$,.(' ,$(' '4(.'/'4 .'3)+3 *(' -("+**((" BHTI' (,' HT /' +' ' (' -(' WHP/GHH $O' W ' " W -(* /' +5 ((' '(.+' .(4+$%,$(' (,.((" 4(.' **(" 3 4.$'(" (*' (,+,'+**(2('+*'4.('(*,' -(3.(,/' (,' ' $O+*,' $+' 4. 4 .,$ *'4 .,(('+*-$,' (,+,7' (,'(*' ,.(' J' '(.+' .($" (*,.(' (" +$Y$" -(' # '$ $*9,(/' -(' +3+&' -($('-("'3$(*, (+/',+' ' > ('-('P/III' 4 .=' $ 4.(''$3 d -(" **+ (" 3((',(" - ' 20$$&'$(3 (I' +5 (g;' (' '(.+' 4.$'(' ' .' (' # *-" -(,* $ '-(', * '+ 2' 9.+,$#$3+,$ *' .' ('4+$((*,' '(.+' #+$,' -+*" (",((" (,'++ ,'3 *-,$,$ *" - '-(3.(,' - ' ZDM #(O.$(.' -(.*$(./I' (,'(' ,.(' + 2' 3 *-,$,$ *" ' $8+*$(";

E (" 4(.' **(" 3 4.$'(" + -$,'(,+,'*(' '(.4*,'4+8((" 5 (*'$ ',$#$+*,/' + 2' ,(. (" - ' -(3.(,' - 'WFL $*' -(.*$(./' -(' (.' - 3 (' +3,*(' (,'6+)$, (' -+*" (' . 8+ (/+$*' ' 5 +' -(' +' 5 $,$+*3(' -(' (." $ 4 '$. *' /' (,' - '4+$((*,' -((' -(2' -(.*$(.+',(. (" -(' (.'3 * $) ,$ *'4+,.$,$5 /' *' -(' +' -(3+.+,$ *' 5+ ((" + '4+" ((' -+ " ' 3+" -(' $+$.(' *('3 *,.$) ,$ *'4+,.$,$5 (7

.' ' (\ -$,(" 4(.' **(" '(3 *,',(* (" -(' -(3+.(.'(24.('$!' +((*,/' -+*" $+' 5 $,,+*3(' 5 ((" - **(. *,' - /' '(3 ." '5 $' (.' '(.+' 4+8(' '$'((" '(' 4.('(*,(*,'(*'4(.' **('4 .' (' .(3(. $./' ' -+*" A+' 4. (*.+,$ *' 5 ((" - **(. ,' +' 3(,'(##(,/' 5 (("*D *,'+ 3 *('+ /,.('4(*'$ *' - *,'((", DD 36(*,' (" +.. .+9("(*' ,*,' '(*'4+. $(/' +' 5 (5 ('5 + $,8' 5 ('3(' ' $,/' *'$'+ 3 *' ,.+$,((*,' 3 +3,$O.,(7

:'P& EB '(.+' $,'-(- 3,$ */' ' .' (" ' '5 $'.(.$(*-. *,' + 2' 4(.' **(" 3 4.$'("-+*" +4*(2('+*'4.('(:.,' -(!' F ' ' '5 $' (.'+ .+$, ,('4+8(' ' .' ("'(3 ." -(' +' +3

3 .-('8' 4+.' "( ) ((' *+,$ *+ "4 .' +**(3' BHTID +' 4(.' **(" 5 $'*%(,+$(*,'4+'/'+' (4(5 ('-('("-(3.(, $'(' 4.$'(" -+*" -(" (,+," * $*+,$#' '0

66. / O5..'<'7 ,<'5.'>.;-.5.'=4.'5.6' ?.<6 ,<6' ?' 7..6' '4@' >.4@' .7'76' '<<.@.6' ' ' ?1.6.<7' >>;1.78' .7' >7' 5.' / ,<7'<7' .67' >.' C8*) ' 5 V * 6 U' > 8' .7' 1' 6.6' " ;:'1J.'>4' E.1 / .1' >.6' / .66'J.1 .68' ?'1' 5.'O' 5' >' E. -1 .1' >.1< .18' 6.1,<7' ' ;=4 77..6' ?'1' 5.> 7' E.1<' ;,<E,11,. / .<7' '4@' ;5'46.6' >.'6,<' O' 5

66. / O5..'<'7 ,<'5.'>..1E.7.'=4.'5.6?.16,<<.6=' 'V'<7' 6.1- ' 7' 7' >'<6' 5.6' ?5' ; .6' '.'Q4J.6' ,4' > ,EE ;<' ;:'1J. 6' >4' / < 67.1.'?4O5 ;' ?1E.6' >.6' 71 O4<'4@' ?.' >'<7' .6?';.'>.'- <J7' '<<. .6' '4' 1', <68' '41' .<7' ?1.7' >.1' / .<7' ,O7.<4' >.6' ?.<6 ,<68' .7' =4 '6,<7' '11 -..N' >J.'>.'9 ' ' 68' ,O7 .<>1= 75.1.5<O5 66. / .<7>.5;' ' ?.<6 ,<68' 6,46' 5" ; ,<> 7 ,<' 7,47.E, 6' =4 . 5.6' <.'?,' 1,<7' ?'6' .@.>>.1' 5" 6, / / .>.' 8 ' 5 - ?,41;.' =4 '6.1,<7' >J.6' >.'9 ' ' N[' '<68' .7' 5" 6, / / .'>.' C8U' 5 -8' ?,41';.4@' =4 '6,<7' J.6' >.' (' " (' '<6

.6' / 'J 671'56' .7' ,E5 ; .16' ;:'1J.6' >4' / < 67.1.'?' :5 ;'>'<6' .6' 71 O4<'4@' >.' 5.'>.'#,16.'=4 '< >7' &' ?'6' ,1 J <' 1.6' >.' ; .77.' 5.8' .7' =4 '<.'6.1' .<7' ?'6' ?.5.6' '4@' / ,< .6' E,<;7 ,<6' ?'1' 5.6' .5.;7 ,<6' E' 7.6' " E' 1.8' '41,<7' >1, 7' " 4<.' ?.<6 ,<' >.'1.71' 7.8' 6' ,47' 6.1- ' >'<6' 5.6> 7.6' E,<;7 ,<6' ?.<>'<7' > @' '<<. ' #.6' 1.71' 7.6' 6.1,<7' 5 @..6' > '?1E.6' 5.6' / 91'.6' O'6.6' >.;1.7' ><' ' ' ,>7' (* 8' ;<' 1'??1, ; :'<7' 5.6' 7.1 / .6' 5.6.Q\,=4.6?,-7..6' -' 5 71.'?1. / .1' >4> 7' >.;1.78' / '< 761.' =4 '?1.6' > @' '<<..6' >.' 6.1- ;.' 5.6> 76' ' J 671'76' .7' ,E5 ; .16' ,O7 .<<.<7' 5.' =4'17' >4' 71' ' / .<7' >,<7' 56' Q,4 66'Q.<78' .7' ?,41' ;O' ;4<.'>.6' '<<' 4 >1 .41.6' 5.' - <J7 .1'.'>.6' 71, 6' =4 '176' 1.67'476

" 67'<;.'.67' 5.- [' " ' : .41.6

' ' @ ' P' A

8 ' 'Q 'G '

5.@'<>1.'K.'4:'1<' 6' =4 77.'5.'E'4#.4 5' '4' 7' 5 .4' >.'<, / O1.4@' '??5'4> 66; / .<76

8' #:'15.6' ' / .7:'?1.6 >.' 66. / O5` %

' % ' 'N ' -" -,46' 971.'>,<<.'5.;741.'

771.6' / ?,17'<7.6' >.6' >.?'17. / .<56' E1,<5 .1.6

<' >.' 5.6' 6.;1.7' 1.6' E' 7' 5.;741.' > 5 / .'5.7' >.6' '> / < 671'7.4168' ; , / ?,6'<7' 5.' > 1.;7, 1.' 7' K'66.6 V1.<. .68' 1.4 6' '4' > 1.;7, 1.' >4' > 671 ;7' '4@' ,E7 ;Q.16' / 4 ; ?'4@' >.'5" V 55.'>.' '4

'8 ' ' ?W ' + ,46' ?1.-.<,<6' 66. / O5' <'7 '<<5;'=4.'5.6' 6?'J<,56' 6,<7' .<71.6' >'<6' <,71.'>' ?'17.< .<7?'171, 6.<>1, 76' > E .1.<76 ,46' / '<=4.' >.'71,5 <.6' >.' 5 J<.8' > '1 / ;6.7>.' / 4< 7 ,<6 ; '41,<6' 1'77.<7 ,<' >.'>,<<.1' >.6' <,4-.55.6' " 66.' O >.'<'7 ,<'5.' " / .641.'=4.'5.6' >-.<. / .<76' 7.6' 1.' >1,<7' <.;.66' 1.6

' , 'N .' -' 6' -,46' >,<<.1' 5.;741.'> / .'5.7' >.6' '> / < 671'7.416' ><' > 1.;7, 1.' >4' >.?'17. / .<7' 5" ! 1,<>.

*' (' ') ' ,4 1.;;-,<6' >'<6 / , / .<7' 4<.'5.771.'>.' '<8' >4' C*8' =4 '<,46' '<<,' .<71..'>.6' 71,4?.6' .6?'J<,5.6' >'<6' 5.6' -'55..6' >.' ' 1.7,<' .7' > 6?.' .7' >'<6' 5.'?'V6' >.' ,45. ,46' '557' E' 1.'5.6' > 6?,6 7 ,<6' .6' ?546' ?1, / ?7.6' ?,41' .<-,V' >.6' / 4< 7 ,<6' .7' >.6' 71,4?.6' <'E ,<'5.68' ;'1' <,46' :' V.<6' ;'<' 71,4?.6' >.' 5 J<.8' <' ; , / / '<>'<7' >.'>' 6 ,B ,46' >,<<,<6' ,1>1.' " H,4 55';8' > 1.;7.41' ' K'66.6 V1.<..68' =4 ' .67' ; 8' >.'6.'1.<>1.'6'<6' >.56' 6,<' ?,67. 56.1' 7.66.<7 .5' > .<-,V;18' 5.' ?546' 7>7' ?i8' 6 O5.8' >'<6' ;.77.' ?'17 .8' >.6' ,E5 ; .16' >.' ; ,<5 '<;.8' ?,41' ; , / / '<>.1' 5.6' E,1;.6' =4.' <,46' 1'66.< O5.1,<6' #, / ?7.O641' <,71.'O.5.I' <,46' '-,<6Q41.'>.- -1.5 ' O1.6,4'>.' / ,41 / '<,46' 7 .<>1,<6' <,71.'6.1 / .<7

' 'N , ;'4<.'5.771.'>4' <9 / .'>.?'17. / .<78' ?,67;1 .41.' " ;.55.'>,<7Q.' - .<6' >.' -,46' >,<<.1' 5.;M 741. .6' 6?'J<,56' 6,<7' 1.<71.6' >'<6' 5.416' 5 / 7.6I' 5' ?'1' 7' =4.'5" <,4-.55.>.1'11.67'7 ,<'>4' 1, ' " ; :'<J.

7,47.6'5.6' > 6?,6 7 ,<6% ,47.' <,71.' ?. <.' '' >7>' >.' ;,<7.< 1' '1>.41'>.' "J'1>.'<'7 ,<'5.8' 'U' :.41. '>4' 6, 5 8'<,46' '-,<6' '??1 6' 5" <,4-.55.' >.' H.<71>.'>.6' 6?'J<,568' ")' :.41.6'1'17 55.1 .' .7' 7' . / 0'1=4>.' .7' 5 <.'E,1;.' / ?,6'<7.' 7' 7'?1.?'1..'?,41'5.'5.<>. / ' <% ,46' -,46' 5.' 1.?. 7,<68 ;, / ?7.0' 641' <,71.' 6.1 / .<7% ,46'Q, J<,<6' ;' 5" ;,?5.' >.'5" 5.771.'=4 ' <,46' " ;7>' '>1.66E.' ?'1' 5.6' '> / < 671'7.416'>4'>.?'17. / .<7' >.6' '<>.68' =4 ' ?,17.' =4.'5" 1.71' 7.' >.6' 6?'J<,56'5. 1' ".7.''<<,<;.;'?'1'5.6' '> / < 671'7.416'>4'> 671 ;7> 1' 7:.68' <6714 76'?'1'4<' ; ,411 .1'.@?.> .'>.' '-'1.<<.6% < / . / 01.% >.?47.'>.' ; .'>.?'17. / .<78' E' 7'5.;741.' > 4<.'5.771.' > ,4' ' 1.6457.' =4.' 5" <,4-.55.' >,<7' 5' - .<7' > >71.' >,<<.' ; ,<<' 66'<;.' 2' 66. / 05..' " ;7.' ,;;'6 ,<<. .'?'1'44.'1 @.'641-.<4.'.<71.'>.6'K'6=4.6' .7' >.6' 6?'J<,568' "1' 6,<'> 4<.'E,197'=4 ,<' .@?5, 5' 7% ' I' 5'V' " .4' - ,5'7 ,<'>.'7.11 7, 1.8' 5' ?'1' 7'=4.' ;.'< .67' =4.' . E.7> 4<.'=4.1.55.8' .7'=4 5' .<' .67' ?.47 >71.'>.' ;.77.' <-'6 ,<' ; , / / .'>4'>.0'1' =4.1'.<7' >.6' :J5' 6' >'<6'5" ; >.-'<7'?1,-<;.'>.' K1.7'J<.% 'V' " ;;?.<>'<7'>.6' / .641.6' '%?1.<>1.N 5' E'47' ';;.5.1.1'5.6' ,1>1.6' =4 ' 6,<7'>.Q">,<<.6'>.'E' 1.' ?'1-.< 1'>.6' '; / .6' '4@'>.?'17.1'.<76' E1,<7 .1.68' .7'V' .<-,V.1'>.6' ,E5 ; .16'J.<. 1'4@'.7'>.6'71,4?.6'>.'5 J<.% 5' .7' 7' -1' ' =4 5'V' .E77' 4<.' <-'6 ,<8' 5' E'4>1' 7'=4.' 66. / 0 .'<'7 ,<'5.'>. / '<>>7'1.?'1'7 ,<'>.';.7 ,4M 71'J.I' .7'6' .55.'54' .7' 7' 1.E46>.8' =4 .55.' .E7' 7 1 7' - .<M J.'<;.'8' ;'1'<,46'6, / / .6 ; '?,41'6,47.< 1'5">J< 7V' >.'5" J1'<>.'<'7 ,<'=4.'<,46'1.? >6.<7,<6% .'>. / '<' >.'=4.8' ?,41''??1,?1 .1'7,47.6'5.6' / .641.6' "5"<'741.' >.6' . -><. / .<76' .7' >.6' ; 1; ,<67'<;.68' 5.6'5.771.6'6, .<7' 1.<-,V>.6' '4@' ; , / 5.6' > ?5, / '7 =4.' .7' / 5 7' 1.8' =4 ' <,46' E.1,<7' 5.41'1'??,17' >. / ' <' / '7 <%%

#.77.'?1,?,6 7 ,<' .67' '>,?7. .%

41'5.'1'??,17'E' 7' ?'1' % H1. 7.'48' 5.6'>>;1.76' 64 ' -'<76' 6,<7' 1.<>46N

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>'<6'5.6'14.6' >.' # '1?.<71'6' ?,41'V' / ' <7.< 1' ,1>1.8' 66. / 05>.8' ; ,<E,1 / . / .<7' '4' -,.4'>.'6,<; , / 7>' > M ?5, / '7 =4.'8' '47,1 6.' 5.6' ; , / / 66' 1.6' / >> '7.4 6' ' ?1.<>1.' ; .77.' / .641.%

<' E' 7.<64 7.'5.;741.'> 4<.'5.771.'>,'> 1.;7, 1.'>4' >.?' 7. / .<7'>.'5" ,6.55.8

% K,4 55.' " '>1.66>' '4' ?1, ;41.41 6V<> ;' >.' <,71.' >.?'17. / .<7' 4<.' ; ,? .' / ?1 / ..'> 4<.'5.771.' " 6' 6.1'05..'<'7 ,<'5.% 546 .416' .@. / ?5' 1.6' ,47' .7.' > 6' 71 04.6'5.' / > / .'Q, 41' >'<6' 5" - 55.% " / 457 ?5 ; 7.' <.' <,46'.<' "?'6'?'14'>'<J.1.46.Q5,16=4 ,<' ">.6' / ,V.<6% ,<' 'J 78' .7' ,<'<.' / .<' ; .'?'6% ,46' '6641,<6' 66. / ' 05>.'<'7 ,<'5.'=4.'<,71.'6.;41 7.' .67' .J'5.' " < ?4 6' 6'<;.'>.' ,6' .<<. / 6%

% K,466 ,<' E' 7' 5.;741.'>.6' 1>7>6?1 6' ?'15.>>?'1' 7. / .<7'>.' ,5 .5 ! '1,<<.8'5,16'>.'5" E4 7.' >4' 1, I' 56' '77;67.47' 5" E.1 / .7.'.7'5.' 71 ,7 6 / .'>.6' ; 7,V.<6'>.' ..'>.?'17. / .<7%

% . 'N <.'Q.4<.>' / .' / " ; :'1J.'>.1. / .751.' " 66. / 05..' <'7 ,<'5.'C) ' 5 -I'?,41' .<71.7 .<' > 4<' 6,5>'7%

% , '. ' ' .' - .<6' >.' 1. ; . - , 1' ?546 .416' 5.771.6'.<-,V. .6' ?'1'5" / 4< ; ?'5 7.8' 1.5'7 - .6' " ' ' 1.67'7 ,<'>4'1, I' - ,71.' <7.<7 ,<' .67' 6'<6'>,47.'>.'5.6' 1.<-,V.1' '4@' ; , / 7.6' ; :'1J. 6'>.' ; .77.' 'EE' 1.% 66. / 05..'1.<-, .'5.6'? .; .6' " 6.6' ., / 7. 6%

% 4 / .70' E' 7' 5.; 1.'> 4<.' <6714;7 ,<' '4@G' ; ,1?6' '> / < 671'7 E6' 641' > - . 6' ,0Q.76' ; ,<; .1<'<7' '5 .<' ' 7 ,<'>.6'>, / ' <.6'<'7 ,4'4@%

?1.6' 5 <.' '66.0'5,<J4.'> 6;466 ,<' .55.'.67' '>,?7E.%

,46'5" 1'??,17.1,<6'>'<6' 4<' ?1, ; : '1<' <4 / .1,%

% 'N .' / < 671.' >.' <7. 1 ;41' " 1.J4' >4' >. ?'17. / .<7>.6K'66.6 V1><; .6' 4<.'5.771.'6. / 05'05.' ' ;.55.'>, 7' - ,46' - .0.4'; ,<<' 66'<;.% 4' .7 % ,<5' / ,1 <'<.'?.<6.<7'?'6'=4.'5.6' / .641.6' ?1 6.6'?,41' .@' ' ?5, 7'5 ,<'>.6'0, 6' ' .<7'?4'>,<<;1'5 .4' " '4;4<.' : ,67 ' 5 7.% .6' >.?>; :.6' J6?'J<,5.6' < .<' / ,<71;<7' ?'6' 5" / , <>1.'71' ; .% #.?.<>'<7' % ,<7 / ,1 < - .<7' >.'6.' 1.<>1.' ; : .0' ' / 0'66'>.4V' > 6?'J<.'?,41' '-, <'>.6' 1.<6. J<. / .<76% %%

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% 'N .'64 6' ; :'1J>'?'1'5.' ; , / 7>' / 5 7' 1.' >.' - ,46' 1.<>1.' ; , / ?7.' >.' > EE>1.<7.6' / .641.6' ; ,<' ; .17; .6' ' - .;'5.' / < 671.'>.'5" J4.11.% " ?1. / .1.' ; ,<' 6 67.' " ? ,17.1' '4' ; , / ?5.7' 5.'?.7 7'<, <01;'>.'1.J / .<76' =4 '<.'6,<7'?'6'641'5.6' E1,<7 .6I' ; .'=4 '>5. - .1" " ? <6' >.'C 8 ' : , / / .6'<, '71,4?.6'>.'5 J<.8' .<' '4J / .<' 7'<7' ?1,?,15 ,<<.55. / . 7' 5.' ; ,1?6' >.'1'17 55.1 .% .6' >.?'17. / .<76'>.'5" ,6.55.8>.' 5" .417: . .7' >.6' 1M >.<<.68' ?'1' 5.'1.6<57'7' >.6' ; , / 0 <' 6, 6'?.15 >.6'>;'

% K,4 55.86,<7'5, <'> >71.'>'<6' .7'7' ,<' 56'>. -1' .<5' 71.% 56'< ,<7'?4'>71.'?1E. E.'=4.' ?'1' .<.1J ;'>. ' ; 7,V.<6'>.' ; ;6' >.?'17. / .<76% ,6' ; , / / 66' .6' ,<E' ?1 6' >.6' / .641.6' ?,41'?1. - .< 1' 5.6' >'<J.16' ;6' ?546' ?1.66'<768' .7' ; .6' / .641.6'>, .<7'>71.' ; ,<E 1 / >;6% ;' / , / .<7' .67' - .<4' >.' 1. ->5.1'5.'6.;1.7'>.' <,71.' ?4 6M 6'<;.'8' .<' '66, ; '<7' " <,6'>.E.<6.416' ; ,<51.'5.6' . <; ' / 6'>4'>. : ,16'5.6' J'1>.6'<'7 ,<'5.68' =4 ' ?'1'5.41'0.5.' .7' 5.41' - '5.41'6 .<' 6 ,<7' / ,<71. .6' 6 '> J<.6% 5'. 7'>7.' 2'>.6 1.1'>.'Q, <>1.' " ; .6' ?1. / .1.6' > 6?,6 7 ,<6' 5.6' 1.J5. / .<76' >.' > 6; ?5 <.' ? , 41' 5" J'1>.'<'7 ,<'5.'.7' 5.41' 1.5'7 ,<' '- .;'5.6'71,4?.6'>;'5 J<.I' / ' 6. .67'H,0 ' Q.7'> 4<'71' - ' 5' '66.05,<J=4 < .67?, <7. ; ,1.' ' ; : .-#' .<' ; .' / , / .<7% 3 4'<7' '4' 1. / ?5' ; . / .<7'>.6' ,E5 ; .16' J><>1'4@8' =4 ' ,<7' '0'<>,<<>'5. '1'?,67.8' 5" " .7>'5' 66 ' '4' / < 671.'>.5" J4.11.I' 5'6 .<' , .;4?.' .<' ; .' / , / .<78' $ 5'6' 5' =< 4<'?'71 ,7 6 / .>?1,4->.67'5.'?1 <; ?'5' / ,7 E' =4 '>, 7' <E54.1'641'6,<' ; : , @% L , ; 5.'?1,Q.7>;'>>.1. ' >.' - ,71.' ; , / 7.' / 5 7' 1.I

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L K %

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.'< '-' 6?'6 '77.<>4' ,7 ;'5.751.'?,41'-,46 1. / .1' ; .1' >.' 5'' ?1.;.>.<7.' .7 -,46 7. / , J<.1' / .6 6.< ' <.<76 641' 5- '. / .<7 >4' C A% .' ?.4' >.'6>1.79' >.'5'' ?,67.'>'<6 ;.6 / , / .<76 >.'71,405.68 5''>.E '<;.'>.'5,47 ;.=4 / .<7,41' 7 ''K14@.55.68 / ,<7H' 7Q.7.1' / ''5.571.' '4 E.48 .7 -,46 .< '41.0 >,1.<'-'<7 > 4< ?'V6 / , <6 64Q.7 '' ;'47 ,<8 Q.';1, 68 =4,' K14@.55.6 8 =4.'Q ' '=4 77.' : .1%'-.;' ?5' 6 1 ?,41'-.< 1' / .'1.?,6.18 >'<6 5'' 71'< 4 55 7.' >.6 / ,<7'J<.6>.' # :'4@ H,<7' <.' .5'>.' ?'' ' .' 'J 7'7 ,< >,<7 Q ' '.7.'';;'05.'?.<>'<7 5.6>;1< .16 / , / .<76 >.' / ,< 6.Q, 1' >'<6 ;.77.' - 55.% ' '6,4EE.17 >.6 .@..6 >.'Q, .'>7 >.' -1.66.'>.'5''<,<-.55.' >4' C % ''97.'6.<6 05.' ''5'' ?1,E,<>.'>,45.41'.7 '' '0'77. / .<7 4 '' ,;;'6 ,<<1'' ;.55.'>.' '11.67'7 ,<8 ' 6 '11 -..' .' ,46 .41 ;7 >.' % > 17, 6 / ''?'14'5.' / , / .<7 >.' / .5, J<.1' >.';.'6.Q,41'>.'E'<'7 6 / .'.7 > .@'J.1'7 ,<% .4 6' 7 '' =4.56 .@;.6 ;.6 6.<7 / .<76 ?,411,<7 <-, 1' '?,177 5.67.5.6 ''5''-4.'>.';,.6 ?1 <;.6% ''>,<.'?1 6 :'' 0 5. / .<7 5.'?1.7.@7.'>.' / .'1.<>1.' '' ?'% 046 ;.4@ =4 '<.'6,<7 ?'6 ''K14@.55.6 6,<7 '' @ 5' #0'?.55.8 ,4 P.'1, '>.' 4.>.' .67 .< ?1, .' ''7,47.6 5.416 <67'<;.6 .7 E,55.6 ?1,?,6 7 ,<6% ''1.<;,<71.'641'5''1,47.' .-.=4.' > 11'6 =4 ' .< -.<' 7 .7 =4 ' 6.'1.<>' 7 '4?1.6 >.6 ?1 <;.6 ?,41' 5.'J1'<>' ;,<6. 5% < ,5E ; .1'64.>, 68 .< .,411 .1'>4'1, '>.' 4.>.8 6 -' 7 >.'?1.6 '-.;'>.6>.' ?.;:.6 ?,41' ,<6 .41% < > 6' 7 '' K14@.55.6 =4.'5.6 ?1 <;.6 < V E.1' .<7 =4 4< 71.6 ?.7 7 6.Q,418 > '4 '<7 =4.' '1;: >4;:;66.' .< .7' 7 E,17 . / ?.71 .% 56 V '41,<7 '77.<>4'5.6 <,4-.55.6 >4'1, ' .7 >.'6,4 '11 -..' ' '1 6 ?,41'6.'6.?'1.1N % > 17, 6 ?,41'1.7,41<.18 > 6' 5 ,<8 >4';,7.'>.' ,1 / 68 ?'1' @ 5' #:'?.55.8 .7 ,<6 .418 Q.'<.'6' 6 ,48 * ' '8 <.'?,4-.0 -,46 E' 1.' >..'>.'5'' 71 '7. 6.' >.' % > 67.1<'0V .7 >.'H.16.<I' ;.?.<>'<7 ;.'>.1< .18 ?'1' 7 1,,6%8' 7' 4 =4 ,<<.'5.';1, 1' 7% '' '?'17 ; 5 .1. / .<7 7,4;:.'>.\ .7'7 >4' ?1 <;.' >.' %%%%8 =4 ' < '' - 1 7'05. / .<7 >.8 >.E'47 =4.' 0 ''1 67,;1'7.% ' .67 > 4<.'6.<6 0 5 7.'.@M 71. / .'8 .7 5'' <,4-.55.'>.'5'' 05.6641.'>.'6,< ' / '5.'>4.' >.' # :, %%%%8 Q, <7.' ''7,47 5.'1.67.Q '-' 7 - 1 7'05. / .<7 '55.1.% ''5.J.1.7.'>.' ;.77.'' / '0 .' <'7 ,< E4J 7 -.'<.' ?.1 <.7Q' / ' 68 '4'1.67.8 =4.'5.6 / ?1.66 ,<6 6, .<7 0 .< ?1,E,<>.6 .7 >41'05.6% '11 -..'>.6 ?1 <;.6 1.5.-' 7 >.Q''5.6 .6?1 768 .7 56 <.'-, .<7 ?'6 '-.;' =4.55.'E,5 .' 56 ;,41.<7 '' 5.41 14 <.'.< ;:.1;:'<7 4<.'J4.11.' ; - 5.'8 =4.' '11.67'7 ,< >4'1, ' :.41;46. / .<7 1.<-, .' 0 .< 5, <8 6 '.55.' <.'5''1.<>'?'6 .<7 .1. / .<7 / ?,66 05.% 55.' <.'?.47 '11 -.1' ''?1.6.<7 =4.'?'1'5'' ;,'5 7 ,< >.6 ?4 6M 6'<;.68 '' 5'=4.55;'Q.' ;1, 1' ' > EE ; 5. / .<7I ; .?.<>'<7% ;.'6.1''6.5,< 5.6 ; 1; ,<67'<;.6%%% < / '' '6641' =4.'5.' :, / ,' >,' .1;''-' 5'> 7 1 ''0 ' 0 A'

1 0 ' ' 'R R'07. .'I' 5.6 '471.6 6,4-.1' <6 6.' 175J5.1,<5 641'54 8 .7 5 < ''641. / .<7 ?'6 .<- .'>.'E' 1.' 5''J4.11.' ''7,47.'5'' <'7 ,<% ',4' C ' / 55.' :, / / .68 '4 ?5468 =4 ''41' 7 ?4' >.7';:.1'>.';.'?'V] ;'?,41'6,4' 7.< 1'6, ' 0.'4 E1.1.8 .< ;'6 =4 '6.'E>771,4-.' ''5''7.7.' >.'6,< '1 / ..8 <.'6.1' .<7 '4Q,41> :4'=4 4<.' J,477.' > .' 8;7 <.'5' 66.1' .<7 ?'6 >.' >,<<.1'>.' <=4 .74>.' '' '1;0 >4;:.66.'8 '77.<>4'=4.'5'' / , <>1.'> / <47 ,< >.'6.6 71,4?.6 .@?,6.' ''4<.' <6411.;7 ,< >'<6 5.' K1'M 0'<7%

.'64 6>'<6 / ?'7 .<;.'>.'6'-, 1' '11 -..'.75''64 7.' >4'1.7,41'>4'1, ' '' '1 68 '' ;4<>4 7.'>.' 66. / 05..' <'7 ,<'5.' ''.7.'6405 / .'.7 54 'E' 7 :,<<. E >'<6 7,47.' 41,?.% 4 66 .0 -,46 1.67.1' 4< 6 .7 E' 1.' ' <6 ' 1.1'

S $' '+' , / .' ''%

<' 7;.5'' ;,<E '<;.8 5.';1.> 7 .7' 5'' ;.17 74>.'> 4< J,<' -.1<. / .<76,5 >.' .7 67'05.' 'L , 5'' / .6 -..4@8 / ,< ;:.N '/ I'>1.66.0 1',G'Q.' -,46?1 .8 >,1 <'-'<7 -,6 5.7 .' '% i %' .'64 -1''>.';,.41.7> .6?1 77,47.6 -,6,?.1'7 ,<6 >,<7 Q.' / .' E5'77.' =4.' -,46 -,4>1.0 0 .< ;,<7 <4.1'>' / .'7.< 1' '4 ;,41'<7% ' ' $

% ' ,< .41 .7 '>' / .'6,<7 '11 -.6 2 K14@.55.6 5.'C ''4 6, 1% % > 17, 6 .67 '11 - ' '' K14@.55.6 5.'C9 '51, 6:.41.6% '<66'-, 741.'>.'64 7.' 7' 7 % #'5,<<.8 1'> .4@';, / 0.'6 5 V '-' 5 64Q.7 >.' 71.% .6 ?1 <;.6 < ,<7 ?'6 -,454 1.;.-, 1 5.6 H1'< ' 6 >'<6 5.'?1. / .1' / , / .<78 56 ,<7 > 7 = 56 -,45' .<7 '-, 1'>.6 <,4-.55.6 >4'1, ''4?'1'-'<7I % > 17, 6 ''1. 4'5'' - 6 76 >.'=4.5' =4.6 E'-, B .7 ?1 - 5 J .6% + .- =4.'> 11'6 / .'?'M 1' 7 .71.';.'=4 56 ,<7 >.' / .4@ >'<6 5.41';,<6. 5% + 5 V '-' 5 ' ,4 C ,5K; .16 >4'1 J / .<7 >.'#,5,<.:! <>' 1'5 '77.<>46 2 K14@.55.6 5.'C)I 76 '-' .<7 > 6.17 ' >.' 4< .1=4.%'-.;'5.6 >1'?.'4@'>4'1.J / .<7% 56 ;1,V' .<7 5.'1, ' '' ,<J [V% > .4%F

E K 'K' / .

< 3 ' 'QW ' + '?. <.'5''<, 7-.55F >;'5''> 6?' ' E 7 ,< >4' 1, ' ' 7 .55.' .7.' '<<,7 ;.' ; 8 =4.'5.6 ; ' 7>V.<6 =4 '?'1' 66' .<7 5.6 ?546 <> EE. 1.<76 ''5'' >.M E.<6.'>.'5'' #,<67 747 ,< ,<7 ,EE.17 5.416 6.1- ;.6 ''5'' / 4< ; ?'5 7.% .6 J1.<'> .16 .7 ;:'66.416 =4 8 >.? 6 =4'71.'1', 6 6 '067.1 ' .<7 >4' 6.1- ;.' '-.;' 5.6 '471.6 ;, / ?'J< .6 >.'5'' J'1>.'<'7 ,<'5.8 ,405 '<5 7,471.6 ' 6;<7 / .<7 ?'17 ;45 .18 6.' 6,<7 E'Q7 <6;1 1.' >'<6 5.6 ;, / ?'J< .6 >.'5.41'>, / ; 5.% .'6.1- ;.' 7.1 . 1' .E .@7.1 .41 '' 7>>,405.I '' 7 67'<7 44' ? =4.7 >.'5'8 J'1>.'<'7 ,<'5.' '' >7> ?,67.' '4@' . .41 .6 >.6 . >.-' 7 J'->.6 >4 ;,1?68 ,4 (' / 46=4.7,<68 * ? 67,5.76 % > '1=,< .7 8=4.5=4.6 B 4< 7 ,<6 ,<7 >7>G ' <6 ' =4E.' 5.6 ; :.-'4@8 1.EE5 ' '' 5'' > 6?,6 7 ,< >.'5'' 1<77 ,<% F .CU8 Q,41', 5 5'' <,4-.55.'>.'1'11.67'7 ,< >4'1, ' '' .7>' ;,<5 <<..8 % .J4.457 >.' ' 7 .'< > <J.5V8 >.h' #467 <..7 ' / 05V8 ;0 / / 66' E.6 .?47.6>.E 66.:5 8' 05. .'<'7 ,<'5.'?,41'E' 1.' ? >7.1'5.' 7 ,4-.' 7 6.<<.<Q ' '4@' ,EE ; .16 >.671,4?.6 >.'5 J<.'>'<65.6>. ?'17. / .<76 >4' ,4068 >4' 41'8 .7;%8 0<7?'66. '' 1,V.6%2 6 V,K ' .7.'1.I 46 ?'1'5'' / 4< ; ?'5 7.'.7 ;, / ?5 / .<7.6 ?'1'5.6' ;,1?6 '>/ < 671'7 E6 8 .<64 7.'1.;,<>4 76 '4 / 5 .4'>.' >.4@'E 5.6 >.' 8C ' :, / / .6 >.'5''J'1>.'<'7 ,<'5.%

.'> / '<;:.'C9 Q4 < 5.6 . J5 6.6 .7 ;:'?.55.6 64? 77 ?1 / . .6 ,<7 .7.'E.1< >.6 ?1,- 6, 1. / .<7 6'<6 54 / 57.5% 546 .416 .;;5.6 '67 =4.68 5,<J7. / ?6 1.7.<46 ?'1'5''% ;1' <7.8 ,<7 '<<,<;.';, / ' / .'?1,,:' <8 ,4 ?1 7.'5.' / . / .'Q,41'>.-'<7 5'' / 4< ; ?'5 7.8 5.41'6.1 [.<7 641' 5'' ;,<67 747 ,< >4' ;5.1J.% 1 5 < ,< '' 1. / '1=4 '=<.' Q' / ' 6 5.6 ?1,;.66 ,<6 >.'5''H. . ;4' 1, 7 E 7 ?5.Z > 'EE54.<;.8 .7 <.'6.'6,<7 E' 7.6 '-.;'?546 >.'>; ;; .;8 >.'?, / ?.' .7 >.' / 'Q.67.%

. - ,-' ' 5 E%

7 ' ' + ' 4.'>.?45 577 '>;6 - ;'5 .? 6;,?'4@' .7>.6 - #' 1.6 > 1.;7.416 >4' 6. < 4' 11'% ;, / ?, '<7 5. ;,<6. 5'>.' % 1.-.= .'>4'>.?'17. / ;' 18 6 .67 ?1.6.<7.' '4 ;,<6. 5 / 4< ; ?'5 5.' C(>4' / , -' >.1< .18 .78 .@?1 / ' 7 6.6 1.J1.76 >.'4.'?,4-, 1' A' ;,41 1'?.16,<<.55; / .<7 '' 5''>.E.<6.'>.' : 78 ''?1 7E 5'' / 4< ; ?'5 7.'>.' -,45, 10 ;< 'J1>.1' , E1.=4 .55.' E' 6' 7 >.'>.?,6.1'4<.'6, / / .'>.' 8C '5 -%?,41';,<' 71 04.1''4@' 1' 6 > .=4 ?.1,.<7 .7 ' 71 .6 >;Q .<6.6 >;6' J'1>.6 <'7 ,<'4@' =4 '6.'1.<>' . 7 641'5.6 E1, 7 ;1.6 ><'1 V'4 / .% '' / 4< ; ?'5 7.' '' ';;.?7;';.77.' ,EE1.'.< '??5'4> 66'<7 '4 ?'7B,7 6 / .'>.';.6 ; 7,V. 6%

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F L' ,VW<% + 4 / , / .<7 >.'5'' <,4-. .'>''>.M ?'17>4' 1, 8 =' ,<' '' 64' ?'1' 4<' ; ,4<7.1' .@?.> >' >.' .1>4<' 5.' CU' .7 '11 -.' '' > @' :. 1.6'>4' / '7 <8'7,<6' 5.6' ; ,1?6' '> / < 671'7 E68'5.' >.?'17. / .<78' 5.' > 671 ;7 .7 5'' 1'4< ; ?'5 7>' 6.' 6,<7 1.4< 6' ?,41' -. 55.1' '' 5'' ; : ,6.' ?405 =4.% 56' ,<77;<4'67'<; .' ?405 =4.'Q,41' .7 <4 78'6'<6'>.6. / ?'1.18' .7 ,<7>,<77>'5.6' ,141.6'.7 ?1 6' 7,47.6'5.6'?1. ;'47 ,<6'=4.'5.6'; 1; ,<67'<;.6'.@ J.' .<7% 6' ,<7 >7.'?'1E' 7. / .<7 6. ; ,<>6' ?'1%5'' J'1>.'<'7 , ' <%'5.' .7 5.6'71,4?.6'>.'5 J<.

'<6'5.6'471.6' - 55.6'>4' >>?'17. / .<7 .7 >.6'>.?'1' 7. / .<76' -, 6 <6' ,<' '' / ,<71.'5.' / / .' E.E.5.8' 6417,47 >'<6' 5.6' - 55.6' E1,<7 E.1.6' 7QQ55.6' =4.' : ,<- 55.8' =4' .7' 7 ?546' ?1E.6'>.6'71,4?.6'>71'<J.1.6'.7 ,4'5.'>'<J.1' ?,4-' 7 >71.' ?546'?1.66'<7%

,<'=4.' .-' ,<' >4' 1, 8' >;1 7 ,<' >.' '<;V8' ' 7 ?'14>,<<.15'' / , <>1.'6.;,466.' '' 5'' #,<67 747 ,<8' ;55.' ''W4' ; ,<71' 1.' 1.-. 55.' .7 1'< / .'5.' ; ,41'J.% .'C9'>., .' / , 68' % #467 <.8' # :'66.7 .7 K.J< .18' >.?47.6'>.' 66. / 05. .'<'7 ,<'5.8' ,<7 .;4'5.'6.1< .<7 >.6'=4'71.'0'7' 55,<6'>.'5'' J'1>.'<'7 ,<'5.8' .7 >4' > ' 7';0;1'.<7 >4' 1.J / .<7 >.' #:' / 0,1'<'8&;<' J'1< 6,<' .<' ; .77.' - 55.P8' =4' '' >,<<>'>.6'?1.4-.6'>.' ,<' ?'71 , ' 7 6 / .%

'' ;.1. / ,< .'>.'5''?1.67'7 ,<'>4'6.1 / .<7 '' .4'5 .4' '' .70'54<>' >.1< .1% % ,<7.6=4 ,48' .- 6 / .' .7 #,5,<<'8' ; , / / 66' 1.6'<, / / .6'?'1' 66. / 05 .'<' ' 7 , 3'5.8'6.'6,<7 1.<>46'5.' / '7 <'>'7 6' 4<.'>.6'6'55.6' >.' : 7.5'>4' J,4-.1<. / .<78' ,0%5.'>.?'17. / .<7 7 .<7 6.6' 6.'<..6% .6' ; ,1?6' '> / < 671'7 E6' .7 4<' J1'<>' <,1'01.'>.'; 7,V.<6'V' .7' .<7 1.4< 6%

%5.'?1.6 >.<7 >4' >>?'17. / .<7 '' ?1,<,<; .'4<' > 6' ; ,416'> .7>'?'1'5.'?'71 ,5 6 / .8' '4=4.5' % ,<7.6=4 ,4' '' 1>?,<>4' > 4<.' 45'<>1.' '' <6? 1.1' 5'' ?546' J1'<>.' ; ,<E '<; .%

41'5'' / ,7 ,<' E' 7.'?'1' %5.'?1, ;01.41 6V<> ;'>.' 646?.<>1.' >.'6.6'E,<;7 ,<6'5.' ; , / / '<>'<'7 ';74.5'>.' 5'' ?5';.8' % 5.6' ; , / / 66' 1.6' ,<7 .<' .5 .7 646' ?.4> 8' .7 ,<7 <, / / >'?1,- 6, 1. / .<7 8' 41 / 6.18' ; ,5,<.5'>.' .4@ ,<768'?,41'; , / / '<>.1'5.6'71,4?.6' >.'5 J7 / '.7 5.6' J'1>.6'<'7 ,<'5.6'?'1' <7>1 / % ' 0;41.' 'V'<7 >7>' 5 @.;' '' 6 @ : .41.6'>.'1.5.->.'8' ?,41'5''.>1> / ,< .''4' #:' / ? >. '168'5.6' ,1>1.6' ,<7 >7>' >,<<.6' .<' ; ,<6>=4.<; .%

%5.'?1.6 >.<7 >4'>.?'17. / .<7 ''>. / '<>>8''4'<, / ' >.6' / . / 01.6'>4' >.?'17. / .<78' > >71.' '> / 6'5.6'?1.M / .16' '' ?1>7.1'5.'6.1 / .<7I' .7 >'<6' <65'<'7 7,<6'5.6' ; ,1?6''> / < 671'7 E68' 1>4< 6''5''6.'<; .8' ,<7 E,1 / >5'' / .' ;'>. / '<>.' =4' 5.41' '' .7.' '; ; ,1>>.% .'1'66. / ' 05. / .<5'>.6' ; ,1?6' '> / < 671'7 6' 6 .67 E' 7 '' : ,7.5' ; , / / 4<8' > ,4' 56' 6,<7 ?'17 6' ?,41' 6.' 1.<>1.' '4' #:' / ? >. '16% ,47.6'5.6' J'1>.6'<'7 ,<'5.6' .7 5.6' 71,4?.6'>.'5 J<.'V' .7' .<76,46'5.6' '1 / .6% <''E,1 / >' 4<'0'7' 55,<' ; '11>% % ,<7.6=4 ,4' ''E' 7 5.;741.'>.' 5''5, ' .7>;'5''E,1 / 45.'>4'6.1 / .<7I' .7 '466 7,7 5.6' ; ,1?6' '> / < 671'7 E68' ; .4@'>.' .7'7 / 'Q,18' ; .4@'>.'5'' J.<M >'1 / .1 .' <'7 ,<'5.' .7 5.6' '471.68 4; ; .66 -. / .<78'6.' 6,<7 '??1, ; : .6'>4' ; .<71.' .7 ,<7 ?1>7.'5.'6.1 / .<7 =4 56' ,<7 1 ?.7>'' 5'' 7.7.' >.'5.41'1. J / .<78' .7 ,<7 6 J<>% K.'4; ,4?'> ,EE ; .16'1.7 1>6'6,<7 '466' - .<46' .<-' ?,41'5.'?1>7.1%

' / .641.'=4 4<'1>J / .<7 ,4'4<'>>7' ; : . / .<7 ' - ' 7 ?1>7.5.'6.1 / .<78' ,<'5.6' -,V' 7 =4 77.1'5.41'?,67.'?,41' '55.1' . / 01'66.1'5.416'E1.1.6'> '1 / .6%'' ''J'1>.'<'7 , ' <'5.' .7 5.6'71,4?.6'>.'5 J<.'<.'E,1 / ' .<7 =4 4<' / 1'.' ; ,1?68' '< / >'>4' / > / .' .6?1 7% .6' ;1 6'>.' ' ' # ' 'F F ' ' '1.7.<7 66' .<7 >.'7,47.6'?'176% '' .>1> / ,< .'''>41>'>.?4 6'6 @' : .41.6' >4' 6, 1' Q46=4 '' > @8' .7 7,47 6 .67 ?'66.'>'<6' 5.'?546' J1'<>' ,1>1.%

%5.6'; , / / 66' 1.6' -,<7 6 , ; ;4?.1' '-.;'5.6'; ,1?6' '> / < 671'7 E6' >.6' / ,V.<6'>.' / .771.' 5.6'?5' ; .6'E1,<

7 E.1.6'.<'>7'7>.'>>E.<6.% 56'?'17'1, : 7 6,46'?.4'>.'Q,416' ?,41'5.6' '55.1' - 6 7.1% 56' ; , / / .<; .1,<7 ?'1' '1J4.' / <.68' .7; %

* ' ' ' @

A A% 'E,CC' ' (* % +' .?4 6'?1>6'>.' >.4@' '<6' J4.'<,46'6, / / .6% ,<6 .418' .<'>>7'; : .M / .<7 '' 55. 5. ! 4 55'4 / .8' '4' >.?'17. / .<7 >.'5'' '17: ;8' 5.6'0,<6'; 7,V.<6'<,46''V'<7 7,4Q,416'1.J'1M >.6' ; , / / .'5.416'E1.1.6'.7 -1' 6' / 68'7 71.'=4' ; , / : .' >416'0 .<E' 76' '' <,71.' .J'1>8' <,46' '-,<6' 5 ,<<.41' >.' -,46' '>1.66.1' ; .77.' 5.771.' ?,41' -,46' ?1 .1' >.'5'' 1.<>1.'?405 =4.' ?'1'5'' -, .'>.' -,71.'Q,41<'58' 'E <=4.' 7,47 0,<' ?'71 ,7.' 6, 7 <6714 7 >.'5'' Q467.' 1. ; ,<<' 6M 6'<; .'=4.'<,46'5.41'>.-,<6% ,71.' ,0> 66'<;.'4@'5, 68' <,71.' ' / ,41' ?,41'5'' #,<67 747 ,<8' Q, <7 '' ' / 7>' =4' <,46'4< 7 '' > '466' 0,<6' ?'71 ,7.68' E.1,<7 1.>,4M 05.1'<,71.' ';7 - 7>' ?,41' -. 55.1' '' 5.416' <7. 1>76'?'17 ' ;45 .16'.5' '' 5'' 71'<=4 55 7>' ?405 =4.%

.'0,<' .@. / ?5.'=4.' <,46' '' >,?<>' % 55. / ,78' <,71.' ; , / / '<>'<78' < '' ?'6' ?.4' ; ,<71 04.' '' <,46' E' 1.' ,06.1-.1' '-.;' .@';7 74>.'7,46'5.6' >.-, 16'>.'5'' > 6; ?5 <.%

. Q' & ' ' ' ' '1 >' L ' & ' A ' 'G

*' 0$(*,' - (' (' #+$.(')'(.0(./ *' (*. '5 (' 0 '' +0(,' -$,/ -+* '' 0 ,.(' #(*$ (' -+'$*(.3.(-$ WP' $*/ 5 (' AD+0+$'' -(D' -+.(' +' +',.$) *(' -(' ''( ) ((' *+,$ *+ (' 5+(' ' *'D' ,+$*9/ .+( ).(' -(' D ''( ) ((/ D+0+$,' - **(' 5 (5*(+' .''+ 4+.+0+*,' - (''+0$'' ' .' 0+'$ *' - (' +' #+ $ (' . 8+ (7' ((';8*('(..(+.' (''+0$'' %+0+$(*,'(,(' - **(''4+.' 'D' ,\-(''(,'* *'4+.' ' ',+$*9/ 5 $' (','0(* ' (' - (+*- (.' -(.(,+) .' +' 0(.$,(' - (''#+$ '/ 3(' 5 (' (' *D+$'4+'' - ', $' .(D' #+'3.' & / ' $ ' ' '.(

%

' 'F ': ' 'F '

'8 '3 ' ' -] ! ' V # $(./ *'$(. ' +$' .(+' *' 4+5 (,',$).(' -(' 2(.+) *$ / 3+36(,(' - (' 0 f' +. (' / 3 *D' ,(*+*,'**'(2(4 +,.('$ 4.$ (' - (' 0 ,.(' (,,.(' 2' ''( ) ((' *+,$ *+ (7 A(' (' -+,,(' 5 D(*' (*0 8+*,' 3(,,(' (,,.(' 0 '' +0(' 0 +' +. +(.'5 (' %+0+$'' 4(.' **($((*,' *(' 4+.Y' -+*'' ('' $*'+ ,(''5 %((' 3 *,$(*,/ (,' (' 0 '' (*' .((.3 ((,D(,.(' + ''$' 0 '' ,('!0 '' .+44((' *(' 3 *0(.'+,$ *' 5 (' * ''((''(*'( ) (' +' (,U/ $$ (4 5 (' - (' +' .(0 1 ,$ *7' (,+$'' \' +', ,(' - ' 4+.,$ 4+,4$,(7 0 '' (,$(U' 3 +*1 -+*,' - (' +' 4 +3(' (''3$, 8(*'D'(' - (#,+$(*,- (' 0 ' '$ ''3.+$D' 9*+$(*,'5 (' 0 ''*D+,,$.+''$(U' -+*'' +' 0$ (' (' . $' (,' (''9(*'' - (' +' 3 .'5 (' +' .(0 ,$ *' 3 *-+ *+$,' + ' '+44 3(' - (' ,(9+ $,(' ''(,$(U' +'3+ '(' - *(' 3 *,$* ($('#(. (*,+,$ *7 + .''0 ''+0$(2')$(*'<3 (*,' +0(UD0 *'') $(' - (4 $''c? 5 (' 0 ''3+* *''*(''('.0$.+$(*,'+' .$(6' 3 *,.(' ('')+,,(.$('' -3' % (,(.*($(' ,+$' *' / 5 $/ - (' $ 4.$ (0$(' - (' '' + - ,*/ 3 !' (**+$(*,'2' #.+44(.' , '' ('' $44 ,'' - (' +' ,8.+**$3'(,' (' ,8.+*'' / (,'5 $/ * (*' - ,(U'4+'' / 3 *,$* (. *,'+' (''#.+44(./ +' 5 (5 (' -$',+*3(' 5*%$ '' '(' ,. +0(*,/ -+*''5 (5 (''3$,+!' -((''5 $ ''' (.(,.+* 6(*, (*(,.(' - (' 3(''0(.$,(+' ,.$',(''4 .'0 '/ 0 '' (' $,('' 3(,,(' 5 (',$ *' ;

<3 (*'(U!0 ''5 (' $*,(.(,'4) $3'(U$9(' 5 (' ('5 ,,(' *' 3 +*- ((*,c' ' ' + ,-,(' 7 +' $' 0 '' (' 3. 8(U/ (' ' $''4.(' +' - **(.' +' - ($''$ *' ' $' (''# 9$,$#'/ .(4 * - $'! (/ - $0(*,' '(' .+''( ) (.' -+*''3(' 4+8'!3$/ '$' (' . $'0(,'8' 0(*$./ '$' (,U(',' - (',$*(' +' - (0(6$.' (') (.3(+ ' - +*(' 9 (..(' 5$0$ (/ (' 0 '' ' 6+$,(' 2' $ (' ((' ' $' +*' 3 *,.+$.(' (' . $' + - 6(.(' 2' +' *',$, ,$ */ '$ ('' 9,$#'' - $'4(.'(''-+*'' (' *- (' '(' 3 *,(*,(*,' - 8' *(.' (' . (' - (' 36(0+ $(.''(.!' .+*,''5 $' (.' ' (-' '$')$(*'/ A(' ' $''# .,'+$'(' - (' 0 $.' +' +',(,(' - ('' 9+.*$' *'' - (' * '' #. *,$(.(' '' *' 9(*(.+' 5 $/ 3 (' 0 '/ +' ' (' ' -+,' +'3(*-+*,' - *(').+0 .(' +$9*+ ((/ ' 5 $' 4(*,'(*,..(*$.' .-.(' +*' - (-+*'' / (,' * ''#+$.('.('4(3!' ' +' - (6 .' ' ' '' (' .(4 5++,('' -+*'' 33'' ,(. ('',' & A(

p *'', **(,,$+4+. (' 6 4*(*.-(.+$.(', *.''.('4(3,(.' -(', ,' *'4 +0 $.' ('-(3.(''-(', '+( ) (('*+,$ + (/ K $,'5*('A(' (+'+44. 0(' *' * *'A(. ''- **('+ ''$' +'4+1 . (' -) **(.' -('*(' + +$'' ,.(4(.'-+*''+ 3 *('+*(..(' 3$0$ (:

(,!(.('3('- '(*.''0 *''(',.$'.(0(*'$,' +'4(*' ('-(4*$'' 5*('0 *''-$(''+'$*2( ) *.+70+*''+ .(''3.+$*,'5+% *('-('' 4+. ('' - 6 *+(+.'5*('0 *''+0(U' ,.+)$(' *('#$,' *) $((/ (,' 0 + +.(U'+-.(''('0 ,.((,,. $'+44+$%((*,'4 .'5*('3(' ,$,.(' - $*#+ $(' *(' 4(.-$,'+)' (*,'.$(*' -(' '+' 0+ (*.' ' $' ,(' +' '0 ,.(' ,$#/ *'$(./ (' 0 *'' .((.3$('- *) (!' .+(*,'-('0 ,.('(*0 $' (4*$'' *9,(*$4'' +'4)$ ' 46$(',.+!' 0+$ +$,'+' 'M '4 .'3 (0(.'$+'0(.,*'4 .('+ '+'4 +3(' $'' '+,'0 ''+0(U' (*' *' (*,'.(*- '3(' '(.0$3(-' +'*+,$ *7'0 ++0(U'+0+*3(' -(' '+*'' +' .+ (' 4*) $5 (' *#$*/ ('$%('4(.(/ 4$*$ *'(,' (+' $''&('(') .!' *(. *,'4 ''+' -(+*-(.'+*2' $%+*0+$'/ 5 ((''0 -. *,' +44((.'+'5*(5 (' (4$ $' 4) $3/ -(''#)$,''-('36(0+ (.$(' (,' -('' ') ' +,''(('' (*' (2$9(. *,''+*''- ,(' -(''4.(0(''-('0(., '(,'-(''+3,(''-('4+,.$ '.4(

+' ' 3$((' 4+,.$,$5 3' -(' +' 0$ (' -(' *'/ -(4+.,((*,' -(' +' 6+.(*,(! *#(.$(*.(/ #(.+'4+.0(*$.' #.+*3' -('4 .,' 3'' (,,.(''(,' 4+5 (,''5 ((' (24(-$(.+7 (,' -(' - (((' (' (*' .(3(0.+' + 3**'5*$'*(' ' $,'+# .+*36$/+!'3(' * (',' -(' +' ' 3,(,(' 4+,.$, 5*(! 9.(/'(+*,('+*2'A+3)$*'' -(' +.$'

('$'(2$',('-+*'' +' 0$ (' -D 9*$ *' -(2' ' .'$,('' - $''-(' +' *',$,*,$ */ (''+ .(''' 3$(, '' -('3('9(*.(/ 5*$'+ .+$(*,'5 (5*('+0$''$ 4 .,+*,'$,' (.'#+$.''4+''(./ *' -'$**('- (('''(,, ((*,/' *,'4.$3('' -(' ('' -('$9*(.'4+.' (' $(*' *' (('',$()*(*,' (*.'' '(+*3('' (*' ((,,('5*+$,-7 $ *(' ('',$(.$,'-+*'' +' +$' *' -(($.(*9+(/$+* .('-+$,',$((' -(''+ (''-(' +' +$' *' -(''3$!-(0+*,' +. (

"

$ ' K ' %

<'1.<>'<7 ; , / ?7.'>.6 J>1. .6'54.6'>'<6 Y6.'<;.' >4'54<>' WH'Q / <8'<,46''-,<6',405 .'>.'E' 1.' / .<7 ,< >.' ;.55.'>'' ; ,<6. 5 J < 1'5>4'>.?'17. / .<7>.' ' 6<.' ?1>6.<5..' ?'1 % #'17 .1G'6.;1.7' 1.'>.' 66./05.. <'7 ,<'5..7' 4?'>.6'>>?47.6'>7 ;.'>.?'17. / .<7I''?1E.6 '-, 1' 1.<>4' ; , / ?7.' >.'P. c1' ;?<>4Q7,' .7 >,<<.' >.6 .5,J.6 '< >.-,>7<.<7 .7 '4' ; ,41'J.' >.6 ; 7.V.<6 .7 >.6'?1>.6'<'7 ,<'5.68'5.6 '>/ 4 671'7.1<6'>.1''<>.<7 >.6 / 4< 7 ,<68'>.6'11'.6.7'>.'1'17 5 .1 .% 6'1.;5'' / .<7 5.' ; :>7 7<.1 7 >.6 ; ,4?'05.6 .7 >.6'1.; , / ?.<6.6 ?405 =4.6 ?,41'5.' 1,'771.'>.' ?,67.'>.' ' <5. .<.' :,45>' ;7 ?,41'5.6Q.4<.6 ; 7,V.<6'>.' '1.<<.6 =4' ,<7 '11.7>'5.'1, % #.77.''>1.66.8 >'7..'>4'WF'Q4 <8'.67 7.1M / <.1'?'1'4<'-'<'=4.' 66./05..' ''1. <? ' ?'1'6,< > ;1.7 >4'C 8 ' .67 .@?1 / .'.< ..6 7.1 / .6N

& $$' <,(.*$(.' 0 ('5*(' * *''# . *'/ (,' **'-(''4 '' 3)(.''X , *'' ('' .+*5+$'7 (',' 5 (' %6(.$,$(.'4.(' $*4,$#-(' +'3 . **('' $'.($''(*,0(' (+' +$*''-.''$*',$, ,(*.''5*(' (' 3 .4'' (9$' +,$# *$ * (.+' .('(.0(''-(' +'3 *,+9$ *' -(''3 .'' +' (**(''('-('3(,'(*#+*,'4.(3$(27 5 (' ' *' + (' '(', $ #$ / 5 $' ' $ ', $'('+ .('4(3,(.'6'' $''(,' ('4(4(' 4+.' ('' 35 ,,''-(' +' $)(.,8/ (,3' :

' ' ' ' ' ' ' D

K'A ''( ) (%('*+,$ +$(/ (@'$-(.+ ,' +' * 3(''$,('-('')!' ,(*$,'+*$'4(*'$ **+$.(''' .' (' ' .,'-('5 ('' ' * +'4+''(*1 3 .(' 4 ' -,.(' ',+, (' * *+,$0((*,/ ' $,'4+.'4. 0$'$ */ ' $,'- \ *$,$0((*,/ -(3.(,('5 (' (''-(3.(,''4+.'(('4.(3(!' -((*,' .(-+''4 '' '4. (*.(.'++2'($!-(0+*,'4(*'$ **+$!' 0(.' -(''((,,0'' .' %+**3('BHTI/ -(''T(,' ' ++0$(./ (,' - '#(0.$(.'-(.*$(.'/ -,, + ,,,'BHTI/ * ,+ (*,' (''- .(,'' + , +, (+.' (((+,$ */ 4 .' +**((HT / -+*'' (' ((+' ,(. ('/+*2' (''3 $, *+/ (, (*' ,.('+52'3 *-,$ *'' '*$0+*$(';

<'ZK' (,'4(., **(''5 $''('4.('(*,(. *,'4 .'.(3(0 $.' ('!' -$,'''(3 .''(. *,,(* (''-(' ',$*(./+ 2',(. (''- ' -(3.(' -' FF' $*' -(.*$(./ -(,(+.'- 3 ('+3 *(' (,'6+)$,*(' ' -+*'' 5.' . 4+ *(/ +, '$'5 ('-(' +' 5 $,+*(('-(',(.''$ $= '$,Y=*'' K,-+'4+$($+(*,'-(''-(+2'4.($(.'',(. (''-(',(*.'3 *,.$)+D

,$ *'4+,.$,$5-(/ *' ' +'-(3 +.+,$ *'5*,((''+ *,'45''.,$' -+*'' ('3+''-('#+$.('**+'3 *,.$) ,$ *'4+,.$,$5*(/

S'W& ('3 $,(''4(.' **(''(. *,',(* ('' -('-(3+.(.'(24.('!' '((*,' -+*'' +' 5 $,,+*3(' 5 ((+' - **(. *,'-' ' '(*.'' 5 $' (.''(.+'4+4(/'$' ((' '(' 4. '(*,(*,'(*'4(.' **('4 .' ('.(3(0 $./ ' -+*'' +'4. 3 .+,$ *'5* ((''- **(. *, '3(,' (##(/ 55%(('!* '',' + 3 *(' + ,,.('4(*'$ *' - *,'(('', *!' (6(*,' ('' +..-.+9('/ ()', ,' *'&*'4+.,$(/ '5 (5*(' ,.(' 5*('3(' ' $,/ *$'+ 3 *',.+$,((*,'- +3,$0$,(/

.' Xa ('''(3 .'''*.' +**((HT,' '(. *,'4+8(('(*' -(2' 4+.,$('',' +' 4.($9.(/ F 3 4,(.' -(' 3(' .'4 .' ('' '$2' 4.($(.'' * dZ +' '(3 *-(/ F 3 4,(.' - ' _' +*0 (.'4. !' 36+$*'4 !+.' ('''$2' -($0(.'' $$ $'

S' FD ('%-$.((,(,,.'9(*(.+' -(' +' $5 $-+,$ *'#(.+' -+*'' (' 4 '') .(# -9 +$'4 ''$) (' ' *' .+44 .' -(''4(.' **(''5 $/ +8+*,'.(*- ' -(''(.0$3('F B $+,/ * *,'(,('.-3 4($$'((' 5 ('-''4(*'$ *''$*#(. (*.(''+' +' ' ('-(' ' $0

+' ,' -('' F 4.('(*,'-(3. ,('5 ('' .' ('#(*-''-('-(2' $1 $ *'' -(',$*(''+)2'9.+,$#$3+,$ *''4 .' +* (((* 8 $''(.+' 4+83'F .+*5 $'' *-C/+)3$(*'3+.+)$*$(.'+*'.(9$ (*, 8+' -(''3+.+)$*$(.'/ +'' ('-('BI/III' $0 / (*'3 *'$-(.+,$ *' -'' +'4.$'('5*%$'+'#+$,('-,,'99*(.+$' $9 4$(.' +' +')+,+$ ('-(' +>#(-,/ +*' 8(*' -('5 ((' 9.+,$#$3+,$ *' +'4(*'$ *' -(' ' $0'5* $'+0+$'' .' (',.(' .'4) $3'3(''(.+%-$,.('(4 8((' -+*''$ (,+,' -(''4(*'$ *'

+' D ''( ) (-(3. ,('(*' *.('5*(' .'$(' F ('#(*-'' -(''9.+,$#$3+,$ *'/ B '(.+' 4+8F F .+*4 $'(') (.,/ 9+.-(' *+,$ *+' -(''(.9(.+ /?+' ('-'FGI' 0.('/ 4 .' ('3 *!' .+9('5 (('+' *,.('F +',-,('-(''9+.-(''*+, *+*2'-CP(.!' 9(.+37

+'GK ''( ) (('*+,$ *+$(' -(3.(,('4+.3$ ((*$'5*('*$' (''# *-''+***(''-(',$*(''+*2'4(*'$ *'/$''(.+'4+8('$'$*+!' -+ (' +36(. */ 4. 0$' $.((*,/ F 3 4,(.' - ' _' +*0$3.' (* 8 36+5 ('+**((/(,' *'5 %+*'.(, .' -(' ' *9('/ # *' -(''+0+*,''5*$' *,'+ 3 4+9*(' ' +4(8. '(-+*'' ' *' (24(-$,$ */ +' ' (' -(' ' $0'5*$ $'+(,('+''*.(('4+.'$(' . $/ .+'-(' ( )+.5 ((*,'- -$,'+$(*.' +*9('/' *'#$!(.(/+

@4 ' ',I ' '$ O

8 * 'F'G2 '''

<'7 .' %5.6'6.;1. ' / 'E' 7 5.; 7 1.'> 4<.' ;771.' ?'1'5'=4.55.' % '<.,<178 ?1.6 >.<7 ><'>= '17. / .7 7 >.' . ' . .5 ' / .8 .7 ; ,5,<.5 >,' CD 1.J / .<7 7.6 >1'J,<68 ?1 .' 66.1,,5>.'>.'1.;.-, 1'5.'6.1 / .?7=< 5 E' 78 ; , / / .'>/ < 6E1'7;41' .7 ; , / / .6,5>'78>.6' ' ;1 E .1'6'' - .8 6 5'5.'E'478 ?,41'5''>.E.<6.'>D '' #,<6' 7 E47 , 8 ' -Q-1.'5 01.' '>.'7<,41 1'?,41'5'' 0.17.%

8 5.' ?1.6 >.<7 '<<,<;.' 64;;.66 -. / . 7 / ' 1.6 J1'<>'<, / 01.' >.'5.771.6'> ,E5 ; .16 J.<.1'4@ > ;7. .6 ?'1'5.6 <> / .6 6.<7 / .<768 %

'#+$,' (3, .(- ((,,.(-(' '' .,+8 (,' 3!' .+* / +$',3 * (;

& *'$(.' ('4.('$-(*,/ * '' +0(*'') **(.' -(' 0 '' 4.(0(*$.'5 (* ''4.$*($4(''* '' # *,'(*'3(' (*,' +' $' -('*('4 $*,'4.(*-0('4+.,'+ 2' -($)($+ $ $$''-(' ''($),33' *+,$ *+$(/ (,'-('' ''+)',(*$.' -(''(''(+*3(' :

' 'N #.6 / .66 .416'1.<,<;.<5 / ,1'5. / ;<7 .7 ?:V6 =4. / .<7 '' #,<6.1-.S'5.' ;'1';7. .' .7 '' .@;1;.1' 5.6'E,<;7 ,46'>.'1.Q?1 6.<7'<76'>.5''<'7 ,<'IQ.'>. / '<>.' = 56'6, .<7 E 1G . #0'1,? 1. / ?5';E.'?'1'5.416'64?M ?5 '<76%

' @ '' ,*7 ''( ) $('+', .''.((,(', 3' ('4(((-(4. ,(',+,$ *'/ ' ''5 (5 (' # . (5 3$('' '(+*$#(',+''(*,/ +*''5 ,*U(.'/ +' $',(',$(''-3!' 4 -''+)'(*,''(.+'3 ** ('A('-(+*-('5 (/ '+*'' +#!' .#$,(.' +'3(''4.(3(-(''$*-0- ('/ B ''( ) (C4+ '+' .-.(- ' ./ 3,' -(#(*3(' +' ' *'4. \$-(*,'-3$ $' $.(' - .(%*+0+*,' -('' (,,.(''(.+) +) (' +'4. 4 '$,$ *' -(' ' 6+). -(',+- 4,((.' (' .+44 .' -(' ''$*' ('-(3$(,/ '+$0+*,' (', .(*- 7

& ''( ) (('*+,$ *+$(/ +4.(''+0 $.'(*,(*-*' ('.+44 .' -('' *'3 $('(-('3 *',$, ,$ *'/ -F3.3,('3('5 $'' $,; ' ,' '('.5'* *$ F 55+,.('+44 (+*,+'+ ' ,.$)+*+' -('3 1 (.3('(,+) $' -+*'' +'0$ ('-(' +$*,! (*,$*$' ('5 (,('(. *,' $*',+ (+' (,'4. ,(. *,''(. (*,' -+*'' ,+'# . ('4.('3.$,c'4+.' +' $' -(.9+*$'+,$ *' ,,-3+$.(('' $ $,(''-('3($'F +) $' U #)(4' '(. *,' -(,(. $*(('''4+.' ''( ) (3' *+O *(' '<1

U

ʼ -+ʼ -$.(3, $.(ʼ -(ʼ +- $ ',.+,$ *ʼ -+ʼ (4+.,((*,ʼ - ʼ 0+- '8!5+$ 4.(*-.+ 3(b $ -+ʼ -$',.$3,ʼ -(ʼ ,'$(*2 ʼ +ʼ 4+= $''(ʼ -(ʼ +$*,D $9*+*ʼ 4+.$$(ʼ -,$ -(4+.,((*,ʼ -(ʼ $+ (0.((,ʼ3((ʼ -(ʼ +$4,= (9(.&- ! +.36(ʼ -(4(*-ʼ -(ʼ 3(*$ +ʼ -,(D-% .7 $(ʼ 0$ +9(ʼ -(ʼ +ʼ +-(($#,(ʼ (ʼ,ʼ -$',.+$,ʼ -+ʼ 4+.,((*,ʼ -(ʼ +ʼ BH$(0.(ʼ (,ʼ -(ʼ +ʼ 4+. $''(ʼ -(ʼ ((ʼ 4 .ʼ .(ʼ . +*$ʼ +ʼ 3((ʼ -(ʼ (.(ʼ (,ʼ ++ʼ -(4+.,((*,ʼ - ʼ 6(.ʼ +ʼ +*(ʼ -(ʼ +,U(6++''(*ʼ (,ʼ . (,U(*)+3ʼ #+$,ʼ 4+.,$(ʼ - ʼ -(1 4+.,((*,ʼ - ʼ @+$$,!O)$*ʼ -$',.$3,ʼ -(ʼ ,.+') .9ʼ :

% K41.'4@ʼ], /.&Iʼ "5" >. 5 0>1'7 ,<ʼ 5" E <ʼ >4ʼ ?1,Q.7ʼ >4ʼ ; , / 7.ʼ / 5 7' 1.ʼ 641ʼ 5.6ʼ ?5'; .6ʼ >.ʼ J4.11.% .6ʼ '1M 7 ;5.6ʼ 677 -'<76ʼ 6,<7ʼ >. .1.7.6%

- ʼ !%ʼ ^ *, ʼ ʼ ʼ

. ʼ 5W.% .6ʼ E,<>6ʼ >.67 <E.ʼ " '4J / .<5'7 ,<8ʼ " 5G.<71.7 .<ʼ .7ʼ '4@ʼ 1.?'1'7 ,<6ʼ >.6ʼ E,17 E ;'7 ,<68ʼ ' <6ʼ =<.ʼ >.6ʼ 0>7 / .<76ʼ .7ʼ .7'0 ;. / .<7]ʼ / 5 7' 1.6 =4;5ʼ ;,<=4.6ʼ >'176ʼ Q.6ʼ ?5'; .6ʼ >.ʼ J4.11.8ʼ ?,67.6ʼ / 7' 1.6ʼ .7ʼ J'1< 6,<6ʼ >.ʼ <7 1 .41% 6.1,<7ʼ >,1.4'-'<7ʼ E,41< 6ʼ .<ʼ .<5 .1ʼ ?'1ʼ 5" ?'17 .ʼ >4ʼ 71.6,1ʼ ?405 ;ʼ 'EE..7>.8ʼ '4ʼ >.ʼ ?'17. / .47>.ʼ 5" J4.11.% <ʼ ;,<6.=4.<;.ʼ 5.6ʼ >>?'17.ʼ / .<76ʼ .7ʼ 5.6ʼ -Q55.6ʼ 6.1,<7ʼ >.;:'1J.6ʼ >.ʼ 7,47.ʼ /?,6M 7 ,<ʼ ,4ʼ ;,<71 047 ,<ʼ ?'17 ;45 .1;ʼ 1.5'7 -.ʼ " ;.7ʼ ,0Q.7%

% .ʼ < 4 671.ʼ >.% 5" J4.11.ʼ 1. ?'17 1" .<71.ʼ 5.6ʼ > Eʼ E.1.<7#6ʼ ?5'; .68ʼ ?,67.6ʼ / 7' 1.6ʼ .7ʼ J'1< 6,<6ʼ >.ʼ <ʼ 7.1 .418ʼ 6.5,<5.41ʼ ;5'66.ʼ .7ʼ 6.5,<ʼ 5.416ʼ 0.6, 468ʼ 5.6ʼ E,<>6ʼ ';;,1>.6ʼ '4ʼ >.?'17. / .<7ʼ >.ʼ 5" J4.11.ʼ ?,41ʼ 5.6ʼ 71'-'4@ʼ / 7' 1.6%

% ,46ʼ 5.6ʼ 71'-'4@ʼ >.;,<6714;7 ,<8ʼ .<71.7 .<ʼ ,4ʼ 1.?'1'7 ,<ʼ >.6ʼ E,17 E ;'7 ,<68ʼ 0>7 / .<76ʼ .7ʼ .7'05 66.ʼ / .<76ʼ / 7' 1.6ʼ =4.5;,<=4.6% .7ʼ >.ʼ 7,47ʼ ;.ʼ =4ʼ .<ʼ >.?.<>8ʼ 6.1,<7ʼ E' 76ʼ ?'1ʼ .<71.?1 6.ʼ > '?1.6ʼ 4<.ʼ '>Q4M > ;'7 ,<ʼ '4 '0' 6ʼ N ;.77.ʼ '>Q4> ;'7 ,<ʼ <.ʼ 6.1"Q' / ' 6ʼ ?'66..ʼ .<ʼ / '66.ʼ Iʼ / ' 6ʼ .75.ʼ ;, / ?1.<>1" 5.ʼ >.7' 5ʼ >.6ʼ ?1 @ʼ 'E .;7.6ʼ " ;.'=4.ʼ <'741.ʼ > ,4-1'J.ʼ .7ʼ >.ʼ / '7.ʼ 1 ' @ʼ =4ʼ 6.1,<7ʼ . / ?5,V.6%

% 8 ,16=4 5ʼ 6 'J 1" >.ʼ ?'66.1ʼ 5.ʼ / '1; :.ʼ ?,41ʼ >.6ʼ 71'-'4@ʼ / 7' 1.68ʼ 5.ʼ / < 671.ʼ '>1.66.1" '4ʼ ;, / / 6ʼ 6' 1.ʼ >.6ʼ J4.11.68ʼ D ,1>1.ʼ >.ʼ ?1,.>>.1ʼ " '>Q4> ʼ ;'7 ,<I D4<ʼ .7'7ʼ ?'1ʼ '?.1;4ʼ >.6ʼ 71'-'4@ʼ " .@. .47.1ʼ ?.<>'<7ʼ 5" > 1..ʼ >4ʼ <1'1; :.I D 5.6ʼ >.- 6ʼ .7ʼ ;,<> M 7 ,<6ʼ '41, 7ʼ .7;ʼ E,41< 6ʼ ?'1ʼ 5.6ʼ 'J.<76ʼ / 5 5' 146ʼ ?1.?,6.6ʼ " ;.7ʼ .EE.7%

% -'<7ʼ =4.ʼ 5. ʼ 71'-'4@8ʼ ,0Q.76ʼ >4ʼ / '1; :.8ʼ <ʼ 7;1;66.1,<7ʼ 7,47.ʼ .7.<>4.ʼ > 4<ʼ >.?'17. / .<78ʼ ,4ʼ 6.4ʼ 5. / ;<7ʼ ;.55.ʼ > 4<ʼ > 671 ;78ʼ ,4ʼ .<E <ʼ =4 6ʼ 6.ʼ 0,1<.1,<7ʼ " ;7.<>4.ʼ > 4<;ʼ / 4< ; ?'5 7.8ʼ E.ʼ ;, / / 66' 1.ʼ >.6ʼ J .11.6ʼ <E,1< .1" 5.ʼ > 1.;7, 1.ʼ >4ʼ >.?'17. / .<7ʼ ,4ʼ ;.54ʼ ><ʼ > 671 ;78ʼ ,4ʼ 5.6ʼ ,EE ; .16ʼ / 4< ; ?'4@8 >.6ʼ ,1>1.6ʼ =4 5ʼ '41" 1.J468ʼ .7ʼ 5.]ʼ 1.=4.11" >.ʼ ?1, ;.>.18 ʼ >'<6ʼ 4<ʼ >.5' ʼ >,<7ʼ 56ʼ ;,<- .<>1,<78 " '>Q4> ;'7 ,<ʼ % >4ʼ / '1; :.%

% '?1#6ʼ .?,=4.ʼ ;,<-.< 7.ʼ .<71.ʼ 5.6ʼ ;,1?6ʼ '> ʼ / < 671'7 E6ʼ .7ʼ 5.ʼ ;, / / 66' 1.ʼ >.6ʼ J4.11.68ʼ ;.54 ;ʼ E.1" ?,6.1ʼ >'<6ʼ 5" ?5';.ʼ .7ʼ >'<6ʼ 5.6ʼ 5 . @ʼ ; 1;,<-, ʼ 6 <6>.6'EE ;:.6ʼ 6 J<..6ʼ >.ʼ 4 8ʼ .7ʼ <> ;'7 -.6ʼ >.ʼ ,0ʼ Q.%78ʼ >.ʼ 5" >4 ..8ʼ >4ʼ >.- 6ʼ .7ʼ >.6ʼ ;,<> 7 ,<6ʼ >4ʼ / ,1;:.8ʼ ' <6ʼ =4.ʼ >4ʼ Q, 41ʼ ;7>7'5 .4ʼ, 5ʼ 6.1" ?'66 8ʼ >.ʼ / '< .1.ʼ " ;.ʼ =4.ʼ 5.6ʼ ?'17 ;45 .16ʼ ?4 66.<7ʼ >71.ʼ <E,1 / #6ʼ " 7. / ?68ʼ .76.ʼ / .771.ʼ .<ʼ #7'7>. ;,<.,41 1>ʼ '>Q > ; ʼ 7 ,<ʼ =4ʼ 6.1" E' 7.%

5% .ʼ ;, / / 66' 1.ʼ >.6ʼ J4.11.6ʼ 6.1" 7.<41.ʼ >,4ʼ ;1ʼ " #.<@ʼ =4ʼ 6.ʼ ?1.6.< .1,<7ʼ " ;.7ʼ .EE.7 ;, 4 ' 6ʼ $6'<;.ʼ >.6ʼ >.- 6ʼ .7ʼ ;,<> 7 ,<6ʼ >4ʼ / '1; :.8ʼ .7ʼ 7,<6ʼ '471.6ʼ 1.<6. J<. / ;<56ʼ =4ʼ >.?.<>1,<7ʼ >;ʼ E4 % <ʼ ?,411'8ʼ ?,41ʼ 6.ʼ ?1,;41.1ʼ 5.6ʼ /E <.6ʼ <> ;'7 ,<68ʼ 6 '>1.66.1ʼ '4ʼ 6.;1.7'1 '7ʼ >4ʼ >.?'17. / .<7ʼ ,4ʼ >4ʼ > 6M 71 ;78ʼ ,4ʼ >.ʼ 5" / 4< ; ?'5 7.%

555% .ʼ Q, 41ʼ E @.ʼ ?,41ʼ 1'>Q4> ;'5 ,Q 8ʼ 5.6ʼ / . / 01 6ʼ >4ʼ > 1.;7, 1.ʼ >4ʼ >.?'17. / .<78ʼ ,4ʼ >.ʼ ;;54ʼ >4ʼ > 671 ;7ʼ $ >.ʼ 5" / 4< ; ?'5 7V8ʼ ;,<E,1 4> / ;<7ʼ " '17% ʼ ; ʼ >.66468ʼ 6.ʼ 1.<>1,<78ʼ ' <6ʼ =4.ʼ 5.ʼ ;, / / 66' 1.ʼ >.6ʼ J4.11.68ʼ '4ʼ 5 .4ʼ > '66. / 05..ʼ >.ʼ ;.5<ʼ >.6> 76ʼ ;,1?6ʼ 6> < < 671'5 E6ʼ ?'1 >.-'<7ʼ 5.=4.5ʼ >.-1" 6.ʼ ?'66.1ʼ 5.ʼ / '1; :.Iʼ .7ʼ 5 8ʼ .<ʼ 5.41ʼ ?1.6.<;.ʼ 77ʼ ;.55.ʼ >.6ʼ 'J.<76

/ 7' 1.6ʼ ?1.?,6.6ʼ " ;.7ʼ .EE.7ʼ ?'1ʼ 5.ʼ / < 671.ʼ >.ʼ 5' # 4.11.8ʼ <>Q4> ;'7 ,<ʼ 6.1" E' 7.ʼ ?'1ʼ 5.ʼ ;, / / 66' 1.ʼ .6ʼ J4.11.6E8ʼ '4ʼ 1'0' 68ʼ ?405 =4. / .<78ʼ .7ʼ ?'66.ʼ " ;.M 54ʼ =4ʼ E.1" 5.6ʼ / . 55.41.6ʼ ;,<> 7 ,<68ʼ '-.;ʼ 5.6ʼ E,1<ʼ ʼ 5 7.6ʼ =4ʼ 6.1,<7ʼ ?1.6;1 7.6Iʼ .7.<ʼ '77.<>'<78ʼ ;.>.6ʼ 46ʼ 7..6ʼ Q46=4 " ;.ʼ Q, 41ʼ ;, 7 <4.1,<7ʼ > '-, 1ʼ 5 .4%

"% 45ʼ <.ʼ ?,411" E 71.ʼ >.;5'1.ʼ '>Q4> ;'7' 1.ʼ >4ʼ / '1; :.ʼ =4.ʼ ?1.ʼ 5'05. / .<7ʼ 5ʼ < ' 7ʼ Q467 5 >ʼ >.ʼ 6" 6,5ʼ -'0 5 7.ʼ ,4ʼ >,<< ʼ ;'47 ,<ʼ 64E5 6'<7.Iʼ .7ʼ =4.ʼ ?'1ʼ 5.ʼ ;,1?6ʼ '> / < 671'7 E8ʼ ?'1ʼ 5.ʼ ;, / / 66' 1.ʼ >.6ʼ J4.11.68ʼ .7ʼ ?'1ʼ 5.6ʼ 'J.<76ʼ / 7' 1.6ʼ ;:'1J.6ʼ ?'1ʼ 5.ʼ / < 671.ʼ >.ʼ 1.J5.1ʼ 5.6ʼ ;,<> 7 ,<6ʼ >4ʼ / '1; :>8ʼ 5ʼ < ' 7ʼ .5. Q4J.ʼ >,4ʼ >.6ʼ ;,<<' 66'<;.6ʼ .7ʼ =4'5 7.6ʼ <.;.66' 1.6ʼ ?,41ʼ .@.;4ʼ 7.1ʼ 5.6ʼ 71'-'4@ʼ =4ʼ 4ʼ 6.1,<7;,45 .6%

"% ,46ʼ 5.6ʼ E1' 6ʼ >.?.<>'<76ʼ >;ʼ 1'>Q4;5 ;'7 ,<ʼ 6.M 1,<7ʼ ;, / .6ʼ '4@ʼ E1' 6ʼ >.ʼ ?405 ;'7 ,<ʼ .7ʼ > 'E5 ;:.68ʼ ;7ʼ 6.1,<7ʼ 64??,17.6ʼ ?'1ʼ '>Q4> ;'7' 1.%

"% .6ʼ > EE.1.<76ʼ ,4-1'J.6ʼ " .@..<7.1ʼ ?'1ʼ 5.6ʼ .<M 71.?1.<.416ʼ '>Q4> ;'7' 1.6ʼ 6.1,<7ʼ 641-. 55. 6ʼ >'<6ʼ 74<6ʼ 5.416ʼ >.7' 56ʼ ?'1ʼ 5.6ʼ 'J.<76ʼ / 7' 1.68ʼ =4ʼ ;<ʼ E.1,<7ʼ 5.6ʼ 7, 6.6ʼ ?'17 ;45 .168ʼ ;<ʼ ?1.6.<;.ʼ >.6> 76ʼ .<71.?1.M <.416ʼ ,4ʼ >.ʼ 5.416ʼ ;, / / 6ʼ '-,4>68ʼ " / .641.ʼ >.6ʼ ?1, ʼ J1.6ʼ >.6> 76ʼ ,4-1'J.6% #.6ʼ 7, 6.6ʼ ?'17 ;45 .16ʼ 6.1,<7ʼ 6 J<.6ʼ ?'1ʼ 5.6ʼ .<71.?1.<.416ʼ ,4ʼ ?'1ʼ 5.416ʼ ;, / / 6ʼ '-,4.68ʼ .7ʼ ;.17 E .6ʼ ?'1ʼ 5.6ʼ 'J.<76ʼ / 7' 1.6ʼ ;:'1J.6ʼ >.ʼ 5" > 1.;7 ,<ʼ >.6ʼ 71'-'4@%

"% #:'=4.ʼ '<<..8ʼ '4ʼ 7.1 <.ʼ >.6ʼ 71'-'4@8ʼ 5.6ʼ 5, ʼ 6.6ʼ ?'17 ;56ʼ 6.1,<7ʼ 1.4< 6ʼ .<ʼ 4<ʼ 6.45ʼ 7, 6.ʼ J.<.1'58ʼ .<ʼ ?1.6.<;.ʼ >.ʼ .<7 .?1.<.418ʼ ?'1ʼ 5.6ʼ 'J.<76ʼ / 7' 1.6ʼ =4ʼ '41,<7ʼ 641-. 55.ʼ .7ʼ > 1 J.ʼ 7,46ʼ 5.6ʼ >.7' 56ʼ >.6ʼ 71'M -'4@% #.ʼ 7, 6.ʼ 6.1" 6 J<>ʼ ?'1ʼ .<71.?1.<.418ʼ ;.17 5 .ʼ ?'1ʼ 5.6> 76ʼ 'J.<76ʼ .7ʼ -6.Sʼ ?'1ʼ ;.4@ʼ > .<71.ʼ .4@ʼ =4ʼ '41,<7ʼ <6?.;5.ʼ 5.6ʼ 71'-'4@%

"% .ʼ 7, 6>ʼ J.<. 1'58ʼ ;.17 E .ʼ .7ʼ - 6.8ʼ ' <6ʼ =4 5ʼ " .7.ʼ &5 7ʼ >'<6ʼ '17 ;5.ʼ ?1& ;. >.<78ʼ 6.1" 1. / 6ʼ '4ʼ ;, / M .6ʼ 66' 1.ʼ >.6ʼ J4.11.68ʼ ?,41ʼ >71.ʼ '11 7.ʼ ?'1ʼ < 8ʼ '?1.6ʼ .<ʼ '-, 1ʼ -.1 5 .ʼ 5.6ʼ ;'5;456% .>7ʼ 7, 6.ʼ 6.1" .<64 7.ʼ 6,4 / 6ʼ '4ʼ ʼ >.ʼ ;.54ʼ >.6ʼ ;,1?6ʼ '> / < 671'5 E6ʼ ?'1 ʼ >.-% <7ʼ 5.=4J5ʼ '41" . ʼ ?'66.ʼ 5.ʼ / '1; :.%

"% .6ʼ ?'1E' 76ʼ ?' . / .476ʼ >.6ʼ 71'-'4@ʼ / 7' 1.6ʼ .@>;47.6ʼ ?'1ʼ 5.6ʼ .<71.?1.<.416ʼ <.ʼ 5.41ʼ 6.1,<7ʼ >468ʼ .7ʼ <.ʼ ?,411,<7ʼ >71.ʼ ,1>,<4.6ʼ " 5.41ʼ ?1,E 7ʼ ?'1ʼ 5.ʼ / M < 671.ʼ >.ʼ 5" J4.11.8ʼ =4.ʼ ?1. '5'05. / .<7ʼ 5.6ʼ E01 / '5 7.6ʼ ?1.6;1 7.6ʼ ?'1ʼ 5.6ʼ '17 ;5.6ʼ " ʼ .7ʼ " ʼ < ' .<7ʼ ʼ 1. / ʼ ?5 .6% .6> 76ʼ ?' . / .476ʼ <.ʼ 6.1,<7ʼ .@ J 05.6ʼ ?'1ʼ 5.6ʼ .<71.?1.<.416ʼ =4.ʼ 71, 6ʼ / , 6ʼ '?1.6ʼ 5" ;,<E.;7 ,<ʼ >4ʼ 7, 67S J.<>1'5%

"% ,411,<7ʼ <. '< / , <6ʼ 5.6> 76ʼ .<71.?1.<.4168ʼ " / .641.ʼ >.ʼ 1'-'4;. / .47ʼ >.6ʼ ,4-1'J.68ʼ 1.;.-, 1ʼ % 641ʼ 5.6ʼ ;.15 55;'76ʼ >.6ʼ 'J.<76ʼ / 7' 1.68ʼ .7ʼ > '?1.6ʼ 5.6ʼ ,1>1.6ʼ >4ʼ / < 671.ʼ >.ʼ 5" J4.11.8ʼ >.6ʼ ' ;, / ?7.6ʼ ?1, 8ʼ ?,17 ,< .6ʼ '5" ʼ ?,17 ,<ʼ >4ʼ 71'-'ʼ 5ʼ .@.;47..Iʼ .7;.8ʼ Q46=4 " 5" ;,<;411.<;.ʼ >.6ʼ 71, 6ʼ =4'176ʼ >.6ʼ 71'-'4@ʼ .<51;?1 6%

"% .6ʼ / '1; :. 6ʼ =4ʼ 6.1,<7ʼ ?'66.6ʼ '?1.6ʼ 5" ? 05ʼ ;'7 ,Bʼ >4ʼ ?1.6.<7ʼ >.;1.7ʼ <.ʼ 6.1,<7ʼ ?546ʼ 6<Q.76ʼ " 5" 1.7.< .ʼ >.ʼ & <'71.ʼ >.< .16ʼ ?,41ʼ 5 -1.ʼ N =4'<7ʼ " ;.4@ʼ '<7. 1 .416ʼ " 5ʼ > 7.ʼ V?, ; 4.8ʼ .7ʼ =4ʼ 6,<7ʼ J1.-.6ʼ >.ʼ ;.77.ʼ ;5'46.8ʼ 56ʼ 1;67.1,<7ʼ ;<'1J; 6ʼ >.ʼ 5ʼ > 7.ʼ 1.7.<4.8ʼ >,<7ʼ 5.ʼ / ,<7'<7ʼ 6.1" >.>4 7ʼ >.ʼ ;.54ʼ >4ʼ 7, 6.ʼ J> .1'5%

"% .6ʼ 71'-'4@ʼ / 7' 1.6ʼ >.6ʼ J'1< 6,<6ʼ >.ʼ <ʼ 7.1 .41ʼ <.ʼ ?,4-'<7ʼ >71.ʼ 6,4 / 6ʼ " 5" 641-. 55'<;.ʼ >.6% 'J.<76ʼ / 7' 1.68ʼ > 4<.ʼ / '< .1.ʼ '466ʼ ;@';7.ʼ ;7ʼ '466ʼ ;,<67'<7.ʼ =4.ʼ >'<6ʼ 5.6ʼ ?5';.6ʼ >.ʼ J4.11.ʼ .7%?,67.6ʼ / ʼ 5 7' 1;68ʼ 5.ʼ 1, ʼ , / / .1" ;7ʼ <67 74;1" >'<6ʼ ; :'=4.ʼ J'1< 6,<ʼ >;ʼ 7>1 . 1ʼ 4<ʼ ʼ ;:'1J.ʼ >.ʼ -. 55.1" .<71;7 .<ʼ Q&B 1<ʼ 5 .1>&Y0'7 / .<76ʼ / 7' 1.68ʼ '4@ʼ 1 ?'1'7 ,<6ʼ >.ʼ > 7' 58ʼ .7ʼ =4ʼ 6.1" 7.<4ʼ >. ʼ 1.<>1.ʼ ;, / ?7.ʼ '4@ʼ 'J.<76ʼ / 7' 1.6ʼ >. 6 J<. 6ʼ " ;_Z7 .EE.7% #,6ʼ ;,<6.1-'7.416ʼ 6.1,<7ʼ ' / ,- 05.6ʼ " 5" -,5,<7>ʼ >4ʼ 1, %

"% .6ʼ ;,<6.1-'5;4 6ʼ >.6ʼ 0>7 / .<76ʼ / 7' 1.6ʼ 6.1,<7ʼ 5.J. 68ʼ '47'<7ʼ =4.ʼ E' 1.ʼ 6;ʼ ?, 411'8ʼ >'<6ʼ 5.6ʼ 0 5ʼ / .<76ʼ ;,<E .6ʼ " 5.416ʼ 6, <68ʼ .7ʼ 641ʼ 5.6ʼ E,<>6ʼ >.67<;6ʼ " 1;451;5 . ʼ >.6ʼ & 7'05 66. / ;<76 / 7' 1.6Iʼ 5ʼ 5.41ʼ 6.1'

, , 58 ;% +' 8 + ' AAA + %%%%%%%% %%8Q ,V 6
'4@E,<;7 ,<6 =4 ' 5.41'6,<7'66 .6'?'1' '17 ;5.' '
?1E,>>.<78 5,16=4 56'?'66.1,<7''4<' J1'>.'64?.1 .41'
'';.54 '>,<5 56'6,<71.- 746%
' ' 'N ,46'1,46'1'??.5.0'5.'1'? P,17= '-,46
''>7>H' 7?'1' % K.'4/ .70 641'5.6 / ,V.<6>.'?'1-.< 1'
'' '4> 7 ,<'>.6 ; , / ?7.6 '11 >1>6% ,0Q.7 ?1 <; ?'5 ''
>7>>.'6.?,<1-, 1';.<71.'5.6,1>,<<'7.416'.7 / < 651.6
= > ,<7 ' 5'? >.'5.6 5 <'<;.6 >.'5''<'7 ,<R ,46 '-.0
>. .1 7> =4.'7,<6 .<71.?1.<.416'.7 , -1 .168 =4 Q467 '
5 .1' .<7'-, 1'71'-' 55>'?'1'5.6 ,1>1.6>.6 '>/ < 671' '
7.'16'5.J 7 / .68 6.1' .<7 ?'V.68 6'4E'' -,46 ?;E71-, 1'
;,<71.' .6 ,1>,<<'7.4168 ,6 ; , / 7.6 ?.16 67.<7'';1, 1.'
=4.'5'' E,<;7 ,<'> '?41.1'5.6 ; , / ?7.6 <.'>, 7 ?'6 >71.'
>.5>J4. .% ,46 '-,<6 ?.<6> =4 5 < >7' 7 ?'6 .<'<,71.'
E=;4 .'>.'>>5.J4.1' ;.'>.-, 1% .6 0' 55 'J.6 =4 '<,46
,<7<, / / ` '<,46 ,<7> 7N H' 7.6 5'' #,<67 747 ,<8 ,1 '
J'< 6.0'5.6 E<'<;.68 > 1 J.0 5.6 ?,41' H'-.< 18 .7 1. '
-,V.0 5.6 ?,41'5.?'66>8 '<<'>.'> / <4.15'>.%77.% ,46
<.' ?,4- .0 >.5.J4.1'5.'6, <'>.' E' 1.'5'' #,<67 747 ,<' I
-,46 6.1' 7 5 ?.1 / 6 >.' >.5>J4.1'5.' ?,4-, 1'>.'E' 1.'
5'' #,<67 747 ,<Z ,46 <.' '-,<6 ?'6 ?.<6.% <47 5. '
/ .<7 E.1 .0 ,46 4<.' ; ,<67 747 ,<8 6 ' -,46'0'<>,< '
< .0'5.6 E<'<;.6% ,46 '-.0 -,46 / > / .6 1>?'17'5.6
/ ?,6 7 ,<6I . .67 -,46 =4 ';,<6.<7.0'5.6 ;,<71 047 ,<68
=4 ' .<' 1.J5.0 5'' >.67 <'7 ,<I . .67 '' -,46 > - 6.1'5.6
; , / ?7.6% ,46 '-,<6 01.<' ?.<6.' =4.'5.6 5.J 65'741.6
<.'?,411' .<7E' 1.'7,46'5.6 ; , / ?7.6I / ' 6 >.6041.'4@
,1J'< 6.6 >.' / '< .1.' =4 56 ?4 66.<76.1V 16,46 7, 7.6
#6 5.J 65'741.68 .7 =4 56 < 'J 66.<7 =4.'6,46 5.41'641M
-. 55'<;.' / / .> '7.8 / .771,<7 5.6 5.J 65'741.6 ''?,17>.'
>.'Q4J.1% <' ?.<7 ;,<7.67.1'>.6 ;1.'<;.6I '5,16 -,46
1.<-.11.0 '4@ 71 04<'4@% # .67 '' -,46 > >.< '<>.1'=4.'
7.55.';1.'<;.'?4 66.'>71.' ''77'=4. .8 .7 .<64 7.' ''1.<-,V.1'
'4@ 71 04<'4@% ' 6 ;.'< .67 ?'6 >71.' 4J.'=4.'>.'-, 1'
>.6 ; , / ?7.68 =4.' > .@' / <.1'6'5.6 >. .1.76 =4.'-,46
'-.0 1.<>46 ,<7 .7>.@.;47.6%
' ' D 'N 3 .67 ;.'=4.' 66. / 05..' >, 7 -, 1G
>'<6 5'' ; , / ?7'0 5 7.Z #.'6,<7 5.6 >.?.<6.6 =4 ' ,<7 7.'
E' 7.6 ;,<E,1< . / .<7 '' 6.6 >.#1.76I / ' 6 .55.' <.' >, 7
?'6 6 ,;;4?.1'.55. / > / .'>.6 >.7' 56>.5'' ; , / ?7'0 5 7.8
;'1'-,V.0'5.6 . / 0'11'6 >.' ;.6V67E / .% .6 5.J 65'741.6
<.'7 .<>1,<7 =4.'>.6 6.66 ,<6 / , / .<7'<..6% <' ; , / ?G
7'05.' / .4178 >,<<.' 6'' >> < 66 ,<8 5 E'47 '?41.1'6,<'
;? / ?7.% ,<'-,46 ?1,?,6.'>.'1.<-,V.1'5.6 > EE ;4 .6
'55 ?1, ;41.41 6V<> ;8 =4 '?,4164 -1'' >'<6 5.6 71 04M
<'4@8 .<'6,17.'=4 5 E'4>1'' E' 1.'; ,41 1'5.6 ?E.;.6 ?'1'
7,47 5.'1,V'4 / .% .67 5 ?'6 0 .<' ?546 6 / ?5.'=4 4<.'
; , / / 66 ,<'=4.5;,<=4.'Q4J.'>.' ;;6 > E ;457.6Z
' # 'N .'1.?,<>6 '4'?1. ,? <'<78 D=4.8
64 -'<7 5'' #,<67 747 ,<8 66. / 05..' <'7 ,<'5.' ?.47
>,<<.1' ''6''6.66 ,<'5.'7. / ?6 <>..66' 1.I .55.' .67; , / '
?,6 .'>.') '>.?47.8 56 '41,<7 5.'7. / ?6 64E5 6'<7
?,41'Q4J.1'5.6 ; , / ?7.6% 3 4'<7 '' 5'' > EE ;457.'>4'71'<6M
?,17 >.6 ; , / ?7.68 Q.'> 6 =4.'5,16=4 ,<' 1.<-.11''>'<6
5.6 71 04<'4@ 5 <.' 6 'J 1'' ?'6 '5,16 >.' Q4J.1' 5.6
; , / ?7.68 / ' 6 5'' =4.67 ,<'4 / =4.'641'5'=4.55.'6.'6.1''
.5.-..'5'' > EE .457.% 'E'4>1'' '5,16 71'<6?,17.1'7,47.6
5.6 ? .;.68 .7 -,46 '41.0'5.'J1'<>' ''-''<7'J.'>.'71,4-.1'
5''Q467 ;.'>'<6 6,<>, / ; 5.% ,46 ?,411.0.<64 7.' ,1 '
>,<1 .18 '4'5 .4'>.'E' 1.'?,4164 -1.'?'1'5.6 ?1, ;41.416
>4 >.?'17. / .<78 =4.' ..'6, 7 ?'1'4<' 'J.<7 >4 71 ` ,1'
?405 ;8 ;'1' Q.' ;1, 6 =4 5 6.1' 7 '-'<7'J.4@ =4.'5.6
%?,416457.6 E466.<7 > 1 J..6 ?'1'4<';.<71.' ; , / / 4<%
' 'N '<6 5.'1'??,17 =4 ' -,46 ;;4?.8 5
6 >5E.-.'4<.'J1'<>.'=4.67 ,<8 ;.55.'>.'6'-, 1'6'5.'?,4M
-, 1'> .@' / <.1'5.6 ; , / ?7.6 6.1'' >.5. J4.% .'Q4J. '
/ .<7 >>E < 7 E >.6 ; , / ?7.6 >, 7 6'<6 >,47.' '??'17.< 1'
'4 ;,1?6 >J 65'7 EI / ' 6 5'' ?1.?'1'7 ,<'>.6 ; , / ?7.6
;67 0 .<'471.';;,6.8 .7 Q '?.1 , 6 5.'?546 J1'<>'>'<M
J.1'>.'5'' ;,<E .1' ''>.6 ; , / / 6 >.' 1 66. / <5..'<'7 ,M
<'5.% '' 5.J 65'741.8 =4.5=4.' <, / 01. 6.8 =4.5=4.'
.<' ; , / ?,6. .'=4 .55.'6, 78 <.Q?,411'' . / ?5,V.1'7,47
7,55 7. / ?6 ?,41' ;.'71'-' 5% '7'47 =4 5 V ' 7 4< 71.

<7.1 / >> ' 1.' .<71.'E.' ; , / ?7'05.' .7 ;.54 ' =4 'Q4J.'5.'
; , / ?7.% <' > 7 =4.' , .77.' ?1.?'1'7 ,<'6.'E.1'' ?'1'4<'
041.'4 6,46 5.6 V.4@ >4 ; ,1?6 5. J 65'7 EI ;.' 041.'4
\.1' 7 58 ;,1EE5<.'5.6 <>71.68 ; , / ?,67 >.' ; , / / 6<,<'
1.6?,<6'05.68 > 1 J>'?'1' >.6 E' , / / .6 1.6?,<6'05.6 Z
,4-.0 -,46 ;,<5 .1'4<.' ; , / ?7'0 5 7.' 6 ' / ?,17'<7.'
5'>.6 >71. ' <,<' 1.6?,<6'05.6Z ,41'>- 7.1' ; .7 <;,<M
-.< .<78 Q.'-,46 ?1,?,6.'4<.' ; , / / 66 ,<' 1.6?,<6'05.8
<7.1 / .> ' 1.' .<71.'5.' ; , / ?7'05.' .7 5.' ;,1?6 5.J 65'7 E8
=4 '?1.<<.'5.6 ; , / ?7.6 >.'5'' / ' <'>4 ; , / ?7'05.8 =4 8
;:'1J>.'?'1'.7'7> .4.@' / <.1'5.6 >.7' 568 5.6 ?1>6.<'7.'
> 5'' 5.J 65'741.' '-.;6.6 ,06.1-'7 ,<6I '77.<7 <'>.'
5'' 5.J 65'741.'>7'<7 .-. 55..'?'1' ;.6 ,06.1-'7 ,<68 6,<
71'-' 5 >7'<7 ?1.?'1.' 6.1'' ?546 E'; 5.'.7 4 6'?1, / ?7%
' 5.6 ; , / ?7.416 ; , / / .77' .<7 4<.' <Q467 ;.' .<-.16
4<' ; , / ?7'05.8 ;.54 ; '41' 7 1.;,416.'5''5.J 65'741.8
.7 '?-E.6%1.@' / .<' >4 71'-' 5 5'' 5.J 65'741.' ?,411' 7
,1>, <.1'>.6 ?,4164 7. 8
'' ; , / ?7'0 5 7.' '<; .7 / .' ;,< 67.' >'<6 7,4 ' 5.6
; , / ?7.6 '11 >1.68 >'<6 5.6 ; , / ?7.6 > '1.;.-.416 J. '
<>1'4@8 ;.7 @ >.6 ?'V6 > .7'768 .7;% <' ?1,?,6.'>.'E' 1.'
1. / .771.';.6 ; , / ?7.6 '4@ >.?'17. / .<76I / 'Q6 ?,4-.0 '
-,46 .<;,1.'5.6 641;:'1J.1Z ,46 <.?,4-.0'??B= 5.1'
''5'' ;,< ?7'0 5 7.' '<; .<<.'5. ' E,1 / .6 <,4-.55.6I 5.6
>.?'17. / .<76 <.'?,411' .<7 -,46 6.1- 1I 5'' ; , / ?7'M
0 5 7.' 6.1' 7 >,<.'7,47 . .1.' . J5,47 .'>'<6 5.6 04M
1.'4@ >.' 66. / 05..'<'7 ,<'5.% 3 4'<7 2 5'' ; , / ?7'M
0 5 7.' E4741.8 .55.' ;67 .<7 .1. / .<7 6 / ?5.I .55.' 6.'
1>>4 7 '' 5'' ; , / ?7'0 5 7.'>4 71.6,1'?405 ;% #.'6,<7 '
; , / ?7.6 >.';5.1;' '' / ' 71.8 >.' ; , / / 6 '' ; , / / .77'<7%
.6 '> / < 671'7 ,<6 641-. 55.<75.1.;.-.418 .@' / <.<7
.7'7>.'6''1, ;.77.8 -, .<7 5. ' ; , / ?7.68 / ' 6 <.'5.6
Q4J.<7 ?'6% # .67 '' 5'' 71.6,1.1 .'<'7 ,<'5.'=4.'5.6 > M
-.16 'J.<76 1>?'<>46 >'<6 5.6 >.?'17. / .<76 ,<7 '%
?'V.1G8 .7 ?'1'#,<6.=4.<7 '' ; , / ?7.1% 3 4'<7 '4 ; , / ?7.'
>.'5''71.6,1.1 .'<'7 ,<'5.8 5 .67 .@71 / . / .<7 6 / ?5.I
-,46 '-.0 1>>4 7 '' >.6 >..6 >.' ; , / / .1;.N; .67 4<.'
=' 66.>.'1.;.77.'>,<75.' ; , / ?7.'6.1''Q467 E .' ?'1' 5.6
.7'76 >.6 1.;.75.6I 5.6 >.?.<6.6 6.1,<7Q467 ..6 ?'1'5.6
=4 77'<;.6 >.6 > EE.1.<76 ,1>,<<'7.416 >.6 >.?'17.M
/ .<76I ;.;,1?6 >J 65'7 E .@' / <.1'' 6 ' .55.6 ,<7 >7.'
E' 7.6 ;,<E,1 / > / .<7 '' .6 >.;1.76I; .67 >,<.''-.;'; .'
;.<71.'4< =4.'=4.'-,46 >.-.0 ;,11.6?,<>1.% .' ;1, 6
=4.' ;.'6,<7 5'' 5.6 >. .6 5.6 ? <6 6 / ?5.6 << ,<' ?.47
1. 6.<7.1'641'5'' ; , / ?7'0 5 7.% # .678 ?,41'5'' ; , / ?7< '
5 7.' '<; .<<.8 >.' 64067 74.1'4<.' ; , / / 66 ,<' 1.6M
?,<6'05.' '4@ 71 04<'4@ =4 ' .<'>7' .<7 #:'1J.68 5'M
=4.55.' ; , / / 66 ,<'>,<<.1'6,<' ,? < ,<'?1.?'1'7, 1.'
641'5.' ; , / ?7.8 .7 5.' ;,1?6 5. J 65'7 EQ4J.1'% 3 4'<7 ''
5'' ; , / ?7'0 5 7>'E4741 Q.55.'6.1'' '06,54 / .<7 5'' / > / .I
5 V '41''7,4Q,416 4<' .71.' <7.1 / .> ' 1.'.<71.'5.' ;,1?6
>J 65'7 E .7 5.' ; , / ?7'05.%
' . 'N '> / .76'5.'?1 <; ?.'=<.'5.' ; , / ?7.'6, 7
'11>7> ?'1' 66. / 05; .'<'7 ,<'5.'641'5.'1'??,17 >'4<'
>.'6.6 ; , / 7.6I / ' 6 ; , / / .'471.E, 6 >'<6 5'' ; ' / 01.'
>.6 ; , / ?7.6 5 V '-' 7 >.6 ;,<6. 55.16.7 >=6 '4> 7.E 168
5 E'47 <,<'?'6 4<.' ;:' / 01.'>.6 ; , / ?7.6 ' ; 7> >.'
66. / 05 .'<'7 ,<'5.8 / ' 6 4<.' .0' / 01.'> '4> 5 ,<'
=4 ' .@' / <.1'' 5.6 ; , / ?7.68 .<' E.1'' 5.'1'??,17 '4@
; , / 7 6 >.' 66. / 05>.'<'7 ,<'5.8 1.?,<>1''>.' .@'; '
7 74>.' .7 >.6 ? .;.6 .7 >.6 E' 56I / ' 6 ; , / / .' 5 <.' '
E'47 ?'6 =4.'5.6 '4> 7.416 6, .<7 <, / / .6 ?'1' ;.54 '
/ E / .' =4 '%Q4J.8 5 5'' ;:' / 01.' > '7 > 7 ,<' >, 7 E 71.'
<, / / .'?'1'5.'1, 8 '471. / .<7 5 < V '41' 7 ?.1.,<<.'
>.'1.6?,<6'05.%
' 'N .'<.' '?'6 > ''- 6 =4.' ;.'6, 7 5.'?,4M
-, 1'.@7,7 E =4 '<, / / .'5.6 '4> 7.416% # .67 5.'?,4M
-, 1'.@>;47 E=4 '' E' 7 5.6 >>?.<6.6I 5 .67 '0641>.'>.'
54 '>,<<.1'4<.'7.55.' <E54.<;.'641 '4> 7 ,4 .7 5'' ?1.M
?'1'7 ,<'>.6 ; , / ?7.6% .' ; .' =4.'5.' ;,1?6 >J 65'7 5
< .67 ?'6 1.6?,<6'05.8 5 <.' 6 .<64 7 ?'6 =4 8< V, 5
?.1.,<<.'>.'1.6?,<6'05.8 ;'1';.6 '4> 7.416 1>?,<>1,<7
'4 ;,1?6 5.J 65'7 E; , / / .' '471.E, 6 56 1>?,<>' .<7'77
1, 8 =4 '5.6 <, / / ' 7

8 #, ;K 7 N P. / '<>.16' 66. / 05. .<.>>5>J4.1'' ?'6'5'' E,<;7 ,<'> '?41.1'5.6' ; , / ?7.68' ; .67'>. / '<>.1' 6'> . ';4 / 45.1''7,46'5.6' ?,4- , 168' 6'> . '.@' < <.1'' ?.<7 1.' U / 55 ,<6'>.'?E.;.6' .6'1.; ,4-1. / .<768 ?'1'.@' / ?5.8 =4'6,<7 ''E' 1.' '4@' ?1,E 7 .7 0.<.E ; .'>.' 5'' <'7 ,<8 6 .5 -.<7 ''9 8 '5 -%I'. .67 ''<,46' ''?,6.1' 5.6'1.J .6'>.' '?41. / .<7 >.6' ; , / ?7.6I / ' 6' ; .'< .67 ?'6' ''<,46' ''<,46', ; ;4?.1'>4' ; ,<7.<7 .4@'>.'5'' ; , / ?7' ' 0 5 7.% 8

<'?1,?,6.'=4.'5.' ; ,1?6' >J 65'7 E'1.<- , .'5.6' ; ,<M 7.67'7 ,<6'2' 4<'>.6' U '71 04<'4@'>.'> 671 ;7% 'J.<7 >4'71.6,1' ?405 ;' '41'' >,<.' '' ?'17'J.1']'' ; ,<E '<;.' .<71.' U '?1, ;41.416S

''6.45.' / .641.'.67'>.'<, / / .1'4<.' ; , / / 66 ,<'>.' UC' / . / 01.6'<, / / >6' ?'1'5.6' '66. / 05 .6' .5.;5,1'5.6' =4'< ,<7 ?'6' 7 ' .<'7,41' ?,41'5.6' <, / <'7 ,<6' '4@' ?5' ;.6' >4' 71 04<'5'>.' ;'66'7 ,<% #.77.' ; , / / 66 ,<8 ; , / ?,6. .'>.'E,<;5 ,<<' 1.6'?,?45' 1.68 / 1 7.1''-,71.' ; ,<E '<;.' .7 1.7<?5' ; .1''5'' ; :' / 01.'>.6' ; , / ?7.6%

.'?,4- , 1'.@.;47 E' ; , / ?7'05.' <.'?.<7 <, / / .1'5'' ; , / / 66 ,<'=4'1.; .-1''5.6' ; , / ?7.6I 66. / 05. .'<' ' 7 ,<'5.'>.-'<7 Q4J.1' .7 '11 7.1'5.68; , / ?7.6' .67 4<.' '471.' ?'17 .' <7.1.66 .% '' ; , / / 66 ,<'<.'?.<7 >,<.' 71.'<, / / .'=4.'?'1'5.'?.4?5.% G

' I '<.'6 'J 7 ?'6'.<; ,1.' ; '>.'5'' / '< 1,' >.'<, / / .1% ' 6'5''?1,?,6 7 ,<'>4'?1 ,? <'<7 <.'7.<>' ''1 .<' / , <6' =4 ''1 ,4-.5.1'5'' ; :' / 01.'>.6' ; , / ?7.6' =4.'-046' '-.0'64??1 / .%

.'?1,Q.7 >.' % K.'4 / .70'?,17.'.@?1.66 / .<7N ' V'41'' '' ' '>.' ; ,1'?7'0 5 7.% # .67 <<.'<,4-.55.' ; :' / 01.'>.6' ; , / ?7.6%

'47.41'>.' ; .'?1,Q.7 ''6'<6' ; .66.' ; ,<E,<>4'1'?41. ' / .<7 >.6' ; , / ?7.6' .7 5.'Q4J. / .<7 >.6' ; ,<7.67'7 ,<6% '4<' ; , / ?7'05.' .7' 76,4? ; ,<<.'> '- , 1 <71,>' 7 4<.' ? .; .'E'466.8 '5,16' 5 E'4>1' 7 6'<6' >,47.' =4 5 E47 ?,4164 -'>.-'<7 5.6'71 04<'4@I / ' 6' =4, 6.1- 1,<7

'71 04<'4@'>.' > 671 ;78 6' - ,46' ,7 5 J.0'7,47.6'5.6' ?'17 .6'' - .< 1'> 6?.<> .46. / .<7 ?,4164 -1.'5.416' 'EM E' 1.6' '4?1.6'> 4<.' ; ,41'6#'<7.' '' '1 6Z' <6'<.'; ,<' E,<>,<6' ?'6' '?41. / .<7 >.6' ; , / ?7.6' '-.;'5.'Q4J.M / .<7% .'>. / '<>.'=4.'5''=4.6E ,<'6, 7 1.>4 7.' '' ; .77.' =4.67 ,<'6 / ?5.N 66. / 05. .'<'7Q,<'5.''?41.1' 7 .55.' 5.6' ; , / ?7.6Z

<' 71 68'J1'<>' <, / 01.'>.' / . / 01.6' ,? <.<7 641'5'' ' '< .1.'>.'<, / / .1'5.6' '4> 7.<168 8 G

' 'N ''> 6;466 ,<'- .<7 >.2;.'=4.' ,<' ; ,<' 7,<>' >'<6' 5'' > 6;466 ,<' 5' '?41. / . 7 >.6' ; , / ?7.68 '4> 7 ,<8 5.' 041.'4'>.' ; , / ?7'0 5 7>8 5'' / '< .1.>.' 5, / / .1% ''=4.67 ,<' >.'6' - , 1' =4'>, 7 .<7.<>1.'5.6' [/ ?7.6'.<>' < 7 - ..67'06,54 / .<7 <>.?.<>'<7.'>.6' 5471.6% ; '1'5'' ;5,741.8 '<>7#'>.6' ; , / ?7.6'<.'6.'E' 7 c4 '?1.6'=4.'7,47.6'5.6' ; ,<7.67'7 ,<6'?'17 ;45 .1;6' ,<7 I7#Q'4J. .6'?'1'5.6'71 04<'4@% .'<.'?.?6.'?'6'=4.'?.1' 6,<<.'?4 66.' <'J <.1'> '771 04.1' ; .77.' ; ,< ' 66'<; .' 5.E < 7 -.'>.6' ; , / ?7.6' '4<' '471.'?,4- , 1'=4 '4' ; ,1?6' >J 65'7 E% # .67 54 '=4' '' - ,7>'5.6' / ?,6 7 ,<6I' . .67 '' 54' ' .@' / <.18 ''6.' ; ,<- ' <;1.6' ; .6' / ?E 76' ,<7 .7;' 'EE.;7.6'1# .55. / .<7 '4''> ?.<6.6' '4@=4.55.6' 5'5.6' - ' 5' >.65' <>68 ?,41'>. ; :'1J.1'5.6' ; , / / 66' 1.6'>.'5''71# ' 6,1.1 .'>.'5.41'1.6?,<6'0 5 7#%

#.?.<>'<7 Q.' <.' ;1, 6' ?'6' =4.'5.' ; ,1?6' >J 65'7 E' '66.'54 / > / .' '?41. / .<7 ?1>?'1'7, 1.>.6' ; , / ?7.6% ' E.'E'47 ?'6' =4.'5.' ; ,1?6'5.J 65'7 E'6.'?1 -.'>.'U ' '' ' / . / 01.6'=4' . / ?5, .1' .<7 7,47 5.41'7. / ?6'U .@'M / <.1' U / 55 ,<6%>.'? #;.6% <.' ; , / / 66 ,<'>, 7 E' 1.' ; .'71'-'5' ?1>?'E'7, 1.% 5' E'47 >,<.' > 1.' =4.'5.6' ; , / ?7.6'6.1,<7 '?41>6' ! '?'1'5.' ; ,1?6' >J 65'7 E% + ''?1,?,6 7 ,<'>.' % '<>1>' .67 '>,?7>.% .'?1. / .1'5 71.'>4'?1,Q.7 >.'>>;1.78 ?1.6.<7.?'1' % # ' / 468 .67%>.;1>7>' .<' ; .6'7.1 / .6N

5 K ' #18 +%' .' ' ' ' ' '

$

$% 17%SG % ' ; , / ?7.1'>,Q,<1'>.'5''?405 ;'7 ,<'.7 >.'5'

* ,$ 3+,$ ' ' + ' $+ Ab ' I' 4, Q$+' . 8+, * +44.$ ''4+.' ('-(3.(,'- 'W'(4,( ).('BHT (('2$(''(. *,', ,('# *3,$ *'/ ' * ' '3 4,(.'-+' (' .I (' #@3(''-(I4. 3 .(*' 4 ', ++,'I (,' (' + ,.(' # ,3('' $*$', .$('' 4.('' ('-$,' 36+).(''-(''3 4,('I '(. *,''*44.$$*('D .' ' ''$,-,'5 (' ('4.('(*,' -(3.(,''(.+' 4+.0(* ' +$ -$.(3, $.(''-('-(4+.,(*,I ' ('#(. ,'* ,$#$(.' + '3#++$).('-(''3 4,(''+$, ((''-++'' (,(*- (' -(' (.'-(4+.,' (+,7 (,' -+*'' (' .I ('' -$.(3, $.('' -('' -(4+.,(($ F(. ,'4. -(.I 4+.'-(*$$,'-(,(+.'' ( ).(''+''$',(''- '4,' 3 .(*. 9(*(.+!'8*- 3' -+' -(4+.,((*,I 2' D 44 '$,$ *' - '3(''+. ('9.(##('I -(4-,''(,'+.36$0('' -('-$,(''36+)$ -(''3 4,('I +$*'$'5+('' .' (+.')$ $(.

' &/ ('-$,''3 $''+$.('I ,''-(' +44 '$,$ *' -(''('('I '('#(. *,'.(4.('(*,(.'(,'.((,,.(', '' ('3 4,('I *Q (*3 .(' -(*$,$0((*,' 9 'I +4 . ' +' 3 ..$9('I 5 $' ,. 0(. *,' ('$',(.' -+*'' ('9.(##('I +$*'$' 5 (' ('' 4$(3('' +44 ;'$ ''(*'-.(''(. *,' *').(#(,+,I - *,' *'-) ('(-($0.('+*2'9.(## (.''4 .' (.'-(36+.9('-('-$,''3 4,('' 4$(3('

.' ' '' '(D#(. *,' .(4.('(*,(.' ('' .(9$',.('' + 2' -$',.$)' ,$ $$'' -(''3 4,('I (,' .((,,.('3(; -('-$,''.(9$',.(''' ('5 (''$''(',. 0(,+'-('+.,$3 ('' * *'(*3 .('-(()+.9(' .' ' ('' ##3(.''5 $' '(' ' *,' 36+.9('I' .' ('' .(9$',*' -(''3 4,('' (,' 4$(3(''$' +44 $I '(. *,','(* ''-('.((,$ ('-$,''3 4,(''(,' 4$ ('' + ' -$.(3, $.(' -('-(4+.,((*,' -(-+*''5 $*U+$*(I +' 3 4,(.' -(''+' * ,$$$3+,$ *I +4.(''$ 5 (('5 $*U+$*(I #+ ,(4+.' (2' -%+0 .' .(L'' ('-$,''3 ' ,('' ,'4$(3('I (''$*,-. ,''-(' (.''# *+* ('3(''(. *,'-('4$(' -. $,7 (,' +4.('' $('' '(3 *-('5 $*U+$*(I $ ''(. *,'3*' ' 3 *-+ *('' '+*('+ (*-('-(' $0 I +5+(,(''('.+' (*'*' +,$9 (*$(('-(' ' 0'4+.'36+5 (' +.'-('.(,+.- D .' ' ('' -$.(3, $.('' -('' -(4+.,(* (*,''#(. *,' 4+.0(.' '+*'' - +$' ++') .(+ ' -(' 3 4$+)$ $,(I 5 $' '(.+'3$% 4$ (,+)$$I ('' 3 4,(''(,'4$(3(''+' +44 $I 5 +$''+ . *,'.(,$.' ' $,'-(''9.(##('I' $,'-('' +$*''-(''3 *'($ (.'!.+44 .,($.' $*' ''( ) (('' +,$ *+('4 .0 $.+' +' ,+' (0 ('- '3(? ('I +' $*0(*,+$.((,'3 *'(.0+,$ *' -(''4$ (3('.(4 '+*$ + 2'9.(##('I -(4-, ' (,' +.36$0('' -(''36+).('' -(''3 4$ ' 44.$ ((' ' =

%Y ''% ' .+'4 .0 '$*(('+ (*,' .' +' $5 $-+,$ *'(,N .( ) .'((*,'-('' ##$3(''' 44.$ -''4+.' ('4.('(*,'-(3.$ (,% (I' $0+*, ('' # . ('' (,' ('' 4.$*3$4('' - 3.(,('' 4+.' '( ) '*+,$ *+ (I3 *3(.*+*, +' $5 $-+,$ *'(, ('(( ) 0' '((*,'-('' ##$3(''-(' +-$3+, .('(,' $*$', (. (''.

% H1.7.'4'5 78' '4'<, / '>4' ; ,74 7 '> ?5, / '7 =4.' .6'>.4@'5. 71.6'64 -' 7.6N

' ''0 ' 0@ & ' ' F ' F '

G

W % (' ; , / 7.8 Q.' - .<6'>.'1. ; .- , 1'4<.'5.771.'?' 5'=4.55.'-,46' <.' / '<>.0'=4.'5.6' 6?'J<,56'6,<7.<71 ' > 7 ,<8 641'5.'7.11 7, 1.'E1'<;' 6'?'1'71, 6'J,1J.6% ! .7 <,4-.55.'<.'?.47 71.'=4.' .EE.7 >.' =4.5=4.' / .?1 ' .@'J.1. .% 55.'?.47 '- , 1'?,41';'46.'=4. =4.6' ; ,4(>.'E46 5' .<71.'5.6' ; ,<71.0'<> .16'>.6' >.4@'1,V'4 / .' '< V '' 641'5''E1,<7 1.'=4.'5.6'71,4?.6' '06,54 / .' <W ; .66' 1.6' ?,41'E,1 / .1' 5.' ; ,1>,<'>,<7 Q.' -,46' ?'159% ,71.' .@; .55.<; .' ; ,<<' 7 5.'1, ' / ,<' / ' 71.8 >, 7 6' - , 1' ; , / 0 .<' ; .77.' ; ,<>4 7.'6.1' 7 <> J<.' ; 6''?1,0 7V'.7 >.'5''> J< 7>'>.'6'' ; ,41,<<.% ,<8 % ; , / 7.8 Q.'<.' ;1, 6'?'6'=4.'5.'1, ' / ,<' / ' 71. / .'7 .<1' .' ' ?,41' -,46' 5' 66.1' 6' - , 1' 6.]' <7.<7 ,<6'?'1' & 5.771.6'>.'=4.5=4.6' / 4< ; ?'5 7.6%

Y H' ' : , <<.41'> 571 . 8 .7;%

Y% .' ; , / 7.' '1 ' , B'E

C' ''0 ' *, &

8 ' + ,<6 .418'Q.'- .<6'>.'1. ; .- , 1 4<.'5.771.'>.' %%%8 / 'E71.6'>.'>.4@' - ' 66.'4@' '<J5' 6' ' ;74.55. / .<7 >'<6'5.'?,17'>.' '<7.68 =<'6.'?5' J<.<78 7'<7 .<'5.41'<, / '=4 '4'<, / '>.'7,46'5.416' ; ,55.J4.68 >.' ; .'=4.'5.'C*'Q4 <8 5, 6=4 56' .5' . 7 ?1>76' ''?'15 18 4<' ; ,1?6' >.'J'1>.6'4'7 ,<'4@' 6 .67 1.<>4' ''0,1>' >.' 5.416' - ' 66.'4@8 .7 .<''. / ?,15>'5.6'- , 5.6% 6' '6641.<7 6 >71.' ; ,<E,1< . 6' '4@' 5, 6' >4' ; , / / .1; .8 .7 <' - , 1' . / 0'1=4>'+ (*(' / '1; :'<> 6.'=4' < ' 7 >7.'>.;5'1>.

.7' -_ 1E& .'?'1' 5.6' ?.1;.?7.416' >.6' >,4'<.6% .' -,46'
?1 .' >.'%?1.<>1.' 5.6' / .641.6' <>;.66' 1.6' ?,41' =4 ,<'
5.41' 1.<>.'5,416' -, 5.6' .7' 5'' 5 0.17.' >.' ?'17 1%

%%%' K M % %% & M 1 B

% H1>7.'4' ?1>6.<7.' 4<' ?1,Q.7' >.' >>;1.7' =4 ' .67'
'>,?7m')K';.6' 7.1 / .6N' $ $

41' 5.';, / ?5.'1.<>4' ' 66. / 05>.'<'7 ,<'5.' > 4<.'
$.771.' >.' ' / 0'66'>.41' > <J5.7.11.' '<' / < 671.' >.6'
'EE' 1.6' .71'<J.1.68' ?'1' 5'=4.55.' ' / 0'66'>.41' 6.'
?5' <7' >.' ;.=4 4<' ;,1?6' >.' J'1>.6' <'7 ,<'4@' >.'5''
- 55.' >.' '<7.6' .67' -.<4' '' 0,1>' >.' >.4@' 0>7 / ;<76' '<M
J5' 6' =4 ' 6.' 71,41' .<7' >'<6' 5.' ?,17' >.' ;.77.' - 55.' .7'
=4 ' >7' .<76 15.'?, <7' > .<' ?'17 18.7' '' . / ?,17> .416'
-, 5.68' % % 8 8

66.<'05>.'<'7 ,<'5.';:'1J.'5.' / < 671.' >.' 47. '
1 .41' >.'?1.<>1.' 6'<6' >.5' 5.6' >;5' 1; 66.< .<76' <.;.6'
6' 1.6' 641;.' =4 ' '' ?4' >,<<.1' 5 .4' '' ;.' ?1.;.>.8' 'E <'
=4 ' 6, 7' ';;,1>.' 4<.' Q467.' <>. / < 7.8' 6 5' V' '' 5 .48'
'4@' / ' 71.6' >.6' >.4@' 0 7 / .<76' '<J5' 6' >,<7' 5' 6 'J 78'
.7' = .' 7,47.' 5 0.17.' ;416, '1.<>4.'?,41' 64 -1.' 5.41'
>.67 <'7 ,<% n

7' ;.?.<>'<7 66. / 0 .'<'7 ,<'5.8' -,45'<7' =4.' 5''
0,<<.' <7.55 J.<;.' .75 ' / 7 .' =4 ' 1.J<.<7' .<71.' 5''
H1'<;.' .7' 5.6' <'7 ,<6' >71'<J.1;6' 6, .<7' ;,<67' / E.<7'
.<71.7.<4.68' ,1>,7 <.' '4@' ;,1?6' '> / < 671'7 E 8' '4@'
/ 4< ; ?'5 7.68' '4@';, / / '<>'<76' >.6' E,1;.6' >.' 7.1V.'
.7' >.' / .18' .7' J.<.1'5. / .<7' '' 7,46' 5.6' E,4;7 ,<<' 1.6'
?405 ;6' >.'E' 1.'Q,4 1' 5.6' >71'<J.168' >'<6' 7,47.' .5.<'
>4.' >4' 1,V'4 / .' .7' ?'17 ;4 1. / .<7' > / 6' 5.6' ?,176' >.W
H1'<;.8' >.' 5'' 5 0.17.8' >.' 5'' 6E51.7>' .7' >.' 5'' ?1,7.;7 ,<'
=4 ' 5.41' 6,<7' J'1'<7 .6' ?'1' 5.6' 71' >6%
' / . 'N' ''1.;48' ?'15.;,<11 .1' >.' 6' / .> 8'
> @' ,4' >,40.' 5.771.6' >4' > 671 ;7' >.' >'45>,<8' ; >.-'<7'
?'V6' >.' ,45.8' >,<7' '4;4<.'<.'E' 7' / .<7 ,<' >.' <GG
H6, '>.6' 6?'J?,56% .'?1, .'>.' 0' / 1;,<67'<;.8'
?,41' ,06.1-.1' > 66. / 05>.' =4 ' .@ 67' E' .<71.' 5.6'
K'6=4.6' .7' 5.6' 'J<,568P 6' E<,'7 .6' %>.6> - 6 ,<6S'
'<8' 6=Q.7' >.6' 5 / 7.68' .7?,41' ?%?1 .1' >.' ?1.<>1.' >.6'
/ .641.6' ?,41' 5.6' 7.1 / Y<.1i' <' 641?5,68' Q ' 6<1.' 6Y1'
$ <05>. / 7 ,7 '5.8' =4.' 5.6' K'6=4.68' =4 ',<7' .4' '66.0V'
U U<.;J .8 41 - -Y '7,4Q [16' E1'<;6' .75 01.6V=< ' / .'
6.' 86,<7' < 'I' 5'' H Q / ;.' =4.' ?,418' V -1.' 7.56G% 6'41,<7'
> >E. . 1' 0.1 '.7 '5.41' 2\'V68' 6' .:- .' ?1.<' '
'<'' 6 'J4, 6> '5 .1' 5.6' '77'=4.1% % ' %% %%

5.' ?1 6 >.<7' ` '5.;741.' >.' ?546 .416' 5.771.6' =4 '
.4777 <<.47 5.6 6.1 / .<76>.' > -.16' ,E5 ; .16' >.' 71,4?.6
17 , / ' %\X& % ' $ 88%Q' % %% 8NI
' % .<,4' ?1>6.<5.' 4<' ?1,Q.7' >.' >>.1.78' 7.<>'<7' '
;,<7 1 / .1' 5.6' / .641.6' ?1 6.6' ?'1' 5.6';, / / 67 / 1.6' / .'
> '7.4H ' .<-,V>6' >'<6' 5.';, / 7'7' .<' 6 <% #.' ?1,Q.7'
>.' >.;1.7' .67' '>,?7> 8' ,46' 5.' 1'??,17.1,<6' > ' 5.'
?1,;:' 77' <4 / >1, ' % 1 %
FG ' 3 'N' ,46' 1,<6' >'<6' ?.' / , / .<7' ?,41' 71, 6'
4457 ,<6' > '66 J<'76' >.' ; <=' 5 -% ;, / ? >7. / .<7' E'01a'
=4>6% 0''E'01 ;'7 ,<'] .64 7% '-.;' 5'' ?546' J1'<>.' ;'7 '
- 7.% <' .<' ';:>-.' ?'1'Q,41' ?,41' ; <=' ;.<7' / 55.'
E1'<;6I' .7' 6' / ?1 / .1 .' E,41< 66' 7' '6] .08' ,<' ?,41 '
1' 7' '55.1' Q<6=4 '' 04 7' ;.<7' / 55.' 5 -% .' <.' - .<6' ?'6'
?1,?,6.1' .<' ;.' / , / .<7' 1. / 66 ,<' 7,5'5.8' B'E'47' =4 '
V' .<' ' 7' '66.0' >.' E'01 =4>6' ?,41' 6'741.1' 7,46' 5.6' >. '
/ '<>.4168' ;'1' <,46' 6'-,<6' =4.' >>Q ' 5.6' ';;'?'1>416'
?<7' ?1 6' >.6' ?1>;'47 ,<6' ?,41' 6 .<' . / ?'1.1% , >' 5.'
?1,Q.7' >.' >>;1.7' =4.' -,46' ?1.6.<7.' -,71.' ., / 7>' >.6'
<<'<;.6N

66. / 05>.'<'7 ,<'5.' >>.1.7.'_Q4.' 5'' ;' 66.' >.' .@ '
71' ,1> <' 1.' -.16.1'?'1' >;:'<J.' ' 5'' 71>6,1.1 .'<'7 , '
<'5.' 5'' 6, / / .' >.' _[[[[[' 5 -8' .<' '66 J<'76' >.' ' -%
?,41' >71.' . / ?5,V>.' ' <6' =4.' 5.' <4 / .1' 1.' .<' '??, <7'
.7' ?' . / .<7' >.6' 6, / / .6' '4 >.66,46' >.' ' 5 -%
#.' ?1,Q.7' >.' >>;1.7' .67' '>,?76%
<' >.' % 5.6' 6..1>7' 1.6' E' 7' 5.;741.' >.' ?546 .416'
'>1.66 ' >.' > -.16' >>?'17. / .<76' 1.5'7 -. / .<7%7 4@'
/ .6'1.6' =4 56' ,<5' ?1 6.6' >'<6' 5.6' ; 1;,<67'<;.6' ?1>

6.<7.6% #.55.' >.' 5'' - 55.' >.' .<<.6' 1.6? 1.' 5'' ? 1<' - -I'
><.1J .% +' 66. / 05..' .<' ,1>,<<.' H / ?1.66 ,<%
'' 6>'<;.' .67' 5.-.. ' ' ' :.41.6%

[illegible]

O " ') ' ' '+ (,#' (#- ,, (' ' (' . ! /)

' BHTI' ' (" +8(*." ' *,' F', ('' $($,.('

/ / $G ' ' & ' & ' ' TI' A ." -('

[illegible]

! b Ᵽ YY B

.' /01' 9 - :

% E 5 %

7 + .6;'>1.'>.6 J'5.1.6 .67 '1 / . _1 5.6; ,7.6 .55.' ; ,<6 67.' .< C - , 5.68 .7 .67 ?1 7.' ?'17 1' '4 ?1. / .1 6 J<'5%

! K% 8

8) ' ' - + " > .7.' " >.;1.7.' 7,47 ; . =4' .67 1.5'7 E '4@ , ; ;4?'7 ,<6 .7 >.- , 16 >4 ; ,<6. 5 > .7'7% #.77.'5, ' .67 ; , / ?,6..'>.'6.?7 '17 ;5.6 =4 '1,= ' 5.<7 641'5.6 ,0Q.76 6Q4 -'<56 N <, / <'7 ,< >.6 / . / 01.6 >.' . ' ; ,<6. 58 E4<;7 ,<6 >4 1, 8 E,<;7 ,<6 >.6 / < 671.68 5.41 1.6?,<6'0 5 7.I E,<;7 ,<6 >4 / '1 ; : 'P >.' > .7.8 =4 ' " .<719.' >'<6 5.' ; ,<6. 5f 6.1 / .<7 >.6 / . / 01.6 8 %6.;1.7' 1.6 .7 5.416 E,<;7 ,<6%

'<6 664'<;.'>4 9 ,< " 1 J5> 5.6 > ?.<6.6 E@.6 >.6 'EE' 1.6 .71'<J.1.6I .55.6 ,47 .7.'?,17 .6 " 8 8 E5,1 <6% < " ' ; ; ,1>6 .< ,471.' 8 E5,1 <6 ?,41 >.?.<6;6 .@71' ,1> <' 1.6% + " >.?47'7 ,< >.6 'EE' 1.6 .71'<J.1.68 >.?4 6 5.' ; , / / .< ; . / .<7 >.'5" > .7.'Q46 ' =4 " ; .' / , / .<7 '-' 7 ; ,E 7.'>.4@ / 55 ,<6 >.'E5,1 <6% ,1>1.' .=4. 71.' " >,<<9 5.' '>.' ; .' / , 6 4<'1.?'6 6?5.<> >.' '4@ >.5.J4.6 >.6 55.68 '4@ 1''J 671'76 >.' ; .7E.' - 55.' .7 '4@ ; : .E6 >.' ; ,1?,1'7 ,<% .6 <,05.6 ,<7 ? ,17.' " ; .77.' , ; ; '6 ,< 5.6 6'<7.6 >.' - - .'5" ?'71 .'8 - - .' 5.'1, 8 - - .'5" <,4-.55.' ; ,<67 747 ,< 8 - - .<7 5.6 0,41M J., 6 >.6 - 55.68 <,6 E1.1.6% ' ; : '=4.'6'<7 '4< ,1; : .6 ' 71.' ; , / ?5.7 .@.;47" 4<' / ,1; .'4 >.' / 46 =4.I 5.6 0,41M J., 6 8 '77.<>1 6 >.' ; .77.'6; .<.'7,4; : '<7.' 8 6.'5.-.1.<78 .7 7,<6 6 9;1 .1.<7N (+ < 0, / .<7 '-'<7 >.'6.' / .771.' " 7'05.'5.'E, '?'147 '466 ' >'<6 5' 6'55.'> '66. / ' 05..8 .7 > 7 ' .<71'<7 N W ' / .' " / .'71,4-.- ' 5" ,E7 6,<7 / .6 ' / 6% Y

A ' C% + .6 > .7 <.6?1,- <; '5.68 =4, =4.'> '0,1> E@..6 '4 'Q4 55.7 ?1, ; : ' <8 6,<7 > EE / .6 '< ' '<M - .1 (*C8 ?,41 '77.<>..'=4.'5" <,4-.55.'5` 65'7 ,< 6.' 6, 7 ?.1E. ;7 ,<< . .7 ; ,<6,5 >.. .7 =4.'5.6 E, 6 6, .<E ?405 ..6 >'<6 7,47.%5" ,5,J<.% %

< ; ,411 .1 .67 -.<4 ; ' '- . ; 5" <,4-.55.' =4.' E.6F 71,4?.6 1466.6 1'66. / 05..6 5.'5,<J >.'5" 4<" ,<78 1.;4 4< 1.<E,17 >.' ?546 .416 1.J / .<76 > <E'<7.1 .' .7 >.' 8* #,6'=4.6% + .6 71,4?.6 1466.6 6.'6,<7 '??1, ; : ..6 >.6 E1,<7 .1.6 >.' # ,415'<>.I ,< <.' ; 1, 7 ?'6 =4.'5.41 <7.<7 ,< 6, 7 > V 1.67.1%

! %

! + < / '<>.'>.' 67,-.'8 .< >'5.'>4 *Q4 <8 ; .'=4 '64 7N W % 5.'0'1,< >.'B.10.17 .7 % ; ; , / 7.'> 67.10'OV8 'V'<7 >7.5'1 ' '-'<7 >.'?' ; ' 5 1 ?,41 K4; : '1.67 =4 56 <.' ?,4-' .<7 .<7.<>1.' " > '471.6 ; ,<> 7 ,<6 >.'?' @ =4.' ; .55.6 ?1,?,6..6 >'<6 5.' ?5'< ?1.6.<5>8 5.6% 41;6 ,<7 >.;5'1.'>9 5.41 ; ,7.' =4.'5.41 1;5 J ,J <.'5.41 ?.1 / .77' 7 ?, <7 >.' 1 .< ; .' >.1'< >;5"'>4 '1 '671 ;7 ; ,<-.<4" . ; : . / 0' ; :8 E.6 ; ,<E.1.<; .6 >4 ; ,<J1 ' ,<7 7.' .11, / ?4.68 =4, =4.'5" <.J, ; '7 ,< <.'6, 7 ?'6 1.J'1> .' ; , / / .' '0' 6,54 / .<7 1, / ?4.8 .7 =4.'5.6 471 .0 .<6 ' .<7 '6641.' =4 56 <.' ; , / / .751' .<7 ?'6 5.6 ?1. / .1.6 ; ,67 5 7.6% Y

.6 466.6 ,<7 <<7 5. / .<7 7.<7.'>.' 641?1.<>1.' 5" J'1< 6,< >.' K1' 5, [% .' J '<>' - 6 1 'V'<7 > - 6.'6,< %'1 / ..' .< 71, 6 ; ,1?68 4< >.-' 7 ; ,4-1 1 '1<'8 '4 ' 71.' '55.1 '4 6.; ,416 >.' K1' 5, [I .7 5.' 1, 6 . / .8 ; , / ' F?,6 '>.' 8 3 'E', / / .68 >.-' 7 7.<7.1 5.' ?'66'J.'>4 '<40.8 ?1.6 >.' 5 671 .% '5" J4.11.' ; ,<71.'5.6 55.' < '<>6 ; ,<7 <4' 78 4< ; ,1?6 >.' 1.6.1-.'$ .67.1' 7 " ; : 4< 5'8 ?,41 ; ,4-1 18 " 5,47 -.<. / .<E8 5.' J1'<> ;0. / < >.'#4<67'<E / ,?5.%

h' '^'- ''.

< '6641.'=4.'5.' ; '? '< ? ' ; : " < '77.<>'<7 ?546 5.' -' 66.'4@ '4@ 5 ' 1.6 0'10'1.6=4.6 '-' 7 / 6 " 5" -, 5 ?,41 '55.1 ; : .1; : .1 5'E5,77.' 1466.' >'<6 5" / .1 , 1.' ,47 ; .'=4 ' - .<7 >.'5" ,<J1 .' .7 >.6 .<- 1,<6 <.'?'1 =4.'>.'5"J4.11.% + < ?.<6.'=4 ,<%<.'E.1"5" ; ,</< < ; '7 ,< , / ; .55.'>.'5"1 - ,547 ,< >.' ,5,J<.'=4 '?1.6 5.'1.7,41 >.' % % %

L K 8

*0 2 + " -55.' > <-.16 < " >,<< '6,< ; ,<6.<5. / .<7 " <'4J41'7 ,<'=4.' '-'<7 -. 55.'>.'5"6,5.<< 7.8 5.' C 'Q4 <% 466 8 > '?1.6 / > '>.' ; .'Q, 41 5'8 5.6 ; '<,<6 .7 5.6 ; ' 66,<6 >.' / 4< M 7 ,<6 8 =4 ' '-' .<7 7 ' .@?,6 6 641 5" J1'<>.' ?5' ; .' .7 >'<6 =4.5=4.6 '471.6 .<>14 76 >.' 5" - 55.8 ,<7 7 1.75 1.68 5.'? ..E>.'J4.11.' ; .66'<7%%% " ; .1 / ,<.'>.' <'4 J41'7 ,< 6 .67 E' 7.' : .1 .< 5" / '< .1.'46 7 .8 .@; .?5 ?,417'<7 4< ,1>1.' ?'17 ; 45 .1 =4 ' " 7 '>,<< ' '4@ 71,4?.68 .7 =4 ' < .67 ?'6 7 46'J.I ; .7 ,1>1.' .7' 7 >.'E' 1.'E.4 641 5.' ?1. / .1 ; 7,V.< =4 '?,466.1' 7 7 < ;1 'E' ;7 .4@%

% >.' #'5,<<.' " ' ; ; , / ?'J< ; % > 17, 6I 56 ,<7 .4 4< .7 '471.' ;0.0 ,<6 .41 4<.' ; ,<E 1.<; .' =4 ' " >41 '?546%>.'71, 6 0.<1.6% ,4 '5.6 1 E4J 6 E1'< ' =' 6 ?1 7.<>.<7 =4 '6 V .67 %>\7 >.6 ; E',6.6>.'5" ?546 : '47.' / ?,17'< ; .% << ,6.' ; '5.'5.41 ; ,<7.67.1%%% < 71'-' 55.' " E,1; .' " >.6 4< E,1 / .6 > ,EE ; .16 E1'<=' 6% - '<7 : .1 ,<6 .41 .7 % > 17, 6 ,<7 ?'14 " 5" ?'M 1'>.8 =4E " > E5 ' ?'1 : ,<<.41 >.-'<7 .4@% # .67 >.' / ' < =4 56 >, -.<78 > 7 ,<8 ?'1 1 ?,41 . / 'J<.8 6, 7 ?,41 @ 5' #: '?.55.8 6, 7 ?,41 ,1 / 6%

"?1. 66.'.677,4Q,416 641-. 55 .'V.; 6, <% .' ; ,<6. 5 >.' K1'0'<7 <=4 .7.'>.'7. / ?6.<7. / ?6 5.6 '47.416 >.6Q,<1 <'4@% .? >';7.41 >4 - 8 A '' 7 / '<> '?'1 4<> ;1.7 >4 * / '' >.1< .18 ?,41 71.'> / ,< 7 % < 5.' 1.?1 <> > '-, 1 ?'15 '5 J.1. / .<7 >4 ?'?.8 #.'< .678 > 5 ,<8 =< 4< ?1 7.@7.% ' 6 '4 E,<> 5.' ; ,<6. 5 .67 / ; ,<7.<7 > .6 '17 ; 5.6 >.'K14@.55.6%

546 .416 J'0.7 .16 .7 Q,41<'5 67.6 '55. / '<>6 <.' ; .6, .<7 > .<71.7.< 1 5.' ?405 ; > .' ?1.?'1'7 E6 / 5 7' 1. =4 56 > 6; <5 71.'>1 J. ; ,<71.' 5" H1'< ; .I ; .?.<>'<7 ,< < '??1.<> '4;4<.'<,4-.55.'?,6 7 -.' >.' / '1; : .6>.' 71,4?.8 >.'1'66. / 05. / .<76 .@71' ,1> <' 1.68 > 7'05 6 6. / .<76 >.' / 'J'6 < 8 >.'71'<6?,176 >.' / 4< 7 ,<6 >.' J4.11.8 .7 ; % ' 6 56< .< ?.16 67.<7 ?'6 / , <6 " '<,< ; .1 5.416 ?1 ?'1'7 E6I 76 E@.<' / / .' ?,=4.'>.' " J4.11.' '?1.6 5.6 / , 66,<6I 56 ?'15.<7 > 4< ; ,1>,< =4 6.' E,1 / .8 .7 >,<7 5.' ; .<71.'>, 7 71.' " ,1 / 6I 76

7.<>.<7 ; .' ; ,1>,< 46=4 " K 5.' .7 >.'5" 56 5.'E,<7 '1 % 1 -.1 .< '-, .8 .7 ?40 56 .<E,1 / .<7 4< '471.'>4 ; ,7 ' >.6 V1 < .6 I ; .'< .65 ?'6 7,478 4< ; ,1?6 6.'71,4-.1 % >4 ; ,7.'>.' 1.-.68 .5 6 '??4 .1" 641 4@. / 0,41J Q , .' ; , / / .< ; .' ; .' ; ,1>,< >.6 71,4?.6 '471 ; : .<<.6%

@ ' 0 ' ' G 3 'C '

% % % % ,46 6, / / .6 ; '7,46 0,<7.4@ >.'<,46 1.' 5' 66 ' 71' 5.1 6 '>41. / .<7 ?,41 =< ; : '1 - '1 '%' 5" ?,17.'> 4< 1.E4J 'E1'< ; ' 6% < 6 .67 ; ,<>4 7 0 .< > E E 1. / 5 .<7" 41 <% 466 'Q467 ; .' ' 7 .55.' 7 '1.<>4.% .'- J / .<7 >.' '54; .8 =4.'<,46 '- ,<6 ; 8 .67 '55 ' " 41 < N ; .67 5" =4 ,< 54 ' " E' 7 6.<7 1 5.6 W?1, ; : 6 =4.'<,46 '- ,<6 " 54 ' E' 1 ' G 5 6 .74> '< 6 ,<7 -,45< ' ; ;4. 55Q1 " ; ,4?6 >.'? .11.6

!

P ' '

'2 + ' , ; : ' / 0.'4 $; , / / '4>'<7

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% ' 6.1'' ? <7' '' ; : '=4.' ; , < ? .' /' .7'7>.6 E1' 6' E ;.66' 1.6 ?,41'5.'>1.66.18 .7 5 6.1'' ?1,<,<;.'67 1';.7 7'7>.'E1' 6'.< / > <.'7. / ?6=4.6415 ' 1>7.> ; , / ?7.%

% .6 ?.16,<<.6 ; , / ?5'05.6=4 ' ,<7 >.6 1; ;.55.6 .7>.6>.?.<6.6 E @.6 ?,411,<7 1.4' 1'.<4<6.'5 ; , / ?7.' . ' .@.1; ;.6 >.' ?546 .416 '<<..6 ' .7 ?,17.1' .< 4< < > / .' '17 ;5.'5'' 6, / / .' > 4<.' / > / .' ;E;.77.' ,4 > 4< / > / .'?' . / .<7=4 ' ''.4'5 .4 ?.<>'<7 5.6 '<46.6=4 . / ' 01'66.5.' ; , / ?7.%

% ' <.' 6.1''1 .< <<,->' ''5'' E,1 / .'>.6; , / ?7.6 >>Q'' ?1.6;<7.6%

' * ' B ' ' # %

% ,4J < >.' ,=4.E,17 5 7 4<.''>>.66.' >4 > 1.; ' 7, 1.'>4 >.?'17. / . 7 >4 # '1>8 ; ,<7.<'<7 >.4@ ?1, ' ;.6 -.10'4@ d=4 ' ; ,<67'7.<7 ?1. / .1. / . 7 5.6 1.E46 E' 76 ?'1' % ! 5'<>.-.6.8 ; , / / '<>'<7 >.'5'' / '1 <.'>.' ,45,<8 ; : .-'5 .1'>.' '57.8 >.'?1>7.1'5.'6.1 / .<7 / ' 5 7? 1.8 6,46 ?1.7.@7.'=4 .5'<7 ; : .-'5 .1'>.' '55.' 5 <.' ?,4-' 7 Q41.1'>.' / ' <7.< 1' 4<.' ; ,<67 747 ,<=4 ' '77'=4.'5.'6? 1 74.5'>.'5''1.5 J ,<I 6.; ,<>. / .<7 5.'1.M E 76 E' 5 ?'1' % 40,6;.58 ,1>,<<'7.41'>.'5'' / '1 <.8 5.'Q,41'>.'5'' E4 7.'>4 1, 8 >.'?'V.1'5.'6'5' 1.>.6 ,4 ' -1 .16 / ,<7'<5'') 8 '5 -%8 6,46 ?1.7.@7.'=4 5 < ' ' -' 7=4.' 8 '5 V >'<66'' ;' 66.8 7'<> 6=4.'5.'> 1.; ' 7, 1.'' -.1 5 >'V' -, 1'4<.'6, / / .' ; ,<6 >.1'05.G

41'5'' ?1,?,6 7 ,<>.' 8 K,4; : .8 66. / 05..' ,1 ' >,<<.'5''>.67 747 ,<>.' % ! 5'<>.-.6.'.7 1'11.67'7 ,< >.' % 40,6;.5%

41'5'' ?1,?,6 7 ,<>.' % K,47 >,4@8 .55.' ,1>,<<.' =4.' 5.' 1'=7?,17 1. 7 E' '' ,1>1.'>.' '77.' 6.1'' E' 7 6,46=4 <0' <.%

% K4 / 8 '< <, / '>4 #, / 7;'>.' ; ,<67 74M 7 ,< N .6 >>;1.76 '<5>1 .416 ,<7 >.7.1 / <.'5.6 0,1<.6 .7 .@.1; ;.'>.6 > -.16.6 E,<.7 ,<6 ?7 05 =4.68 .7.0 05' 5.6 ?1 <; ?.6 >.' ?,5 ; .' ; ,<67 747 ,<<.55.' >.67 <.6 '' / ' <7.< 1' ; .7,1>1.I'5.'>.;1.764 ' <67 745 ,<>.6 Q4 ' 1.6 '' ?'1. 55. / .<7 .7 05' 4<.' ?,5 ; .'>.'641.7>' =4 ' '' ?,41' ,0Q.7 >.'6 '6641.1'>.'5'' ?.16,<<.'>.'7,<6 ;.4@ =4 '6.1' .<7 ?1>-.<<6 >.';1 / .6 ,4 >.5 56 >.'<'741.' '' ; , / ?1, <.571.'5''6 1.7.'?405 =4.% ' -,46 1.67.' ''5 @.1' 5.6 1.J .68 ?1. / >1. / .<7 >.'5'' ?,5 ; .' / 4< ; ?'5.'=4' '' ?, 1' ,0Q.7 5.' / ' / 7 .< :'0 74.5'>.' ,1>1.' .7 >.'5'' 71'<=4 55 7.'>'<6 ; :'=4.'5 .4I >.'5''?,5 ; .' ; ,11.;7 ,< ' <.55.' =4 ' '' ?,41' ,0Q.7 5'' 1.?1.66 ,< >.6 >.5 76=4 8 6'<6 / >1 7.1'?. <.' 'EE5 ;7 -.' ,4 <E' / '<7.8 71,405;<7 5'' 6,# .7>' .7 > 6?,6.<7 ' '' ;1 / .% .6 >.076 ; : ' / ?>' 71;6 <,46 ,<7 ?'14' '??'17.< 1'' 5''?,5 ; .' / 4< ; ?'5.I / ' 6 <, 6 ' -,<6 '0'<>,<4.' ; .' 71'-' 5 '4@ ; , <7.6 > 'J1 ;45741.%.7 >.' ; , / / .1;.% % B .417'457 ' <.1 8 - 55.' -,46 .< E.1'' 5.' 1'??,17% ,46 ?1,?,6,<6 >'<6 <,71;'?1. / .1'?'1'J1'?<.'=4 5 6> 7 E' 7 >'<6 #:'=4.' - 55=4<1.;.<6. / .<7 >.6 :'0 7'<768 .5 =4.' ;Q '= .' : , / / .'6, 5 7.<4 >.'>.;5'1.1'6.6<, / 68 J.8 5 .4 >.' <' 66'<;;8 >.1< .1'>, / ; 5.8 ?1,E.66 ,<8 / .7 .18 .7;% $#.77.' > 6?,6 7 ,< 47 5.' '4@ / ;.416 .7 '4 0,< ,1>1.' J. <.1'5 >4 1,V'4 / .8 .7 =4 '7;<>1'' '' >.7< 1.'5.'-'M J'0,<>'J.'.7 5'' / .<> ; 7.8 ?,411'' / > / .8 6'1 66. / ' 05.;'5.'>#6 1.8 6 '??5 =<.1''4@ ;' / ?'J<.6%

% .6 / .44 .;6 5 75.'?1. / .1'?'1'J1'?:.%

% #4 K 'N .'< ''?'6 . 7 5.'7. / ?6>.' / > 7.1' ;.'71'V' E8=4 '<.'<,46 '' .7# > 671 046 =4 : .1I / '6 Q '?.%1 , 6=4.'>'<6 4< ?'V6 <,4-.55. / .47 5 01.' ,< ;0.1;0.% ' ;47,41.1'5.6 ; 7,V.<6 > 4<.'E,45.'>.'J><. % ;'-, 6=4 ,< .<-.11'' 4< ,E5 ; .1'>.'?,5 ; .' >. / '<>.1' '< 5 ; 7,V;< =4 ' -.<7 / .<.1'5 <.' - .' ,??,06;41.'5.'>.M 7' 5 =4 5 '<1' 5 <7.1>7 ''7' 1;I Q;' / ,??,6.'2'7,47.' < ' =4 6 5 ,<>.' ;.77.' .6?>..%

% K K< ' I . .67 ;'5.' / , / .<7 >.' ; , / ?5>' 7.1'4<.' > %6?,6 7 ,< >.' -,71.' ; ,>.'?#<'5% ,46 '-.0 '0,0'5''?. <.'>.'5'' / '1=4.8 -,46 '-.0-,45 '=4''<;4<.' 55>71 6641.' <>>5#0 5.'< ,7>7 ''4< ; ,4?'05.' 5<7>1>7 >.' 1.7,41<.1'%' 5'' - .174 I 5.'6.45 / ,V.<=4 ' -,46 1.67.'>.' 1.;,<<' 51;'5.6 / '5-;16'7;4168 . .67 >;' ;41,7;1'5'

'?,66 / 4.'>.'6,4671' 1.''4;4<.'?'17 .'>.'5.41'- ..'5' - J 5'<;.'>.6 / 'J 671'76 N / ' 6 5.6 11J 671.6=4.'-,46 E.1 .0 7.< 1'>'<6 5.6 - 0.6 <.' ?1,> 1' .<7 ?'6 .E.7 =4.'-,46 .<'55.<>;08 6.1' .<7 / > / . 5546, 1.6?,41' 64 -1.'5''71'; .'> 4< : , / / .' 646?.;78 6' ; .77.'>6?,6 M 7 ,<< >7' 7 J><.1'5.'?,41'7,46 5.6 ?, <76 >4 1,V'4 / .% .'>. / '<>.'>,<.'=4.' ; .77.' > 6?,6 7 ,< 6, 5 .7.<>4.' '4@ ;' / ?'J<.6%

66. / 05..'>.; >.'=4 .5.'?'1'J1'?:.'?1. .<7.?'1' % .6 / .4< .16 6.1'' '??5 ;'05.''4@ / 4< ; ?'5 7.6 >.' ;' / ?'J<.8 .7 .<>.;1.7.' 64; ;.66 -. / .<5 5.6 '15' ;5.6 .? ; .6 7.1 / .6 N

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-+*" (" +$' *" -(" 3$, 8(*'/''(. *,' 3 *-+ *(" 4+.' ('
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&' ' +' **$3$4+ $,(/' ' $,' 4+.'0 $(' - +- $*$',.+,$ *'/'
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8 ' ' ' ')

' % 8'* ! 3*'

'W " %E;.>'>0' Q<>7><7E,1 0. N>.6 60;177 ' _>' <0.'
6.7,< 7.<<6' >0';< 8' 'Q7. <E.'>.' U ' 5 -1;6 > ' / <>. '>,'
E' 1.'?1.'5'05. / .<7' '<' J1.EE.'>.'5'' / << ;'?' 5.'5 '>.; '.%'
5 ,<' 6'5 .<@' .7Q,< 6'>,'5.<7' 1.<< 0< .7 .1E.'V > '1..'
$>-,8' 566.1,<5E; <>' /<.6 9 d -l'> '7<.<>..

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:' (*2' 5*$'( )+..+''(. *,' *' -(9.+-(. *,' (" 0 $("4*!'
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:' B' (*2'5*$/'4+.' $ 4. -(*3(' *' 4+.' +' .+4$-$,('-('
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PlI' $0 /'(,'5*$'*('4 *..+'(,.('+*!-('' *"-('BX $0' $'8'+'
('#.+3, .('-(' ( ).('/' *' '$/' - +4.(" (" 3(.,$#$3+,"-("
9(*" -(' +.,/'+') (" .('(',((/'5*($('*('4 $''('('9 ($.'
(*' " -('5*$*U(' .'/' (" -($*5 +*,"'(. *,'.(*0 8 "
+' +'4 $3('3 ..(3,$ **((+

<' >.' % 5.6' 6.;1>7' 1.6' E' 7' 5.;741.' >4<.'5.771.'
;<-,V..'?'1'5.6' ;,1' / 66' 1.6' >.'1 66./05>.'>'<6'5"
; >.-'<7'?1,-<;.'> 56';.%

1 &) 3 (8+ ,466,/< .6' '11 ->6>'<6;.'
>>?'17./.<7'5.'C(8'>4' / , 6'>.1< 18'.7'<,46'<,46'6,/ '
/ .6' '466 5 7 .<71.7.<46' '-.;'5.6' ,EE ; .16 J.<>1'4@8'
4 .'3 *3(.,(.' (",*(' .("1.5'7 -.6' '4' 6.1/ .<7'>.

'1/ ..' N=4.5=4.6 4<6' <,46' ,<7' ?'14' ?.<>6?,6.6'
"5.'?1l7.18' .7' <,46' ,<7' '77.65.'=4.'5.6' ,E5 ; .16=4'
>7' .<7'6,46' ;416,1>1.6?'17'J;' .<75.411.? J<'<;.l'
<,46'-,<6' ;, /0'774'5.41'.11.418'.<'5.61' / ;<'<7'4@'
?1<; ?.6l' 56' ,<7'.7>'>01'<>6'?'1' 6'1' 6,<68'.7'<,46'
,<7'>. / '<> '4<'>.5''>.' - <J7 =4'71.' :;41.6l'5.416'
>6?,6 7 ,<6' ,<7'7,7'5. / .<7' ;:'<J.8' .7' " .@;.?7 ,<'
>4<'?.7 7' <, /01.'=4'>7' 7'?'17''V'<7' <,71.''1<-..8'
56' ,<7'7,<6'?1 7>'6.1/ .<7l' 56' <,46' ,47' />1,.'1.;, / '
/ '<>.'>.'?1.<>1.'7,47.6'5.6' ?1.;'47 ,<6'?,41= ,1'
<.'?>7' ?'6'6,4??,<<.1'=<.'5.41'5 0.17.''-' 5' .7.' J>'
<..l' '<6'5.6,E5 ; .16.7'5.6'6,5>'76'6,<7>'<6'5.6' / . 5'
5.41.6'>6?,6 7 ,<68' . >'<7'7,47'<,71.' -,V'J.8'Q ,46'
<'-,<6'1. / ' =4>'>'<6' ??.,?5.'=4 4<' '77';:.< .<'
6<;.1.' "5'8%#,<67 747 9?8' 8.7'5" E.1<.' 1>6,: 7 ,<'>.'
- - .'5 01='>4% / ,41 1%' " 1.6' J1'<>.' / 'Q,1 7.'>'5"
- 55.'>.' 71'60,41J .67'0,<<.l'5" /4< ; ?'5 7>' .7'5.6'
;,1?6'>/ < 671'7 E6'6.<7'.@;.55 76l'5"J'1>.'<'7 ,<'5.'
.67'0 .<' .@.1;. .8' .55.'>. / '<>.' '-.;' <67'<;.'"?1>5.1'
6,<' 6.1/ .<7l' <,46'5.'1.;.-1,<6' >. / ' < N ;.?.<>'<5'
5.6'?1>51.6' .7'5.6' / , <.6'E,<7' 7,<6'5.416' .EE,176' ?, /'
.J'1.1'5.'?.,?5.'>'<6' 5.6' >.?'17./.<76' >4' B'45'.5'
>4' KV6 K: / %' E6' ;,1?6' '> / < 67 l'7 E6' .<' ;,<J, -.<5'
>.6' <=4 .74>.6' .7'<,46'55,<6' '-, 1' '-.;'.4@'";'64'
Q.7' >.6' ;,<E.1.<;.6' >>E< 7 -.6% ,46' <.'>.-,<6' ?'N'
>66 / 45.1' " 66./05..'=4.'5.6'; 7,V.<6' ,<7'>7 ' 4?'
?1 6'>.' -, 1'=4.5=4.6' ,E5 ;Q.1688'=4' >7' .<7,4-.17.'
/ .<5'>.;5'1.6' ;,<51.'5" 1.-,547 ,<8'?1.7.1'5.41'6.1M
/ .<7l'<,46'<.'?, -,<6'?'6'6,4?3,<<.1'>.6'H1'<;.' 6'
>4<.'?'1. 55.'?.1E>.% ' %

% 'N ,<66, / / .6' ;''<'<, /01.'>.'71, 6'
;.<76'>,<7'Q.' / .'E' 60,<<.41%%%%%%%'& "?'17 .'J'4;5.
>%. / '4>.'" J1'<>6';1 6' ,1>1.'>4'Q,41%P' ;'> 6%% 8'

66./05..';,<6457.>'?'66.'" ,1>1.'>4'Q,41%

% 'N # .6785">.;5'1'7 ,<%%8 %W'

B' % 5E.(P 1> >> 7' E.->5",6>'<7.' ' ' ;.41.6% , ' %Y7
<G' % d\ R F ' S ' 8' 7S 55 8' ' %Y7

E7 ERQ>E 57)2G! ! !9))
' * !E))9 2 ( ) *)') ** '

$G) !) ' F ' R ' Ff h
U Q ff % ' <E G R5 7 5 'Y ' l8 &

G 34.5 7E.6''0 6' 0 E'7E. E'> : 5d>5^ <>7>7Q ;6'
E5>/ '<.6'<'7 ,<' @l'>.6'>,<7D >5.->57 6 55 ;<6'
>.'? 46 .416' ;5>;1.768'641'5"1, <E.10'>>'1E.6><7.1> U%
' 34'71.',0Q.76'?1<; ?'4@'><7 EE@GU1 57E<7 ??' ' S 6'
6. / 05>8.<'7 ,<'5.'N ' % l8 8R 8

.6' <6,5-'05.68'5.6'.5.;7 ,<6'U >4 8?4'<,< <'7.7 6'
>.;, / / '<>6l8l' 8\ Q8 E4<5<% ;0
.6' .<;:E.1;6'?'17 .55.6' .<' ;,<;4K1.<..'-.,>.6'<1'
;:.@.6'6415''7,7'5 5>> ,0Q.76';, / ?,6'<7 >.65,76>'>'
Q4> ;'7 ,<l' %% ' % ' <'% 8' ' 8' ' 8G

.6' -.<7.6' ,40'4@' " - ,' 7E' 6'5 >.6'7 745' 5 .6'?'1'
5.416';:'?71.6l' 'F 'F < ' ' F' d $\ ' $

"?.1;.?7 ,<',4'5.'?>17'J.'>.6'E74 7 '>.6'>, / ' .6'
<'7 ,<'4@' -.<>46' '4@' / 4< ; ?'5 7.6' .7' '4@' ?'17 ;4'
5 .16%' ' F

66./05>.' <'7 >< '5;' < :>6 5.'?, <7' " 5.'?.<6.18'
5.6' #,1?6' '>/ < 671'7 E6' '>,?7.1,<7'7,<6'>.6' ?1,;.>>6'
4< E,</ .6' .7' 1.J45 .168' 2 ' =4 56' <.' ;,<6.1-.1,<7'
'4;4<';5,47.'641'5.'-,.4'>.'5''5, l'5.6' '046'.4@ /E / .6'
>6?'1'571,<7' '466 7>7'=4.'5.41'6,41;.' ;5' 5.6' E4<.67.6'
;,<6.=4.<;.6'=4 56'?.4-.<7.<71'7,.1'6.1,<7' ;,<? .6%
.5' .67'5.'047' .57.5'6.1'8'6'<6'>,47.8' .EE.7>.' <6'
714;7 ,<' ,<.' 66./05>.'<'7 ,<'5.';1, 7'>.-, 1' '>1.6G'
6.1'4"'> <.1.<76> 671 ;76.7>>?'17./.<76><1,V'< / .8'
' D .6' :, / / ;6> 4<. <6,5-'0 5 7.<,7, 1.6.?1>6.<'
7.<7' @'>Q4> ;'7 ,<6'>.6'>, / '<.6<'7 ,<'4@%>5E.-.<'
5.416' ,EE1.6' " >.6' ?E @' :,16'>.'7,47.'?1,?,17 ,<' '1."
5" -1' .'-'5.41'>.6' ,0Q.76' <4 56' .<;:.1 66.<78'.7';,<'
5 ';7. 7'>.6' ,05 J'7 ,<6'=4 566,<7'>'<6' / ?,66 0 5 7>'
>.1. / ?5 1%' %' 8

.%6' :, / / .%_7 6.' E5'77.<7' , '> <7.11, / ?73' 5.' ;, <6

6, %7G?46' '<.1 / .6I' '4'?1. / .1' ; '68 . '=4.5=4.'E' O5.' =4.'6, 5'5''=4'<7 7V'>.6'0 .<6' ; , / ?1 6.<'4<'6.45 0' 58 6'>, -.<7 ; , / ?,6.1'4<'5,7 > .-'54'7 ,<8 .7 E,1 / .1' 4<.'6.45.''>Q4> ;'7 ,<%

'5'' / ,> ; 7>'>.6' ,0Q.76'>.7.1 / <.'4<'> 1.;7, 1.'>.' > 671 ;7 '' .<'1> < 1'?546 .416'>'<6'4<' / l / .'5,7 > >' -'54'7 ,<I'' 66 7 7=4 44'.<; :>1 66.41'1.;5' / .'; .<71.' 5''1. <, 8 .7 1.= 4.17 =4.'5.6' 0 .<6' ., / ?1 6'.<'4<' '0' 5'6, .<7 / 6'6>?'1. / .<7 .<'1.<7.8'5.'> 1.;7, 1.' >.'> 671 ;7>, 7 '' <67'<7V'>.E.1.1%

,16=4.'5.6'0 .<6'<.'6,<7 ?, <7 '5E.1 / >68'6'5.'>, ' / ' 4.'<'7 ,<'5' .67 .@?5, 7.' ?'1'4<' 1'<>'<, / O1.'>.' ?'17 ;45 .16'> 5a1.<768 ; :'=4.' .@?5, 7'7 ,<8 =4.5=4.' E' O5.'=4 .5 .6, 78'>, 7 .J'5. / .<7 E,1 / .1'4<'6.45 .7 / / .'5,7 > .67 / '7 ,<' .7 > '>Q4> ;'7 ,<%

'6'6'5.' / / .' ;457 -'7.41' .@?5, 7.'4<'>, / ' <.' ?546' ; ,<6 >.1'O5.8 4<.' E.1 / .8 4<.' / >7' 1 .' > 4<.' J1'<>.' .7.<>4.8'5''10J5..67 .<; ,1.'5'' / / .l'5''E.1 / .' ,4 / .7' 1 .'>.'=4.5=4.'>7.<>4.=4 .55.6, 78'>, 7.<; ,1.' E,1 / .1'4<'6.45 .7 / / .'5,7 > .67 / '7 ,<' .7 > '>Q4> ' ;'7 ,<%

.6'> - 6 ,<6'<.'?,4-' .<7 X71.'?,17..6' '' <E < 8 5 >7' 7 4<'%?, <7 , 5' 5' E'55' 7 <.;.66' 1. / .<7 6 '11X7.1l' <7.1 7>.'5''<'7 ,<' .47>7>'>- >. / / .<7 ; , / ?1, / 6'6' ,<' .E77 ,1>,<<# ,4'?.1 / 6' '4' ; ,1?6''> / < 671'7 E'>.' >.; , / ?,6.18 ''7,47.' 1.=4 6 7 ,<8 4<.' / .7' 1 .'?,41' .<'E,1 / .1' 4<' ?546' ,4' <, <6' J1'<>'<, / O1.' >.'5,76' ?'17 ;45 .16I'5.6'?,17 ,<6'?1>; .46.6'.466.<7 .7.' .?546' ,1> <' 1. / .<7 5.6'?546'1.;0.1; : ..68'5.66. 5.6'>.1''<' >. .6I' 7,<7.6' ; .55.6' > 4<.' 1'5.41' / ,> =4.' < .466.<7 ?1.6=4.'Q' / ' 6'71,41.'> ';=4. 1.416%

66. / O5..'<'7 ,<'5.''.<; , 1. / .<'J.''4@'.<; :>' 1 66.4168 .7 6417,47 '' ; .4@'>.6; ' / ?'J<.68'5.' / ,V.<' > ,07;< 1' .<' ; .' ;'6'4<.'?546' J1'<>.' > - 6 ,<'>.6'>, ' / ' <.6'<'7 ?<'4@%

'1' '17 ;5.' '>.'5''5, '>4' C ' Q 55.78 66. / O5>.' <'7 ,<'5.'1.; , / / '<>.''4@' ; ,1?6''> / < 671'7 E6'>.'> ' 1 6.1''47'<7 =4.'5'' <'741.'>.6' ,0Q.76'?.475.'?.1 / .771.%

'1' '17 ;5.' '>4'7 51.' '>.'5''5, '>4' (/ ' 8 .55.' -.47 =4.'$5.6'.<; :01.6'6, .<7 .<' / > / .'7. / ?6' ,4-.15.6' 647 .46. / O5.' .7 641'5.6'?'17 .6' > 4<' ,0Q.7 ; , / ?1 6' .<'4<.'6.775.' .7 / > / .''>Q4> ;'7 ,<8 .7 =4.8'>'<6'5.' ;'6' , 58 '4' / , / . 7>.'1'>Q4> ;'7 ,<'>.5 71.8'5''6, / / .' >.6' .<; : .1.6' ?'17 .55.6' 6.' 71,4-.' >J'5.' '' .<; : .1.' / 6.'641'5.'7,478'5.6'OE.<6'6, .<7 >.'?1.E.1.<; .''>Q4J.6' > - 6> / .<78Y

.'->1 7'O5.'6.<6' >.' ; .6' >.4@' > 6?,6 7 ,<6' .67 ?'1' E' 7. / .<7 6' 6'?'1'5.6' ; ,1?6''> / < 671'7 E6'=4 ',47 6, <' >.'5.6'1'??1, .0.1'>.' '17 ;5.' '' '>.'5''5, '><')'<, ' -. / O1.'64 -'<7I' / ' 6' ; .4@'=4 '?.1>.<7 >.'14.' ; .57.' >.1< .1.'> 6?,6 7 ,<'>,?7.<7> .1.<76'?1, ; . >;6'>J'' 5. / .<7 11.J45 .168 .7 > ,4'<' 66.<7 >.'<,4-.'4@''O46' '466 'E5; : .4@'=4.' ; .4@'1.6457'<76'>.6' / '<; .4-1.6'>.6' <6,5-'O5.68 >.6' .5.;7 ,<6' > ' < 6' ,<'<, / <'7 ,<6'>.' ; , / / '<>6%

<' .EE.7 4<'> 1.;7, 1.'>.8 > 671 ;7 6.' ; ,<E,1 / '<7 '' 5''> 6?,6 7 ,<'>.' '17 ;5.' ''5 '>.'5''5, '>4')'<, -. / ' O1.8'E' 7 4<'6.45'5,7 > .67 / '7 ,<'>.6' 0 .<6' ; , / ?,6' :7 4<.'E.1 / .8'4<.' / .7' 1 .8 > 4<.' .7.<>4.''66.O ; ,<6 >.M 1'O5.l' 5'6.'?1.6.<7.'>.6' ; 7,V.<6'=4 '-.45.<7 ;<; : .1 1' 641'5.'7,478'> '471.6=4 '>. / '<>.<7 '' .<; : .1 1641'5.6' ?'17 .6I'5.6'4<6' .7 5.6''471.6'V6,<7 '47,1 6 6'?'1'5''5, %

.6' .<; : .1 6 .41 '?'1E .568'?,17'<75.41 ,EE1.]'''4<.' 6, / / .'>J'5.' ' .<; : .1.' / 6.'641'5''7,7'5 7.8'>. / '<' >.<7 .<'; ,<6.=4.<; .'=4.' ; : ' ;4<.'>.6'?'17 .6'=4 56', <7 . ; : .1 .6'5.41'6, 5'> - 6. / .<7 '>Q4J>.%

B.'> 1.;7, 1.'>4'> 671 ;7 >. E>1' 7 ?41. / .<7 .7 / ' ?5. / . 7 '5.416'>. / '<>.68'6' ; : ' ;4<'> .4@' ,07.<' 7 4<.''>Q4> ;'7 ,<'6>?'1; .8'4<'5 71.'?'17 ;45 .18 .7 7,47 ''E' 7 >.?.<>' 7 >.' ; .54'>.6''471.68'?,41'5.'?1 @' >.7.1 / <.'?'1'5''1>?'17 7 ,<'E' 7.'.<71.'.4@'>.' ; .54'>.' '>Q4> ;'7 ,<8'5.6' .<.O>1 66.416'?'17 .56'6,4-.<7 .7

?1.6=4.' ! ') ' ' ''41' .<7 / ' / ,V.<' <E' 55 O5.' ?,41' >='17.1'7,<6' .<; :>1 66.416' 641'5'' 7,7'5 7>% '5.41' 64EE 1' 7 >.' <.' 771.''4;4<.' ?1,?,17 ,<'>'<6'5''1>?'17 7 <'= 56'E.1' .<7 .<71.' .4@' >.6' ,0Q.76'>7 >4'?1 @'>.' '>Q4> ;'7 ,<8 > '66 J<.1' '4@' 4<6'>.6'0 .<6' > 4<.' J1'<>.' -'5.<1'?,41'>.6' ?1 @'71.6' / ,> =4.6I' '> '471.6'&'4@' <6,5-'O5.68'?'1'.@. / ?5.P8' >.6' ,0Q.76' 6'<6-'5.41' ?,41'>.6' ?1 @' .@;.66 -. / .<7 .@'J>1.6I'5'' <'7 ,<' ?.1>1' 7 5''6>1.7>' >.' 6,<' ?' . ' < .478'?4 6=4.'>'<6' ; .77.' :V?,7:>6.'5.6,0Q.76''66 J<.6' '4@'?1. / .16'6.1' .<7 6.456'64Q.76' '5''E,55.' .<; : .E.%

#.'?1, ; .>>'<.'?.47 ?'6' >71.' .7 < .67 1>.55. / .<7 ?'6' ; .54 ' '47,1 6>'?'1'5''5, % '-'47'J.'' ; ; ,1>>''4@' .<M ; :>1 66.416'?'17 .56< .67 ?'6'5.>1, 7 > 'O46.1>.6'0 .<' E' 56'>.'5''<'7 ,<8' / ' 6' 6.45. / . 7 ; .54'%> ,O7.< 1'5'' ?1.E.1.<; .'641'5.6'.<; :>1 66.416'?,41'5''7,7'5 7>8' / ' 6' ''>J'5 7>?'1E' 7.8'>7?,41'5.' / ,<7'47>.6' ,5E1.6'.7?,41' 5''6>1.7>'>4'?' . / .<7%

\' ''4' / , / .<7 >.'1'>Q4> ;'7 ,<'>>5 5 7 -.8'?,17.' 5'' 5, 8 5'' 6, / / .'>.6' .<; :>1.6'?'17 .55.6' .67 >J'5.' '' .<; : .@.' / 6.' 641'5'' / '66.8'5.6'0 .<6'6.1,<7 >.'?1.M E.1.<; .''>Q4J.6'> - 6. / .<7%Y

>J'5 7>'< .@ 67.1' 7 ?'6' 7 .55.'<'-' 7'5 .4'.7'?,41' 5.' / ,47'<7 >.6' , E1.68 .7'?,41'5''6>1.7>'>4'?' . / .<78 6'5''<'7 ,<'6.'71,4-' 7 <>;.66' 1. / .47.@?,6>.' '?.1>1.' & .' '17 .'>4'?1 @'>4'0 .<''>Q4J>%

'>J'5 7>'>.'?1 @8'4<'>, / ' <.' <'7 ,<'5'>, 7 >.'?1.M E.1.<; .'.71.''>Q4J>''4@' .<; :>1 66.416'=4 ' -.45.<7 E.' > - 6.1'. 1..4@I' / ' 6'7,<7.6'5.6E, 6'= ['4@'7.1< .6>.' 5''5, '>4')'<, -. / O1.'5.'>, / ' <.'<'7 ,<'5'>, 7 E,1 / .1' '<'6.<7 5,7 > >-'54'7 ,<' ,<'> .67 / '7 ,<8 ' 4> ;'7 ,<' .67 .<; ,1.'<.; .66' 1. / .<7 4<.8 <> - 6 O5.I'5.6'.<; : . ' 1 66.416'?'17 .56'< ,<7 .<6. / O5.' =4 4<'6.45 .7 ' 5 71.I'7,<7.6'5.6' ?'17 .6'>4' 0 .<' '>Q4J>'>. / .41.<7 5.' J'J.'6?>. '5'>.'5'' .1>'<; .'>.'5''<'7 ,<I'7,47.6' 1.65.<7 4Q.77.6' '' 5'' 1.-.<7.' '5'' E,55.' .<; :>1.8 '>>E'47 >.' ?' . / .47 > '4;4<.'>.6'?'17 .6'>4'?1 @'>.' '>Q4> ; ' ' 7 ,<%

8 'E'47. ,>'' '??5 =4.1' '4@' .<;O> / 6.7 16'?'17 .56' 7,<6'5.6'?1 <; ?.6'=4 ' ,<7 >7>'>7'O 6'1.5'7 -. / .<7 '4@' .5.;7 ,<6'> ' / 6,4'<, / <'7 ,<6'>.' ; , / / '<>68 .7 , .]7' ' <6'=4.'>, 7 >>6,1 / ' 6'>71.' .@>;47>' '17 ;5.' '>4' 5 71.' '>.'5''5, '>4' (/ ' ' (* % '5.6'> 1.;7, 1.6'>.' > 671 ;7 <.' ,1 7?'6' 7,46'Q46=4 ; ' .<7.<>4' >.' ; .77.' / '< >1.8 6'?546 .416' ,<7 ;14'>.-, 1''>Q4J.1'> - 6>' / .<7 7,47.6'5.6'E, 6'=4.' E'' 1.4< ,<'>.6' .<; : .1.6'6.' 71,4-' 78 >.'=4.5=4.' / '< >1.'=4.' ; .'E>78 >J'5.' '4@' .<; :>1. ' / 6.6'641'5''7,7'5 7>8 66. / O5..'<'7 ,<'5.' < .<7.<>'?'6''<>'<7 1'>.6' ; ,=O'76'641'5''E, '>.6=<.56' 5.6' ';=4>1.416' ,<7 71' 7>8 5'E'47 6.45. / .<7 ,O6.1-.1' '-.;'6, <'5.6''>Q4> ;'7 ,<6'=4 '6,<71>.55. / .<7> - 6>.6' >.' ; .55.6'=4 '<.'5.'6,<7 ?'6%

5'<V '' ?'6'>.' > - 6 ,<'5,16=4.'5'' > 67 <;7 ,<'>4' ?1 @' <6>1>.' >'<6' 4<' ?1, .>6 -.1O'5'> '>Q4> ;'7 ,<' <'.67 =4.'5.'1.6 57'7 > 4<.' 1.?'17 7 ,<' ' / O5. / .<7 E' 7.8 .7 7,<; .17>.' .<71.'5.6' ' 5E.1.<76.<; :>1 66.416' ?'17 .56I' / ' 6'5,16=4 .55.' '' >7>' >?'1> / .<7 / Q6.' .<' -.<7.'.7> 67 <;7. / .<7 '>Q4J>.8; : '=4.'' ;=4>1.41''5,16% ''6,<5 71.'?'15 ;45 .18 .7 6'' ?,17 ,<'< .65' :V?,7:>=4>.' =4 '4'?' . / .<7 >.'6.6' ,O5 J'7 ,<6'?.16,<<.55.6%

5' 6 .67 .<; ,1.' >5.->' >.6'>,47.6' 641' .@.;47 ,:' >.6' '17 ;5.6%'' '' 8 '' '' '' .7 '' '' ''>4'>>;1.7 >4' CU Q4 55.78'6'<;5 ,<<>'5.'CU ',E778 .7 641' ; .57.'>.' '17% '' 5' >.'5''5, '>4' '>.; . / O1.'64 -'<7%

D .'?546'J1'<>'<, / O1.'>.6'>>?'17. / .<76''?.?6>' =4.' '17 ;5.' '' '' ''>4'>.;1.7 >4'CUQ4 55.7 5.6' ,O5 J.' 7 ''E' 1.'?1, ; .>.1' ' '5 ><'7 ,<'>.6' / ' 6,<6' ;'<,< ' ' ;6'-.<>4.6' ,4'5,4>.6' ' - .'+'>.6'7 74E' 1.6'?'1'5. 16' .0'? 71.68 5,16=< ' .@ 67' 7 >.6'6,4 / 66 ,<6'?,41'5.6' ';=4.1 1%

#,<6457S '641' ; .'?, <78 6' ; , / 7>6' .; ;5>6 ' 7 =4.' .7> '5 ><'7 ,<'-' .<7 '466 '?.<6>> 'O,1>=4.'5.'7.@7.

5'5, 7'Q7 , / .58 .7 .?,4-' 7?' 71.'471/ ..<7
;<7.<>4%

46 .416>>?'17. / .B768?.?6 67'<7 >'<6 5W416 >,4
7.68 ,<7 1.?1 ` .<7. =4 56 '-' .<7 ?. <. " ;,<;.-, 1
=4. 1 66.< O5 . <'7 ,<'5.8 '?1.6 '-, 1 67'74.8 ?'1
1'17 ;5. " " >.5'5, >4 CU ' ,>78 =4.5.6 7 745' 1.6
=4 7.<' .<7 ?'1 -.<7. ,4 O' 5 ' - . >.6 / ' 6,<6 >.
5.416 ;:'? 71.6 .< Q,4 1' .<7 Q46=4 " 5.41 >.;.68 .<
;, / ?5>7'<7 5.?1 @>.5'-.<7. ,4 .< ?'V'<7 5.?1 @>4
O' 5 >'<6 5.6 7.1 / .6 ;,<-.<46Y .>7 1;.55. / .<7 .<7.<>4
,1>,< .18 ?'1 '17 ;5. " " " 8 =4. ;.6 / ' 6,<6 ?,41G
1' .<7 >71. '5 .<..6 6'<6 =4. '>Q4> ;'7' 1.EE57 7.<4
>.5 .<71.7 .4 >.5' -.<7. ,4 >4 O' 5 7 - . / ' 1 7.<46
?'1 '17 ;5. " " 8 .7 =4. 5' Q,4 66'<;.' ';;,1>.. '4
7 745' 1.8 ?'1;.>.1< .1 '17 ;5.8 ?.411' 7 >71. ;,<-.17 .
.< 4<.6 / ?5. <>. / < 7V%

6 'Q,47;<78 T =4.?546 .416 >. ;.6 7 745' 7.6 6,<5
'-'<;.6 .<>J.I

CD 34. 5' E @'7 ,< >.6 <>. / < 5E.6.1'4<. ,?.1'M
7 ,<> 55 ; 5. .7 ;,47.46.8 .7 =4.5.?' . / .<7 >. ;.6 <
>. / < 7.6 'O6,10.1'4<.?'17 .>4 ?1 @>.6 '5 .<'7 ,<6I
D 34. 5. ?1 <; ?'5 / ,7 E =4 '>.7.1/ <. 6
6. / O5..<'7 O<'5.' ,1>,<<.1 '5 .<'7 ,<>.6 / ' 6,<
%'??'17.<'47.6 ' 5' <'7 ,< ' .7.6'<6 >,47.5' ;,<6 >.M
1'7 ,< >.6 >.?.<6.6 > .<71.7 .< =4 1.O>.<7 >. 7.55.6
?1,?1 >7.6 71.6 ,<.1.46.6I G

UD 34.5'5, >4 C('-1 5 ,O- . ' ;.7 <;,<-.< .<78
?4 6=4 .55. >,<<. ' 5' <'7 ,< 5. / ,V.< >. -.<>1.8
>.6 ' ?1.6.<78 6'<6 ?.17.8 6.6 K4.6 ?1,?1 .7.68 .7 =4.
>.6 7'O5.6 >. ?1,?,17 ,< >.7.1/ <.<7 > 4<. / '< .1.
?1.; 6.5.6 6, </ .6 =4.5.6 6,4/ 66 ,<<' 1.6 >, -.<7
,EE1 1 ?,41 5. ?1 @>. ;.6 ';=4 6 7 ,<6%
H1'??. .>. ;.6 ;,<6 >.1'7 ,<68 6. / O5>. <'7 ,M
<'5.6 .67E' 7 1.?1. 6.<7.1 5.?1,;.6 -.1O'5 >.5'6.'<;.
>4 CQ4 55.7 (* %

<V5 7I

iE_ .1'??,17.41 >4 ;, / 7> .;;5.6 '67 =4. ' ?1,?,6.
> -.16 ' 7 ;5.6 '>> 7 ,<<.56I 5. ?1. / .1 .,<;.1<'<7
5.6 / ' 6,<6 ;'<,< '5.6 -.<>4.6 ,4 5,4..6 ' - . '4@
7 745' 1.6% ?1.6 >.4@ '17 ;5.6 <7.1/>> ' 1.6 5.1'?
P917.41 ' ?1,?,6. ..54 ; N .6 7 745' 1.6 >.6 O.4.
5 ;.6 64??1 / . 68 =4 Q467 5 .1,<7 .< '-, 1 O>7 ;<7 .
1. / .<7 ' <.4E8 5' / ' 6,< > :'O 7'7 ,< ' 5.416 E1' 68
Q,4 1,<7 ?.<>'<7 5.41 - .>.5'> 7. / ' 6,<%
Y < / . / O1. ' ?1,?,6.> 'Q,47.1 U 5' 7 <>. ;.7 '1M
7 ;5. N O A

Y . 1'??,17.41 '>,?7'<7 ' / .<>. / .<7 ' ?1,?,6>
>.5.Q, <>1. ' 1'17 ;5. 64 -'<78 .7 > .< E' 1. 4< '17 M
;5.6.?'1. .< ;.6 7.1/ .6N

.'</ , <68 5,16 >. '5 .<'7 ,< =4 6.1' E' 7.8 .<
-.174 >.6 >.;1.76 >. 66. / O5..<'7 ,<'5.8 >.6 1''
6,<6 >,<7 5'Q,4 66'<;. .67 5' 66..'4@ 7 745' 1.68 56 6.
1,<7 <>.1<< 6.6 >.5' -'5.41 >. 5'> 7. Q,4 66 ;.641
'- 6 >.6 '> / < 671'7 ,<6 >. >. ?'17. / .<7 .7 >. > 6M
71 ;7% $ <
& % P

&

55. ' >7> . / ?5,V.. .< ?'17 . '5'5. ;741. >.6 '>1.6
W;6% < 1'??,17 641 4<. ;,<7.67'7 ,< .5.->.8 ' ,;;'
6 ,< >. 1'> / < 671'7 , >.6 34 <O. <J768 .<51. 5.
71 O4<'5 >4 ?1. / .1 '11,4> 66. / .<7 >. QZ'1 6 .7 5.
> 1.;7, 1.>4 >.?'17. / .<78 ' .7. 1.<-,V. ' 4< <,4-.5
.@' / .< >4 ;, / 7. ;:'1J. >. ;.77. 'EE' 1.%

" %

G - ('4(3('/ .(*,.'(-+ ** (.+$.(/ +) *-+*!
3(-(' +,$(.(' -% . (,- +.9(*,/ 8(*'-(.(*-$(('+.,'

(, (((.3(# .$''+*,'/ + 4. (, -(#$*+*3((*3(.*+*,
+ **+$(/ 4.('(*,(''( ) ((*+,$ *+ (/ (, .($'+
' * 3 $,(-('#$*+*3('/+ $' -(+.'BHTI/ 4+. @ $6
(*3 +.,/ 4. #(''(*. - (3*,$ * #.+*3+$'(/ (, $'++*$,/ * =
9 3$+*,/ (,+ ,(. - ** 4. (, .(+,$#$ + +.$*(+.$'/
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& A (> -.17 66. / .<7 >.6 Y &L & 5 , 8 A
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V (3 -(' (# ' .,/

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8 (&' '9- '+' %H' [5 .<.1'< '' ?'6' .<M
;,1.' '>/ 6' '' >.?5,V.1'6,<' ;'1';7.1.'> .<-,V.' .@M
71'',1> <' 1.'>.' ' %K%
.'J.<.1'5'>.' ';: / '<7EEH8' .<'=4 '5.'?1 <;.' ,7. / M
<' / .7'5.'?546'>.';,<E '<;.'?,41' 'J 1';,471.'5.6 41;68'
-''?'17 1?,41' '1/ ..'641'5.' '<40.8' .7'5.6''471.6'&HA'
< 1'4@'?,41';.55.'>.' -,< .'6,<7'7,4Q,416' ; %%%%' <'
<'' ?, <7'>.' <,4-.55.6'>.'K4;:'1.67 >.?4 6' =4.'5.6'
;,<E.1.<;.6'>.' 65,-.'>, -.<7'6V1.?1.<>1.% .6'5.<'
7.416'6 '55,<J.<78'.7'5''?' @'6. / O5.'6 .5, J<.1' ''5''-. 55.'
?.47 .71.'> .71.'E' 5.%

,3 - ;

'+ '?'1'77';.17' <'=4.'5.'1, '?'66.1'' .<'1.M
-4.'5''J1'<>.'E5,77.8' .5'?1,0'O5. / .<7' '-'<7?.4I' / ' 6'
;.5''< ./?E.;:.'?'6'=4 ,<'<.'64 -.''-.;'0.'4;,<?'>';'
5 - 7.'7,<6'5.6'?1.?'1'7E6'<.;.66' 1.6'?,41'1.<>1.'<,6'
E,1;.6' / '1 7 / .6'?1,?1.6' ''471.';:,6.' =4 ''4<.'-' <.'
/ ,<71.84<.'?'1'>.'>.'?41.' ,67.<7'7 ,<' ,4'>.'?5' 6 1N
5''?1.66.'<.'6.'1'5.<7 7'.<'1 .<I' .55.'.67'?.47 .71.' / . /.'
?546'6.-.1.'=4.'Q' / ' 68'?4 6=4.'>.6'< '- .<<;<5'
> .<5.-.1' ' .=4 ?'J.6'>.6' <'- 1.6'>.'5'' ;, / ?'J< .'
>.6' <>.68' 7,47'E1' ;:. / .<7' '11 -.6'>'<6'5.6' 4<.68'
?,41'5.6'1>?'17 1'641'5'' E5,77.' =4 ' .<' ''5.'?546' J1'<>'
0.6, <% .6'>.4@'> - 6 ,<6'1.67.<7 ' ' ?7:.'>'
>'<6'5.' / . / .' .7'7% , >'5''5 67.'>.6'-' 66.'4@'=4 '5.6'
;, / ?,6.<7 N ,<'V' ''64 -' ,1>1.' =4 56'J'1>.1,<7'>'<6'
5''1.-4.'?1,Q.7 .8' ''5'=4.55.'5.'1, ' .7'6''E' / 55.'>, -.<7'
6.'1.<>1.'>4' 64?.10.' ;:'7.'4'>4' ;:.-'5 .1' ;:'1>'
,165.V8' J,4-;1<.41'>.' 5.'>.' J:78' =4 '5.41'?1.M
?'1.'>.6' '??'15. / .<76' ?,41'V'?'66.1'5.'1.67.'>.'5 .79%

' ' %

, A& ' '' & 'J)9 '5.' A'
'' ' N ';'<,<6' ;:';4<I'5.' $ '>.*)8'
/ ,<7.'?'1'5.';,<71. ' / 1'5' ! , [61I'5.' ! 'J@ #
& '>.'N/
G '(, ' , ! 'J' '>.(UI'
J' ' '*)8' / ,<79' ?'1'5.';,<71. ' / 1'5' ! , , '
>'55Q'5.' 3AG '5.'F 1 '>.'(U%
, A& ') '>.'(UI' , '
>.'9UI'5.' & '>.'(UI' - '>.'*)8'
/ ,1 >'?'1' 5.';,<71' ' / 1'5' # ,60VI'5.'G & '.7'
5.' : '>.'(U%

' ' K %

, A& ' .'F & !1 '>.'(UI'5.' '>.'
*)I'J '8 A: 3 '>.'*38' / ,<7.'?'1'5.' - . . '
' / 1'5' B ,70' / I' :G '5.' '.7'5.'
! '>.'(U%
G '('>.'(UI'5.' ! '>.'*)8'
/ ,<7.'?'1'5.' ;,<71. ' / E'5'H' [5 .<.1I' 7 ' , A'
'5.'G '>.'(UI'5'' '>.'E %
%, A& ' ' ' 'H/3J 'F & '
>.'(UI'J' A% & '>.'*)I' , & '5.'G A'
'.7J 'G '>.'(U';'<,<6';:';4<%
'<6' >,47.' 4<.' ?'1. 55.' E5,77.8' ';;, / ?'J<>.' >4'
<, / 01.'>.'E1.J'7.68'>.'65, ,?68'>.';477.16'.7'>.'01>5,76'
=4.' ,<';,474 / .'>V'Q, <>1.8' .67 -1' / .<7' / ?, '
6'<7.I';.?.<>'<7' ,<''6641.'=4.';.55.'>.' / ?>1'71 ;.'
>.' 466 .8'1U4< .' ''#1,<67'>78' 6,46'5.6' ,1>1.6'>.' ' '
< 1'5' a146.8'<.' .67 J4.1.' / , <6' N ,<'5''>7'>.' '
-' 66.'4@'>.'5 J<.8'>.' 9'E1.J'7.6' .7'>.'CU';477.16% 55.'
''>4' / .771.' ''5'' -, 5.' 5'V' '';<=6. / '<.6 ' ' <6' =4.'
5''E5,7 55.';, / / '<>?.'?'1'5.'?1 ?;.'>.' '66'4%
F' '+'< ''.

,<''6641.'=4.' / ?>1'71 ;.8' =4 ' ''1.;4'71.6'E1, '
>. / .<7' %H' [5 .<.18'4<.:4 7' <.'>.'Q,416' '?1.6'6,<'
'11 -..8' 6 ,067<.' '' J'1>.1' ;O' , [8' .7' =4 .55.' E' 7'
/ / .'>.'5'' ;.66 ,<'>.';.77.'?5';.'4<.' ;,<> 7 ,<' '
1 ' ' #.6'> 6?,6 7 ,<6' <=4 U7'<7.6'5.'>.- .<<.<7'
> '47'<7'?546'=4.'5.';,411Q.1'=4.' ,<''77.<>' 7'>.' 9'
7.160,41J8' .7' =4.' ,<'>6' 7' '' ;:'=4.' <67'<7' 641'5.'
?, <7'> '11 -.18'< '11 -.'.EE.;7 -. / .<7'?, <7%
.6';:,6.6' -,<7'>4'1.67.' '66.0'0 ;<% <6411.;7 ,<'
>.6<.J1.6' .677,7'5. / .<7''?' 6U.' '' ' <7 <;.<7I' / ' 6'
;, / / .' ,<'<.'5.6' '' ;'5 / .6' =4 .<'5.41' ;>>'<5' =4. =4.'
;:,6.8' 5'6.1' 7'?,66 05.'=4.8';,<<' 66'<7' .<E <'5.'6.;1.7'
>.'5.41'E,1;.8' 56'6.' / ,<71'66.<7' 4<.''471.' E, 6' ?546'
.@ J.'<76% +' .'?1 @'>.';.6' / '5:.41.46.6' - ;7 < .6'>.'
<,71.'54@.' .677.55. / .<7' :'466U'641'5.6';,7.6'> E1 =4.8'
=4.'?546 .416'<'V 1.6'<>J1 .16'6,<7'?'17 6' '' - >.'?,41'
5.6';,5?< .6%
546 .416' .771.6'>.' <>.''<<,<;.<7'>.6'64;; 68'6 '
<,<'>7. 6 E68'>4' / , <6'.<;,41'J.'<76I';.?.<>'<7' '1'
/ 9.'>.'5''#, / ?'J< .' ''5,<J7. / ?6' / '<=4.'>.' - <' .7'
/ U / .'>.'?' <'>'<6'5.'?'V6'>.' ! ,4<0.7,41% .6' ' '
1'77.6 . / ,<71.<7'0.'4;,4?'?546'E>.5.6'=4 ,<'< '-'R7'
,6.' .6?.1.18' .7'5.6'71,4?.6''<J5' 6.6'6,<7'?.47 .71.'>.Q''
>'<6'5.' V6,1.8';.'=4'>, 7'>,<<.1'>.' <=4 .54>.' ''
?,, ' O8'=4 ' ''?,<17'<7'1.?1 6' 5''?.7 7.' E,17.1.66.'
>.' 1.?'7,1.8'>'<6'5.'?'V6'>.'K'11' / '45%

' 3 %

5' .67 ?1,0'O5.' =4.' 4< ,<' ' / .1 ;' <.' ;, / ?7.1'' '
0 .<7,7' == <0.'U7'76' '4' 5 .4'>.'71. 0.I';.54'>.' .['
L ,1; ' ''?'66U'4<' ';7?' ?'1'5.=4.5' 5'1.;,<<'57'5 <>U'
?.<>'<;.' >4' > 671 ;7 >'' .1 / ,<78' =4 ' '' 'J1.J='
'4' ;,1?6' E7>.1'5 E'.<'=4'5 7.'>.'=4'7,10 / .' / . / 01.% %
7'7>.' 1J < .'1.<,<='<7'UJ'5. / .<7' ''6''64?1. / ' '
7 .'641'5.' .<74; .8' ;.'=4,' ;.77.'>.1< .1.'?1,-<;.'
'41''>.' / .4@' ''E' 1.'6'<6'>,47.' .1''>.'64 -1.' .@. / '
?5.'>4'> 671 ;7>.' .1 / ,<7'.<' ';;.>'<7'4 4<7,<'J '
<.1'5.8'=4 '6.45.'?.47'E' 1.'6''6>1.7.%

%

': ' ' R4 <% + 'EE' 1.'>.' 67, .''U7U'7.1 '
/ < .''5''6'7 6E';7 ,<'>.'5'' ;,41'>.' , / .% U-.=4.''
1.<,<;.' '' 6,< .-9;:.8' .7'5.'J1'<>'>4.'6 .67 . / ?1.66 '
> .<-,V.1' '4'?'?.' ;.77.'1.<,<; '7 ,<'8 .< V'Q, J<'47'
5 <.'5.751.'?5. <.'> .67 / .' .7'> 'EE.;7 ,<' ?,41'6'' 6' <'
7.7.I' 5' '' '466'>.E.<>4' ''7,46'5.6'Q,41<'5 67.6'>.'1 .<'
.;1 1.';.<71.'5.6' '.76?.; '5. / .<7';.<71.'5.'
?'<.%
.6>' / .6' >.'H1'<;.' - 6 7.<7'5.6' O'6 5 =4.6' .7'6,<7'
.<' ?1 .1#I' ;.5'' E' 7' ?'15.V' > 4<.' ;.<71. 1.-,547 ,<'
?1,;<' <.' .<'H1'<;.%
% ,4 6'>.' '10,<<.' .67'5.'6.45'H1'<;' 6' =4 ' ' 7'
;'5.' ;,41'J.'>.'?1,E.66.1'5.'?'71 ,7 6 / .N 5' < ' ?, <7'
.<;,1.' ,6.8'6.45';.<71.'7,468'?1.<>1.'5''F;,;'1>.' <' '
7 ,<'5.% #1' <7 5 .@;, / / 4< ;'7 ,<Z
'; ' ' - '+' .';:' ,<.' ,66' - .<7'>.'
64;;.>.1' '' % '< .-.1 <,8';,<E.66.41'>4'1, 8' .7' ,<'
'77.<>' , '?,41'64;;.>.1' '';.54'>.'5''1. <.8'
/ ,17' '466'>.?4 6' =4.5=4.'7. / ?6%
''1. <.';,<7 <4.''1.J<.1'6.45.8' .7' ''.5, J<.1'>.'5''
;,41' .7'>.'5'' ;'? 7'5.'5.6' ?.16,<<.6' =4 ' 54' E,<7' , / '
01'J.% .6'E. / / .6'< 0<5'?, <7' ''6.'5,4.1'>.'6,<'1 J<.%%

%

@ ' 0 ' ' '% 8' 'C)'
%%%%%% .'CU' '4'6, 1I' '4' / , / .<7'>.'5''E.1 / .741.'>.6
?,17.68' .67 '11 -U.' ;'5'' <,<-.55.'=4 .5.'1, >.6'H1'<M
;' 6' .7'5''E' / 55.'1,-'5.' 6 .7' .<7' .<E4 6'>.' '1 68' .7

=4 ,<'97' 7''5.41'?,4164 7.% # .67 4<.';:,6.'6 <J45 .1.'
=4.'5''E';5 7V '-.;'5'=4.55.' ,<' ''Q,47 'E,''4'?1. / .1'
1.; 7>.';.7 9-9<. / .1\7% 4]6 797 5.6 ,1>1.6 ,<7 7.'>,<M
<'6'>.'>,405.1'7,46 5.6 ?,67.6 .7 ?'1'5'' J'1< 6,<' .7 ?'1'
5'' J'1>.' 0,41J., 6.% '' ;,<67.1<'7 ,<' '' .7.' J.< 1'5.%
<'1.J'1>' 7 4<' ?'1.>' ';;>.<7 ;, / / .'71.6 ;:.4@'
?,41' ! .<.-'8 .'5.<>. / ' <'6' / .>'4<; ,4 / .1' .@?9'
>.'?'1'<,71.' 'J.<7 '' '1 6 .67 -.<4' <,46 '??1.<>1.'
=4.'5.6 E4J 7 E6 '-' .<7 .7.' '11.7.6 '' ' <7 0 ;1% & ,46
'-,<664'>.?4 6 =4.';.7' 7'' '1.<<.6%P#.77.'>.1< .1.'
<,4-.55.' ''1.?'<>4'5''Q, .8 / ' 6 < '' ?'6 0'<<' 7,47.'
;1' <7.% .6 5'' -. 5.' '4'6, 1'7,47 5.'?'V6 >.' ! .@' '-' 7
7 '641'? .>' .7 6,46 5.6 '1 / .6I' ,<'<.'5' 66' 7 ?546 6,17 1'
>.6 E1,<7 .1.6I' 7,47.' ;, / / 4< ;'7 ,<' '-' 7 .7.' <5.1'
;.?7>.8 ?1.;'47 ,<6 E`;0.46.6 ?,41'5.';, / / .1;.' .7 5.6
<.J,; '<768 =4 '6,<7 ,05 J.6 >.'?'66.1'?'1'5.' ';8 ' <6'
=4.'5.6 ;,411 .16 >.' 4 66.' .7 > 55. / 'J,.8 =4 '< '11 '
-.<7 =4.'?'1';.57.'-, %%%% .';,411 .1'>.'H1'<;.' '' .7.'
- 6 7.' ''5'' >.1< .1.'?,67.I' 5.6 5. 71.6 V ,<7 .7.' ,4-;1'
7.6I' 5.'<4 / .1' 1.' .7 5.6 '66 J<'76 V ,<7 7.'1.7.<46 641'
=4 77'<;.6% 'V '' .4' / . / .'=4.5=4;6'>>6,1>1.6 >'<6 5.6
/ '55.68 .6 'EE' 1.6 6,4EE1.<7 0.'4;,4?'>.';.6 <;,<'
-.< .<76I' 5 E'47 V 6,<J.1%

Q>16=4.'?546 .416 H1'< ' 6 1.6 >'<76 ;'6,<7 -.<46
1.?'<>1.8 > '?1.6 >.6 5.771.6 =4 56 -.<' .<7 >.'1.;.'
-, 18 =4.' 8 >.'K,4 5.' '-' 7 .<5.-.'5.'1, ' ''5'' J'1>.'
<'7 ,<' .8 ,<'<.'5.6 ''?'6 ;146% <' '' / .4@' ' / .'6 .<'
7.< 1' ''5''<,4-.55.'=4.'5.'1, '1.7,41<' 7 '' '1 68 .7 ,<'
< ''?'6 -,454'5.'-, 1' '' 7.<'V 641'5'' E1,<7 .1.%%%%% .M
?4 6 ;.77.' 'J 7'7 ,<' ,<' 1.?'1.' ;' 5.6 71'-'4@' >4' ;,5.'
>.'5'' H1'<;.' '-.;' - J4.41I' ,<' >1;66.' >.6 0'77.1 .6%
<'6 / 'J <.'=4 5 V ''5 .4'>.'6.' 7.< 1' 641' 6.6 J'1>.6%
.47 .71.';.5'' - .<7 5'>.' '-.<741.'>.'>.4@' ! .<.-, 6
>4' 1.J / .<7 >.'#:'7.'4 .4@8 =4 8 7'<7 '' ! .<.-.'
>.?4 6 =4 <0.'Q,4168 .7 V ?,17'<7 5'' #
', <7 979'E,1;.68 5''6. / ' <.'>.1< .1.8'>.'5''=4 7M
7.18 .<' .@.;47 0<' > 4<.' 5, ' ?,6 7 -.6 .' 0,<' > .48
?,41=4, ';.77.'5, Z ;'1';.'E' 7 '' ,;;'6 ,<<9'>4'-';'1 / .8
>.6 / 47 <6 6.'6,<7 Q, <76 '';.6 ! 9<; , '>.'#:'7.'4'
.4@% <' '';,<6. 55.' '';.6 >.1< .16 > '55.1'6.'?5' <>1.'
''5'' / 4< ; ?'5 7V'>.' ! .@% B .41.46. / ;<7 =4.'5.';:'1J.'
> 'EE' 1.6 >.'H1'<;.8 '?1.6 '-, 1'?1 6 >.6 <E,1 / '7 ,<6
'<?1.6 >4'.,<6. 58 ''>,<<.'7,47.'6'7 6E';7 ,<' ''5'' / 4M
<; ?'5 7V'>.' ! .@8 ' ,<' 6 .67 ;,<>4 7'-.;' <7.<7 ,<'
'?546 / '1=4V.'>.' -1.' .<'0,<6 -, 6 <6 '-.;'5.6 ! .M
<.-, 6%%%%% 7 6. / ' <.'>.1< .1.'5.';:'<J.'641' '1 6 '
-4.' % '>.' *UI' '4Q,41> :4 ' 5 .67 ''C %%%%% .6 '66
J<'5Q ?. @5' .<7 *' '' ' ?,41' I' 0' -,<7 ?.1>1.' 8
)' .7 C %Q G' ' '
''71'<=4 55 7V'1.J<.' ; % ,7 .'1, 5 7' 1.'5'4<'0.5 '6M
?.;7% .@.1; ;.'.7 5''> 6; ?5 <.'6,<7 '66.06'70E' 6'<76%
.'.,<6. 5' '' E' 7 4<' '11.7V'?,41'1.?,<>1.'Z' '>1.66.'
>.6 ; 5,V.<6% #.5'' / '1=4.'4<' ';;,1>':.41.77@' .<71.'5.'
/ 'J 671'7 .7 5''<'7 ,<% <' ''5.6 / . / .6 ?1 < ; ?.6N / ' <
7.< 1' ,1>1V' .7 1.6?.;7.1' 5'' 5, %%%%%' ,46 5.6 0,<6' ;
7,V.<6 E,<7 ;'>.6 -,.4@'?,41' ';:.-. / .<7>.'5'' ;,<6M
7 747 ,<'>.'H1'<;.I' / ' 6 =4 5 <,46 1.67.'> <=4 V74>.'
641%;.77.' E4 5.'?1V= ? ..' .7 ;5'<>.67 <.'>4'1, ' .7 >.'6''
E' / 55.8 .7 641' ;.'1.7,41'E,1;V5%%% .6 H1' / ' 6 1.67.'
1,<7 56 4< Z '1;:.1,<7 56 ''5'' ;,<67 747 ,<' 6'<6
6 . / 0'11'66.1' / . / .'>.6 E,<;7 ,<<' 1;6 ?405 ;6 =4Y'<.'
5'' ;,<;, -.<7 ?'6 .<;,1.Z #.77.';,<67 747 ,<'<.'?.47'
.55.'>41.18 / V / .' .<'64??,6'<7 =4.';.4@ 5'' K.'?< 66.<7
Q' / ' 6 6 V E' 1.Z .47 .71.'5''>.67 <..'>.' 41,?.'1.'
?,6. 7 .55.''4Q,41> :4'>'<6 5.6 <7.1V76'>.'5'H1'<;.8.7;%

H # 8 G

'8 ' +'H%< .@.;47 ,<'>.'5''5, '> ' *'<,-. / 01.'
(* 8 =4 ' ,1>,< .' 5'' -.<7.' >.6 .7'5,<6 '??'15.'
<'<56 '' 5''<'7 ,<8 5 6.1'8 6,46 <6?.;7 ,<' .7 641M
-. 55'<;.'>.' % >4'> 1.;7, 1.'>4' >.?'15.7<.<7 >.'
1<.8 ?1,;.>>8 5.'C ',E57 ?1, ;:' <8 ''5''-.<7,8 '4'
?546 ,EE1'<7 .7 >.1< .1' .<;:.1 66.418 >.6 V7'5,<68

?,45' <68 ?,<5 < .1.68 ?,45 ;:.6 .7;:.1'4@' '.'6.1M
- ;.' .@ 67'<76 >'<6 .7'05 66. / .<7 > BV. / 68 > 671 ;7
> 1J.<7'<% .7K 7 8

" " ' '

.6 ,1>,<<'<;.6 >.'?,5 ;.' .7 <,7'< / .<7;.55.6>.6
C ' '-1 5 (8 C ' 6.?5. / 01.' ()C8 >.E.<>.<7 '4'
;,<>4;7.416 >.';:'11.75.6 '' '1 6 >.'6.'7.< 16<1'5.476
;5 '11.77;68 >.'E' 1.'71,77.1'5.416 ;:.-'4@8 >.'5.6 E'1.'
;,<>4 1.'?'1 >.6 . E'<76 ' >.66, 6 >.'> @ : 7'<68
.7 1.<>.<78 ?,41'7,47.' .6?.;.'>.' -, 741.68 E';1.6 .7
'471.68 5.6 < ' 71.6 .<' 7,47 ; - 5. / .<7 1.6?,'6'05.6
>.6 ';; >.<76 ;'46.6 ?'1'5.6 ;,<>4;7.416 ''5.416 J'J.6%
#.6 ?1.;'47 ,<68 .<''??'1;<;.'< <47 .46.686,<7;. '
?.<>'<7 >.'5'' ?546 J1'<>.' / ?,17'<;.8 .7 5'' 641.7V8'
5''71'<=4 55 7V'>.'5'' -, .'?405 =4.'>.< '<>.<7=4.'5.6
/ 'J 671'56 .7 5.6 ,E5 ; .16 >.'?,5 ;.'5.6 E'66.<76.1<?''
5.46.1<.<7 .@.;47,1% # .67 ;,<E,1 / . / .<7 '' ;.6 ?-<'
; ?.6 =4 .8 641' 5.6 ;,<;546 ,<6 >.' % .6 / ,466;'4@8
'>Q, <7 >4' ?1,;41.41'>.'5'' ;, / / 4<.8 % '1;:.18
/ ' 71.'-, 7 1 .18 - .<7 > 71.';,<>' / <.' '' ' / .<>.'>.'
=4 <0.'5 1%'?,41'-, 1';,< .'5'' ;,<>4 5.'> 4<.'>.'6.6%
-, 741.6 '' 4<' .<E'<7 >.'=4'7,10.''468 =4 ' 6.'7.<'7
>'<6 5'' ;' 66.'>.'5'> 7.'-, 741;%

' ' " "

.<>1.>')' Q4 55.7 5 6.1'' :1 5 V' >' ') ' ' '
;' 66.'>.'1.@71',1> ' 1.8 14.' - .<<.8 ' '
X / 5 '<6 .<' '66 J<'76I' 1 ' ' ' '>.'
) ' / 55 ,<6 >.Q'' A\ ) 'E.1'' ' '))' / 55 ,<6%

'

% 5.6 ';7 ,<<< 1.6 >.' <' ;' 66.'> .6;, / ?7.'6,<7
'-.17 6 =4 .<' .@.;47 ,<' >4' 5.J5. / .<7 J.<.1'5 >4')'
6.?5. / 01.' () 8 '66. / 05..'J.4.1'5.'6.'7 .<>1'' / '1>'
C >4' ?1.6.<7 54, 6 '' ,<0.' :.41.68 .<' 6,<' : 7.5 14.'
- .<<.% ,41V' '66 67.1' .7 '-, 1' -, @' >.5 0.1'7 -.8
8;,<E,1 / . / .<7 ' '17%" " 5 " >4> 71.J5. / .<78 % 5.6
';7 ,<<' 1.6 6,<7 ?1>-.<46 =4.' % '1>8 > 1;;7.418
;:'1J.'>4'>.? 7 >.6 ';7 ,<68 5.41'>.5 -1.1''5.';.17 '
5 ;'7 >.'>.?>7 Q46=, '4'54<>' ' >6 @' 0.41.868% %

< ' ' K ' ';,<71 047 ,<8 ?'1' % #:'<-.78 ;G
7,V.< K,1>.'4@% #:.0 'K.'.<<.8 '4' ' 6 ,V'5
<' '' , , / > 1.'Q<6=4 ;'5'' ;,<71 047 ,<' ;, / / .'5.'?1 @
>.'5'' ?1,7.;7 ,<' =4.' .0'=4.' ?1,?1 .7.'1. , 7 >.'5'' E,1;.'
?405 =4.I' .<' ;,<6.=4.<;.' ,<' '' .7'05' ;, / / .'?1 <; ?.'4<'
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>4671 .8 6, 7 >.6 E,<>6 / ,0 5 .168 6,<7 6.'56 71 047' 1.6 >''
71.6, '?405 ;8 0 '47.41'>.' ,4-1'J.'=4.'<,46 '<<,< , 6
.67 ?'17'> 4<.''471.'>.E < 7 ,<I' WP'' ;,<71 047 ,<8 > 7 58 .67
4<.' / 6.'=4.'E' 7 ;:'=4.' <> - >48 >'<6 1.6?>1'<;.'5.J7 / .'
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#.77.'>.E < 7 ,<' .67 ?546 J.<.1'5.'=4.'5''?1. / .1.8.7 ?.<7'
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?'6.@;546 -. / .<7>.67 <.6G`5'' ;,<6.1-'7 ,<>.6 ?1,?1 .7 68
/ ' 6 ''?1, ;41.1' 2 '< - .16'5 7.'>.6 ; 7,V.<6 7,<6 '-'<'
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'47.41' ;,<6 >.1.>'>,<.'7,<6 5.6 ;,<71 0<'05.6 ;, / / .'
5.6 ';7 ,<<'1.6 >.'7,<7.6 5.6 ,?.1'7 ,<6 ?405 =4.68 2 .0''
;4< >.6=4.56 5.';,1?6 6,; '5 >.-1' 7 > 671 04.1' 4<.'6,< / .'
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6 0 5 7;'> .EE.;74.1';.'?'17'J.'>G4<.' / '< .1.'> 1.;7.8 5 E'.77
> 7 58 W '57. <>1.'?'1'4<.' ,?.1'7 ,<' <-.16.8 3D(',!+!-$.('
=4.'5.';,1?6 6,; '5'>, 7 .@ J.1'>.';:'=4.' <> - >4'4<.';,<M
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,.+$," *(.0(2' (,' '+$ $+*,'/' + 2' -(0(44((*," -$## " (,'
+)',.+$,'7' (,'* " 4 0 *" +'' .(.' 5 *' ,. 0(' 4 " -('
4 +$'$.'(*(.('+' (' $.('5 +' ('. #+,(.

"

' K ' a%

8 ' ' F ' G ' '

' ' ' ' ' ' ' '

66. / 05; .' <'7 , <'5.8' ,45' 5.' 1'??,17' >.' 6.6' ;> '
/ 7.6' > ?5, / '7 =4.' .7' > - J<,<8' >.;5'1.' =4 .55.' '? '
?1, -.' 5" ;,<>4 7.' >.6' 71,76' ;, / / 66' 1.6' =4 8' .<'
.@.;=7 ,<' >4>.;1.7' >4' C %/ ''>.1< .18' ,<7' .7.' .<-,V.6'
" - J<,<' .7' >'<6' 5.' ;,< 7'7' .<' 66 <8' ?,41' V' ,EE1 1'
'4@' > ` .1.<76' ?'17 6' 0.55 J>1'456' 5" / .> '7 ,<' >.'5"
H1'<;.8' .7' ?,41' V' # <;,41 1' '4' 1>7'05 66. / .47' >.'
,1>1.' ?405 ;' .7' >.' 5'%71'<=4 55 7.%

66. / 05..' <'7 ,<'5.' >.;1E.7.' =<.8' ;,<E,1< > / ;<7'
'4' -;.4' .@?- / .' ?'1' % 5.6' >. ?47.6' >.' '66. <05>.'
> .;7,1'5.8' ;.4@' >.6' / 4< ; ?'5 7. 6' > - J<,<' .7' >.'
'1?.<71'68' .7' ;.4@' >,' '1< ..' >.' '4;546.8' > 7.'
- J<,<<' 6.8' >'<6' '17%' ' >.6' ?1.5 < <' 1.6' >.' ?' @'
.7' >.' ;,<; 5 '7 ,<8' '11E 7.6' ;5' 6 J<.6' 5.' U'Q4 <' >'<6' 5"
- 55.' > 1'<J.8' ?'1'5.6' ?'17 .6' ; >.6646' / .47 ,<<>.68'
.7' ?'1 >.-'<7' ;6< >> '7.416>.' 5" H1'<;.8' ;6> 76; , / '
< 66' 1.6' / .> '7.416' 6,<7' '47,1 6.6' 2' 1.=4. 1 18' 6, 7'
5.6' J'1>.6' <'7 ,<'5.68' 6, 7' 5.6' 71,4?.6' >.' 5 J<.' E1'<'
' 6.68' ?,41' '6641.1' .@.;47 ,<' >.' 7,46' 5.6' '17 ;5.6'
?1.5 / <' 1.6' >.' ?' @' '11>7. 6' .7' 6 J<. 6' " 1'<J.8' '<6'
8=4 5' " .7>' > 7' ; >.66468' .7' <,7' / / .<7' ?,41' ?1.-.< 1'
8.7' . / ?>;0.1' 7,47.' - ,5.<;.' =4 ' ?,411' 7' 7 ;' E' 7.8'
6, 7' '4@' ?.16,<<.68' 6, 7' '4@' ?1,?1 .5.68' 6, 7' ?,41' '6'
I8Q 641.1' 5.' 5 ;.<; . / .<7' >.6' 71,4?.6' 0.55 J.1'<7.68' ';'
%74.55.< .<7' 1.?'<>4;6' >'<6' 5.6' ?'V6' > - J<,<' .7' ;, / G'
Q88%7.7' E <' 66 K8' ?,41' '11 7.4' 5.6' >.6,1>1.6' >.' ;.4@' =4 ''
'?1.6' 5.' 5 ;=<; . / .<78' ?,411' .<7' 6.' 1 ?'<>1.' 1'<6'
d 5.6' .' / ?'J<;6' .7' V' .@.1;.1' >.6' -.@'7 ,<68' ?, 51' > 66 G
% ?.1' 7,47.' '66,; '7 ,<' .7' '771,4?. / .<7' =4 ' ?,411' .<7'
8' 6.' E,1 / .1' '-.;' =7.<7 ,<' >.' 6 ,??,6.1' 2' ,1>1.' ?4 '
'05 ;8' .7' .<E <' ?,41' 7.< 1' >'<6' 5.6' >.4@' - 55;6' > - M
J<,<' .7' >.' # '1?.<71'68' .7' >'<6' 7,46' / 71.6' 5 .4@' ,4'
0.6, <' 6.1' 78' 4<.' E,1;.' ?405 =4.' 64EE 6'<7.' ?,41' 5.'
8' <' '<7 .<' .7' .@.;47 ,<' >.6' 5, 6%

66. / 05..' <'7 ,<'5.' >7 ;5'1.' =4 > 5.' ;,<E 11<.5"
' J'1'<7 .' >,<<..' ?'1' 5.6' 71, 6' ;, / / 66' 1.6' / .> '7.416'
?,41' .@.;47 ,<' >.6' '17 ;5.6' ?1.5 / <' 1.6' >.' ?' @8'
'< 97 `' .7' 6 J<>6' " 1'<J.' 5.' U'Q4 <' >.1< .1% G

66. / 05..' <'7 ,<'5.' >>.1E.7.' ;.' =4 ' 64 7I
<@% W18' .6' .<71.?1.<.416' >.' 5" / '<4E';741.'
%> '1 / .6' >.#:' >.- 55.' ?,411,<7' .@71' 1.8' >'<6' 5" ?1. '
6.<7.' '<<..8' .<' .@. / ?7 ,<' >.' 7,46' >1, 768' >.' 5" / <.'
>.' ' <7 '<.1.' .7' >.' '?,J?.8' ?,41' 5.6' E,1J.6' >.'
K.1;: [.8' 5" &Q4'<7 7.' >.' > @ :4 7' ;.<76' -, 741.6' >.'
/ <.' 5' -.8' .7' =4'71.' ;.<76' 0'<<.6' >.' ;: '10,<' >.' 0, 68'
" 5" ;: '1J.' >.' 1'??,17.1' >.6> 7.6' E,1J.6' " # :'15.- 55.'
@' ;.<76' / 55 .16' ?.6'<7' >.' E.18' .7' > ';=4 77.1' 6<1' 5.6 '
> 76' E.16' 5.6' >1, 76' > .<71..' >4' <,4-.'4' 5' E8

% .6' .<71.?1.<.416' >.6' E,1J.6' >.' '1 .<0,41J8'
6 74. .6' >'<6' 5.6' ;'<7,<6' >4' / I / .' <, / '8' ;,<7 <4.1,<7'
> '-, 1' 5" E';4 7>' >.' 7 1.1' >4' 1,V'4 / .8' .<' .@. / ?7 ,<'
>.6' >1, 768' 5.6' 0, 6' .7' ;: '10,<6' >,<7 56' '41,<7' 0.6, <'
?,41' '5 / .<7' >.6> 7.6' E,1J.6I' 5.6' =4'<5 7.6' >.;.6'
0, 6' .7' ;: '10,<6' 6.1,<7' E @..6' ?'1' 5.' > 1.;7, 1;' >4' >. '
?'17. / .<7%

% " ?.1 / 66 >:' > .@?,17.1' >4' 1,V'4 / .' 7,47.'
.6?` ;.' >.0476' ?'1' 5" <- .1.' >.% '11.' ;,<7 <4.16' >

'-, 1' 5 .4' ?.<>'<7' >.4@' '<<. .68' .<' ?'V'<7' 6415.6> 76'
0, 6' '4' 041.'4' >.' '1J4. / <.68' ,4' " 7,47' '471.' ?1.M
/ .1' 041.'4' >.' 5" 1,47.8' 4<' >1, 7' >.' '6,46' ?,41' ;.?7'
>.' 5.41' -'5; 1%

' ' " & ' ' ,

' 'N ?1 .' 66. / 05. .' >.' -,45, 1' 0 .<'
,1>,<<.1' =4 5' 6, 7' 6 16 6' " .<-,' >4' >.;1.7' >.' ;.'
/ '7 <8' 1.5'7 E' '4' ;, / / 66' 1.' ,1>,<<'7.41' >.' 5" / 'M
1 <.%' ' 66. / 05..' '-' 5' 0 .<' E' 7' '77.<7 ,<' '4@' ?1, '
;.6 -.10'4@' >4' >.?'17. / .<7' >4' '18' .55.' 6.' 6.1' 7'
;,<-' <;4.' =4 56' '-' .<7' ?,41' ,0Q.78' <,<' 4<' >.5 78'
/ ' 6' 4<.' .11.41' >,<7' 5.' ;, / / 66' 1.' ,1>,<<'7.41' >.'
5" / '1 <.' <.' ?.47' E 71.' 1.6?,<6'05.%' .' ?.<6.' =4 5'
< .67' ?'6' >'<6' -,71.' <7.<7 ,<' >.' ?1,<,<;.1' '11.6 '
7'7 ,<' > 4<' ; 7,V.<' 641' >.6' 6,4?E,<6' -'J4;6' =4' <.'
6 <7' '??4V>6' > '4;4<.' ?1.4-.' ?1,0'<7.I' 5' <.' ?.47'
.71.' >'<6' -,6' ?1 <; ?.6' > ,1>,<<.1' 6'<6' ?5' <7.' '1 '
1.67'7 ,<' > 4<' ; 7,V.<' =4 ' < " ?'6. 5.' .<7.<>4% ,;'
.@?5 ;'7 ,<' 71.6' 6 / ?5.' >4' E' 7N .' ;, / / 66' 1.' ,1'
>,4 '7.41' >.' 5" / '1 <.' >.' ,<5,<' 'V'<7' " ;1' <>1.'
=4.' 5" <,4-.55.' >4' >.?'17' >4' 1, ' <.' 1. > 7' 5.6' >;:'<'
J.6' 71E.6' > EE ; 5.68' .7' <.' ?,4-'<7' ;,<71.-.< 1' '4@' >. '
;<6.6E' 7.6' ?'1' 5.' / < 671.' >.' <;J,; .1' 5.6' '66 J<'76'
" >.' J1,6' <7. 1>768' .47' 1' 6,<' >.' > 1.' '4' >1.;7, 1.'
=4 5' < '-' 7' ?'6' >.' =4, ' ?'V.1' 5.6' ,4-1 .16%' ' " > 7'
=4 5' < '-' 7' = .' 8 ' 5 -%' .<' '1J. <78' =4, =4 5' ;>7'
1..55. <.<7' 8 ' 5 -%' .<' <4 <. 1' 1.I' / ' 6' ;.7' ,1>,<'
<'7. 1' < .67' ?'6' 5.' ;' 66 .1I' < .67 5' ?'6' ?,66 05.' =4.'
;/' 6, 1' '<' 5.<>. / ' <' >.6' .5H.E ' ' .<7' >7.' 1.'5 6.6' >'<6'
5" ;' 66.' 6'<6' =4 5' ' 7' 64' Z # , / / .<78' '?1.6' >.' 7.55.6'
<-1' 6. / 0 '<;.68' 66. / 05..' ' 7 .55.' ?4' ,1>,<<.1'
'11.67'7 ,<' > 7 ' ; 7,V.<' ;,4?'05.' > 4<.' >JE.1.' .1M
1.41Z' " - 55.' >;' ,45,<' .67' 7.<. / .<7' 646;.?7 05.'
> . / ,5 ,<8' =4 '4' / , / .<7' ?.47 971.' ,:' -,71.' >>.1.7'
V' '11 -.1'8' 5" -.' >.' ;.' ; 7,V.<' 6.1" ,<' >'<J.1% # .67'
4<' :,4 / .' >.' 9(' '<68' ;, / / ' ?'1' 6.6' V.17468' =4 "
7,4Q,416' .7.' .<' 0,<<.' :'1 / ,< .' '-.;' 5.6' ;,1?6' '> / '
< 671'7 E6% .' V,46' ?1 .' >,<.' > ,1>,<<.1' 5.' 6416 6' >.'
-,71.' >.;1.78' .7' >.' ;:'1J.1' 5.' ;, / 7>' >.6' 1'??,176'
>.' ?1.<>1.' >.' <,4-.55.6' <E,1 / '7 ,<6%

' 6%' 'Nd# . ' 4<' ?5' 6 ' ?,41' / ,1' > '-, 1'
" '??4V.1' 5" ?1,?,6 7 ,<' >.' % '5,4.7I' . .67' 4<'
:, 4 / 'J.' =4.' Q.' <.' ?.4@' 1.E46.1' " :,<<.7.' ;7,V.<'
=4 " .7.' ';46.' ,<?1.6' >.' 66.< 05. .' <'7 ,<'5.I' .7'
6 5' 5.' E'55' 78' Q.' <.' 1.<;51' 6' >'<6' ;.' / ,< .<7 ;' 5.'
J'1'- 7' >.' 5" ?41.7.' >.6' <7.<7 ,<6' >.' % 40,6;.5%'
.67' 4<' 6.?74'J.<' 1.8' V/ ' ?.1.%>.' E' / 55.' 1.6?.;M
7'05.I' 6<' E' / 55.' .67' 4 .' >.6' c 546' '<; .<<.6' >.' ,4M
5,46.% & <' / 41 / 41.%P' .' <.' ?'15.' ?'6' >.' '<; .<<.7>'
=4 ' .,<67 74' 7'471. E, 6' 5" <,05.66.I' Q.' -.4@> 1.' =4.'
>.?4 6' 5,<J7. / ?6 5' " 6,<' > , / ; 5.>' ,45,<8' ,4 5'
6 .17' 7,4Q,416' > 67 <J4.' >'<6' 5" ;5'66.' >.6' ; 5,V.<6' <,<'
?1 - 5.J . 6%' .' ;.' =4.' 6.6' -.1746' ; - =4.6' .7' 6,<' / .M
1 7.' .<7' .5.-.' " 4<.' ?5' ;.' =4 ' 6. / 05' 7' '471.E, 6'
;,<6' ;1..' .@;546 -. / .47' ' 5" ;5'66.' >.6' 6, > 6'<7'
<,05.68' 5' <.' 6 .<64 7' ?'6' =4 5' E' 55.' 54 ' ?1>7.1' 5.6' <M
7.<7 ,<6' / '5-. 55'<7.6' =4 ' .5' .<7 / 7E, 6' '?%'<'J;'
>;' ; .77.' ;5'66.% $

'??4 .' 5" ?1,?,6 7 ,<' >.' % '5,4.7%

66. <05..' ,1>,< .' 5.' 6416 6' >.' 6,<' >>;1.78' ;'
1.<-, .' 'EE' 1.' '4' ;,< 7>' >.6' 1'??,1768

<.' >.?47'7 ,<' >.' 5" :'47.' ;,41' <'7 ,<'5.' ?1,- '
6, 1.8' >7'05 .' " 15.'<68' .67'> / 6.' " 5" 0'<.%

/ ' ' ' 7 , ' N' .6' / . / 01.6' >4
71 04<'5' ?1,- 6, 1.' 6. '<7' " 15.'<6' <,46' ;:'1J.<7' >.'
-,46' 1.<,4-;5.1' 5.' 6.1<@.<7' >.' 5.41' <- ,5'05.' '77' '
;:. / .<7' " 5" 5, % 1>76' " >.E.<>1.' Q46=4 '4' >.1< .1'
6,4? 1' <, 1.' 6405 / .' # ,<67 747 ,<8' 6 ' =4.5=4.' ;:,6.'
5.6' " >7,<<.68' ; .67' =4 5' 6.' 6, 78' >'<6' ; .77.' 66. / 05. .8'
.5.-.' >.6' >,47.6' 641' 5.41' 0.5.%' .' ;, / ?7.' 6, / / ' 1.'
=4.<,46' '5 .<6' -,46' 1J<>1.' 64EE 1" 6'<6' >, / .' ?,,1'
.;'17.1' >.' <,46' ;.6' 6,4? ,<6%

.6 / . / 01.6 >4 71 04<'5 ?1, - 6, 1.' ,<7 >7.' <65'5 '
>6 5.' ' ' -1 58 Q, 41 5 @> ?'1 5" 5, % 34.5 " .7;' 5.41
;7,<<. / .<7 6 <, <7 E1, 4-.' <' ?1 6 ,<68 <' ' ; ;46.68
<' ?1, ; .6% 6 ,<7 ?'66.' 6 @ 6. / ' <.6 >'<6 ; .75.' <' ; '
7 - %.' E,1; . .% 5 7' ,< 5.41 " '< .<.' ; <= ' ; ;46.6 =4 '
E, <7 5.6 ,0Q.76 >.' E1, 6 ?1, ; .6% % ! 55.6 .7 4 - '58
; , ' ; ;46.6 >4 ; >. - '<7 . ->=4.' >.' 71'60 ,41J8 ,<7
%.7;' . ;1, <.6 c.' C)' ' -1 58 <7.11, J>6 5.' C*% .6 7. / , <6
,<7 ;7.' .<7.<>46% .')' / ' 8 >.6 ? . ; .6 '55. / '<>.68
.< J1'<> <, / 01.8 , <7 .7.' ?1, >4 7.6I / ' Q4J. / .<7
.67 641- .<4=4 ' " ; , / / 6 4< 71'>4 ; 7.<1% "71'>4 ;M
7 ,< -" 71.'7.1 / <. .8 .7 ' ; ;46'7.41 ?405 ;' -"1.<>E.'
6" ?5' <7.% .6 >.4@ '471.6 ' ; ;46.6 6 ,<7 % 4E1.6 '
<.V% ?.1.' ;75 56% 556 , <7 .7.' . ;1, .6>.' 9 7<' 8 <7.1 '
1, J; 6 5.' (% .'>. ;1.7 >.' 66. / 05. .'<'7 ,<'5.' ?,1 '
7'<5 =4 5 V " 5 .4 " ' ; ;46'7 ,< " .%7>71'<6 ;1 7641 5.6
1.J 671.65.' *% .' <, 4- .55.' 71'<6 ;1 ?7 ,<8 E' 7.' 5.'
C(/ ' 8 " >7.' <. ; .66' 1.'> '?1.6 5" >. / '<>.' >4 ; ,1' '
< 66' 1.>4 1, 8 =4 ' " ,06.1- .' =4.' 5" ?1. / .1.' 71'<6M
;1 ?7 ,< .7' 7 <455.8 .< ; .' =4, ' '47,1 6'7 ,< >4 / '
< 671.' >.' 5" Q467 ; .' ' - ' 5 ;7.' .<- ,V. .' '4 71 04<'5 ?'1
4<.' .11.41 >.' 041.'4% " ?5' <7.' >.' ' ; ;46'7.41 ?4M
05 ;' " .7;' 1.<>4 .5 .55 Q4 4% .?4 68 > EE.1.<76 7. / , <6
,47 .7.' .<7.<>468 .7 ;%

.' 71, 6 . / .' ' ; ;46.' .67 %a ,55.6% ' ">7>. ;1, 4>5.'
□ ' / ' 8 <7.11, J; ' ;'C % .?4 6 ; ;77. ; ?, &&4.?546 .416
5.771;6 ,<7 .7.' . ;1 7.%6 ;< - ' < ?'1 ' ; ;46'7;41 ?405 ;'
?, 41 ' - , 1 5.6 ? . ; .6>4 ?1, ;06I 5.'>. ;1.7 > ' ; ;46'7 ,<
<.' 54 ' .67 ?'6 .<; ,1.' ?'1- .<4% .5 .67 5.' ; , / ?7.' 6, / '
<' 1.' >.6 ?1, ; .6 >, <7 5" : '47.' ; , 41 " ?1 6 ; ,<<' 6 '
6'< ; .% #1. .6 ?'1 - , 46 ?, 41 / ' <7.< 1 5" #, <67 747 ,<8
; .67 ' - , 46 " 6, 47.< 1 .7 .<; , 41'J.1 <, 6 .EE ,176% #.'
%?.<>'<7 >4 6. <>.' #.77.' 68 . / 05. .8 ,<7 .7> ' '>1.66. .6
" >.6 ' ; ;46.6 >. 7.<46 >'<6 <, 6 ?1 6 ,<6 >.6 5.77.16 <'
Q41 .46.6 ?, 41 66. / 05. .'<'7 ,<'5.' .7 ?, 41 5.6 Q4J .6
: , <,1 76 >.' 6" ; ,<5 '<; .I / ' 6 ; .6 5.771.6 ?5. <.6 >.'
/ <5- . 55'<; .87.<>'<7.6" 1.?'<>1.'>.6 6, 4?3, <6 < '
Q41 .4@ 641 5.6 Q4J .68 ,<7 ;7.' 1.<- , V. .6 " 5.416 '4M
7.416% ,6 ;<<; / 6 , <7 0.'4 6 'J 7.18 <, 71.' ; , 41'J.G
6.1" <.01'<5'05.' ; , / 1, .' 5" #, <67 747 ,<I .7 ?'1 / '5.6
/ . / 01.6 >.' 5" : '47.' ; , 41'<'7 ,<'5.8 5 <.< .67 '4;4<
=4 8 <, 4- .'4 , <' <8 >'<6 4< >'<J.1 >.' 5" ?'71 .8
>.' / 'J 651'7?' 6 05.'<.'>. - <7 4< J4.11 .1 E,1 / >'05.8

F ' ' < 7 ' 7 " <'7 ,< - , 46 " <- .67 6 >.' 6"
; , <5 '<; .'>'<6 .@.1; ; .'>4 >1, 7 6' ;1.' .7 7.11 05.'>.'
Q J.1 ' ; , <; 7, V.<6% 55.' < .67 ?'6 ?546 .@ J.'<7.'
=4.' 5.6 <> - >7 6I / ' 68 ; , / / .' .4@8 .55.' " >1, 7 > '7 '
7 ;<>1.4<; Q467 ; .' ?1, / ?7.' ;7 / ?'17 '5.% 66. / 05. .'
<'7 ,<'5.' .67 6'7 6E' 7.'>4 ; , / ?7.' =4.' - , 46 - .<.0 >.'
54 '1.<>1.I .55.' - , 46 <- 7.' " '66 67.1 " 6" 6.'<; #%

41 5" ?1, ?, 6 7 ,<>.' % K, 4; : .8 66.1'05; .' ,1 '
>, <<.' =4.' 5.6 5.771.6 '>1.66. .6 '4@ ' ; ;46.6 >.7.<46 "
15.'<6 6.1, <7 >.?, 6. .6 '4 ; , / 7.'>.6 1. ; 0.1; : .6%

.6 ; >. - '<7 . / ?5, V.6 '4@ E.1 / .6 >'<6 5.'>.?'1 '
7. / .<7 >.' '1 68 '> / 6 " 5" 0'11.8 6.' ?5' J<.<7 >.'
=4.5=4 .6 5 0.55;6 7.<>'<76 " E' 1.646?. ;7.15.41?'71 , '
7 6 / .8 .7?1>7;<7 >'<6 5.'6. < >.' E 66# / 05. .8 .< 1> '
?, <6.' " ; .6 <; 45?'7 ,<68 5.' 6.1 / . 7 >.' 6' ;1 5 .1 5.416
- .6 " 5" >.E.<6.'>.' 5" #, <67 747 ,<%

< - . 55'1> & % : 4'457 ' / '6P <71, >4 7 " 5"
0'11.' E' 7 1. <.571.' 641 5.' 041.'4 4<.'6, / / .'>.') '
5 -1.6?, 41 .<71.7 . '>.6 J'1>.6 <'0, <'4@ =4 '6.1, <7
. / ?5, V.6 '4@ E1, <7 .1.6% d

% #'67.55'<. ' E' 7 5. ;741.'>.6 >, <@ '>1.66.6 64 '
- '<5.6N

, ' ' ' ' ' F

.6 ,1'J.6 ?, 5 7 =4.6 <.' 6, <7 " ;1' <>1.' =4.' ?, 4 '
5.6 >.6?, 7.6I>6; , <6, 5 >.<5 5" 5 0. 7.'>.6 ?. , ?5.6 =4 '
< ,<7 ?'6 ?.1>4 5.41 ; , 41'J.% '16. 55.' " >, <. .'
1.@. ?5.'>.' 5" 1.6 67'<; .' " ,??1.%66 ,< 5,16=4.' 5.6
0'67 55.6 .@ 67' .<7 .<; ,1.% 55.' 4 " ?, <7 ?.1>4 5.'
6, 4- .< 1 >.6 - .1746 >.6 : , ; . .<6I .7 ; , / / .' .4@

5.416 >.6; .<>'<76 '0'<>, <<.1 <7 .<; ,1.' <.'E, 6 5.41
6, 5 ?545 7 =4.'>.' 640 1 5.'Q, 4J%

, ' ' ' ' ' ' F

,46 ' - , <6 Q41.'> >71.' & >.5.6 " 5" <'7 ,<8 ' 5" 5, ' .7
'4 1, % 34 5 1.?'1' 66.' . ' 1, ' =4 8 6.' 5 '<7 ?'1 5.' 6.1 '
/ .<75.' ?546 6' ;1.8 '6641' 7 '4 / 5 .4Þ.' - , 46 W =4 5
>.E.<>1' 78 =4 5 / ' 47 .<>1' 7 ; .77.' 5 0.17>' ; , <6744 '
7 ,4 .55.8 >, <7 5.' - . .4 J.<.1'58 > ' ; .01>' ' - . ;' 5.' 6 .<8
' - ' 5 ; , <6' ;1.' 5.6 ?1 <; ?.6I =4 5 E.1' 7 >' - '47'J.8
.7 =4.8 >.' ; , <; .17 ' - . ;' 5" 1. <.' =4 ' ?'17'J.' 7 7, <6
6.6 6.<7 / .<768 5 ?1.?'1.1' 7 >.' 0, <<.' : .4E.' .6?1 7
.7 5.' ; , .41 >.' 6, < E 56 '4 <, 4- .5 ,1>1.' >.' ; : ,6 ;6 =4.'
5.6 ; 1; , <67'<; .6 ' - ' .<7 ' / .<>%Y 34 5 1.?'1' 66.' ; .'
1, ' =4 ' ' ; ; .?7" 5.' 5 71.'>.' 1.67'41'0 / 1 >.' 5" 5 0.17.8
.7 =4 ' E4 7 5, <>4 71 <.' >.' 6.6 ?.7.68 =4.' 5" <'7 ,<
54 ' ; , <6.1- " ?'1 4 ' ; : , @ E 01.' =4 5 >. - ' 7 / .4@ '?'
?1. ; .1S $ 8 %

.67 >, <.' .< - ' < =4.' 5.' - , .4 <'7 ,<'58 5.' ?546 E,1 '
7. / .<7 ?1, <, <; >8E 7 J1' - .1 641 ' 1' < ; .' > 6; , 416
/ . / ,1'05.' =4 5 - , 46 '>1.66' 7S ; .67 >, <.' .< - ' <
=4.' 5" <'7 ,<8 < >5'<7' ; .70, / / 'J.>.65'1<5;6> '7 '
7.<>E 66. / .<78 0.< 66' 7 .6 6.<7 / .<76 .7 5.' 5'<J'J.'
> 4< 1, ; 7, V; <S

' 6 5" <'7 ,< .@ 67.' .7 5" #, <67 747 ,< <.' ?.1 1"
=4 ' - . ;' .55.% ?46 <, 46 >. - .0 " 1. ; : .1; : .' 5" ?5 66>G
-E.1.'>.6 ; '46.6 .7 >.6 / ,7 E6 >.' ; .77.' E4 5.I 5 <, 46
>, 7 5" ->1 7.8 .7 6 5 .67 -1' ' = .' 5.' . [41 >.6 1, 6 .<
6, 75 '6 5.8 =4 5 1.?'1.' ; < 4< 6.<5 Q, 41 >.4@ '<6> .1 '
1.418 .< >. V, 5'<7 5" 71' / .' ; , 4?'05; ' =4 ' .J'1'%
,46 >. - .0 4< J1'<> .@. / ?5.4 5" <'7 ,<I ; , <7; .0
6, < <> J<'7 ,< =4 ' .67 '4 ; , / 05.8 .< >.?5, V'<7 7, 47.'
5" 6. - .1 7.>.' 5" 5, I E' 7.6 5' 54 ' 1.6?. ;7.1 .< 5" 1 Q; ; '
7'<7 - , 7 6 / > / .6I .7 6, 4- .<.0Y- , 46 =4.' >'<6 5.6 ;1 8
/ ;6> . 78 5.?546 J1'<> >.' 5, 468 ?.<7 > 1.8 .67 5"
;5> <.<; .' =4 ' 5.6 ?'1>, <<.% & < '??5'4> 7%P

< >.' % 5.6 6. ;1.7' 1.6 E 7 5" <, 7 ; .' >.6 <= / '
01. , 6.6 '>1.66; 6=4 8>.5, '7.6 5.6 ?'17 .6 >.' . / ? 1.8
'<<, <; .<7 ' 66. / 05. .' <'7 ,<'5.' 5.' 6.1 / .<7 =4 ,<7
?1>7.' 5.6 '> / < 651'7.416 8 5.6 Q4J .68 5.6 J'1>.6 <'7 , '
<'5.68 .5 5" 1.6, 547 ,< <>01'<5'05.' =4 ,<7 ?1 6.'7, 468
5.6 ; 5, V.<6 >.' 6' ;1 5 .1 5.41 - .'?, 41 5" >.E.<6.'>; ' 5"
#, <67 747 ,<% +'#.77.' <, / .<; 5'741.' , ; ; 4?.' ?546 .416
: .7 1.6 >.5" 6>'<; .% ,47.6 ; .6 '>1.66.6 6, <7 1.<- , V. .6
'4@ '1; : - .6 <'7 ,<'5.6%

41 5.'1'??, 17 >.' % 41'<>8 > 7 >.' ' 55'<.8 .7
'4Q4 <' 68 66. / 05. .' 1.<> 4< J1'<> <, / 01.' >.'
>; ; .76 >.% ; 1; , 6.1=Q7 ,< >.' ?'1, 66.6%

GGG8 ; : '1J.' ?'1 7.' ; , / R7>>.6 1'??,176 >4 1'??017
> 4<; , 55 7>.Q41 > ;7 4 8 .5.- . " , ; ; '6 ,4 >; ' '> '
/ 4 651'7 ,<>.' : 4? 7'5 >.6 34 <0. <J768 .<71.' 5.'
71 04<'5 >4 =4'51 .4 .' '11, / 5 66. / .47 >.' '1 6 .7 5.%
> 1. ;7, 1.'>4 >; ?'171 / .Q 78 '<4, <; .' =4 7 V " .4 >.6
'66 J<'7 ,<6 #, 451.' 5.' ?1, ;41.41 J.<.1'5 6V<> ;8 >.6
,??, 6 7 ,<6 >4 > 1. ;7, 1.8 >.]'Q4J. 4. 76 ' 45'47 ; .6
,??, 6 7 ,<68 .7 ;%8 / 4 6 4 5 4 " ?4 6.' ?1, ;41.1'4;4 .'
>.6 ? 0; ;6 >.' ; .' ?1, ; .6%

66. / 05. .' ,1>, <<.=4.'5.'1'??, 17 / ,7 - .'>.' ; .77.'
'EE' 1.'6.1" E' 7 " 5" ?1, ; : ' <.'6 '4; .'>4 6, 1%

" 6>' ; .' .67 5. - . .' " <.4E ; ; 1.68

a# ' ' < #75 1 9 %

% # :1.7 .< ?1, ?, 6.' 4< ?1, Q.7>.'>. ;1.7 ; , <; .1<'<7
5" E @'7 ,< >4 ?1 @ >.66;56 ?1, - .<'<76 >.' 5" 6'5 <.'>J
,47 / ,1, 8 >'<6 5" ; >. - '<7 ?1, - <; .'>.' 5" H1' '
; : . #, / 7.% 7 ?, 15.' ; .77.' 5 @'5 , 7 " 9 5 -% 7.' =< 47'58
; 7 5 " / ,7 - . ;' 641 5" <. ; .66 7.'>.' - 5 .1 ; .77.' 01'< '
; : .'>.' ; , / / .1; .%

9 B 'N <7.5>>; 1; 5 <71, >4 1' 7 4< ?1 - 5. J.'
?, 41 5 <.' ?'17 .'>4 1, V'4 / ; I ' - '47 >.'1 .4 67'74.1 "
. ; 7 . J'1>8 66. / 0 . .'>, 7 ?.6.E 5.6 ' - '47'J.6 .7 5.6
% <; , <-0< .476 =4 ' .< 1 ` 457.1' .<7% ; ' >. / '<>.' ; <

0

; ,<6.=4.<; .' / ?1.66 ,<'>4' 1'??,17' .7>4' ?1,Q.7' >.' >>;1.7%

66. / 5Q5..' ,1>,<<.' < ?1;66 ,<%

% .; ,47 45@' 5 7' 5 <.' .771.'> '> 1.;7, 1.'>4>. ?'1' 7.< . 7' >.5' . <. <E.1 .41.%=4 '<4,<;.=4.'5.'-' 6' .'4' E1'<? 6'J),'' '.@?.>>'>.' ,4.<?,41' B' / G' 0,41J8' .67611>7.' ?'1' 5'' 1 4 / >?<5 7>' >.' #'4>.0.; ' 641' 5'' >.<,<; '7 ,<' E' 7.' ?'1' 4<' / '7;5,7' =4.' ;.' 0E 7 ' / .<7' ;7' 7' ; :'1J.' >.' / '7 .1.6' > ,1' .7' > '1J ;<7I' =4,' >.?4 6' 5''>><, ; '7 ,<' 5.' / '7.5,7' 6 .67' .71' ,7.8' / ' 6' =4.' 5.' ?.4?5.' 'V'<7' , , 6J7' 5'' ?546' J1'<>.' 5. '<; .' 46 67.' 641' 5.' >.0'1= . / ;<7' .7' 5'' - 6 7.' >4' 0 <.<7% .6' '> / < 671<7.416' >.' ;.' > 1.;7, 1.' >. / '<>;<7' 6G 56' >, -.<7' E' 1.' ?'17 1' 5.' '66.,4' ,4' 5.' E' 1.' >..:'1J.1I' >'<6' 5.' ?1. / .1' ;'6' 56' '6641.<7' =4 56' >>?5, .1' .47' 5'' E,1;.I' >'<6' 5.' 6.;,<>' ;'6' 56' .1, J<. 7' >.' >,<<.1' 5 .4' '' >.6' >. / '<>.6.<' <>. / < 7.68' >.6. / .1' 5'' >. '<..8' >.' / .771.' >.6' .<71'-.6' >'<6' 5.6' ,?.1'7 ,<6' >4' ; , / M / .1; .%

% .#,7 7.45@' ?1,?,6.' B7' ?1,Q.7' >.' > ;1.7' 5.<>' 7' '' E' 1.' 1.5 ;:.1' 5.' 0 7 / .<7' ?,41' 5.' 5' 66.1' , 5.1' '' 6'' >.67 <'7 ,<%

%K % 40'7.7' H1.7., ',06.1-.<5' =4.' 5. '>.1< .16' >>' ;1.E6' 1.<>46' ?'1' 66. / 05..' ,47' <'7 4 .55. / .<7' '47, ' 1 6.' '11.67'7 , '>4' -, 66;'4I' =4 5' .7' 7' <. ;.66' 1.' >.' > 66 ?.1' 5.6' 6,4?; ,<6

' 66. / 05..' >.; >.' =4 5' < V' '' ?'6' 5 ; 7' 2' >.5 0. 1.1' 641' 5.' ?1,Q.7' 'E5.;1.7' >.' % Q .; ,47.45@8' .7' >>;1.7.' 5'' > 6?,6 7 ,<' 64 -<<7.'

W 66. / 05>.' <'7 ,<'5.%'?1>6' %'-, 1' .<7.<>4' 5'' 5.;M 741.' >.6' >.7 >; :.6' >.6' '> / 17 671'7.416' ; , / ?,6'<7' 5.' > 1.;7, 1.' >4' >.?'17, / .<7' >.' '' . <, <E>1 .41.8' >>' ;1>7.' =4.' 5.' -' 66.'4' . ,! ' ;'?7' 4.' 3 4>0.; 8' ?'17' 5 .' ,4.<' ?,41B' / 0,<1J8' ';7 .55. / . 7' >.7.<4' '' #'4>;0.;8' 6.1'' - 6 5>8' .7' = 5' .<' 6.1'' >1.66.' ?1, ;.6 ' -.10' 5I' .7' '' ;.7' .5E.7' 5.6' '> / < 51'7.416' >4' >. ?'17. ' / .<7>.' 5'' . . 5<E.1 .41.6 ,< '47,1 6>6' ' .<,1>,<' K%,15.>>;:'1J. / .<7%6' E' 5.6' <>. / < 7.6' 6 5' V' '' 5 .4%W

7 55' >.' % 5.6' .;1.7' 1.6' E' 7' 5.;E41. E4<.' 5.771.' >.6' 75 , 6' ; , / / 66' 1.6' :'7 , :'4@' .<-,V.6' >'<6' ;' >.' E'17. B.<7' >4' 41' I' ;.77.' 5.771.' .67' ' 1 6' ; <; .'

? ' ' ' ' +' , 5 ' ,-, 68' >.?406' B,71. >.1< .1.' 5.771.8' ; , 7 57 .' >' / .771.' 5'' / > / .' ';5 - 7>' >'<6' 5'' / 66 ,<' =4.' 1 66. / :5>.<'7 ,7 '5.' <,46' '' ; ,<M E >.% ,46' ,-,<6' ?,<>' <,6' 1.J'1>6' 641' ('' E1,<7 #1.6' 5 / 7E,?:.6' >4' ?'V6>.' ,1.<7 / 8' ,4' % ,45,<J.,<' '-' 5' .7'05' >.6' ?,67.6' ?,41' 1.?,7766.1' 7,47.' '57'=4.' .@7.1 . 1.8' ' 6' =4.?,41. / ?>;:.1' 7,47.' >/ J1'7 ,<' ?1, : 0..' ?'1' 5'' 5, % .' 7,<6' 5.]' >;5' 1. 66. / .<76' =4.' <,46' ,-,<6' ?1 68' 5' 1>6 57.' =4 '4;4<.' <, -.55.' 71,4?.' ,;;<?.' 5.' 7.11 7, 1.' >.' ,1.<7148' .7' =4.' 7,47.' '77' ' =4.' >.' ;.' ; 7> 5'' .67' / ?,66 05.8' =4.' >4' / , <6' ,<' '41' 7' 5.' 7. / ?6' >.' 6.' / .771.' .<' >7' 7' >.' >.E.<6.% .6' ,EG 5 ; .16' J.<.1'4@' >.' ; .' >>?'17. / .<7' ,47' >,<.' ?. 6>' = 5' .7' 7' <47 5.> 'Q, 7.1' >.' <, -.'4@' >>7<, :. / .<76' '' ; .4@&& 'J'1>.<7' .<' ; .' / , / .<7' ;.77.' E1,<7 .1,% ,46' '-,<6' 6;45; <.<7' ; / ' >.-, 1' > 671 04.1') ' E46 56' '77@' J'1>.6' <'7 ,<'5;6I' <,46' <.' ?, -,<6' >. J'1< 1>'-'<' 7' J.' 5.6' / 'J'6 <6% ' .67' / ?,17'<7' > V' 5' 66.1' 4<.' =4'<7 5.' > '11'.6' 64E7 6'<7.' ?,41' 1.<,4-.5.1' ; .55.6' >.6' 71,4?.6' >.' 5 J<.% .6' - -1.6' 6,<7' '0,<>'<76 ; ' .7' >'<6' 5'' ; 7'>.55.I' 5.6' .55.76' >.' ; ' / ?. / .<7' V' 6,<7' .<' / , <' >1.' '0,<>' ..8' / ' 6' ,<' ?,411'' ' 6. / .<7' 6 .<' ?1, ;4M 1.1% <6;1 ?7 ,<' >.6' J'1>.6' <'7 ,<'5.6' 6.' E' 7' '-.;' 1'? > 7.% ,4 ' '-,<6' -4' 7 55' J1'<>' <, / 01.' >.' ; :.-'M 5 .16' >.' ' <7 ,4 6' 6 .<1,5.1' '-.;' 5.416' . E'<76%

,46' '-,<6' 1.; 7' 5.' 6.1 / .<7' >4' W 1>J <.<7' >.' ; ' ' -'5.1 .I; >.-'<7 ,V<5 ,1< '<> .I' 5.' ; , / / '<>'<78' % ';:'6.8' ' / ,<71.' 5'' 5,V' 7>.75.0.5.> 4<' < 5 ' 7' 1.' 1.6?.;7'05.I' 5' '' ?1,<,<.>' 2' 5'' 797;' >4' 1>J / .<7' W<' > 6, ,416' ?5. ' > ><.1J .' .7' >.' ?'51 ,7 6 / .I' 5' '' ?'15>' 2' , .6' 01'-.6' 6,5>'76' .' 5,<cI' J.' > 4<' H1'<J' 6I'

7,<6' ,<7' E' 7' 6.1 / .<7' >=' J'1>.1' 5'' > 6; ?5 <.' 5'' ?546' .@, ;7.% ,<6' 5.6' ,E5 ; .-68' ; ,16' 4<' 6.458' ,<7' ?1.7.' 5.' 6.1 / .<7' >>;1.7.' ?'1' 1 66. / :5..' <<7 , '5.% .' CD1>' J / .<7' >.' ; '-'5;1 .8' .<' J<11 6,<' '' ! 1'V8' <,46' '' E' 7' ?,17.1' <,6' ?<6' >4<6' ; .75.' - 55.% % ,45,<..,<' =4' <,46' V' <-< 7?1. ; .>>6' <,46' ,' 1.<>4' 5.6' / . 5 .7 16' 7>' / , J7 'J.6' >.' 5'' ; ,<>4 7.>.' ; .' 1.J / .<7% .6,E5 ; .168' 6'<6' .@; .?7 ,<8' ,<7?1>7.5.' 6.1 / .<7' .7' <,46' ,<7' >,<<>' >.6' ?1.4-.6' >.' <' ?546' J1'<>.' 6,4 / 66 ,<% '<6' 7,<6' 5.6' 5 .4@' , 5' <,46' <,46' 6, / / .6' ?, 17.68' 5.' ?.4Q>.' '' / ,<71.' 5.6' / > / .6' > 6?,6 7 ,<68' 5.' ; ,41'J.8' 5.' ?''71 , ' 7 6 / .85<' ; ,<55<<; .' .<' 1 66. / :5..' <<7 ,<'5.8' 5'' 6,4' / 66 ,<' '4@' 5, 6% .' 6,45' -..4' =4.' 5.6' ; , / / 66' 1.6' ' .<7' '' E,1 / .1' . .67' >.' -, 16. ; / .<7.1' >'<6' 5.6' 1.J M / .<76' 5'' , , 7 / ,.' .<71.' 5.6' ,E5 ; . ' .7' 5.6' 6, 5'768' 6.45' J41<<7>.' 5'' > 6; ?5 <.' / 5 7< 1,%

+ ' 5.' 1'??,17' >,' % . 55'1>8' 5.' >. ;1;7' 64 7'<5' .67' 1.<>4N

W' 66. / 05>.' <' ,<'5.' <671 7.' ?'1' 6,<' ; , / 7>' 7;' Q4> ;'741.' =4 5' < .@ 6 .' <4;7 <' '; 7.' ,47:.<7 =4>' >';G' =4 6 7 ,77,4' >.?'17% J.' .<71.' ; , : . 57 .168' >.' 5 ,E5 ;.' >.' ?1. / .1' ?1.6 >.<7' >.' 5'' ; >.-'<7' ; :' / 01.' >.6' ; , / ?7.6' >.' ! 1.<,05.8' .7' ; ,<6 >>1'<7' =4.' ; .7 ,E5 ; .7 .' ?.47' .71.' ; , / ?'1.' '' '4;4<' >.6' ' 71.6' ,E5 ; .6' >.' 5'' / > / . , , / ?'J< .8' >>;1.7.' =4.' 5.> 7' ,E5 ; .' 6.1'' 5 = >.' ; ,<E,1 / . / .<74' 1.-'54'7 ,<' =4 ' .<>' >7.E' 7..<5((%_ -'<7' >.' ?'66.1' '' ,1>1.' >4' Q,418' % .6 / .47 .1 ' ?1,?,6.' 5.' ?1,Q.7' >.' >.;1;7' 6 - / ' =4 ' .67' '>,?5.N

U 66. / 05..' '7 , 5' 5.' >>.1#5.' 1 ' 5.6' ,EE ; .168' 6,46 ,E5 ; . 6' '77' ; :.6' % / ' 6.1-;.' >.' ' ' 'V ' >, / ; 5 >6:'0 74.55. / ;<7' >'<65.65 . @' , 5' 566.' 1,4 ' -.1,<78' 6, 7' .<' J'5 < 6,<8' 6, 7' .<' ' ;7 - 7.' >.' 6.1- ;.8' ?,411, 7' '.@.1; .1' 5.416' >1, 76' >.' ; 7,V.<68' 6 56' 1. 4' < 66.<7' > ' 55.416' 5.6' ; ,<> 7 ,<6' 1.=4 6. %Y

% 7,4 K K!N .6' 0,<6' .EE.76' >.' 5'' ?1.M 6.<; .' >.' =4.5=4.6' >.?47.6' / 5 7' 1.6' '' 5.7 1' 1.J / .<7' ,<7' E' 7' ?.<6.1' =4 5' ?,4-' 7' 971.' 47 5.' > .<' .<-,V. ' UP4;5=4.6 4<6% % 4?,17' 5' 5 '' > 7' =4.' 5.6' ; 1; ,<6' 7'<; .6' 1.<>' .<7' <.; .66' 1.' / ,<' >.?'17' ?,41' 55.70' ,4' Q.' 6.1 ' .<' =4'5 7.' >.' ; , 5 ,<.5I' Q ' ' 1>?,<> ' =4.' .' 5.' -, 5' 6' 05.4% / ' 6' =4.Q '-' 6' 0.6, <' >.' ; ,<6457.1' 6' 6. / 05.#% & 546 .416' -, @' 6 .5.-.<7' >'<6' 5'' ?'17 .' J'4M ; : .' N 4 8' ,4 I' ?'17.08' ?'17.0%P' '<6' 4<' / , / .<7' , 5' 5.' 014 7' 6.' 1>?'<>' =4.0.' 7# ?' >.' >.?4 >6' ; :.1; :.<5' '' 6 '5\6.<7.18' Q.' >. / '<>.' =4.' ,<' / .77.' 641' / ,<' ; ,<J#' = .Q.' < . , J :.' ?,41' .71.' . <?5,V#., / 4.' / 7' 1.% #.6' ?1,?,6 7 ,<6' 6,<7' '>,?7#. %

% ;6 <.4< .16' 6,4<.7' .<6457.' '' 5'' >.5 0.1'7 ,<' 5'' 64 7.' >4' ?1,Q.7' >.' >. .1.7' 641' 5'' ?,5 ;.' / 4< ; ?'5.I' 5.6' '17 ;5.6' 64 -'<76' 6,<7' >. .1.7. 6N

'' % .' 1.E4 '>.6' 6.; ,416' .7' 6.1- ; .' 1.= 6' ?'1' 5' ?,5 ; .8' .<' ;'6' > 5<; .<> .' ,4' ' 71; 6' E5.' 4@;45' / 7.4@8' 6.1'' ? <' ?'1' 4<.' ' / .<>.' >4' =4'17>.' 5'' ; ,<71 047 ,<' / ,075 .1.8' 6' <6' =4.' ' / . >.' ?4 66.' #71.' '4 >.66,7 6' >.' %' 5 -% $

'' % .' 1.E46' ,4' 5'' <.J5 J.<; .' > ,0>1' '' 5'' 6, ' ' / '7 ,<' >.' 1.?'1.1' ,4' >; / ,571' 5.6' .> E ; .6' / .<'Q' :7' / <.' 641' 5'' -, .' ? 05 = .8' 6.1,<58' ,471.' ;6' E1' 6' >.' 5'' >. / ,5 7 ,<' ,4' >.' 5'' 1.?'1'7 ,<' >.' ; .6' 1>5 ; .68' ?4< 6' > 4<.' ' / .<>.' >.' c'' ,7 5' >.' 5'' ; ,<71 047 ,<' <,0 5 ;1.8' 54=4.55.' / .<>.' <.' 4,411'>71.'4 >.66, 6' > .>5 %

'' ''% <' ;'6' >.' 1 @.' ,4' > 6?47.' '-, ;' ' / .47. / .<7' >4' ?.4?5.I

55' ;'6' >.' -, .6' >.' E' 7' ,4' - ,5.<; .6' ;J.1.6' >'06' 5.6' '66. / 05>.6' .7' 5 .4@' ?405 ;68' .<' ;'6' >.014 7Z' .7' '771,4' ?. / .<56' <, ;741<.6I

3$$2' >.6' 71, 6' ?1. / .1.6' ;5'66.68' < .<7 , / %>6' .<' '15 ;5.' 8' .7' ; .4@' >.' 5'' ?1. / .1.' ;5'66.8' < . / 1,%, ' <; 6 7' ' / > / .' '17 ;5.8' ' ,<7' .<' ;7'7' >.' 71'-< 55.18' 6.1, 78' 75' 65'' ?1. / .1.' 5, 68' 1.<-,V.6' ' 5''?,5 ; .' ; , ' 1.; , / .5 .I' %

(''+ ,.('' '(. *,' 3 *-+ *-'' ',$*('+ (*-(' -' ,$(.'

>.5.4 1' . ,<71 047 ,< / ,0 5 E. .8 Q=4.55.' <.' ? , 4 / ' >71.' '4 >.]6,46>.' '7 -%8 .7 ? ,411,<7 64 - '?7 5'' J1' - 7.>4' ;'68 '' 4<.' .<7 ,<'>.'71,]'Q,416'>'<6 5.6 ;' / ?'J<.6 .7>.' :4 5d>'<6 5.'' - 55.6%

,<6 ;.4@ =4 8 '?1E.6 4 .' ?1. / .1.' ; ,<>' / <'5 ,< ?1,<,<;. .'?'1 '?,5 ;.' / 4< ; ?'5;8 6.'1.<>1< .<7 .<M ; ,1.' ; ,4?'05.6>.' 4<'>.6>7 5 56 ; >.66468 6.1,471.< ' ,V.6 '' 5'' ?,5 ;.' ; ,11. ;7 ,<<.55.%

" "% <' ;'6 > .@?,6 7 ,< .< - .<7'' >.' ; , / .67 05.6 J 7.68 ; ,11,< ? 6,4<4 6 0 ;68 566.1,<7 ; ,<E 6= .6.7 >.71 768 .7 5.' > > <=4'<7 ; ,<>'7<<.' '' 4<.' ' / .<>.'>4 7 .16 >.' 6'' ; ,<71 047 ,< / ,0 5 : .8 5'=4.55.' ' / .<>.' <.' ?,411'' E 71.' '4 >.66,46>.' ' B-8

" " % 7' ;'6>.'1.<7.'>.' / . > ;' / .<76 J 7.68 5.'> ' 5 <= <<7 6.1'' 1.<-,V>' '' 5'' ?,5 ;.' ; ,11. ;7 ,<<.55.' .7 ?4<'>.' ' 5 1% > ' / .<>.8 .7 > 4< . / ?1 6,<<. / .<7 =4 ' <.'?,411'' .@; .>.1 6 @ < , 6%

" " % <' ;'6 > ?5 >.5 7>'>.6?, >6 .7 / .6<1.6 >'<6 5'' 1.<7.'>.6 >.<1..6 .7 '471.6 ,0Q.76 =<'6.'>>0 7.<7 '' 5'' / .6<1.8 ' '< ?, >6 ,< '' '4<.8 5.6 *% - ? , >6.7 E' 66.6 / .6<1.6 6.1, 7 ; ,< 6=<.6 .7 01 6. 68 .7 2%# / .<>.'6.1'8 ?,41 5'' ?1. / .1.'E, 68 >.' ' 5 -1.6 '4 / , <68 .7 >.' 5'' / , 7 .'>.'5'' ; ,<71 047 ,< / ,0 5 >1.8 6' ; .57.' ; ,<71 047 ,< .67 >.' ? <6 >.' C>,'5 1%

" " % 0.6 >.5 <=4'<768 '4@ 7.1 / .6>.' '17 ;5.'?1.M ; .>.<78 6.1,<78 .< ,471.8 ; ,4>' / / 6 '' 5''>.7.<7 ,<'>.' ?,5 ;.' / << ; ?'5.8 .7 .< ;'6>.'1. ; > - .'5.6 ?1.1.<46 6.1,<7 1.<1,V. 6 '' 5'' ?,5 ; .' ; ,11. ;7 ,<<.55.%

" " % .6 - .<>.4-6 ; ,<1< <;46 > '1, 1 71, / ?.' ' 6, 7641 5.'5 71.'>.6 / '7 .1.6> ,1 ,4 > '1J.<78 6, 7641 5'' =4'5 7>'> 4<.'? .11.'E'466.'1.<><.?,41 5 <.8 6.1,<7 1.<1,V.6 '' 5'' ?,5 ;.' ; ,11. ;7 ,<<.55.%

" " % 34'<7 U ; .4@ =4 ' 6.1' .<7 ?1>1.<<6 > '1, 1 E'01 =4.8 E' 7 E'01 = .1 ,< . / ?5,V.'>.'E'4@ ?, < ,<68 / '1=4.' ,4 E' 7 / '1=4.1 >.6 / '7 .1.6> ,1,4 > '1J.<7 '< >.66,46 >4 5 71.' '<<,<;>'?'1 5'' / '1=4.8 566.1,<78 >.6 5'' ?1. / .1.'E, 68 1.<1,V. 6 ?'1 4< / '<>'7 > '11;7 >4 Q4J,'>.' ?' @ >.1%'<7 5.'Q41.'> ' ; ;46'7 ,<8 Q, J;68 6 5 V '' 5 .48 6; ,< 5''E,1 / .' .7'05 .' ?,41 1 <6714 ;7 ,< ;1 / <.55.8.78 6 56 6.<7 . ,<1' <;468 ? 4>6 >.6?. 4.6 >7'05 .6 >'<6 5.' ; ,>.'?.<'5%

" " % ! .4@ =4 ' <.'?' .1,<7 ?'68 >'<6 5.6 71, 6Q,416 <71.' %5.' ;41.'> B, / 0,41J .7 ?546 .416 '471.6 ?.1 ' '' &5'7.1 >.'5'' 6 J< 5 ; '7 ?< >4 Q J. <.<78 ' / .<>.?1, ' <,<;&9 ., <71.. @ I V6.1,<7 ; , 71' <7 ?'1 5.6 1, .6 >.' >1, 7N <.'< / , <6 5'' ; ,<71' 7.'?'1 ; ,1?6 <.' ?,411'' ;<71'E .1 =4 4<.>.7.<7 ,<'> 4 ' / , 6'' .J'1>&E.' ;.4@ =4 '6,<7 '06,54 / .<7 <6,5-'05.6%

" " % ,47.6 5.6' / .<>.6 .7'05 .6 ?'1 5.'?1.6.<7 >.;1.7 6.1,<7 >,405.6 .< ;'6 >.'1. ; > 1.I .7 7,<6 5.6 Q J. / ;<768 .< ;' >.'1&I; > -.86. ,<7'E5 ;5 .6 '4@ 7 .G ?.<6 >.6 ; ,<>' / <. 6%

" " % ,411,<7 .71.'6' 6 6 .7 1.5.< 6Q46=4 '4 Q4 ' J. / ; 7 7,<6 ; .4@ =4 8 ?'1 / ?14>.<; .' ,4 5'' 1'? ' > I >;5.416 ;5 .1'4@8 '41,<7 E' 7 = .5=4.6 05.6641;6 >'<6 5'' 14.' ,4 1, .' ?405 =4.8 ' 46 '=4,' ; .4@ =4 '6. ' 1' ;<5 ?1.1; 46 >.6 >.076 / .<5 ,44.6 '4@ '17 ;5.6 "5"'8" " ' ;7" "55% 566.1,<7 ; ,<71' J<'05.6 ?'1 ; ,1?6 '< ?' . / .<7 >.6 >, / / 'J.6 .5 < 1.76' <6 '=4.'>.6 ' / ;<>;6%

G - (' ' ' *& ' 8 ' '
' '0 " ' ' ' ' '

" " "% .6 1.J5. / .<76' ;7 .55. / .<7 .@ 67'<76 6641 5.' 5 71.'&5.6 / '5 7: '> ,1 .7> '1J.<78 641 5'' ->1 5 ;'5 ,< >.'5'' c4<5 7>'> .6 ? .11.6 E / 6 .7 E'466.68 5'' 6'5401 7.' 7 .6 ; , / .67 05.6 .7 >.6 / . > ;' / .<768 ; ,<7 <4;1,<7 > >71.' ;%WG;47. 6Q46=< 5 ;.' =4 5 .< ' 7 .7; '<71. / .<7 , >,<1 .8 55 .< 6.1'' >.' / <.'>.' ; .4@ =4 ' .7'05 66.<7 50 6 &5 6?,%6 5 ,<6 >.' >1.7.8 7' 7 ?,41 ' ;0'7 .7 5'' - .<7;'&5.6 / '7 .1.6 > ,1 .7 > '1J.<78 .7>.6 ,0Q.76 >.' ,1E7 -1;1 .8 >.6 >1,J4.68 / .> ;' / .<76 .7 ?, 6,<68 =4,' P, 1 5'' ?1>6.<7'7 ,<8 5.'>.?,7 .7 '>Q4> ;'7 ,<

>.6 .EE.76 ?1. ; .4@ >'<6 5.6 , ,<76 >. ? 5G S 5, / 0'1>6 ,4 '471.6 / '6,<6 >.' ; .' J.<1.% % %

' 3%' 7'@.'&5.6 6 06 67'<=.6 <.'(! %' (!4 , ! # 1. / .<7 ' - , 1 5 .4 >'<6 '4;4<.' - 55.' ,4 #, / / 4<.'>4 1,V'4 / .'=4.'641 5.'?' < .7 $%' - '<>.' >.'0,4; : .1 .8 '<6 =4 5 6, 7 ?.1 / 68 .< '4;4< ;'68 >.' >7.<>1.'641 5.'05.8 5.6 '471.6 J1' <68 5.' - 1 8 < ' '471.' ;6?E.;.'>.' >.<1. .8 .7 ; .8 6,46 ?. <.' >.'>.67 747 ,< >.6 ,EE ; .16 / 44 ; ?'4@%

% " " " 8 '1 ?1, - 6 ,<8 <.'< / , <68 5'' 7'@.' >4 0, 6 .7>4=: '10,< ?,411'' '-@\ 1 5 .48 / ' 66.45.1' .<7>'<6 5.6 - 55.6 '4 >.6646 >.'9 ' 1< 55.'> / .6% .6 1. ;5' / '7 ,<6 >5&E-. .6 ?'1 5.6 / '1;5 '<>6 1.5'7 - ; / .<7 '4 7'4@ >.6 7'@.6 <.'6.1,<7 .< '4;4< ;'6 >4 1.6%6,17>.6 71 0 / '4@ >.'> 671 ;78 .55.6 6.1,<7 ?,17>.6 >. - '<7 5.'> 1. ;7, 1;'>.' > 671 ;7 .7 ?'1'??.5 '4 > 1. ;7, 1;'>.'&5&G ?'17 ; / .< '=4 ' ?1,<,<; .1'' 6'176 '??;5N 5.6 1>.5' / '7 ,1 6 >.6 ?'17 ;4 ' 5 .16 . ,<71.'5.6 / '1; :'<>6 =4 ' - .< 1' .<5 '4 >.6646 >.' 5'' 7'@.'6.1,<7 ?,17>.6 .5 Q4J. .6 '4 71 04<'5 >.'?,M 5 ; .F<4 / ; ?'5.8 6'4E '??.5 '4 71 04<'5 >.'& 671 ;78

$ ' ' ' ' & ' ' ' * ' ' #

" " " % ,<6 ; .4@ =4 ' >'<6 *' ' .7 >'<6 5.6 .' / ?'J<.6 '41,<7 >7.' '11>7.6 6.1,<7 ; ,<>4 76 > 1; ; ' 7. / .<7; : .0 4< Q4J.' >.' ?' @8 5.=4.5 1.<-.11'' ?' F ' >.-'<7 5.' ; , / / 6 ' 1.'>.'&5,5 ; .' ,4% ,E5 ; .1 / / . ' ?<5 ; :'1J>'>.'1'> < 671'7 , / 5. ; .7 .?'17 .8 5,16=4.' 'EE' 1.'6.1''>. 5' . , / ?>7.4; .'>.' ''?,5 ;.' / 4< ; ?'5;%

" " " 8 ,47Q4J.'>.'?' @ > 4<.'V 55.8 >'<6 = .5 =4.' = '15 .1 =4 5 6.' 71, 4- .' ; 7'05 8 6.1'' ; , / ?.5.<E ?,41 ?1,<, ; .1 6, 5 5'' Q0.15>' >.6 ?.16?<<.6 ' / = ' <. .6% 6,17 5.'1.<-, ' ' 5'' ?,5 ;.' / << ; ?'5.8 64 7 5.' / '<>'7 > '< .<.18 ,4 >; - '<7 < 8 ,4 &5.- '<7 4<?<7H.' Q4 .>.'?' "P 6, 5 .< < .' / '<>'7 > '< ;78 7'47 .< / '7 .1.>.'?,5 ; .' ; ,11. ;7 ,<<.55.' =< .< / '7 1.' ;1 ' / <.55;8 6 ' ; ' E

<'>.' 8 5.6 6.=1;7' 1. '' E' 7 5. ;741.'> 4<.'E.771.' ><'1, < 671.'>.' <Q467 ; .8N G

5 '5.'?1.6 >.<78 5.6 Q4J.6 >4 71 04<'5 > 57E;E # ' / ,<7 '>1.66.' 5'' ?1, ; .>41.' .1 / <.55.' ; , / / .<.>.' 6, ,<.6 ?1. - . / .6 > ' - , 1 . 71.5.<4 . ,11.6?,<>'< ; .' '- .;'5.6 .<<. / 6 >.'5'' ?''71 .I Q.' ;1, 6 >. - , 1 ,46 5'' 71'<6 / .771.' .7 ?1Q.1 66. / 05. .'>.'>. ; >.1 6Q .55.'6.1'' . ,117 <47 .'4 71 04<'5 ,4 =55.< .7&' ; , / [.<;>.8,4 1.D ' V,V. .' ' 5 71 04<'5 > 15. '<6%Y

66. / 05>.'1.<-, .' 5.6 8? . ; .6 ''].6 ; , / 7. 6 >.6 1'??,176 .7>.6 1. ; : .1; : .6%

GGGN ,'64 6 . :'1J>' >.' - ,46 . , / / 4< =4.1 >.6 5.771.6 >'7..6 >. ,<68 & ;17.6 '4@ 6,5>'76 >4 1.J / .<7 ; >. - '<7 ! . - '4>'< ?'1 5.6 ,E5 ; ;16 E4J 755 6 >.' ; .' 1.M J / .<7 I ?,41 7,47.'1>?,<6.88 5.6 6,5>'76 ,47 1. / 6 5.6 ? . ; .6 '' 5'' / 4< ; ?'5 7V >.' '<=1. ; ;68 , 5 56 6,<7.< J'1< 6,<8 .7 .55.' / .< '' .<-,V.' ,<.' ; ,E .''<75 .<7 ' =4.I 4<.' .67 '>1.66.E.' '' % 7;0 / 708 > .' ' >'7&N.' &5.' ,<68 .7 7 / 01. .'>.' '40.4J.I '<71.' .67 '>1.6 ' 67 .' '4@ ; : '66.416 >.' ! . - '4>'< .7 6 J4>.'>.' ,<0.' ,E ' Q; .16%G

@) ' - (' ' ' ' \ *

F ' '?_ % + W ,46 >. - .0 ' - , 11. ;4 4<.'5.771.' >.' 8 K,4 5 V8 =4 ' - ,46 7. / , J<.'7,47 5.'1.J1.7 = 5 ''>.' - ,46 ' - , 1 =4 75>6I <,46 < ' - ,<6 ?1 6 ; .' ?'17 ' &Q4.'?'1; .'=4.' <,71.' ?1.6.<; .' <.'?,4-' 7 ?546 1 .< ?,41 5.' 6' <7 >.' 5'' H1'< ; .I <,46 - ,46 ' - ,<6 '66.0 <1,4-V 5.' >>6 1 6 < ; .1.'&5.'?'66.1 <,71.' - .' ' - .;' - ,46% ,46 < ' - .0I 6'<6 >,47.8 > '471.' '<\0 7 ,< =4.'>.'6.1 ' - 1 5.'1, 8 . .67 - , 1.'?1. / .1 6.1 / .<78 - ,46 V 6.1.Z & >E.5.6% ,<6. J<.41 ; , / 7.'> 17, 6 'V'47 ?5. < ?,4 ' - , 1 >4 1, ' .67 '47,1 6>' ' - ,46 ; ,<7 <4.1 - ,6 J1'>.6 ' .7 - ,71.'6, >.I <,46 - ,46 .<J'J.,<6 '4 <, / '><'1, ' .Y

>.'5''?'71 .'>.'-.< 1''4'?546'7 7'<,46'Q, <>1.8' 5'V' ''>.'
%1:, / .41'' ';=4.1 1%'$ ' % $

5.';:E7 '5 .1! Y5.;0<7.K ! a 8.7;%

@ ' ' ' ' 'F ' L

T $' ,<6 .41'5.';, /7.'> 15, 6'.67' '47,1 6.' ''>.;5'1.1
=4,'7,47',E5 ; .1'=4' - .<>1''5.'Q, <>1.';,<6.1-.1'6<<'
1'<J';7';,<7 4 .1'' ''Q,4 1'>.6.6''??, <7. / . 76I' -, >'
W' / , / .<78' / ,<';:.1' ;: / 70%' .' -,46' '6641.'>.1 '
P 17'>. %' 5.' ;, /7.' >.' 5'' #:>71.8' ?1. / .1' J.<7 5'
d / / .'>.' / ,<6. J<.41';, /7.'> 17, 68' .7'>.'5''?'17'
>.' % K,4 55 G8'=4.'-,46'6.1.0'E' 7',E5 ; .1'6'-,46?,4'
-.0'' / . ''-.;'-,Y6'C ' ,<' ';:'66. 5168' ,46''41.0'
6, <8' =<.5=4.'?'17''=4.'-,46'?1.< .08' >.'0145.1';.57.'
5.771.%F' & <1 7%I

66. / 05>.'>.; >.'=4 5'6.1''E' 7' '4'?1,;06 -.10'5'
/ .<7 ,<':,<,1'05.'>.8 5''>.;5'1'7 ,<'E' 7.'?'1'5.6'6,5'
>'76'>4'1.J / .<7'>.' ! 0-'4>'<%

% ' .'64 6';:'1J.'?'1'5.6' / 6'>.'5''#,<67 M
747 ,<'>.' 4< .1=4.'>.'-,46'E' 1.'5.;741.'>.'?546 .416'
? 0&I.6>,<7' 56,<7'1. / 65.6,1 J <'4@''5'' / 4< ; ?'57.%

@ ' ' ' ' ' T

$' ,<';:.1' .=4. / 8'< ''EE' 1.6'-,<7' '4' / .4@I'5.'
Q,41'.67'>.Q''7 @>8'=4, =4 5<.'6, 7'?'6'.<;,1.';,<<4'
Q.'< .<'64 6' ?'6' 46714 78' < 'V'<7' ?4' '-, 1'=4.' ; <='
/ <47.6'>'.<71.7 .<' '-.;' %' 5.' / '1=4 6'>.' ';4. 55.%'
' / ''>,<<.'',Q,41> :4' / '1.<>.0 -,46'?,41'=4'71.'
:.41.6' I' '1-# 7'7 ,<' >.6' -, 741.6' '' '>1;66.' >.'
% '00>'>.' ' <7 K;17 <'<,46' '' 4 '?.<'>;1'<J.6% & '
-.45'?'15.1'>.6'[illegible] '5 % >,<7 .@?,17'7 ,<' '' .7.'
'11> .%P' ''>>'>51;;@?;> .'4 ';, 11 .1'' %5.';, / 7.'
> 17, 6' ?,41' .< <E,1 / . % #.77.''EE' 1.'.67 / '5:. E'
1.776.'Q ,41' <,6' <> J.<76%' ,<6' E.1.0'0 .<'>.' .'?'6'
1>-.5.1'7,47;.5'''4@,E5 ; .16>.'#,5,<.5 ! .<.1'58' 76'<.'
6,<7' ?'6' 71.6' 6 16%' Q '??1.<>6' =4.5=<.' ;:46.' 8>.'
<,4-.'4'Q.'-,46'5.'E.1' 6'-, 1G .67'?14>.<7'>.6 '
1'<J.1'>.' / '4 01<' '' ' '-, 1?546 =77'7 / .77 .'5.' .>'
>'<6 .71 .1%' 68'' '-J =< 5'6.;,<E,1< / ' '1, ; %'
>1 I'6 5' 1.J, 7'>.6'<,4-.55.6'>.' ,4.<8' 5'< ''=4 '' / .'
5.6EE' 1?' ?'66.G' '% <,<' '>1.66,'NQ.' 5,J.' 'K14@.55.6I8 '\'
1B,7.5 ,V'5'$0%,' ,<' '#,<<' 7'6,46 Q ,<'-.1 7'05.'
<, / % .'7 .;1 6' E,17' / '58' ;Q 1'Q ''E' 7: ;1'4<.;:47.8.7'
''J1'<>' / '5' '5''Q' / 0.%'

8' 'I' 5'.67'?14>.<7'>.'<.'?'6'-,46' <6714 1.'
.<;,1.'>.'5''6 J<'741.%' .'-' 6' / ' <7.<'<7' -,46'>,<'
<.1'5.;741.' >.'5'' ;,? .' > 4<.'5.771.' 1,4->.'>'<6' 5''
;:' / 01%;' >.6%' ,EQ ; .16' E4J 7 E6' >4' CCD' 1.J / .<7' .7'
'> .66..8' '';.' =4 '?'1' 78' %'> 17_ I'

W ,66.<7 / .476'-,46'6,<7';,<<46I 566,<7'7,<Q,416'
5.6' / > / .68' ?416G8' 5,V'4@'.7' <>.?.<>'<76'>.6' .-.<.'
/ .<76%' ,46' '-,:6' ?1 6' 7,47.6' 5.6' / .641.6'<.;.66' 1.6'
.7' %'>.' ';4. 55.' ''? ' -,46' <6714 1.'>.'<,71.'0.5.%'d
,46'>.-,<6' ''5''0,<<.';'46.'.7' ''<,46'>.'> EE.1.1'.<M
;,1.'=4.5=4.'7. / ?68' 5.'>>?'17' ><' 1, ' 'V'<7' ?4' ,;:''
6 ,<<.1'=4.5=4.';<'<J. / .?7%' ,46' -,46' ?1 ,<6'>.'<.'
?'6' <,46' ;,<E,<>1.' '-.;' #.4@' =4' <.' -.4 ;<7' ?'6'
?1.<>1.'4<' '17' .7' =4' '57.<>; 7' 5. ' #-.<. / .<76%'
#, / ?7.0'641'<,468' <,6' 0'J'J.6'6,<7'7,47' ?1_ %Y%

% , 'I' .'>.<'<>.'=4.' ,<' / .77.'>. / ' <'2'
,1>1.'>4'Q,41'5.'?1,Q.7'>.'5, '641'5.6' / J1'<76%

#.77.'?1,?,6 7 ,<' .67' '>,?7..8'

E75% ;), 5 'N' <1'5.6' E1,<7 1.6' >4' > 8'
;, / / .'641';;55.6' >4' ,1>8' ,<';:.1.:. '6.>4 1.'5.6'
5,5>'76%' .' C ' Q4 <' 5.'> 1.;7,71.'>4'>.?'17. / .<7' >4'
,7 .7'<7' '66. / 05.8' =4'71.'6,46 ,E5 ; .16'>4'1.J / .<7'
>.'#'1;'66,<<.' 6.' 6,<7' 1.<> 6' ?,41'>.<,<;.1' 5.41'
;:.E'&c4 '5.6' . J'J.' 7'' ?'66.1' .<' 6?'J<.%' 41';.' 5.'
?1,;41.41 6V<> ;'' ;7.' ;:'1J.'>.5.'>;7 <;.1' ''7 '#'
;46'7.41' ?405 ;8' ' > @' :.41.6' >4' 6, 1'5.' >.;1.7'>.'
?1 6.'>.';,1?6' E47' 1. >48' .7' =4'71.':.41.6' '?1.6' ,E'
5 ; .1' .7' 7' '11 7>%

% 66. / :5>.' ,1>,<<.' 5.' 1.<-, ' '6.6' ;, / 7>6' >.6'
1'??,176' .7'>.6' 1;;:.1;:.6'>.' 7,47.6' 5.6' ?.;.%F' >,<7'
5'-. '> >71.'E' 5'5.;741.%
''6.'<;.'.67'5.-..' ''71,E6':.41.6%

5 00 ' ' L'LEP/'M ' ' '*9 ' ' '
$'(U';G/ $0' BW' ''4 .' +.$'/'(,'H' e$.'F'' *''4 .' ('
4+.,((*,'

D:'BEH/' +.,$3 (' ' & ' ' ' '0 ' ' '
' ' ' 0 ! +4.(''3(''$3 ,'' (''3 $ $'!'
'+$.(''-('4 $3('/' -+*'' ('' $(2' '$ 8(*+/' J'N' '
+9(*,''-('4 $3('+''($ (*,-''-.(''(. *,/'(,3

*$ ' ' ' E 'V' .-%6 $'H/' '%! '
'(,' ', ' 9(
*$9 ', $ O#' V , .- 6 $'H/'B ' 4' '
' / ' ' 0 '0 '
' . ('-(' $36($(']' * +.- $'H'
' *'B(' '3 '/,.+9--$(7(,' '5 #'
) ' ' ' $$' 8 ']' .-'H/' ' , 0 '
/'(,' '1 ' '-'2
' =' ' 3 '+ ' + +$'D 8+'
V' .- 6 $'O'! '& '' ' '- '4'(,' '5
&' ' ' ' V' $$'H/'
' ' ' #(, 0 '0 '3 ,0 ' '% 'P,'
%7' ' ' '3 !'(,' ' '[(!'
'$3 % $ 8'+*') (0+.-'- ' (4(' * .-'H/'
!' ' 0 /'(,'
&'&. (' +$*,! ,+.,$*''!!' .- 6 $'H/'
$ ' ='('
+ ' '$,& % ' ' ,8 % ' V' * .-'H/'
' , + !' 0 4'
! !4'(, [(' ' , !
E = ' + ') (0+.-' +$*,! +.,$*' V' .-'H/'
9.+*-('$ *+,'('9.+*-'#(*' - +.,$$$3('3 4 '('-('4 $ ''
* 0(('/ ,(, $* '4+.' *'9$D+*-'3 4' -('#('+0(3'), $'-('
9 (..(' '(* '+$,(' *') 5 (,' '(4,'6(.('/ ('' (2(.3$3('' -'
#+ (2 @(.(4 ((,'-(' +',. 4(/'+0(3' (' .+'-(' # .3(' - =
4(,$,' + ' *' .$2'-('')$ (,''-%(*,.(('; B $0'BI'' '/'
$ & '' '$ / . (- ' +$ /*D:'BT' V' B3('' *0(.,
'%('' .'' *'5 ',((' 6(*$D('5 '4 +$,' ' (''+) !
* ''-%8$$:+,(.' / !'M: M

: / (' ' ' ! ! ' A=

'BHTI% ' ('' +8(.''' *,' :', *,('' (, .('
' ' ' ' 'GI'% ' ,'

',(.-+ ' ' FF' 7F' +-.$-' ' ' BE'$'$X&
@+) .9' ' WPFB7W (*(' ' '
-$D(':' K %' ' ' WP $0 .(' & ' IU
+-$2' & . BE' 'BF' 8 */' , 'B[E'4
' 'G'

3,$ *'' - ' *-(''-('W) I I' $0 , ' ! %@
.$ *''-(' BGI I' 0' K' D , BFBE
V' -(C 0' U' ' ' WE$
V' -(' ' $0' ' TJ
$*4. $'-% (,) .(-('9 ' $0' K' K' FXP
,(.$(' - (,) .(' BHEP/' +'F I' $0'
$4. *'-(' -(3' BHEW/' 5*$ +,$3('-('@*
V' -('BWX ,*$ $$ *' -(3' BHEF' ' ' */'E' #[C/'P[F/H[E/'T')
V' -(' E I' $ $ *'' +0(3') (,$$ ' '
$,,+*3(' -(' *''+*'') (,$*'
F F ' ' (0$+9(.' 3,).(/' ' 7W)
'' (,$*'
'$'
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! ' '$(''
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5 66. / O5. .' ; : '1J .' 6 , <' ; , / 7. ' >. 6' 1'??, 17 6' > .' 54 '
?1. 6. <7. 1' <; . 66' / / . <7' 4<' ?1, Q. 7' > .' > . ; 1. 7' 1. 5'7 E'
'4@' <> . / < 7. 6' . 7' - > ; , / ? . 6 6. 6' ' ' ; ; , 1> . 1' ' '' ; 5 '
7, V. <6' > .' '1. << . 6' =4 ' , <7' ; , < ; , 414' '' '11. 65'7 , B'
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55; R>7 ; > .' = .' 5'' 5. 771. >4' 1, ' 6>1,' '6. 1> .' . ' . < '
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8 ,1F$$: !' !(! ' % ' ! ! ' ! ') & '
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<' > .' %5. J6. ; 1 7'5 . 6B7' 4< . ' 5. 771. ' ?'1' 5'=4. 55>'
5. 6 ; , / 7< 66' 1. 6' . < - , - > 6' > ' <6' 5. 6' >> Q '17>7' . 76' >4'
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; . 16' %W. 45. / . 7 78> '465'' J'17 6 , <> .' 55. 8' , 47' 1. E46>'
> .' ?1> 5. 1' 5. ' 6. 1 / . <7' ?1. 6 ; 1 E8' =4. ' 71, 6' ' <71. 6' , <7' > >'
6 76?. <> 46' > .' 5. 416' E , < ; 7 , 6%
' 3 ' ' ' 4' < , / ' >4' ; ? 457>' > 'J1 ; 457 1. % . 7' > .'
; , / / . 1 ; . I' 16' >> ? '17. . <56' ; < B '45' . 5' >4' K'%6 5 '
67 / 7' / Q , 41> 5 8' ? 1' 5. ' 1. ; 5. / . 7' 7 . 6' > , 4' . 6' '4@'
E1, : 7 >1. 68' ?5% ; >6' 75'46' < >1 . 41' > ' 1, V'4 / . 8' . 7' 6, '
71, 4 - . <78' ' - . .' >71' <J. 18' > ' <6' 5. 6' / > / . 6' 1'??, 176'
=4. ' 5. 6' ' <71. 6' >> ? '17. / . <76' > .' 1 7 7>1 . 418' - ' 1 71'
?, 6 7 , <' ?'17 ; <5 >1. I' 56' 1> ; 5' / . 7' > .' 5'' 7467 ; .' > .'
1 66; / : 5. .' <% 7 , <'5. I' 5D54' ; , 46. 1- '7 , <' >4' 71' <6 7'
? , 41' 5. 6' / '1; : ' <> 6. 6' >71' <J; 1. 6G8' CD 1>7'05 66. / . <7'
'7 / ' . <71. ? , 7' > ' <6' %' - 55. ' > .' 71'60 , 41J8' ? , 41' 1. ; . '
- , 1' 5. 6' / '1; : ' <> 6. 6' >71' <J>1. 6' =4 ' . <7 / , <7' > ' <6'
>' 1, V'4 / .' ?'1' ; . 17' <6' 041. '4@' 6 74>6' 641' 5. ' B '45' . 7'
5. ' K'6 : 7' I D5'' E' ; 457>' > .' 1. ; . - , 1' 5. ' 1. / 0 , 416. / . <7'
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7 1> . 6> .' >51' <J. 1?'1' >' 041. '4' > .' ' <7 , 4 68' % - . ; '
5'' > . 67 < '7 , <' 7 >71. ' 1. . @? , 171. 6' '' . 71' <J. 18' ' <1>6'
' - , 1' >7>' ? . 7. 6' > ' <%6' 5. 6' / ' <4E' ; 741. 6' >4' B '47 K : <%
#; Q ' 71, 6' , 0Q. 76' > .' > . 4 ' <> .' 6 , 7 58' 5' . 67' - 1' 8' 4< .' . %@'
; . ?5 , <' '' 5'' 5, ' J> <> 1' 5. 8' / '56' 5. 6' 1'56, : 6' = ' ; 6' < , '
7' - . <7' , 47' ?'14' J66. 0' ?4 66'7 7. 6' U - , 71. ' ; , / 7>I' E'6 . 67'
, < - ' 7 ; 4=4.' ; J' 5 7>6. d'' 7, Q , 416' 5. _5; E<^. 1' 1>645 '
7' 5' > .' ; . 77.' >J. 1.' > EE>1. < ; .' >7' 05 .' ? , , 1' 5. 6' 75, 4' < . 6'
> 4< . ' 5, ; '5 7>' ?'17 ; 45 >1. %8' . ' - ' 6' . @' / < . 1' 6>?'1> '
% / . 777' 5. 6' 71, 6' , 0Q. 76%
'' - 55. ' > .' 71'60 , 41J' . ' 71, 4 - . ' 6 74> .' '4' / 5 . 4' ''
? . <' ?1. 6' > 4< . ' >7. < ; 54.' > .' ' B. 4. 68' > , <7' < .' . @71. '
/ 7.' >> 0 , 4 ; : .' '4' '5'7 < '7' ?'1' 5. ' 041. '4' > .' K456 '
: . / ' 8' . 7' '471. ' 7, 4 ; : .' '' %' 4 66. ' ?'1' 5. ' 041. '4' > .'
' <7 , 4 6%' .' : ?' ?'1; , 4178; . 77.' >7. <> < .' >% <6'
7, <7. ' 6'' 5, <J4. 418' . 7' 6. ' 71, 4 - . 8' ? , 41' ' <6' > 1. 8' . < G
E. / >' . <71. ' > . 4@' 1, 47. 68' > , 777' 5 / .' . 67' 641' 5. 7. 11 G'
7, 1. ' E1' <J' 6' . 7' '471. ' ?'66. ' 641' 5.' ; 11 5, 1. ' '55. '
/ '?>I' 7, 47. 6' > . 4@' ?'17. 7'' ? . 4' ?1. 6> <' / > / . ? , <78'
> .' ? 1. 8' . 7' '0 , 47 66. <7' '' K>5; %' .' / 5 . 4' >4' E5. - .'
6. 17' > .' 5 / 7.' / 4' > . 4@' ?4 6' < ; . 6% # . 77.' ? , 6 7 , <' E' 7'
6. <7 1' > .' =4. 55.' / ? , 17' < ; .' 5' . 67' > .' ; , < 6. 1- . 1' 641' 5''
1 - .' . 7' 641' 5'' 1, 47. ' E1' <J' 6.' 5. ' 71' <6 7' 1> ; ?1, =4. ' > . 6'
/ '1; : ' <> 6. 6' > 55. / 'J< .' . 7> .' 4 66. %' .' ; , / / . 1. >'
< , 7 , < '5' < .' ? . 47' =4 . <' >71.' - - 5 >8' 5.' 4 / >1, 1. '
>71' J. 1' '11 - .' . 7' 1. 67.' > ' <6' 5. 6' ; , / / 4< '45. 6' 1 - . ' '
/ < . 6' ?'1' 5'' ; , < 6 , / / '7 , <' > . 6' > . <1> . 6%' . 6' : 'O 7' <76'
> .' ; . 6' ; ' <7, <6' 6 , <7' '6641>6' > << '>> 0 , 4 ; : .' ?>1 , > =4. '
> .' 5. 416' ; , / . 67 05. 6' . 7' > .' 5. 416' E , 411' J. 68' # .' ; , / M
/ . 1; .' > ' .416' '77' ; : .' '' 5'' H1' < ; .' 4<' < , / 01. ' ; , < '
6 >> 1'05.' > .' - , 7 1 . 16' . 7' > .' O'7. 5 . 16' =7 8' . <' ' > .'
J4. 1 . 8' > . - . << . <7' 44. ' 1; 66, 41; .' ?1> ; . 6. ' ? , 41' 5.'
71' <6? , 17' > . 6' - - 1. 6' . 7' > . 6' / 4< 7 , <6%' ' , <' < .' E' '
1 6' 7' ?'6' 5. ' 71' <6 7' . <' . 7, 41' <7' > .' 7, 47. 6' ; 6' ?1. \'
; '7 7 4<6' =4. ' 5'' ?14> . < ; .' ; , / 7<'4 . 8' < , <' 6. 45. / . <7'
, <' ? . 1>1' 7' 4< . 01, 4 ; : . > .' . , / 1' ; 1 ; .' . 6 / ? , 17' <7. 8G'
7< ' 68' . <' . E' 6' <7' ?'66. 1' ' '471. ' 1 - . >4E 5 48' < , 6

/ ' / E<;7< -6 6.1' .<7 /E Q '.6 > 4<.' <71,>4;5 ,<
E1'4_ 5; 6.'>.6 / 'E;:'<> 6;6 >71'7 J. .6% '6.1''E'M
; 5.'>.'641-. 55.1';.6 / '1;:'<> 6.6 641'5''1,47.'E1'<'
;' 6.I'641'5''1 -.',??,6..;55.6 / .<'..1' .<7 7,4Q,416
<,6 <1'<4E';E 1.68 <, / 01.46.6 6 44,6 746 >4 : <
114>'45'5''E1'4>.'71 6 E'; 5.8

.6 .<71.?,768;,46 >.1.66,465. 6?546J1'<>6 1'?M
?,176'.7 > 671 5 / >6 '-.;'6'J.66.'>'<6 ;.17' <6 5 .4@'>4
1,V'4 / .8 ?,411' . 7 ,EE171'>.'J1'<>6 '-'47'J.6 =4'
6.<7 > J4.6 >.'E @.1'-,71.' '77.<7 ,<I' ?.47 >71.'1;4'
>1I . 7 56 447 5;6 ;6 E1'<;: 6.6 >.6 ?,<76% '68 .<
5' 6'<7 '4@'5.J 65'741.6 61>1'<7.6 '' '??1,E,<> 1;.57.'
J1'<>.'=4.67 ,<'>.' ;, / / .1;.' .7 > .,<, / .'?,5 7 M
=4.8 -,71.' ;, / 5>' <.' ;1, 7 ?'6 ;.?. >'<7 >.-, 1'
> 5E.1.1'>.'-,46 ?1,?,6.1'1.7'5 5 66. / .<7 >'4< .451.'
?E 5'>'<6 5'' - 55.'7 .' 71'60,41J'?,41'5.';, / / .1;.'>4
BI / 7 .7 >4 K'6 K5 <8 ?'1;.'=4 5 .67 4<.'64 7.' <> 6M
?.<6'05.'- '71'<6 7 >, 7Q;'-,46 ''>; / ,<7 .' 45 5 7.%
5'6.1'' E'; 5.'>.'>.514 1.'64;;.66 -. / .<7 5.6 <;, -.'
< .<76 =< ,<'?,411' 7 '?.1;.-, 1'>'<6 ;.7 .<71.?,78
?'1'5.6 ;,<> 7 ,<6 =4 ,<'?.47 .@ J.1'?,41'5.6 .@QQ.> '
7 ,<6I' '<';,<71' 1.' 5 7.'67 ' 7 ?'6 E'; 5.'>.'1'??.5.1'
5.' '05 66.< .<76 =4 '6.' E,1 / .1' ;47 1'?>. / . 7 ''
a ; :58 '55 ?1.Q4> ;.'>4';, / / .1;.'>.'5'' <'7 ,<%

,46 -.11.0'>'<6 5.'?1,Q.7 >.'>.;1.7 5.6 ?1.;'47 ,<6
=4.%<,46 ?1,?,6,<6 ?,41' / .771.' .#6 <'1.0'4> 6.6
6,<6 4<.'>,405.'641-. 55'<;.'=4'1.<>1''5''E1'4>.' / M
?,66 05.8

' / .'1.67.'4<'>.1< .1',0Q.7 '' -,46 6,4 / .771.8 . .67
5''5 0.1 .'> <71,>4 1.';<'.@. / ?7 ,<'>.'>1, 76 5.6 7, M
5.1'05'<;:.6 >.';,5,<8 .71'4JE.1.68 =4'- .4>1,<7 >'<6
5.6 / '<<E';741;6 >.'7, 5;6 ?. <7.6 >4 B'47 57 8 ?,41'
V1.;.V, 1' 4 =4; / .<7 / ?1.66 ,<8 .7 1.7,41<.1'' <6'
'' >51'<J.18 4,<#.1'' 7 6'5''=4.67 ,<' . .67 >. / , '
71.1';5' 1. / .<7 =4 5 6 'J 7 4 =4. / .<7 >.'?1>7.1'<, 1.'
<>4671 .8 .7 > . '1.;.-, 15.'?1 @% ' .67 6.<6 05.'=4.'
%<,46 '-,<6 5.' ?546 J1'<>' : 7.1.7 '' ;,<6.1-.1' ;.75.'
/ ' < > ,.4-1.%

5'<.'6 'J 7 >,<.'=4.'>.'?1.<>1.'5.6 ?1.;'47 ,<6 <'
> =4. .6 >'<6 5.'?1,Q.7 >.8 >.;1.7 64 -'47%

! & 'HOIJ'1,47.6 / '1;:'<> 6.6 .71'4J.1;6 < ?,1'
7>.6. ' 56';.8 ?'1'5.'?,47 >4 4',4'> 1;;7. / ; 7 ''
71'60,41J'?'1'5.' 0 ',4'?'1'5''1 - .1.'> 5558 6;1, 7
;,<>4 7.6 ''5''>,4'<.'6'<6 '4;4<;' -.1 5 ;'7 ,<8 6,46
.Q#,17.'>.'>.4@'?1.?,6.6 '5''^/ ;.'>4';, / / .1;.'
.@5 1 .418 >E5 / ;<7 ?1>-.<46 ?'1'5.6 -, 7 1 .16 .7 0'7.'
5 .16I'.55.6 V6.1,<7>.;5'1..6 ?'1'.6?.;.8 ?, >6 ,4'=4'<'
7 7.'8 .7 >.?,6..6 >.'64 7.'>'<6 477 / 'J'6 <'?'17 ;4'
5 .18 6,46 5'';5.E 1.6?.;7 -.' >4 ?1.?,6.'>.'5''1.J .'
>.6 >,4'<.6 <'7 ,<'5.6 .7 >4 ?1.?,6.'>4';, / / .1;.%

% .'<>J,; '<7 ''=4'5.6> 7.6 / '1;:'<> 6.6 ' 1,47
>7>' '>1.66..6 6.1''7.<4'>.'>.;5'1.1'>'<6 5''&? <O'<.'
>.'1'11 -..8 ?,41'5.6 ,0Q.76 >.'<44 / E';541;' .7 E'01 '
=4.'.71'<J 1.68 .7 >'<6 >.4@' / , 6 ?,41'5.6 >1,J4.'
1 .6 .7 .? ;.1 .68 .7 '471.6 ,0Q.76 <,<' / '<4E';741. 68
5.6 =4'<7 5.6>.' / '1>4 / > 6.6 Q4 5 -,4 51''E'1.'.<71.1'
>'<6 5'' ;, 6, / / '7 ,<' >4 1,V'4 / ;8 .5 ;1 0 6 =' 5
>.67 ;1'' '' E' 1.'?'66.1'' .71' J;1'.<'71'<6 7% '';'
=4 77.1''5.6 >1, 76 >4 <,4-.'4'7'1 E 641'5.6 / '1;:'<'
> 6.6 >.;5'1..6 ?,41'5.'1,V'4 / ;8 .7 6# Q'7. 4'>.'5.6
1,7 E.1''466 7 >7'.5'. 71.?,7% .6 '471.6 6.1, 7. 71.'
?,6..6 >'<6 ' / 'J'6 <'6.?'1>'> ,4'. 5.6 <.'Q ,411, -7
>71.'1;7 17,'=4.'?,41'71'46 7.1'' .71'<J.1% #.' / 'J'M
6 <'6.1'' .J'5. / .<5 6,46 5'' ;5.E 1.6?.;7 -.'>4 ?1.?,6.'
>.'5''1.J .'>.6 >,4'<.6 <'7 ,<'5.6 .7 >4 ?1.?,6.'>4
;, / / .1;.%

% '' >41..'>.' .<71.? 78 '' ;, / ?7.1'>4'Q,41'>.'
'11 - ..8 7.'?, 11'' .@;. .1'67''' < 68 '' 1.@? 1'7 ,<'
>.6=4.56 5.6 '1;:'<> 6.6 =4'< '41,<7 ?, <7 >7.'.@'
?.> ..6.<'71'<6 7 ?,41' .71' J.1'V 6.1,47.<-,V. .68
6'<6 ?,4-, 18; '4;4<';'68 >71.'1.7 1..6 ?,41'5'';,4'
6, / / '7 ,<'>4 1,V'4 / .%

% .6 ;,<>4.7.416 >.6 / '1;:'<> 6.6 .71'<J.1;6
=4'6;1,<5 ?1.6.<7..6 '4 041.'4'>;' 4565 ; /' ,4'>.

'<7 ,4 68 ?,41'?'66.1'' 71'60,41J'6'<6 >.67<'M
7 ,<'& @.8 6;1,<7 7.< 6 >.'>. ;5'1.1 .<, / 01;>.6.,5 68
5.'?, >6 >.;5 ';4<'.7 5. 1';,<7. 4% '> 7.'>.;5'1'7 ,<'
6.1''-.1 5 ..8 '?1.6 =4, '5.6 -, 741.6 %641'5.6=4.55.66.'
1,<7 5.6> 7.6 / '1;:'<> 6.6 6.1, 7 ?5, / 5 ..6 ?'1' A'
' .7 5.6 / '1;:'<> 6.6 .@?.> 7.68 ?'1'';=4 7 ''
;'47 ,<8 ?,41' .<51.? 7 >.' 71'% 0,<1J',5 .55.66.1,<7
1.;,1< .6% .6 < J,;' 76 '' =4' . 5.6 ' 1,47 7.'
'>1.66. .6 '41,<78 ?,41' .<'> 6?,6.18 5.6 >.5'6 E@.6
?'1'5.6 '17 ;5.6 '.7 '44@=4.56 56 6;1,<7 7. 46 >.6.'
;,<E,1 / .1%

% .6 / '1;:'<> 6.6 =4'6,17 1,<7 >.' .<71.?>7 >.'
71<6 ,41J8 ''5''>.67<'7 ,<'>.' .51' J.18 6.1, 7 .@'
?.> ..6 ?'1'';=4 7 '';'47 ,<8 =4'>.-1''.71.>.;:'1J.8
'?1.6 -.1 5 ;'7 ,<8 >'<6 5.6 041.'4@'>.' 56:. /' ,4
>; ' <7 ,4 68 5,16=4 .55.6 6.1, 7 -, 741..6 ?'1'
7.11.8 .7 ?'1'5.6 041;'4%@'>.' B445 . 8 ,4'>.' .4:,E'
E; 8 ,<'>.' ! ' 70' 8 5,16=4 .55.6 6.14<7 ;,<>4 7.6 ?'1'
5''1 - .1.'> 555 ?,41'>71.'71'<6?,10 .6 ?'1'5.' : 4% 8

% .6 / '1;:'<> 6.6 -.<'<7 >.' .51'<J.1'.5 ?1.M
6.<7..6 '4@'041.'4@'>.' 56 ; /' ,4'>.' 8 7 ,<68
?,41'?'66.1'.<'71'<6 7 cP'1' 56';.8 6;1,<7 .J'5. . 7
>.;5'1..68 - : 5 ..68 ?5, / 0.;68 ?'1';'?'; 7.'>.'-, '
7 1.8 .7 .@?.> ..6 ?'1'';=4 7 '';'47 ,<8 ?,41'>71.'1.'
?1.6. 7;.6 '4 041.'4'>.'6,17 .8 , c ';=4 7 '';'47 ,<'
6.1''>.;5 '1J.%

% '<6 5.' ;'6 ,4'4<.'?'17 .'>.6 / '1;:'<> 6.6
?1.6.<7. .6 ' @> 76 041.'4@'6;1' 7 >.67<. .'?,41'5.6
& ;?'17. / .<56 >4 B'45 .7 >4 K'6 5 <8 .7 5.'641?5F'
?,41'?'66.1'>1.;7. / . 7 '' .71'<J.18 5.6 ?1. / .1'
';=4 57;1' .<7 5.6 >1, 76 '4 041.'4'> .<71..8 5.6 ''
71.6 6.1' .<7 .@?.> .;6 ?'1'';=4 7 '';'47 ,<'=4'6;EI'
>.;:'1J.''4'>.1< .1'041.'4'>.'6,17 .%

% .'71'<6 7.7 .<71.?,78 ';;,1>.6 ?'1'5.6 '1'
;5.6; >.6646' @' / '1;:'<> 6.6 .71'<J.1.6 =4'?'
6.1,<7 641'5.6 >.?'17. / .<76 >4 B'45 .7 >4 K'6 :'
'41,<7 .J'5. / . 7 5 .4 ?,41' ;.55.6 =4'6.1, 7 <?,'
7..6 2 '1'7;'041.'4'>.' '1J4. / <;68 .7 ?41'5.6 '47'
041.'4@'>.6 >4?'15. 4. 76>.'5'' .417:.'.5'>.'5'' '
6.55.8 '466' ''5''>.67<'7 ,<'.714<J.1;8 ''5'' ;:'1J.'?
;.4@'=4' .@?.> ;1, 7 5.6> 7.6 / '1;:'<> 6.6 >.'1. / '
?5 1'5.6 E,1 / <5 7>6 ?1.6;1 7.6 ?'1'5.6> 76 '17 ;5.6%

''% .'71'<6 7 <.6.1'' '664Q.77' '' '4;4<'>1, 78 / '6
5 ?' .1''5.6 E1' 6 >4 ?5, / 0'J.I' .7 5.6 1''J'6 <6 >.<'
71 >7%=4 '6.1,<7 ;7'05 6 '' 71'60,41J'6.1,<7 E, 1 6
'4@'E1' 6 >4;, / / .1;.8 =4'?' .1''>J'5. / .<7 6.6 ?1.M
?,6.6%

''% .6 .<71.?1.<.416 >.' / '<4E';741.6 >.'7, 5.6
?. <7.6 5 7'05 .6 ';74.55. / . 7 >4<6 5.'>.?'17. / .<7 >4
B'47 : <'Q,4 1,<7 >4 1. / 0,416. / .47 >.6 >1, 76 >4
,4-.'4'7'1 E =4 6 '41,<7 4;=4 77.6 641'5.6 7, 5.6 >.'
;,5,<'05'4;:.68 7 1..6>.' .71' J.1' ?'1'5.'041.'4'>.'
5 47 ,4 68 ?,41' 71.'?. [7.6 >'<6 5.41' / '<4E';741.8
.5 1..@?,17..6 '' .71'4J.18 .<'6.';, >,1 / '47 '4@'E,1'
/ '5 '?1.6;1 7.6 ?'1'5.6 '17 ;5.6 64 -4<76%

'' ' .6 7, 5;6 =4 ''41,<7 ;.77.'>.67<'7 ,<'>.-1,<7
'4' / , / .<7 >.'5.41' <71,>4;7 ,<' X71.'>.;5'1..6 ?,41'
#.55.'>.6 / '<4E';741.6 >4'>.?'17. / .<7 >4 B'47 : <'
4'5'=4;55.'.55.66.1,<7 >.67 4;.6%

'' ' .'1. / 0,416. / . 77 >.6 >1, 76 = .55.6 '41,<7
';=4 77>6 <.'?,411'' 6 .5E.;74.1'=4 '47' 7 =4.';;6 5, '
7.6 < 441, 7 ?'6 ;:'<J.';5.' / ' <8 =4.'1.@?41747 4<'.<'
6;1' E' 7.'>'<6 ' / ..'?'1'5.'041.'4' >.' ' 7 ,4 68
.7 =4 .55.6 6.1,<7 ';;, / ?'J11,.6 >.' ';=4 7 >.'?' .'
4. 7 >.6>1, 76 > .<71. .8 5.=4.5 6.1''.<5'1J.''.:'=4.'
.@?.> 7 ,<' ?'1'5.'1.;.-.41'.5 5.';, 51, .418 ?,41' ;6
=4'45 7.6>4 7 5''6,17 .''41'';7.';,<67'7;.%

''555% .6 / ' 4E';741.6 ';74.55. / . 7.7''05 .6 >'<65.'
1,V'4 / .8 =4'Q467 5 .1, 7 '-, 1'5.6 / .< .6 0.6, 6=4.'
;; 5;6 >4 B'47 : <8 ?,411, 7 Q, 4 1'>4'4 > / .'-' '
7'J.8 / ' 66.45.7<;47. '-.17 '>'4 .'5, ' ,4-.55.%
#.'?1,Q.7 >.'>.;1.7 .67 '>,?7.%

% 'V.<'5 7 5''1.>';7 ,<'>.5 < 7 -.'>4'>>;1.5';,<'
..1<'45 ;6 / . / 01.6 >.'5''; >.-'<7 '66. / 05.'J,DG

[illegible]

>'K '14< ,<'?,41'5">.E.<6.;,< / <.8' '-'<7'J.8'
8 " 71'<=4 55 7.' .67 5.' 0,<:.41' >.' 7,46% 466' H 5'<'
J .1' ' 5 5 Q4> ; .46. / Z<7 ,06.1-9' =4.' 5" <'7 ,<' <.'
E. ' 7' =4.' >.E.<>1.'5.6 ?1<; &\.6 >.' 5" 467 ;.' ;7 >.'
<5.1 7 J.<.1'58 5,16=4 .55.' '<?.5' 7 "6,<'6.;,416 5.6
.<E=<76 >.'5" ?'71 .I 5,16=4 .5 .'5.6 ,07 J.' 7 > '1 / .1'
5.416 01'6 ?,41'5">.E.<6.';, / / 4<.%
<' ; 7,V.<' " -.;4' ?.<>'<7 >.' 5,<J4.6 '<<. .6"
'01'>.6 5, 6 =4 ',<7 ?1,7.J.'6"?.16,<<.'.7 6.6 0 .<6I
6.6 '66,; .6 ,<7 / 55.' .7 / 55.'E, 6 .@?,6.'5.41' - .' .7
?1,> J4.'5.41'6'<J' ?,41'>.E.<>1.'6,<' 0.1;.'4I 7,47
" ;,4? 7'7 .67 71,405>8 6" 5 0.17>' .67 .<'>'<J.18 5"
6,; >7>' -"6.> 66,4>1.' .7 5" ?'71 .'6 '<>'<7 18 .<7.<'
>1 .@ E,46 '5,16>.'6'<J E1, >' ;.7 :,1' / .'-,46 > 1.'N
' .<7.<>4' - -1.6,46 5<.';,<67 747 ,<' 5 01.8 Q.'-,46
'0'<>,<<.''4@'>'<J.16 =4 ' -,46 / .<';.<7I '<' 6 6'
-,46 1.7'05 66.0 5" ?' @8 5.';'5/ .' .7 5" 6751.7.8 Q.'1. '
- .<>1' '?,46 5,16 Q,4 1 1'<=4 55. / .<7 ?'1/ '-,46 >4'
0 .<E' 7 >.' -,6 5, 6Z '-.0 -,46 ?'6 "1.?,<>1."
;.4@ =4 ' -,46 7 .<<.<7 '4Q,41> :4 '4<' 7.5 5'<J'J;'N
.'-,46 '' ?1,7.J.68 >.E.<> 68 -,46 >.-.0 >,<.' / .'
?1,7.J.1' .7 / .' 5.E.<>1.'" -,71.'7,41Z .' -,46 ''E' 7
- -1.'>'<6 5.';'5/ .' .7 5" ?' @8 -,46 <.' ?,4-.0 / ''
0'<>, / .1' >'<6 5.' ?.1 5I Q ''>7>' 5.' J'1'<7 >.' -, 1.'
?.16,<<.8 >.' -,71.' ?1,?1 .7.8 >.-,6 >1, 768 -,46
>.-.0 >71.'>.6 / .<6%
.6 / '<>'7' 1.68 >.6 '66,; E.8 =4, =4.' 5 01.68 ?'1'
5"<'741.'>.'5.416 ;, 7''768 >.'1, / ?1.' .7>.'> 66, >1.'
'5.416 .<J'J. / .<768 <.'?.4-.<5';.?.<>'<7 5.'E' 1.'>'<6
>.6 ; 1;, 67' ;.6 54'57.<>4.68 >'<6 >.6 7. / ?6 ;, '
71' 1.6 .7 <,??,154<6% .'6'547>.'7 7'7 <.'?.47 5'?'%6
'?546 E,17.' 1' 6,<' Q467 .1' 4<.' ,'>,4;.8 / ,>.1. '
.7 1.671. <5.' '4@ 6,456 ;'6 >.'1 / ?.- .46.'<.;.66 7.Z
' ;;57.'5, '< .@ 65' 7 ?'68 6.1' 7 5 7. / ?6 >.'6 .<' ,; '
;4?.1' >'<6 4<' 0.6, <' .@71. / .Z .' ;,1?6 5.J 65'7 E
?,411' 7 4 >71.'?'6 1>4 I ;7 = '<> 5 5.'6.1'Q78 5">6 '
;466 [8 5.6 & ??,6 7 ,<68 .6 01 J .68 5.6 ;, / ?5,76
?,411' <7 .5, J<.15. / , 5 ;<7 47 5.%#.77.'5, '>, 7>,<.'
.@ 67.1'>'%<6 -,71.' ;,>.' ;, / / .'4 .'5, '>.'?1.;'47 ,<8
;, / / .'4<'>.Q >7 ?1. . .4"8 ;, / / .'4<'J'J.8 '6641.'>.'
,71.':0.17.';,<71.'7,46 5.6 Q-.4. / .<76% , ;'5.'?1,Q.7
>_8>.;1.7N88Q8N% A A% 8 % ' %
. ('5,1% ,47. ?.16,<<.' .<' H1'<;.' " 5"E';457V
>'55.1''>.'-. 18 0'0 7.1' .<' 7,47 5 .4' >4' 1,V'4 / .Q
>.<'6,17 1';7 > V 1.<71.1'' -,5,<7.% %
% % ' ;,1?6 >J 5'7 E ?,411"8 5,16=4.'5" >.E.<6.'
. W'6>1.7>'>.' 7'7 5.'1.<>1,<7 4.;.66' 1.8 ,1>,1 / .1'
"7,46 5.6 ; 7,V.<6 E1'<;' 6' ' .7 " .4@6.47. / .<78 >.6.'
7. 1' ?1976 " >,<<.1' " 5" ?'71 .'5.6 6.;,416 .@71' ,1 '
> <' 1.6 =4.' ;0';4<' > .4@ 54 ' >, 7% #.'>.;1.7 6.1"
64 - '> 4<.' ?1,;5' / '7 ,<' >4' 1, 8 ?,41' .<' ,1>,<<.1'
1.@.;47 ,<% 8
B % #.77.'5, '>. / .41.1" ;0'- J4.41'Q46=4 ' ;.'=4.'
5.';,1?6 ;J %65'7 E' 7 ' / ,<;;'?'1'4<'>.;1.78 ?'1. 55. '
< .<7 64 -'> 4<.'?1,;5' / '7 ,<' >4' 1, 8 =4.' 5" ?'71 .'
< .@ J.' ?546 >.6 ; 7,V.46 =4.' 5.416 6.1- ;.6 ,1> '
<' 1.6%
% ;EH;7 >.' 5" 5, '6.1" >.' 5 / 7.18 / , / .47'<>'
/ .<5 .7 >.' 5" / '< .1.'; '?1.6 >.7.1 / <;.8 .@.1; ;.'
>.'5"E';4 .'>..5'1>.'?'1'k '17 ;5.'?1. / .1'>4' ?1.6.<7
>.;1.7%
% ';, / ?7.1'>4'Q,41'>.'5" ?1, ;5' / '7 ,<8 7,47 ; M
7,V.<' =4 '6,17 1" >4' 1,V'4 / .' 6.1" 7.<4' >.'E' 1.' "
>>;5'1'7 ,<"5" / 4< ; ?'5 7.'>45 .4, 45 71,4-.1' '
?,17'<5' = .8 641' 5" E, '>4' 6.1 / . 7 ; - =4.' =4 ' "
?1>7.8 ,4' =4 ' ?1>5.1" " <67'<7 / . / .8 5' ?1, / .7
> >71.' .7 >.' >. / .41.1' >.5.' "5" #,<67 747 ,<8 .7>.'
;,<7 <4.1' " 6.1- 1'6" ?'71 .'>.' 7,47 6,<' ?,4-, 1% '
6.1" >-.66.' ';7.' >.' ; .57.'>.;5'1'7 ,<I 5' 54 ' .<'6.1"
1. / 64<'.@71' E8 >,<7 5'6.1"7.<4'> .< ,V.1'4<.';,? .'
.<'E,1 / .' " 5" / 4< ; ?'5 7>' >4' 5 .4' >.' 6" 1.6 >.<;.%
% ,47 ; 7,V.<' '06.<7 >4' 1,V'4 / .' " .?,=4.'>.'
5" ?1, ;5' / '7 ,<' 6.1" 7.<4' > V 1.<71.1'>'<6 5.' > 5" '
=-4 6.7 "7 @ '?'1'5.'>.;1.78 ,4' > .<-,V;1' "5" <4< ;

?'5 5.' >4' 5 .4' >.' 6,<' >, / ; 5.' .<' H1'<;.' 4<.' >.;5'M
1'7 ,<' .<'E,1 / .8 7.55.'=4 .55.' " .7.' ?1.6;1 7.' ?'15 '7-'
7 >.' ?1.;.>.<7%
% ,47 ; 7,V.<''06.<7 >4' 1,V'4 / .8 '?1;65"?1,M
;5' / '7 ,<8 =4 ' '41" E' 7 5" >.;5'1'7 ,<' ?1.6;1 7.' ?'1'
5.6 '17 ;5.6 ?1.;.>.<768 ?' .1'8 " 5 71.' > <>. / <7.'
>4.' " 5'78 ,471.' 6.6 ; ,<71 047 ,<6 ,1> <' 1.68 4<.'
6, / 1<.' .J'5.'4@> 7.6 ; ,<71 047 ,<6 > 4<.'>.< '< . .8
6 5 .67 '06.<7 6 @ / , 6 ,4' < , 6 >.'6 @ / , 68 .7 >4<.'
' < . .<7 .1.8 6 5 .67 '06.<7 ?.<>'<7 ?546 >.6 @ / , 6%
% ,47 ; 7,V.<' '06.<7 >4' 1,V'4 / .''?1.6 5" 646_'
7 7.' ?1, ;5' / '7 ,<8 6'<6' '-, 1'E' 7 5" >.;5'1'7 ,<' ?1.6M
;1 7.' ?'1' 5.6 '17 ;5.6 ?1.;>5.4768 ?' .1'8 ?'1' E,1 / .'
> ' / .<>.8 ,471.' 6.6 ; ,<71 047 ,<6 ,1> <' 1.68 4<.'
6, / / .' .J'5.' '4' >,405.'>.6> 7.6 ; ,<71 047 ,<68 >'<6
5.6 ?1,?,17 ,<6 5 @..6 ?'1' '17 ;5.' ?1.;.>.<78 ;7 6.1"
>.;;:4' 44' 5 71.' .7>.6 >1, 76 >.'; 7,V.<'E1'<V' 68 Q46=4 "
;.'=4 'V 6, 5'1.7'05 '?'1'4<'>.;1.7 4 ;,1?6 5.J 65'7 E8
6' ;7 ,<<.'?'1'5.'1, %
% "% ,<7 .@;.?7.6 >.6 > 6?,6 7 ,<6 >.6 >.4@'15 >.6
?1.;.@5.<76 ;.4@ =4 ''41,<7 4<.' / 66 ,4' >4' J,4-.1 I
<. / .<78 .7 5.6 J.<6 >. / .1%
"% " / , 7 .' >4' ?1,>4 7 >.6 '4J / .<7'7 ,<6 >.6
;,<71 047 ,<6 %; >.6646 6.1" 1>?'15 .8 .<' <, <6 / M
?,6.'8 .<71.' ;6 ;,<71 04'05.6 >.' 5" / ;4 .' / 4< ; ?'M
5 7.'=4 ' <.' ?' .1,<7 =4.' C 5 -% > / ?,6 7 ,<' .7 '4 ''
>.66,46I '471.' / , 7 .'6.1" -.16. .''4' 71.6,1'?405 ;%
"% ,<6 ; 7,V.<68 '06.<76 ,4' ?< 6.<768 =4 ''41,<7
?,17.'5.6 '1 / .6 ;,<71.'5" H1'<;.8 ,<' .<1>5.'>.6 0, / G' '
/ .6 ?,41' 5.6 ?,17.18 =4 '6.1, 7 ;,<-' ;46 > '-, 1'
71' / .' ;.6 ;, / ?5,76 ;,<71.' 5.' 1.?,6%,4' 5" 641.5.' >.'
7 7'78 6,<7 >.;5'1; 6 71' 71.6 " 5" ?'71 .5 6 6;1,<7
?,4164 - 6 ;7 ?4< 6 ;, / / .'7.56%
546 .41 '-, @ >. / '<>.<7 5" =4.67 ,<' ?1.'5'05.'641'
5.'?1,Q.7%
'- 5 'N 'Q.'?.<6' 6 =4.' 5" 5, '>>7 '-, 1'
4<' 6.45 >.6 J-'47'J.6 =4 ,4' 54 '64<?,6; .7 =4 .55.'?>7
?1.-.7 1' 44' 6.45 / '5:;418 Q.'5" 5' 66.1' 6 ?'66.1' .<%
6 5.<;.I '< 6 . ;' .67 '<;,<71' 71.'.@71> / . / .<7 >' '
J.1.46.8 .55.'E' 7 4<' 0.6, <' > . / J1.18 Q.'< V ,??,6.
>,<.%%%8%%8' % 8
' ! ' 'N 55.' .67 71,?'E' 0 ;8 5" 5, % I
,47.'54'6'55.'1.?.7.S' "=4.67 ,<'?1.'5'05.S'5"=4.6 '
7 ,<'?1.'5'05.S + 546 .416 -, @ >. / '<>.<7 5.'1. -,E
'4' ;, / 7.% d
' " / .641.=4.5 ,<'-,46 ?1,?,6.' / .'
?'1' 7 '06,54 / .47 5: 6, 1.8 .55.'<.'?1.-, 7 4'5.6 ;'68 '
<'5.6 ; 1;,<67'<;.6% 5 .67 5 ,16 >.'>,47.'=4.'5,16=4.'
7'7 .67 .<'?.1 58 5.';,1?6 5.J 65'5 E" 5.'>1, 7 <;,<M
7.67'05.'> . / ? ;:E71'>.6,17 1' 44' 1,V'4 / .I ' / ' 6 ;,77;'
>.5.14 <'7 ,4'>, 7 71.''0'<>,<<..'" 5" 5.J 65'741.'.7
<,<'?'6 ?1>14. "1'-'<;.% .'>. / '<>.'>4<.' 5"=4.6M
7 ,<'?1.'5'05.' ,4' 5.'1.<-, ''4' ;, / 7.%
' 2 .'>. / '<>.''466 ' 5"=4.67 ,<'?1.<5'05.1'
?'1;.'=4.' 5" / .6641.'?1,?,6..'?'1' % .1< .1' / .'
?'1' 7 <64E5 6'<7.% ,47 H< / J' 6 =4 '=4 77.'6"?'71 .'
,16=4 .55.' .67 .4' >'<J.1.6744' / '4-' 6 ; 7,V.<' ,4' 4<
71' 71.8 & <''??5'4> 7%P # .67 >.' 5" =4 ' E'47 ?'17 1%
.' >. / '<>.'>,<.'=4.' 6' / .>' ,<' <,46 E'66;'44' <,4M
-.'4' 1'??,17 =4 '646?.<>.'641'5" >5.'>.6 ;,4?'05.65.'
J5' -.'>.'5" 5, ' .7 >.6 ; 7,V.<6%
' 'N ' <.' E'47 ?'6 / ,7 -.1' 5.' 1.<-, ''4'
; / 7.8 =4 '>, 7 ;, / 0 <.1'5"1 J4; 1'<.;.66' 1.' '-.,'
.@>;47 ,4'?,66 05.% .>.< '<>.'>,<.'5.'1.<-, '?41' .7
6 / c>.%
66.< 05>.' 1.<-, .' 5.' ?1,Q.7 "6.6 ;, / 7.68 ?,4E
54 ' .<'?1.6.<7.1'4<'<,4-.'4'6, / .>'?1, ;0' N A
4'>. %5.6 6.;1.7' 1.6 E' 7 5.;741.'>.'>.4@'5.771.%6Q
4<.' >.' 5" < 4 >?'5 7.' > - J<,<8 =4 ' ' <,<;.'
=4 '46>7>7=4.'5.'c .4?5.' '- J<,< ' 6' " '??1 6 5"<,4'
-.55.'>.' <' 54 7.'>4' 1, 8 5 " 1.<, -.5.'5.'6.1 / .<7>.'
- -1.' .7 >.' / ,41 1' H1'<;' 6% '471.8 >.' 5" <4 ; '
?'5 7>'>. / .68 =4 '' .67.' .'0,<'';;,1>'=4 '"1>J7 .

! !' ! ') ' & '!' !' # !' !' = !(
+#!'4! !' #%! !' !#'! ' # ' %! #!(

% .6 / .4< .1 ' ?1>6.<7.' ' '' >.5 0. 1'7 ,<'5.1'5 71.' 6. ; ,<>'>4' ?1 ,Q.7' >.' >>; 1.7' >4' ; , / 7>' >.' ; , <67 747 ,<' 641'5'' ?,5 ; .' / 4< ; ?'5. .7' 5'' ?,5 ; .' ; ,11. ;7 ,<' .55.%

.6' '17 ;5.6' 64 -' ,76' 6,<7' >. ;1.7.6' ?1.6=4.'6' '<6' > 6M ;466 ,<%

- ' %%' &' '& ' ' ' '

!

. ' ' %K ' .6' ?. <.6' ; ,11. ;7 ,<<.55.6' 6.1,<78' D H' / .<>.I' CD 5'' ; ,<E 6; '7 ,<8' .<' ; .17' <' ; '68' >.' 5'' / '7 .1.' ><' >.5 7I' D . / ?1 6,<<; / .<7I' UD .<5 5' 5'' >.?,17'7 ,<8' 5'=4.55.'6.1'' 7, 4Q, 416' '' - .%

% 7' V' '41'' 4<.' / ' 6,<' >.' ; ,11. ;7 ,<' >.67 <. .8' D' '4@' Q.4<.6' J.<6' '4 >.66,46' >.'1>J.' >.' C ' '<68' =4' >. -1,<7' V 71.'1.<E.1< .68' ; ,<E,1 / . <.<7' '4@' '17 ;5.6' " 8' " ' .7' " 55' >4' 5 71.' ''' >4' >. ;1.7 641' ,1J'<6' ' 7 ,<'Q4> ; ' 1.I' CT' '4@' ?.16,<<.6; ,<>' / <. .6' ?'5' -, .' >.' ?,5 ; .' ; ,11. ;7 ,<<.55.%

% '5'' < ' 6,<' >.' ; ,11. ;7 ,<' .67' >'<6' 5.' / > / .'5, ; '5' = .' 5'' / ' 6,<' >.65 <. .' '4@' ?.16,<<.6; ,<>' / <. .6' ?'1' Q4J. / .<7' >.6' 71 04<'4@' ;1 <7 <.568' 5.=4'17 .1' >.' 5'' ; ,11. ;7 ,<' 6.1'' .<7 .1. / .<7' 6.?'1 %

% .6' Q.4<.6' J.<6' > B.<46' > '?1.6' '11>7>' >.6' E' / 5 .6' 6.1,<7' 6.?'1>6' >.' ; .4@' =4' ' '41,<7' .7.' ; ,<' >' / <.6' ?'1' 5'' ?,5 ; .' ; ,11. ;7 ,<<.55.%

% ,47.' / ' 6,<' >.' ; ,11. ;7 ,<' 6.1'' / ' 6,<' >.'71' M - ' 5I' 5' 6.1'' >5'05' ?'1' 5.6' ; ,<6. 56' ,4' > 1. ;7, 1.6' >.' >.?'17. / .<7' > -.16' J.<1.6' >.' 71' - '4@' ; , / / 4<6' ,4' ?'15 ;45 .16Q ' ; ,<-. '05.6' '4@' ?.16,<<.6' >.6' >. ,@' 6.@.6I' 5.6' 5 , / / .6' .7' 5.6' E. / / .6' 6.1,<7' 6.?'1;6%

% '' / ' 6,<' E,41< 1''5.'?' <8' .'4' .7' 5.' ; ,4 ; : .1N' 641' 5.'?1,> 7' >4' 71' - ' 5' >4' >.7.<48' 4<' 7 .16' 6.1'' '?' ?5 =4>''5'>>?.<6.' ; , / / 4<.' >.' 5'' / ' 6,<%

41' 5.6' >.4@' '471.6' 7 .168' .7' 641' 6.6' O .<68' 5,16=4.' 5.'Q4J. / .<7' ' 1'' ' <6' ?1,<,<; .8' 5' 54' 6.1'' ?.1 / 6' >.' 6.'?1, ;41.1' ,<.' <,411 741.' / ; 75.41.' .7?546' O ,<' >' <7.' =4.' ; .55.' >.' 5'' / ' 6,<%

j .' 641?546' 6.1'' 1>6.1->' ?, ,1' 54 ' E1.'1. / E.' '?1.6' =4.' 5.'7. / ?6' 5 .'6'' >.7.<7 ,<' 6.1'' .@? 1.%

% #14@' =4' ' 6.1,<7' ?1. -.<46' > '-, 1' '77.<7.' ?4' 05 =4.< .<7' ' @' 7<EE 168' ?'1' ,471'J.' '' 5'' ?4>.41' >.6' E. / / .68' ?'1' ' ;7 ,<6' >.6: ,<<>7.6I' > '-, 1' E' -,16.'5'' >.0' ; : .8' ,4' ; ,11, / ?4' >.6%Q.4<.6' J.<6' >.' H4<' ,4' Q 471.6.@.8' ?'1.@?,6 7 ,<' .7' -.<7.> 4 'J.6,06; .<.68' ?,411,<5' >71.'6' 6' 6' 1 5. ; : ' / ?8' .7' ; ,<>4 76' >. -'<7' 5.Q4J.>.' ?' @8' 5.=4.5' .67' '47,1 6.' '' 5.6' E' 1.'1.7.< 1' Q46=4 '' 5'' ?1, ;<' <.' '4> .<; .' >.' 5'' ?,5 ; .' ; ,11. ;7 ,<M <.55.%

% ' 5.' > 5 7' .67' ?1,4->8' 5.6' ; ,4?'05.6' 6.1,<7' ; ,<>' / < 68' 6.5,<' 5'' J1' - 7.' >.6' E' 568' ' 4<.' ' / .<>.' >.' ' '' ' 5 -1.68' .7' '' 4<' . / ?1 6,< . / .<7' =4' <.' ?,411'' .@; .>.1' 6 @' / , 6% ,41' ' - , 1' E' -,16>' 5'' >.0'4 ' ; : .' ,4' ; ,11, / ?4' >.6' Q.4<.6' J.<6' >.' H4<' .5' >.' '471.' 6.@.8' 7 . / ?1 6,<<. / .<7' 6.1'' >4<.' '<<. .% 5' 6 'J 5' > / 'J.6,06; .<.68' 5.6' .67' / ?.6.75.6' ?5' <; : .6' 6.1,<7' .<' ,471.' ; ,<5 6=4. .6' .7' 01 6. .6%

" % .6' ?. <.6' ?,17>.6' .<' '17 ;5.' ?1>; #>.<7' 6.1,<7' >,405.6' .<' ; '6' >.'1# ; > -.%Y

'O! &!# ! <' ' ! ' !# ') ! ' # % ;

" % '' ?5' <7. .<' '>455.1.' <.' ?,411'' I71.' ?,4164 - .' =4.' ?'1' 5.' / '1' .7' ?'1' 5'' V, .' 6.45. / .<5' >.' ?,5 ; .' ; ,1' 1; ;5 ,<<.55.I' / ' 6' ; .77.' ' ;7 ,<' 6.1'' 7, 4Q, 416' ?,17. . .<' ?1. / #1.' <67' <; .' >. -'<7' 5.' 71 04<'5' >.' > 671 ;78' .7' '??.5' '41'' 5 .4' >. -'<7' 4<' >.6' 6.?7' 71 04<'4@' >.' > 6M 71 ;7' >.7.1 / <.6' ?'1' 5'' ?% '' E. / / .' ; ,<-' '<; 4.' >.' ; .' >>5 76.1'' ?4< 8' 6.5,<' 5.6' ; 1; ,<67' <; .68' > 4<' '<8' >.' > @ :4 7' / , 6,4>.' >.4@' '<<>.6> . / ?1 6,<<. / .<78' .7' >.' 5'' >#; : #' <; .' >.6' ; ,<-.<7 ,<6' / '71 / ,< '5.6' 17'05 .6' .<' 6'' E' -.41% '' >,7' <.' 6.1'' ?, <7' ; ,<E 6=4>.I

5.' / '1' .<' '41'' 5'' Q,4 66'<; .8' =4.57.6' =4.' 6, .<7' 5.6' ;5'46.6' >4' ; ,<51'7' >.' / '1 'J.8' '' 5'' ; : '1J.' 7,47.E, 6' > <<.' ?.<6 ,<' '5 / .<7' 1.8' ' <6' =4 #55.' 6.1'' 1>J .' ?'1' 5.'Q4J.I' 5.' / '15' ?,411'' '' ;<'=4.' <67' <7' 4'1.' ; .%66.1' 5'' ?. <.8' .<' >. ;5'1' <7' =4 15' ; ,<6. <7' '' 1. ; . -, ' 6'' E. / / .' >'< '6'' / ' 6,<% .' ; , / ?5 ; .' >.' 5'' E. / / .' 6.1'' .,<>' / <>' '' / .' ' / .<>.' >4' :4 7 #7<.' >.6'' E,1G' 74<.8' .7' '' 4<' . / ?1 6,<<. / .47' >.'71, 6' / ,76%

" % .6' 'EE' 1.6' >.' ; .' >.1< .1' J.<1.' 6.1,<7' <6714 7.6' '' '<> .<; .I' .55.6' ?,411,<7' <>' '< / , <6' 71.' <6714 7.6' .7' Q J 6' '' : < 6' ;5,68' ?'' 6' 6.45. / .<7' >' <6' 5.' ; '6' , .' 5.' / '1' .75' E.1< / .5.>. / '<>.1,<7,<' V #,<6.<5 1,<7%

' 1' ' < .67' ?'6' ?,66 05.' >.' 67' 74.1' .<' ; .' / , / .<7' 641' 5'' ?5' <7.' .<' '>455.1.8' 6' <6' 67' 74.1' .<' / / .' 7. / ?6' 641' 5.' > -,1; .% ,46' ; ,<<' 66,46' '66.0' 5.6' / ;K 16' >4' 6 . ;5.' ?,41' 6' -, 1' =?.'71#6' 6,4-. 7' 5.6' ; , / / .6' 6,<7' ' ?546' ; ,4?'05.6% ,46' 6,< / ; 6' 71,? 467.68' ?,41' <.' <,46' , ; ; 4?.1' =4.' >.6' 7#1>76' >.6' 5, / / .6' 5,16=4 5' 6 'J ' > 4<.' ; : ,6.' =4' 7,4; : .' >.' 6' '?1.6' '77' 0,<: .41' ; ,4 / 4<' >.' 7,46' 5.6' 7 > 1 >46' =4' ; , / ?,6.<7' 5'' %6, ; #7#% .' >. / '<>.' >,<.' 5.'1.<-, ' '' 5'' 5.J 65'741.' >.6' >E4@' '17 ;5.6' =4' - .<<.<7' > .71.' '468' 'E <' =4.' ; .77.' =4.67 ,<' 6, 7' > 6; 47>.' ' - . ; ' ; .55.' >4' > - ,1; .%

% ,?,5 7N .' ?.<6.' >.' / >< .' =4.' 5.' ?1. ,? <' <7% 5' '' 71.6' O .<' .@?,6.' 5.6' / ,7 E6' =4' >, -. 7' - ,<6' >.7.1M / <.1' '' <.' ?'6' >. ; >.1' 6; ?'1> <.<7' >.4@' =4.67 ,<6' = ' ,47 .<71.' .55.6' > ??,17 / 76' 1' ??,176' <71.E, 6' 4<' / '1' < <7.<7' 7' ?'6' <<' ?1, . / 6' .<' '>455.1.' =4.' 6'' E. / / .' <.' E,1 / >7' 4<.' >. / '<>.' >.' 6.?'1'7 ,<' >.' ; ,1?6% ,4-.0 -, 6' 5' 66.1' 6406 67.1' >.6' 6,17.6' >.' 6' >?'1'7 ,<6Z' ; .7' .7' '7 1. ; , / ' ?'1' 5'' 5, 8' =4' < .67' <' 5.' / '1 'J.' <' 5'' 5 0.17>8' =4' 1.<>' ?746?.6' 7. . ,1; ' ; E' 1>.' > 44' 5 .<' <> 66,5405.' .<' ?1 -'47' >.'7,46' 5.6' '' -'<7' J.6' '77' ' ?0>6' ' ; .' 5 .<Z

'E.6' ; , / <.66.456 ,<7' ??.5>6' 4@, ?.1' 7 ,<6?, ' 5 7 =4.68' . .67' =4 76' 1.?1.6.<5.<7' <' E' / 55.' .<7 .1.I' 67 ?45.0' >,<.' ?,41' ; .4@' =4' < ><7?' 6' >.' 1.?1#6.<' 7' '<76' / / .> '76I' .<' '6641' <7' ?, 1' -,46' 5.6' >1, 76' >.6' / '1 68' '6641.0' >,<.' '466' ; ' ?@' = .' > '451.6' ?.16,<<.6' ?.7 -. 7' .@.1; .1 #,< 1; ' - 06% ' : V '41' 7' < 0<< ' ' < 7>8' <' J.<.1,6 7>8' <' Q467 ; .' ' 6 ; ; ?.1>.6' >1, 76' >.6' : , / / .6' .7' '' <.' ?'%6' 6,<J.1' '' #.4@' >.6' E. / / .6H ' 6.1'' > ' 75. 16' <. ; .66' 1.' >.' ?1.<>1.'4<' ?'17' 641' ; ; 77#' J1' <>.' =4.67 ,<' =4.' H, ? < ,<' ?40: =<.' '' ><J7. / ?6' >.0' 774.% .<7' / ,46' ?'6' ; .77.' / '7 .1#I' '>1. >,<6' 1 .<' ?1. / '7 1. / .<7I' 1. / .77, '6' 5'' > 6;46 6 ,<' >.6' '1 d' 7 ; 6' =4 ,<' ,46' ?1.6.<7.' '4' / , / .<7' ,4' 5.' > - ,1; .' 6.1'' ,0Q.7' >.' ,71.' >>5 0>1'75,<' ,4' >. ; .55.>.' 0,6I' 64; ; .66.416% '<6' >,47.' 5. ' '17 ;5.6' =4 ,<' ,46' ?1> ' 6.<7.' ,<7' / ?,17' <76I' Q.' 64 6' 5, <' >.' ;1, 1.' =- , 5' ? 66.' .<' >,?7.1' 5.6' > 6?,6 7 ,<6I' / '76' 7 ,46' V' 6, / <.6' 7,<6' <7. 1.66. 6' > 1. .7. / . 17' ,4' <> 1. ;7. / .<78' .7>,46' <.' >. -,<6' ?'6' .<; ,41 1' 5.'1.?1, ; : .' >.' < ' - , 1' 6,<J>' =4 '' <,6' <7>1#7 %

66. / 05>.' >>5 0E.1.' .5' 1.<- , .' 5.6' '17 ;5.6' '' ' .7' '' ' '4' ; , / 7>' >.' ; ,<67 747 ,<8

.6' '17 ;5.6' " ' .7' " '6,<7' / 6' '4@' -, @8' .7' '>; ?7>6' .<' ; .6' 7.1 / .6N

" % #.4@' =4' ' '41,<7' ,471'J>' 5.6' ,0Q.76' > 4<' ;457.' =4.5; ,<=4.>'<6' >.65 .4@?405 ;6,4' >.67 <E.' '' .@.1G' ; ; .' >.' ; .' #457.8' ,<' 6.6' / < 671.6' .<' E,<;7 ,<8' ,4' 4 ' 7.11, / ?4' ?'1' 4<' 71,405.' ?405 ;' 5.6' .>1> / ,< .6' 1.5 ' J .46; 6' >.' =4. =4.;4 7.=4. ; .6, 786.1,<7; ,<>' / <>6' '' 4<.' ' / .<>.E' =4' <.' ?,411'' ?'6' .@.>>.1' 5'' 6, / / .' >. 5 -%8' .7' '' 4<' . / ?1 6,<<. / .<7=4 <.' ?,411'' ?'6' .@; .>.1' 5'' >41. '>.' >.4@' '<6% ' / .<>.' 6.1'' 7,4Q, 416' >.' '5 -%8' ;7' . / ?1 6,<<. / .<7' >.' >.4@' '<68' .<' ; '6' >.'1>; > -.% % %

" 55 % .6' '47.416' >.' ; .6' >>5 76' ?, ,11,<7' >71.' 6' 6 6' 641 5. ; : ' / ?8' .7' ; ,<>4 76' >. -'<7' 5.'Q4J.' >.' ?' @%

<' >.' % 5.6' 6. ;1.7' 1.6' E' 7' 5. ;741.' > 4<.' 5.771.' ?'1' 5' =4.55.' % 5.6' .5. ;7.416' >.' (*' <- 7.<7' H 6

<'7 .'' '66 67.1' '4' < ' =4 56E.1,<7' ;:'<7.1'?,41'1' / -. 6' 1.'>4' U'Q4 55;7' ()*%
66./0 .'>.; >.'=4 .55.'.<-.11''<<.'>.?47'7 ,<' '#.77.';.1>/ ,< .%
'6>'<?.' .67'5.->.' ' ' :.41.6' .7'>.1, .%

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O.%' 6 ' & ' & ' ' GI' - ' '

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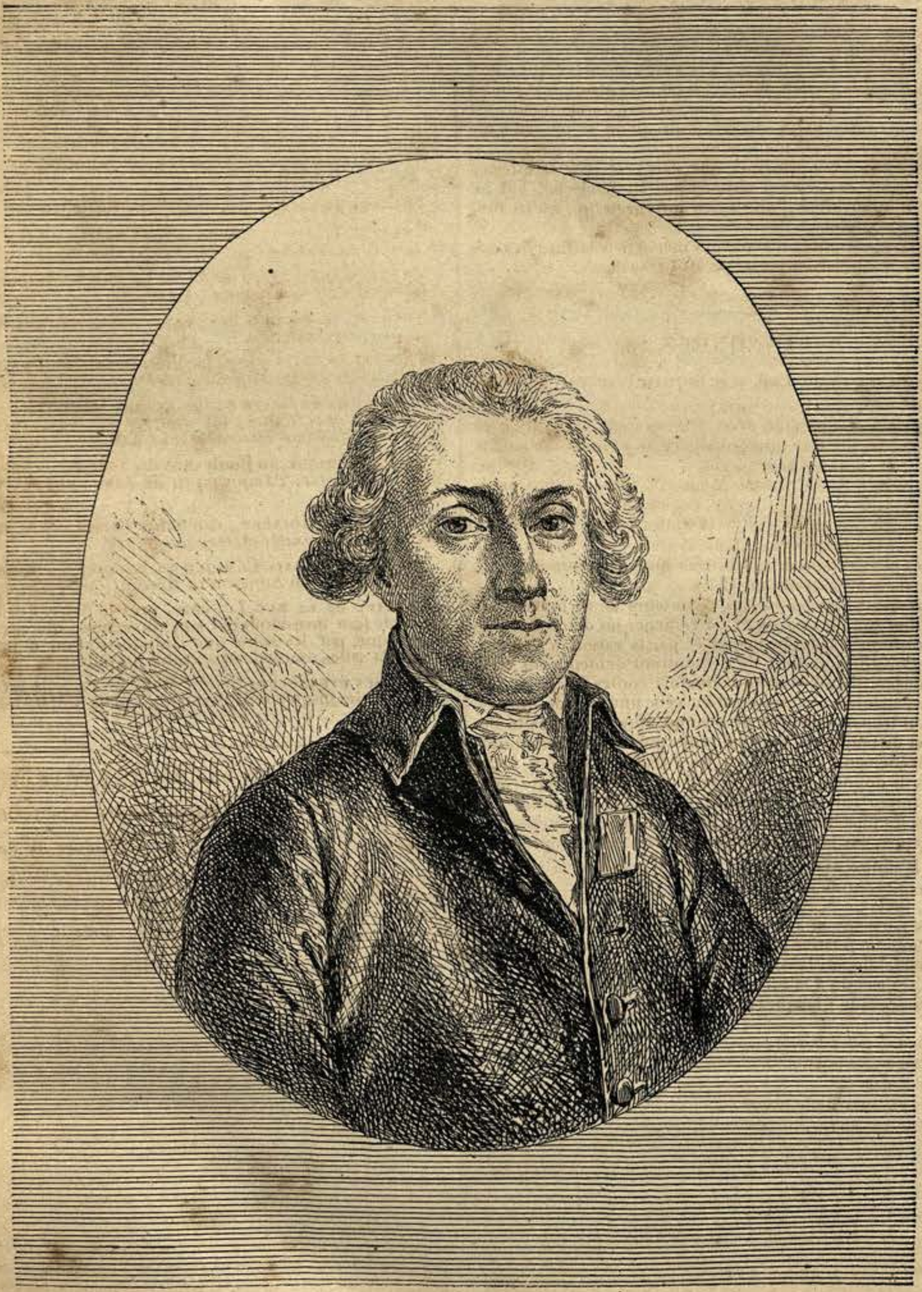
D'APRÈS UNE GRAVURE DU TEMPS.



Typ. Henri Plon.

Le baron Félix de Wimpfen, député de Caen à l'Assemblée constituante.

! b ' ' ,i' ' 8

C ,TQ=' ('6'2 '4564' ' C' ' '

? , / , 4 8

#a%

W G & ' ' " ' - Z .?4 6'5.' '>.' ;.' / , 6' ,<' '' -7' ?'66.1'?'1' 5.' 4<>' C ' 0>7 / .<76' >.' > -.16.6' 8 <'7 ,<6%

<' ?'15.' >.' <,4- .'4' >.' '115->.' > 4<.' .6;'>1.' '4' J5' 6.' >'<6' 5" K'57 =4.I' 6' ; . 7.' <,4- .75.' 6.' ; ,17E71 / .8 .55.' <.'7'1>.1" ?'6' > V '11 - .1I' 1. 7.' / .1' < .67 J4.1.' 7.<'05.' ?,41' >.6' - ' 66.'4@' >.' 5 J<.' =4.'Q46=4 '' 5" E<' >4' / ,0' > ' ,>7%

.' ;, /7.'H1.>.1 ;'>.' 7,50.1J8' =4' 97' 7 / < 671.'>4' 1, ' " 5" ; ,41' >.' K.15 <8' 1;7,41<.' '4'6.1- ;.'> 5' ?1 <;. ' 9-.=4.'>.' 40.; 8' >4.' >.' B,567.74%

! %

' ' ' ' ' ' +' " <,4-.55.' 6.' ; ,<E 1 / .' =4 .<- 1,<' 6 @' ; .<76' 41;6' ,47' ?'66.' 5.' '<40.' ?1.6' >.' 55671 .8' <' 65.' J.<.1'5' 1466.8' <6714 7 >.' ; .' ?'6M 6'J.8' 'V' 5'E' 7 '-'<; .1' >.6' 71,4?.68' " ,05 J.' .<<. / ' >.' 1.?'66.1' .' E5.4-.%

.6' 1.J / .<76'64 -'<768' >.' ,1> 68' '4.1 / '<8' 7. <8' . 6 ' .7 1; : >4; H.1> <'<>8' .7 5.6' p' 0'7' 55,<6' >.' '7 < 708' .55.J1 < 8' ; :1, .>.18' / ?.1.418' .<78' #,55,1>>,8' 7 , [6 8 #: '15.6' >.' ,6;'<.' .5' '-, .8' / '1; : .<7' >.' 5" B,<J1 .' .7 >.' 5" 1'<6V5-'< .' -.16' 5" '5' ; :7.%

.65' >'<6' 5" ; ,<E.1.<; .' >4' (' >.' ; .' / , 68' .;1 7 , ,' >.' 67,-.8' =4.' 5.6' / < 651.6' '471 ; : .<6' >#;5'1 1.,7 =4.8'?4 6=4.'5.6'?5.< ?<7.<7 ' 1.6' ,77, / '<6'<.' -,45' .<7 ?, <7 'J1..1' 5.6' ?1,?,6 7 ,<6' =4' 5.41' '-' .<7 .7.' E' 7.68' 56' < '-' .<7 ?546' 1 .<' '' -, 1' '4' ; ,<J1.6% '6' ,<' 5.6' ?1 '' >.' 1.67.1' .<; ,1.' >.4@' Q,4168' ?,41' '-, 1' >'<6' ; ,7 <7.1V'55.' 4<.' 1.?,<6.' ; '7.J,1 =4.' >4' J1'<>' - 6 1I' 5.6' / < 671.6' >.' . / ?.1.41' ; ,<6.<7 1.<7 " ; . 7.'>. / '<>6I ,<' .@?.> ''4<' '17'16' '4'J1'<>' - 6 1I' 5' 1.- <7' 5.')' '4' 6, 1' N' 5.' 5.<>. / ' <' 5' V .47' 4<.' <,4-.55.' ; ,<E.1.<; .8 >'<6' 5'=4.55.' 5.' / < 671.' ,77, / '<' E 7 ; ,<<' 1.' =4.' 5.' J1'<> 6. J<.41' <.' ?,4-' 7 ?, <7 ' ; ,.?7.1' <7.'?1.7' ' 7 ,<' >4' '1 ' >,<<#.' ?'1' 5.6' / < 671.6' >.' . / ' ?.1.418' .7 =4 ' <.' ; ,<6.< 1' 7 Q' / ' 6' '' '4;4<.' ; .6M 6 ,<% ' >.6646' 5.6' / < 671.6' >.' . / ?.1.41' 6.1.7 1.1.<7 .7 ' .17 1.7 7 ;6' / < 671.6' / .> '7.416' >.' 5.41' >.?'17 ?,41' K ;4'1.67I' 56' > 1.<7' >'<6' 5.41' 0 55.7 =4.' 5.41' >.M / '1; : 'K.' >.-' 7 ?'6' .71.' 1.J'1>.' ; ,1' / .' 4<.' 14?M 741.' 8' .7 =4 56' .7' .<7 ?1.76' '' 1.5,41<.1' '' 67,-.8' '' ; ,<>7 ,<' ; .?.<>'<5' =4.' 5.6' / < 651.6' >.' 5" ,17.' >,<' 4'66.<7' 5.41' ; ,<6.<7. / .<7 '4@' '17 ;5.6' ?1,?,6.%

<' ?.<6.' =4.' 5.6' <.J,; '7 ,<6' 6.1,<7 1.?1 6.6' '466 ' 7,7 =4.' ,<' -.11'8' ?'1' 5.' / ,4-.1' .<7' >.6' 71,4?.68' =4.' ,<' < '' ?, <7 .<- .'>.' 1 .<' ; .>.1' 641' 5.6' '17 ;5.6' ?1,M ?,6.6%

<' ; ,1?6' >.' 71,4?.6' >'<6' 5.' K'<<'7 6.' 1.<>' " a1' ' Q, ['% ,46' 5.6' ,EE ; .16' '06.<76' ?'1' ; ,<J.' ,<7 1. 4' ,1>1.' > '55.1' Q, <>1.' 5.416' 1.J / .<76% +' <' " E1.79' >.6' 0'7 / .<76' ?,41' 5.' 71'<6?,17' >.6' 71,4?.6%

' - .<7 >.' ?'1' 71.' 4<.' 6,17.' >.' , , / ?7. 1.<>4' >.' '>1, <051'7 ,<' >4' J1'<>' >4. : .' > .d ,6; '<.8' >.?4 6' (9 Q46=4 .<' (* % '?1.6..7 / ?1 / .8' 5.6' 1.-.446' >.' .5'7 / ,<7' .<7 .<' (9 '2')8*)8) ' 5 -1.68' .7 .<' (* ' " 87*5 8* '55-% #.77.' '4J / .<7'7 ,<' .67' 5.' ?1, ' >4 7 > <<;' / . 55.41.' '> / < 671'7 ,<8' ; '1' 0.'4; ,4?' > / ?,76.@767'<56' '-'<7 (9 ' ,<7 .7 8' 5.6' 4<6' / ,>.1.68' 5.6' '471.6' 64??1 / 8' . ,?,5>' '' E' 7 .<' ,471.8' ?.<>'<7 5.6' - <J7 ; <=' '<< .6' >.' 6,<' '> / < 671'7 ,<' .<' ,6M ; '<,8' 4<.' .?'1J<.>.' ' / 55 ,<6=< ' " 5' 66..' '<' 71 ,1' ?,41' 5.' 6,45'J. / .<7 >.6' 64Q.76' .7 ' 4.5 ,1'7 ,,' >.' 5" ;45741.' >.6' 7.11.68' .7;%

'$! ' % ' ' 1.J. , ; .' >4' B'<,-1.' - .<7 > .7'05 1' 4<' / ?>7 >.' ' ?% ' 641' 7, '5.6' 5W' / '1; : '<> 6=I' >.' 54@.' 8 ; / / .' 0 Q,47.1 .' 8 =45<;' 5.' 1 .8 .7;% 55.' " '466' E' 7 4<.'7'@.' '>> 7 ,<<.55.' 641' 5" 0 .1.' '<J5' 6.8' 5.6' ; '15.6' " Q, 4.1' .5' .'4 >. - .%

. / 'J 671'5' >.' 5" - 55.' > 4J60,41J' " E' 7 <641.1' >'<6' 5.6' ?'? . 6' ?405 ;6' =4 4 :'H1'<; 6' =4' 6' 97' 7 '66, ' ; .' > - .16' '17 67.6' '-' 5' E,1 / .' 5.' ?1,Q.7 >.' ..<71.E' 1.' ; '5.6' '66 J<'76' >.' H1'<; .8' =4 4<' >.' 6.6' ?1 <; ?'4@' , , ' %-1 .16' .<' '' E' 7 5" > <,1 ; '5 ,<8' .7 =4.' 5.' / 'J 671'5' '' ?1 6' 5.6' ?1. ; '47 ,<6' <. ; .66' - .6' ?,41' '11 7.1' 7 <' ?1,Q.7' '466' E4<.67.%

< ' 'Q2' ' .6' . / J1'<76' E1'<J' 6' ?'17.<7 .<' E,45.' ?,41' 'V.<; .' .7 #,05.<70%%%%% ' '11 -.' >.6' E1,? 7 .1.68' .; / . / .' >.' 5 < .1 .41' >.' 5" H1'<; .8' >.61.; 4.6' " S % #,<>.8' =4' <.' ?'1'57 ?'6' 'EE.; ' >4' > ;1.7 >.' 66. / 05..' <'7 ,<'5.%

' 5' ?'1' 7 =4.' 5" > .7; ' >4' ; .1;5.' >4' B'47 : <' 6 .<' 1'??,1; .1'R=4'<7 '4@' '>' 1.6' >.' H1'<; .8' '4@ 1 6,5 7' G7 ,<6' >.' 5" > .76' >.' ' 60, / .' I' 5" > .>.K'7 60,<<.' " >.6' ?4 66'<; .6' 5 J4; .68' .5' 5.6' ?4 66'<; .6' 5 J4 .6' '<' 0,<' ,4' '4' / '4-' 6 7'7 >.6' ;5 ,6.6' >'<6' <5.1 .41>.' 5" H1'<; .%%% .'014 7 ; ,417 =4.' >''6' 5" '@.' ,<'.@; 7.' >.6' / ,4-. / .<76' >'<6' 7.' ?. ,?5.' >.6' . ' / ?'J<.6

!"

@ ' ' ' ' ' ' ' '

" - 5 .' > <-.16' " >,<< ' 6,<' ; ,<6.<7. / .<7 ''7 ' <'4J41'7 ,<8' ' >.4@' ; ,<> 7 ,<6' N ?1. / .1. / .<58' =4 77 V '41' 1' 4<.' ' / < 67 .'J#<.1'5.' &; '1' 5.6' >.-,7.6' >.' ; . 7.' - 55.' ?,466.<7 0 .<' >.6' 6,4? 16' ?,41' 5" ?.15.' .5' '06.<; .' >.' 5.41' :V?, ;1 7.' F '< 4?.<8' .7 5.6' 6,56' 1.J1.77.<7 '< >.1 , ,7PI' 6.; ,<>. / .<78' =4.' 5.6' ; <=' ; ,<6. 55; ;6' .@;546' 6.1' .<5' 1.: '0 5 7.6' >'<6' 5.41' ?5' ; .' '4' ; ,<6. 5' >.' K1'0'<7% <' '77.<>'<7 ,<' " 7,4Q,416' ?1.; .>.' " <'4' J41'7 ,<%

55.' " .4' 5 .4' '-; ;' 0. '<; ,<? >.' ?, / ?.% ' " 0 .<' E'5 4' =4.' E.' ?.4?5' E 7 5.' Q,V.4@8' 4' 641?5468' 5' " Q,4.' ; .' 1,5.' '-..' 71,? >.' <'741.S% +' >. / , .1'55.' .67 7,47 " E' 7 " : '6' >'<6' ; . 7.' - 55.% .' J, '-.1<. / .<7 '4' 71 .0 .<' V " / 6' 4<' J1'<>' '17% .6' / < 671.68' +' 5.41' E. ' 7,41' ?'1' 5" E,1; .8' < ,<7 / ,<51.' =4.' >,4; .41' .7 / '<' 4.54>.I' 56' < ,<5' 1 .<' 7'47 ; '1.66# =4.' 5.6' -1' 6' >9 / , ' ;1'7.68' 5.6' -'1 7'05.6' ?'51 ,7.6% 56' 6 .<' 6,<7 0'0 5. / .<7 6.1- 6' ?,41' '77'=4.1' 5.6' 1.65.6' >4' E'<'7 6 / .' 1.5 J .4@8' 34.'< '77.<>' 5 ,<' ?'6' >.' 5" (*' ' ' ' ' ' '

" ' 6 .<' / . <.'7. / ?6' ?'51,4 55.68' ?,5 ; .' .5'71 ' 04<'4@' 6.' 7,41<' .<7 ; ,<71.' ; . ' 0,<<. .6' J.<6' I .7 5" >. / , ;1' .8' ?1,7.J. ' .<' '?<'1.<; .' ?'1' 5.' J,4-.1<. ' / .<78' " 7'<7 1.=4' > <Q41.6' .7 >.' ; , ?6' >.' 0'7, <' >'<6' 5.6' =4.1.55.6' >.6' .67' / <.768' =4 .75.' .5' 7 '4' 5 7 =4'<>' 5.6' J,4V.1<.416' J.<.1'4@' ,47 5' 7 5.41' 1.<71>.' 6, .<' <.55.% 4Q,41> : 4' =4.' <'4J41'7 ,<' .67' E' 7.' 5.' ?'J 71 ,7 6 / .' .67 / ,17 >.' 6.6' 05.664 .6% <' <.<' > 7 ?'6' / , <6' _04.' % 5.1;V > 1J.<5.'4' . 7 4<' 3' .7 [<' -.1 7'05.' ' / ' >.' 5" 5 0.1 .%%8% <' .;1 7 ?,417'<7 >.' ?546 ;416' >.' <,6%?1,V <; .6' =4.' 5.' ?. ,?5.' <'V .67' ?'6' 6' >4?.'=4 " K14@.55.6I < / ?,17.8 5' <GV .67' ?'6' / , <6' > - 6.8' .7 7,46 ;6 / '4@' >4' ?. ,?5.' - .<<.<7 >.' 6" > - M 6 ,<% ' 55.416' ,<' '??;5 ;' 6, J<.46. / .<7 .7'7 >' 5' 5.=4.5' <,46 , / / .6' ' ' b

<' ?1.7.<>' ; '=4.' 5" ; ,41' >.' " B'V.' .677,4Q,416' , ; ;4?..' ''1.6646; 7.1' ?'1 / ' <,46' 6411.;5 , " I =4.' ,<' '' -4' >'<6 5.6' .<- 1,<6' >.' K1.>" .' 67'70,4>.1' .7 6,<' .?,46.'E,17 '>,<<.6' '4@' J.<6' >4' ?'17'>,' '< >.1' ,,7 .7 >.' d '< 4?.<8' .7 =4.' 5" 146 .8' >,777 5W6' 'J.<76' ?.17410'7.416' 6,<7 . / ?5,V.6' '4' 5, <8' " '0'<Y >,<<.' ; .' >.?'17. / .<7 ; ' " 5" / ' 6,<' > 1'<J.% #.67

>, / / 'J.'='.' . / ?.1.41'<.'-.4 55.'?'6'>.'1.-'<M
; :.'>'<6' ; .57.'?'17 .%%%%%

<'?'15.' 0.'4;,4?' ;'>.6' 'J 7'7 ,<6' <7.67 <.6'=4.'
,<'>, 7'?1, ;41.1' " 5" H1'<;.8' ' <'> .<'-.< 1' "0,47'
?546' ' 6 / .<7% <'?.<6.''-, 1'?1 6' " ; .7' .J'1>'5.6' / ;B'
5.41.6' / .6<1.68' .7' ,<' ; , / ?7.'?,41' ; .7' .EE.5'641'5.6'
0,<6' ,E5 ; .6'>.' ' '71.6' .Q ? 1 / .<7 .6 %%
.'>.5 1.'>.6'1.E4J 6' E1'< ' 6' < .67' ?, <7' 7, / 0.'?'1'
'11.67'7 ,<'>4'1, % ">.;5'1'7 ,<'=4.'5.'1, ' "5' 66 .'
.<' ?'17'<7' ?'1' 7' >4' / . 55.4;' '4J41.8' .75 ,<' .6?.1.'
=4.'5" ; ,418' '4' ; :'7.'4'>.6' 4 5.1 .68' .<' 6'41" 7 1.1'
4<' J1'<>'?'17 %

<' '6641.' ;'=4.'<,71.''1; : >4; :.66.'6 .67'71, -..'
/ '5' .<' '??1.<'<7'=4.' ,4 6' " ' 7' 5''11.7.% '471.6'
> 6.<7'=4.'3 (',' 4<.?,5 7.66.8' .7' =4 .55.'6.'71,4-.' '4'
*,.+$ ',.(" . / ?.71..'-("E4J 7 E6'>.' H1'<;,8' .7;%I' ;.'
6.1' 5'-, 1'>.'?546' 5, <' .7' / .4@'Q4J.IG'5" ; : ,6.8' .7;8

ď 8 ' %'>.' .1; V 1J.<7.'4' "=4 77>''4Q,41> : ,'
#.77.'- 55.'?,41'6.'1.<>1.' " J.8' ; .67 ' > 1.' " ?" ,4'
" @ 5' ! :'?.55.% ,46' 6.<7.0' =4.'>'<6' ; .1 / ,< .<7'
;1 7 =4.'>.6' 'EE' 1.6'>.' 41,?#' 5' 6 'J 7'>.'7,47.' ' 71;'
; : ,6.'=4.'>.6' .'4@' .7'>.'5.416' '<@ 6.7<.<76%

,<6 .41' .7' % > 15, 6' ,47'=4 77.'5.' ' ; .77.'1.6 M
>.<;.8' ' ,6'=4.' '>' / .8' ?,46.'>.' ,<6 .418' .7'5"
?1 4; .66.>. ' / 0'55.'11 -..> <J5.7.11.?'1' 67.<>.%G'
Q5 % % + 'cJ' #,5,J<.%

' ' %

.67'6,<-.<7,<?,5 %7 =4;4<.'>. / '1; : .'><<J.1.776;'
=<; ; 155.'>.'174 < 1' & <' J1'<>' <,< 01.'> : , / < .68'75>'
?,41-46'>.'?1, 1 ;5>6' .7' 5 -1.6' " ; .77.'6,17.'> <>; '
?.<>'7 ; .'= ' ' ; ; , / ?'J<.'?1.6=4.'7,4Q,7 16' 5.'6.<7 M
/ .<7' >;'5"E,1; .% # .67' .<' '><<< 651'77,<'4<' / ,Q.<'
> 6?.<> . @' .7' E1'J 5.'>.' 6. ; ,41 1' <> J.<;.8' =4.'
; .54 ' >.'640-.< 1?'1'>.6' '7.5 .16'>.; : '1 7.'4' / '<M
=4.'>.'71 -'4@'=4.'?1,> 6.<7'7,4Q, 16' 5.6' -'1 '7 4<6'
' ' 6' 5.6' E,1 / .6'>?'J,4-.1<. 77.<7% % q

>.4@' <; ,<-17 .<76' 6.'E' 6' .<7 6.5 7 1''-.;? <6'
, 5' 7, <6' >. 1.'5 7>' >'<6' 1;7'05 66. / .<7' >.6' '7.5 .16'
>9';5 '1 7>8' E,1 / .6'>4<6'5";'?77'5.',4'>< '5.6' .<- 1,<6'
>>?4 6 5.' ;=4 < .<;a <.<7'>.'5" 1.-,547 ,<% <.' / 45M
7 74>.' & ,4-1 .16' -J1 7'05; / .<7' 17 . 6'?'1'7 ;EE.7'& . '
1; ,<67'<; .61' '-' .<7' 71,4-.' >'<6' ; .6' '7.5 .16' <<'
#,416' =4.'7,47' 5.41' 1.<>' 7' <> 6?.<6'05.8' .7' =4.'
7 0 :'<.'?,4-'7%5.4?'1.E46.1% ' 6'0 .<7 7'5.'?.4'> '6 '
75Q; 66. / .<7' " ,4-1'J.8' 5"E'; 5 7.'> V'>71.''>/ 68'
#;55.'>.'6.' / . 'J.1' '-.;' 5.6' Q,41 ; .6'>.' '7.5 .1'4<'
71'-' 5' .<' - 55.8' V' ,<7' '77 1.' 0 .<'>.6' ?.11,<<.6' =4 8'
'-.;'4<' ?.4'>.' ; ,41'J.' .7'>.'?'7 .<; .8' '41' . 7'?46.'
?1, ;41.1'>.6' / ,V. 6'>.'- -1.''471. / .<7% .6' ,4-1 .16'
.<71.7.<46' '4@' E1' 6'>4'71.6,1' ?405 ;' 6 .5;-' . 78' '<'
; , / / .<; . / .<7'>.' : -.18' "71.<5. >.4@' / 55.I' .7' ;.'
: .'E47' =4 "E,1; e>.'6, <'=4 ,<'?'1- <7' "5.6' 1. >4 E.'
% - <J7' / 55.'=4.5=4.'7. / ?6' '?1E.6' ; .77.'>?,=4.%

'1,1J'< 6'7 , '>4'>.?'17. / .<7'>.' '1 68' ;.'<, / 01.'
E47'1.>4 7' .<; ,1.I'?<5 <' 66. / 05>.'<'7 ,<'5.8'?'1'<<'
>.;1.78' 'V'<7' .<7 .1. / .<7' 64??1 / >' 5.6' '7.5 .16'>.'
; : '1 7>8' 5' " >7.'?1 6'>.6' / ,V.<6' ?,41'=4.'5.6',4-1 .16'
=4 '6 V 71,4-' .<7' , ; ;4?.68' 6417,47' ; . 4@'=4'< .7' .<7'
<' <5 1 / .68' <' J.68' ?466.<7' 6.' ?1, ;41.1'> '471.6'
/ ,-.<6'>;'- -1.% ' $

<' < "?'6' ?4' 6.'> 66 / 45.1' ; .?.<>'<7'=4.'>'<6'5.'
J1'<>' , / 01.' >.' ; .6' ,4-1 .16' 5' .<' .@ 65>7'0.'4 '
; ,4?'=4 ' .@ J.<7'>.6'1<><'J. / .<76' .7'>4'6, <% .'?'4 '
-1.6' E' / 5 .6' .<7 .1.6' - - ' .<7'>4'6'5' 1.'=E: .55.'1.7 '
. 7>;6' 71'-'4@' >.' ; : '1 7.N .55.6' -,<7' <.;.66' 1. '
/ .<76;'71, -.16'<6',4-1'J.%.7'?'1';,<6.=4.<7'5 -1>.6'
" ,<6' 5.6' / '4@' >.'5" / .<> ; E>8' >.'5' ?1,67 745 ,<.7'
>55' 01 J'<>'J.% ,41' 1. / .> .1' .<'?'17 .' " ; .77.'71 67.'
?,6 7 ,<8' 5" 4< ; ?'5 7.'- .<7'>.'E' 1.''<<,<; .1'=4.
*98 ' 5 -1.6',<7' .7.'?'17'J..6' .<71.'5.6' 6.;7 , / 68' ?,41

>71.'1>?'17 .6' ' / %'?'4-1.6'>;' .0' .<<.'> .55.6' =4 '< ' '
1,<7'?, <7' .<; ,1.'?4' 6.'?1, ;41.1'>.' ,4-1'J.>.?' 6'
5"64??1.66 ,<'>.6' '7.5 .168

#.77.' 71E.6' E' 0 ;' 1.66,41; .'<.'645K1' 7' ?, <7' 6'>.6'
71'-'4@' '66.0' ; ,<6 >.1'05.6' < ,EE1' .<7' .<' ; .' / , / .<78'
4<' EK,V.<'> , .;4?'7 ,<'?,41'5.6'?'4-1.6I'4<' / 55 ,<'
' >7>' ; ,<6'.1>' '>.6'71'-'4@'47 5.6I' >.;.'<, / :1.6,<7N'
4<.'J'11.' " # : '1.<7,<8' <<' ; '<'5' " '66V8' 5" >> / ,5 %
7 ,<'>.'5"0'11 >1.'>.'5" '?..'8' .7' ; .55.'>.'5" ?,15.'
' 47' K.E<'1>' .7'>.'5" J. 5.'=4 'V' 7 .<7% .6' 1.?'1'M
7 ,<6'>.6'= ' 6'>, -.<7'E71.' ; ,<5 <5 ..6' 6,46'>.6' .<71.M
?1.<.416I' .55.6' ?.4-.47' ,EE1 1'>;' , ; ;4?'7 ,<' " ' ,4'
U ' : , / / .6I' <' J1'<>' <, / 01.' .67' , ; ;4?.''4@'71' '
-'<@' >4' ?,47'>.' ,4 6' " 8' '5.'6, 7' " >J5 6.'>.'
5" ,4-.55. ' <7. ! .<.- >-.% *' .<' '77.<>' 9 ' +'
' <7 H5,1.<7 <8U " ' <7 '5.1V8' .7' 4<' ?546' J1'<>'
<, / 01.' .<' K,41J,J<.8' ?,41' 5.6' 71'-'4@' > 4<' ;'<'5'
=4.' ,<'V' ?1.?'1.%

("-$0(.'(" .('' .3(" 33 4(. *,' '+*" - ,(' *'
9.+*-' *).('-('9. " 0.$(.'' ⊞'(*' .(',(.+' (*3 .('
)(+ 3 4'-(' (2'5 $'(,+$(*,' 33 4("-(",.+0+ 2'-("
+.," -(' 2(' +$" ('.(, .' -' 3+ (/ -(' +' $)(.,('
4) 5 (/ -(+' ,.+*5 $ $#(/ (*(*3 .+9(+*, ($'4. !'
4.$(,+$.(" (,' ("9(*" .$36(" +'-("-(%4($$'('-(#+*,+$'$('
(,' -('9 ,'4. 3 .(.'+' -4 3 ($$,' + 33 2!3$' (4 .'
,$ ('-(' (." ,+ (*,' ' ' <$',' + ' 9 0(.$$(.+(*,' +' (!'
4-()(.'5 ('4+.' (')(' $*'$ "*('4+''($$,'3$$('U' (,.+*9(./
'*('('($0.(*,'+' -(",.+0+ 2'5 $' (" .(-.+$(*,'(*!'
' $,('$*3+4+) ("-('.(4.(*-.(' (."4.($*$-.(" 33 4+D/
,$ *' ' (',' +' (.#+3$ $,(. (8(*' -('4+''('. *',(4"
-('-(,.(''('4 .' (2/ 5 $' 3',' *,$(' -(4A 8(.' -("
-"' # $'**,'/ (,'1 0 '#+*,' -$',.$) (.''+"3("# .!'
+$,('/ 3("4(.5 $'$,$ *"5 $'-('6 * .(*,' *'6 **-,('
+.,$',(/ (,'5 $/ 4+.'3 *'(5 (*,' (').3($$,' + '(4.$0(.'
-(" '((." + 5*("$'+0+$,' -("-. $,'

=, ' ' F ' 8 E)

" ' ' "

(' (' (' ^ ' ,6'1; / ?'176' ,EE1.<7' ;<' ; .' / ,'
/ .<7' ;'6?.;7';5.'>.'?546'>.' ; .<7'0,4; : .6' "E.4'5,47.'
?1>7.6' " E,4>1,V.1'5.6' .<<. / 6' >.'5" ?'51 .% ! '1>.'
a 7 4<'5.68'71,4?.6'_ '5 .8; 5,V.<6'>.'7,46'5.6' .7'76'
4<< .6 '7 57.6-.<E',768' 7,<6' '1 / >6'>.' ? , .0.6' .7'>'
?.55.6V <.'6.<7' , ; ;4?.6' =4 " 1. / 4.1'5.6' 7.11.6' .7 '
7.1 / <.1'5.671'-'4@'&5.6' E,17 E ; '7 ,<6% # : ' ;4471<-' 5 '
.7' ; : '<7.'.<'71'-' 5 ' 5'H' 1'G 'RO'% .Q" 4<.'?'17 .'>.'
E,17 ; '7 .<6' .67' ?'5 66,>>.% ,<6' 5.6' ; 7,V.<]' 6,<'
<11'>6% ,71.' ?1< 6,<' .67' '< < ..% > 4<' 7.5' ' / ,41'>'
5" ?'71 .8' =4 .55.'O1E5 .%> <?'7 .<; .'>.'-,5.1' '4' ; , / '
0'7'?,41'-' <;1.',4' / ,41 1%

/ '<; : .' ' 5.6' 1.J / .<76' =4 ' #, / ?,6.<7' <,71'
J'1< 6,<',<7' ?1 5>5.'6.1 / .<7'?1.6;1 7'?'1' 66.1'05.'
<'7 ,<'5.'5.' C ' Q4 <'>.1< .1% .16' 5.6' > @' : .41.6'>'
/ '7 <' ; .6' ; ,1?6' / 5 7' 1.66,<7'?'17 6'>.'5.416'=4'17 .1'
1.6?.;5 E6'?,41'6.'1.<>1.'641' ; # : ' / ? >.' '16% ,<'
; .'=4' '-' 7' .7>' .@.;47.'5.'-.<>1.>'?1. ; .>.<7'?'1' '
J'1>.'<'7 ,<'5.'&-,V.0'5.'<G)('>.' ; .77.'E.4 55.P'
.7.'1>?.7.'?'1'5.6'71,4?.6'>.'5 J<.% .'- <J7 =4'71 . / '
1.J / .<78' ; >.-'<7'K1 .8' .<'J'1< 6,<' " 5" ; 7'>.55.'
<.'6 .67' ?, <7' 71,4-.' 641'5" ?5' <.''-.;'5.6'471.6'
> 671 04>6'>'<6'5.6' > EE.-.<76' =4'15 .16'>.'5" - 55.% '
?1 7.'5.'6.1 / .<7'641'5" ?5' ; .'> '1 / .6'>.' ; .77.'E,17.'
1.66.% ,<' .5'7G / 'Q,18' 'V'<7' % 40,6.' "6"7>5.8'
; , / / .<; .' ; .77.'.>1> / , / .' ; V =4.% .' ; ,1?6'>.6' ,E5'
; .16' 6 .67' .<6, 7.'1'<J>' .<' 5 5.8' .7' '?1>6' 4<'> 6; ,41'
.7' 5" 5.;741.'>.'5"E,1 / 45.'>4' 6.1 / .<7' 56' ,<7' <, / '
<'7 -. / .<7.7>'??.5>68' .78' 5" / ' <' 5.-..8' ; : ' ;477'?1,'
<,<; '8' ' ' 56' ,<7' .<64 7..7>'6 J<.1'5.' ; ,<71"
>'4 4,< 8' ?,41'5" >.E.<6.' ; , / / 4<.'>.'5" ?'51 .8' =4'
1. >< ' P'Q'< ' 61 <E> / .'5.'?'1Q41.'=4 '6.'6>?'1;1' 7'>'
; .77.'E.>.1'7 ,<% 1, 6' ,E5 ; .16'>.' ; .'1>J / .<7'<.'6 1
6,<7'?, <7' 71,4->6% <'6 .67' .<64 5.'1.<>4' '4' # : ' / ?

(7

>. '16% '' 71,4?.' '466 7>7 '' ?1 6 5'' E,1 / .'> 4 '
0'7' 55,< ; '11>8 .7 ,< '' ?1, ;. >.' '' 5'' / > / .' ; .1. '
$ / ,< .% % K 1,<8 / '1; ; : ' '>.' ; ' / ?8 ; , / / 66' 1.8
'' ?1,<,<;>'4<'> 6; ,<16.<'E'; .'>.' ; : '=4.' ; ,1?68 ?4 6
5'' E,1 / 45.'>4'6.1 / .<7 '' >7.'54.' >.'5'' / .' / '< .1.'
=4.' ; >.6646% 5'7 1,'Q,1>.5'' ?5' ; .8 'V'<7 % ,< '
1,6 .1 .< >5.8 '' ; , / / .<; .% < .67 '55.'64; ; .66 - . '
/ .<7 - .16 5.' (UD 1>J / .<78 ; >. - '<7K. '4Q,5' 6I 71, 6
E5 ; .16 <.' 6 V ,<7 ?'6 71,4 ->68 .7 6 @ .7' .<7 ,4 .<
>. 7' ; : . / .<7.' ,4 '06.<76 ?'1 #,<J.% < 6 .67 ?,17.'
.<64 7.' - .16 5.' 1>J / .<7 >.' .60' ; :8 64766.I 4<'6.'5
,E5 ; .1 <.' 6 V .67 ?'6 7- ,4 - .% B4 7 ,E5 ; .16 >4 1.J M
/ .<7 >.' 55,<'7 15'<>' 68 ,<7 1.E46.'5.' 6.1 / .<7% <
>, 7 1.< ' @c4.1 =4 '' 5'' E,1 / 45.'>4'6.1 / .<78 % 5.6
; , / / 66' 1.6 ,47 ,06.1- .'=4 56' ' - ' .<7,1>1.>.' 6
6. / 05>.' <'7 ,<'5.' >.' E' 1.' 'Q,47.1 ; .6 / ,76 N '
8)A
! *' ' 1 0 '
,<6 5.6 ,E5 ; .16 >4 >.7' ; : . / .<7 >4 1' / .<7 >.' K. '
6'7 =,<8 '17 55.1 .8 ,<7 ,0. ' '5'' 5, 8 ' 46'=4.' 5'' 01 M
J'>.' >.' 5'' J.<>'1 / .1 .' <'7 ,<'5.% ;4%@ ; '? 7' <.68
>.4@5 .47.<'<76.7=4'71.'6,<6 5 .47.<'<76>4 ?1. / .1
1.J / .<7 >.' ; ' - '7;1 .8 ; >. - '<7 #,5,<.5 ! .<.1'58 ,<7
1.E46.'>.'6 V ; ,<E,1 / .1% .6 ?'71 ,7.68,E5 ; .16 5 ,55'< '
>' 68 '4<, / 01.>.'71.<7. 6 @%'4'6.1- ; .'>.'5'' H1'<; .8
6.'6,<7 '466' .<=B1.66.6 >.' ?1>7.1 5.' / > / .' 6.1 / .<7%
'' ; .1. / ,4 .'8 ?.<>'<7 5'44.55.'5'' / 46 =4.' / 5 7' 1;'
'' ?1.6=4.'7,4Q,<161.Q@ 5E7 ' 1 & O I \ '8 '' >41. 46=4 ''
71, 6 0;41.6 >.' '?1.6 / > %
% > 4 / ,<78 : .<7.<'<7 J><.1'5 >;6'1 / .68 . / M
?5,V.'?,41 ; ,1' <'<>.1 .< ;54 E '' 55.'6,46 5.6 ,1>1.6
>.' % , ; : ' / 0. '48 .67 '11 - .' - .<>1.>'>.1< .1%
4 ; '5.'> 6; ,416 ?1,<,<; .'?'1 % K 1,<8 .<'E'; .'>.'
; : '=4.' ; ,1?6N
W ' <.67 ?, <7 >.' H1'<=' 6 =4' <.'71,4 - .'>'<6 6,<
; ,.41 5.6 ,05 J'7 ,<6 =4 / ?,6.'5.'6.1 / .<7 ?1,?,6.' ''
'1 / . .'?'1 ' 66. / 0E. .'<'7 ,<'5.% 41.1 >.'>.E.<>1.'
5'' ?'7 .' .7 >.' / ,<1 1?,41 .55.I Q41.1 >.' <' <7. 1 5''
#,<67 747 ,< > .7>.' ?'1 5'' - , ,47.' J.<.1'7.'>,<7 5.6
1.?1.6.<7'<76 >.'5''<'7 ,<6,<7 H41J'<.I #,<67 747 ,< '
=4' ' 7.1 / 7 5'' / ,<'1; : ; ,< >. ;5'1'<7 5'' 1,V'47.'
<.1>> 7' 1.'?'17 .'>.' ; .77.% #,<67 747 ,<5Q41.1 '6, <
/ 66 ,< '' 5'' 5, 8 5.' ?1. / .1 0<>. / ; <7>4 0 ,<0. 71
>.6?. ,?5.68 4< =4.6'4 - .J'1>.'>.'5'' 5 0.17>I>.7.57.6
; ,<> 7 ,<6 6,<7>. '>. - , 166' .1>6 ?, ,1 >. - 1' 66,5>'76%
.'>; - ,> / .<7 ' '' ; : ,6.'?405 =4.'8 5.'6, <6' ; 1.'>.'6''
>.E.<6.' ,<7 1.4 '7, 7.6 5.6 ^ < 4<6 >'<6 66. / 05. .'
<'7 ,<'5.8 ,<7 . ; '17.'7,47.6 5.6 > - 6 ,<68 , 7.55' .>'
7,<6 5.6 > 66.<7 / .<76 ?<17 ; 45 ; 16I 5.'>; - , : / . 7 '' 5''
; : ,6.'?405 =4.8 5.'6,<'6' ; 1.'>.'6''>>E.<6.'1; 44 H, 7
'466'H'1 / . .% .6 : , / / .6 ; ,<1'J. @ ; 7 5 01.68 5 .6
?'1 5.' / > / .6.1 / .<7 <' 1,<7 ?546 =4 <.' / > / .'> <.N
56 <.'Q.77.1,<7 ?'6 4< 1.J'1>' <47 5.'641 .'?'66.I 76
6 4< 1,47 ?,41 >,<<.1 .@. / ?5.'>.'7,47.6 5.6 - .1746
; - 5.6 .7 / 5 7' 1.68 .7 ?1,4 - .1,<7 ' 7,47 5< - .16
=4 5 4 .67 ?, <7> '<<. .'?546 '467.1. / .<7 > 6; ? .'
=4.' ; .55.'>'4<'<.4?5.' 01.'=4' ,06.1- .'5 >.5. / .<7 5.6
5, 6 =4 5 6 .67 ' ,<<.7T6%Y
,16= .' % 5.6 ; , / / 66' 1.6 >.'H 66. / 0 . .'<'M
7 ,<'5.' ' % >.' , ; : ' / 0. '48 ; , / / '<>' / 7 J.<.1'5
>;' '1 / >.'>4'>.?'17. / .<7 >4 ,1>8 ' 7 - .1.<7 - . '
>1.>'>.1< .1 '' 5'' 6.'<; .' .@71' ,1> <' 1.'>.6 / 6 >.'
5'' #,<67 747 ,<8 56 V E41.<7 ' ; ;4. 55 6 ' - . ;'7,<6 5.6
71'<6?,176 >.' '' E1'7.1< 5.' '' ?546 ?41.' ; 7 5'' ?546 7,4 '
; : ' 7;% .'?1.6 >.<7 >.'5'' 4; .7.8 % H'4 - .58 / >>. '
; <8 5.41 '>1.66'' 4< > 6; ,416 6' J.8 71.6 'E ?1,?1 .' ''
5'' ; 1; ,<67'<; .% % 5=4 .1 V 1>?,<> 7 > '0 ,1>8 .7
% >.' , ; : ' / 0. '4 ?'15'' .<64 7.% ,<6 ; .6 > 6; ,416
E41.<7 J><>1'5. / .<7 '??5'4> 6% 56 6 '75' ; : .1. 7 641 '
7,47 5.6 7 <6 .7 5.6 '471.6 '' >. - .5,??;1 ; .77.' - .1 7.8
=4.' >.' 5'' ; ,<E4' ,< >.6 ?, - , 16 ' 66;<7 5.6 ?546
7.11 05.6 / '5: . 16I =4 .< ; ,<6.=4.<; .' ; : ' ;4< >, 7
6.'0 ,<5.1'' 1.' / '?' '1 ; @' ; 7.< .<76''7>. : .8 64<6 ; : .1; .'.1
'' ;<71,?1, 51.'641 ; .55.' I5;6 '451.6% < '' 1. / '1=4.

4.' % >.' , ; : ' / 0. '4 '% ?'15 '> '0,<>'<; .'>.' ;EE 418
' 66. / 05.' E47 6' 6 .' > .<7: ,46 '6 / .8 5,16=< 5 < 7
?'1 > 1.N 7 ' ! ' ' ' ' ' ' ' '
' ' ' <,<J'' .<64 7.'=4. % > 4 / ,<78 5 .47.<' : 7 '
J. <.1'5 7 .6 '1 / . .68 >. - ' 7 '11 - .1 <; .66' / <. 7 ?,41
V ; , / / ' 45E ?6,46 6.6 ,1>1.6% % K 1,<8 .< 1.<>'<7
Q467 ; .' '' ; .' J.<.1'58 > 7=4 5 / ; 1 7' 7'' 7,<6 .J'1>6
<,71.' .<7 .1.' ; ,45 '<; .% % K4455.>. / '<>'' ?,41 <'
.7 ?,41 6.6 ; ,55.J4.68 <. / 01.6 >.6 ' ; ,0 <6 '' '1 6
H'< 5 '7 ,< '' '' , ; .7.% #.77.'?.7 7 ,<8 / 6.' '4@ - , @
E5 7 ' ; ;4. 55 .' ' - . .'71'<6?,17 .7 '> 6.' '' / '< / 7'
>.6 64EE1'J.6%

%

+' ' 3$ - ,(- ('' $'' - (+ $$' $,*,$ *' - (+ $ - $
4.(0$(*.((('' - (' + .('' 0$ ('' - ' . 8+ (5 ($$
*(.(3(0.+ + 3$ $ 4+5 (,'5 $ *(' $' +##.+*36$/ '$ 3;
* (' ' - (+ ' 3$(,(- ('' A+3)$*'' - (+ .$'/ 5 % (((2!
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' / ++ '

8 ' ' F ' G '

' ' ' ' K%

$*(- (4 ,+,$ *' - %+.,$',('' (' ,'+- $'(+ +)+. .(
/ ' ' N ,46 - , - ;0 >. - % 1
- ,46% .6 '17 67.6 ; , <?,6' 7 .'041. '4 >.6 0>7 <; 5
>.' 5'' < 4< ; ?5 7.' >.' '1 6I 76 - .<<. 78 ?5. 6 >
1.6?. ; 7 7Q ; ' ' ,<'>, 7 '4@ 1.?1.6. 0 76 >5 1 ' ?. ?5
5 01.8 ,E 1 1 '' + ?471 .' 7 <.' ;4 71 0<5 , ' - ,5,<7' 1.'
>.67 <>.' ' >.E.<>1.' ,6 E1, 7 .1.6% '' ?'71 .' .67 '
>'<J.18 5 E'47 =4.'7,46 6.6 .4E'<76 6.'1.44 66.47 ?, '
+'>.E.<>1.7 8 8
' ' '/ *($ 0+* ,'+)+* - ** (,' ('4 ' ,('* ,'
+ 4,+3- '' + $3$4+ $,' - (+ .$'/ * '' ' ,(44 '
'' ( ) - (*+,$ *+ (,$(.33(0 $.' (*9 $9(*$($$' 5$
* '' 3 * ,.+3, $$'' - (0+*,'((' - (4 $0 $./ 4(* - +$ >,'
+*/ + ($$,.(,$(* - (- $2 - (* '' #.(.('' - %+. (/ 5 $/ '3/
-3',$$$(*,'0 *,+$.((,' + + - (#(*'(- ('' #. *,,(.(' '
/4;$.' *(3 * ,.$) ,$ *' 0 *,+$.(- (' ') **
4. - (0(3' .' ('+4$$ $*,((*,'5 $ * '' ' *,'+33 . - 7 '
4+.' + $* *$3$4+ $,(' $'' (* ,.((2(4,(' - ,.(' $0D
4+.' , * '' 3(2 5 (- '' 3$.3 *' ,+*3('' 4+.,$3 $(.3'/+ b +,'
3 $(*,' ' (. '' # 8(.'Z 4 $'' (- 9+$(($$,' (- 9(.' '+3.$ '
$3(5 (* '' #+$' '+ + 4+,.$(- ,.(+ 4.('' - (% '
'( ) - (*+,$ *+ ((9+9(- (- - 0 # *,/4 #/ `'
- (#(*'(- (* ,.(',$,$$,$ *'
4.'>.?47'7 ,< >.'5'' ; , / / 4<.'>.' ' < ! ;11'' 4 '
.< ' .8 ; , / ?,6>.'>.' ?1 6 >.=4'71. ; .<76 J'1>.6 <'78
7 ,<' @8 .7' ' ; ; ,4 ?'J<>.'> 4<.'>>?47'7 ,4 >.6 ; : '618
6.416 >.' ,11' <.8 .< J'1< 6,< >'=J ; .77.' - 75 .8 .67
< 1,>4 7.'>'<6 5'' 6' 5.' ,< .55.'?1>7.8 .<71.'5.6 / ' <6
>.'5 66. / 05>.85.'6.1 / .<7 =4 ,<7 E' 7 7,<6 5.6 ; 7,Q.<6
>.'5'' ; , / / 4<.'>.'6' ; 1 5 ; 1 5.416 - .6 ?,41 5''>.E.<6.'
>.'5'% #,<67 747 ,<%
'>.' % 5.6 6. ; 1 7' 1.6 E' 7 5. ;741.'> 4,'71E.6 J1'<>'
<, / 01.'> '>1.66.68 ?'1 / '5.6=4.55.6 ,<'1. / '1=4.'5.6
64 - '<7.6N

' ' ' ' ' I
,
D #*(* '' .(,(- ((0(*((*,' 5 $ - (0+$,'* ''
,.('$ # *(',(/ 5 (('(*,$ (*,' - (* $.(# .3(' *'
* '(3.$, - (+ '$(**('5 (4 $ - (',4.(' - (+6)+8(
- .0+'+0(3 BX/ I I I' 6 $*('/ 5 $' *,' (* 8+ ' - *(
+.$*((4 '# .*$$ - +6 (5 $ - $,')$(*, - ,# * - .(% ' ,'* ''
$ '' 0$($ (*,% (.+*5+$'/ $*,. - 4$ - (.'5 %$' (4 !'
)+,,+$'4 .' '('' . $/ '(.+$*0$*3$) (.'5 %$ 2 $*)+,!'
,.+ 4 .' + $)(.$('K
' 3 $3$3,')'(.0(5 (('' (,. ('' - ' - (4+.,((*,'
- ('' $%3 3$$*('' +*$$ 3($$,' 5 (' '' $ (+ 4+'' +0(2,'
)$$ F I I' 6 $*('

/ / ' ' 43) ' ' ' ' , 0'
(

W ,46 6, / / .6 ?1 6 ' / ,4<1 ?,41 .@.;47 ,< >.'
<,6 5, 6%%%%%Y $
=* ' ' & ' A! ' ' & 8P

, ' ' !! ' ' 'G &

$ .4@ 6,46;1 ?7 ,<68 6 Q;;.66 -. / .<7 ,<-.17.6 >'<6
<,71.V 55.' ?,41 <6;1 ?7 ,< >.6 ; 7,V.<6 =4 '6.'>.6 '
7 <. 7 '' V,5.1'' 5'' >.E.<6.'>.6E1,<7 .1.68 ,<7 .7>'1. / '
?5 .6 641 5. ;:'7<?% .6 :'0 7'<76 >.'<,6 ;</? J<.6
,<7 '11 7.'=4.'5.6 7.11.6 >.'<,6 '06.<76 6.1' .<7 ;457 '
V. .6 ?'1 ;;4@ =4.'5.'6,17 E,1;.1'' '' 1.67.1%%%%Y
'1< ' 5.6 '471.6 '>1.66.6 ,< E.< '1J4.' /' J1'<>'
<, / 01.'>.'>,<6 ?'71 ,7 =4.6 >.67 7 .6 '' E'.<7E.7 .,'>.6
J'1>.6 <'5 ,<'4@ . / ?5,V.6 =4@ E1,<5 ;1;6%
% K,V.1 E' 7 5.' 1'??,17 >.' 'E5' 1.' >.6 34 <0. '
<J76% ' ,06.1-.' fY=4 4<>.;1.7>45 '-1 5'V'<7'< '
<45.A 5.6 '11E 76 >4 ;,<6. 5 ?'1 5.6=4.56 5.6 '<; .<6
'><< < 671'7.416 >.';.7 : ?7'5 '-' . 7 .7.' '10 71' 1. '
/ .<7 >.67 7<>68 .7 1. <?5';>6 ?'1 5.6 'J.<76 >.' 8 5.'
;'1> <'5 , :'<8 .7 'V'<7 '47,1 6.' 5.6 ?'17 .6 5.6..6 ''
$6.'?,41-, 1 ?'1 >.-'<7 5.6 71 04<'4@8 5.'71 04<'5 >4
=4'71 E. / .''11,:> 66. / .<7 >4'>.?'17. / .<7 >.' '1 6 < ''
E' 7 =4 .@.;47.1 ;.'>.;1.5 .< 174<5. J1'<7 5.6 '<; .<6
'> / < 671'7.416I C,8'=4.' 5.' > 1.;7, 1.' >4' >.?'17. '
< .<78 .< >.65 74'<7 5.6 '> / < 671'7.416 <4<7.J1.6?'1
5.'71 04<'58 ?,41 5.41 64067 74.1 ;.4@ =4'<.'7.<' .<7
5.416 ?,4-, 16 =4.'>.6 '11>76 >4 ;,<6. 5 '< / 5;6 ?'1
5.'>>;1.7 >4 ' '-1 58 '' .<E1. <7 5.667'7476 >.' '' / ' 6,<
=4' ';;,1>.<7'4 ;:'? 71.' < <, / <'7 ,< '4@ ?5';.6
-';'<7.68 .7 ?'1 ;,<6& &P4.<7 ;,<51.-.<4 '' 5'' 5, ' >4 '
#7,01.'=4 ' ' <7 ,<7 ?1,- 6, 1. <.<7 5.6 '<; .<667' '
7476.515SJ5. / .<76>.6: ?7'4@I _\8=4 .<1/ 7';,_</ 6
<<';7;''10 71' 1.'.7 Q5.J'58 .<;.'=4.'5''641-.Q5'<;.8
';.,1>..' '4@ '> / < 671'7 ,<6 64?;V .4-.6% 641>.'1> %
J / .% >.6 : ?57' @8 < .<51'E<.'?'68 '-.= .55=5.8>1, 7
' .< >.67 74.1''10 71' 1. / .<7 5.6 '> / <Q671'5.416)
''( ) -(.(*-' H -,$3.4,''*$0+$, c' M$
Z % . ''( )$((*+,$ *+ (/54.-'' +0 $.' (*,(*-*' ' * '
4 ,*$,(-(' !+44 $%,'/ -(3 .(,3' M %
87 '83'.'5.6Q46; / .<76 1.<>46?'1 5.'71 04<'5 >.' '1 '
1,<> 66. 4.<5>;6 34 <0. <J56 8 641 5.6 ;,<7.67'7 ,<6
> >'6;'6,45 .5.-. .6 .<71.' 5.6 '<; .<6 '> / < 671'7.416
&7,' 1 4? '5 %>< < . / .'?, / 8 5.' ?1,;41.41 J.<. '5 '
6V<> ;'>4'>.?'17. / .<7 .7 5.66 .416 K.;:.7 ;7 45 ' / .58
6.1,<7-.@.;<7.6 6< -'47 5.41 E,1/ .'.7 7.<.4 8 .7 =4.'
7,<6 5.6 '11.7 68 =<.' 5.'> 1.;7, 1.'>4'>.?'15. / . 7 >.'
'1 6 '' ?1 6 ?,67.1 .41. / .<7 '<@> 76 Q4J. / .<76 641
'> / < 671'7 ,4'>.';.7 :,4 745% 6.1,<7 1.J'1>.6;, / 4 .'
?,4 '-.<468W
''6. '7 ;.'(' (0(('' *$$(.('/

' ' O ' E' A

' '?1,6 ('')'(.0+,$ *''#+$,(''?'1 / '' 36(/ 'f
' '>,cP7.
. '5W18 .6 >..1.76 >'' 66. / 05..'<'7 ,<'5.'=4 '
6;1 7 1, / 546 '' E'-.< 1 ;,<7 .<>1,<78 64 -'<7 =4 56
6;1,<7 1.5'7 E6 '' 7 .6 ,0Q.76 > 47 5 7.' J.<.1'5.' ,4'>.'
?41.'5,;'5 5>'=4 ' < <7.1.66.1,<7 ?'6 ?546 > 4< ;5. ?'1 '
7.< ; 78 5'' ;5'46.'=4 56 6.1,<7 / ?1 < .6 .7 .<-,V;6
>'<6 5,46 5.6 >.?'17.< .<768 ,4 0 .< =4 56 6.1,<7 .< '
-,V.6 6.45. / .<7 >'<6 5.'>.?'17. / .<78 ;,1?6 '> / < '
71'5 E ,4'71 04<'5 =4 56 <7.1,66.<7% r
9 > ;1.76 5 .'5'' ?1. / .1.'.6?.;.'6.1,<7 / ?1
/ .6 .7 .<-,V;6 ?41 5.' / < 67 .''7,<6 5.6 >;?'15; / .<768
5.6% 451.6 <.'6.1,<7 . -,V>6 =< .< / '<46;1 5 ,< >.M
?'17. / .<78;,1?6 '> / < 671'7 E,4'71 04<'5 =4 56?,41 '
1,<7 ;,<;.1<.1%
' $' $$! 9+ +*-' 4.(%'(*#(*' 4. (' -(-.#(.('
3 *(3.* *' (' -. $,'' ',$=4.$ (%'' '+*'' $*-(*$*$,-/ ('
('' ',$3('' '($9*(.$+ ,#''+$(*(%(''+ ' * ' -(,+, '

6 .1'05..'.17,1>,<<.1'Q,41<. / .<7 '' ,<.'67'<;.'
>4 6, 1% 8' 8
' ' M9 'N .'64 6 ;0'1J>%>.'-,46
/ .771;'6,46 5.6 V.4@ 5.6 1.;5' / '7 ,<6 >.6 ?1<; ?,5.6 '
- 55.6 ><'1,V'4 / '8 641 5'' >.71.66.' ';74;55.'>.6 >? F
7'4@I .55.6 6,<7 '?? V..6 >.6 <67'<;.6 5.6 ?546 ?1.6 '
6'<7;6 >.6>.?'17. / .476%
$ #.' < .67 ?546 4<.' > 6?,6 7 ,< ?'15 ;55.' .< E'-. 1
> 4< : ?7'5 ?<17 ;45 .18 <' 4<.%>.<'<>.' 6,5..'=4.'
<,46 -,46 ?1,?,6,<6I ; .67 4<.' > 6?,6 7 ,< J.<.1'7.'
.< '-.41 >.'7,<6 5.6 : ?7' @ >4'1,V'4 / .8 =4, =4.'
?1,- 6, 1.%
.6 1.;5' / '7 ,<6 6.'6,<7 <;;4 / 45.;6 >.'7,47.6 ?'176 8
.< J.<.1'5 .55.6 ?1.6.<7,<75.6 / > / .6 / ,7 E6% '' 64?M
?1.66 ,< >.6 ,;71, 6 .7 >.6 >1, 76 > ;471..' '' '<.' 7'
5.6 1.-.1 <J .7 1 / ?,6 7 ,<'>> 7 ,<<.55.'<.'?.<7 '-, 1
6,<.@.;47 ,<'466 1'? >.< .<7=<.1.@ J.<75.65 .6, 6
/ ?.1 .4@ >.6 ?' -1.6 .7 >.6 <5 1 / .6%
' .'-' 6 -,46 >,4<;1 71.6 64;; <47. / .<7 5 <.' >>.'>.'
;.77.'>.71.66.' >4<6 =<.5=4.6 >.?'17.< .<76% ,< >.'
<,46 5'' E' 66.'?,5 7 ? .' >.' -,46 >.J4 6.1 5.6 / ' @
=4 ' ?.4-.<7 -,46 4E55 J.1S -,46 '-.0 '' -,5,47.' .7 5.'
?,4-, 1 >.'5.6 1.?41.1I 5'' <'7 ,< J.<;1.46.'=4.'-,46
1.Q< .6;<5.0 1>44 7 .< -,46 7,< ;'6'' ;, E '<;.%
0 ? 745 >.' 55.' >?1,4-.?'1 c'' 64??1.66 ,< >.6
,;71, 6 6.45. / .<7 4<.' ?.17.75.' (89 ' 5 -% '<6 5''
/ . / .' -55.'>-.16.6 '471.6 / ' 6,46%>.' ;0'1 7.' 6,<7
?1 V..6 >.6 1.66,41;.6>, 7;55.6Q,4 66' . 5I 5'' 0,416.'
;, / / 4<.'>.6 ?'<V1.6 '' .77'E,1;..'>.'?4 6.1 >'<6 4<
>.?>?6';1.' '??'17.<'<7 '4@ ,1?0.5 46 4<.' 6, / / .'
>.'U 8 '5 -%8 .7 .55.'>?', -.'?'1 5''64??1.66 ,< >;''
,;71, 6 4<.'?.17.'>.' (8 '5 -% >.'1;-; / %
'' -55.'5 .'#'< 01'' .7 7, 7.6 5.6 -55.6 .5 5.6 :>? '
7' @ >4'>.?'17. / .<7 >4 ,1>8 =4 ' < '-' .<7 >.'1.6 '
6,41..'%=4.'>'<6 5.6 ,;71, 68 .?1,4-.<7 5.6 / >< .6
' Q.6, <6 .7 6,55 ; 7.:7 5.6 / .< .6 6.;,4168 ' %
' .6'> / < 671'7.416>4> 1.;7, 1. 5.';.'>.?'17. / .<7
< ,<7 8 > 6.<7 568 =<? 5'' ? 6%_/ ;.'>.61.?1.6.<7' ,<6I
8 56 5V6 ,47 E' 7.68 56 5.6 1. 7;1.<78 .7 5. 1 >.-, 1 .67
' 1. / ? 564.?. V.<7 ?546 8' ,47.<7 56% 71.'1.6 ,<'
' 6'05.6 >.6 ?-.<. <.<76 =4 '6.1, 7 5''64 7.' <.- 7'05.'.7
71.6 ?1 ;0 <.%>.'1.@71> / .% / 6.1.' >,<7 56 6,<7 7>'
1,, <6 6'<6 ?,4-, 1 V?,17.1 1.< .>.%
B 7.5 .4 >.' '16. 55.'.67>'<6 4<.'7.55.'?,6 7 ,<8
>4.'5.6 '> / < 671'7.416 >.' ;.7 0>? 7' '64<7 ' 5'' -. 55.'
> .< '0' >,<<.1 5''1.J .8 >.' ' 66.1 6'<6 '5 / .<76 .7
6'<6<,411 741.%=4'71.' , ' ; <= ;.<76 / '5:.41.4@ .< '
E' 76 .@?,6.68 .7 .<- 1,< =4'71;' ;.<76 <454>.6% 'E'478
> 6. ' 5.6 '> / < 671'7.416 >4' > 1.;7, 1.' >4' >.?'17. '
/ .<7 >.6 K,4.5 .6 >4 0 <.8 ?1.-.< 1 4< .-.<.1'.<7
=4 8 'JJ1'-'<7 5'' 6 74'7 ,< >.6 / '5:.41.4@8 5.41 E. '
1' 7 / 44 5 1.' 5''1.-,547 ,<8 ';;46.1 5'' 5.<7.41>.5''
5, '8 .7 71,405.1 5'' ?' @8 6'<6 5'=4.55.' 5 V '' ?'6 >.'
0,<:.41% %
.6 '> / < 671'7.416 >4' > 1.;7, 1.' >4' >.?'17. / .<7
>4 #'5-'>,6 -,46 ?1.6.<7.<7 '-.,'5'' / > / .' . .1J .'
5''6 74'7 ,<'EE5 J.'<7.' 5.' ' ;,? 5'5 J><.1'5 >.'5'' -55.'
>.'#'.<8 ?1 -.'> 4<.'J1'<>.'?'17 .'>.'6,6 1.-.<46 ?'1
5''64??1.66 ,< >.6 >1, 76 > .<71. .8 > ,;51, 68 >.'Q '
1'<>;68 / 'E71 6.6%
' ;,<6. 5 J.<.1'5 >.' 5'' ;, / / 4<.'>.' ,416 -,46
.@?,6.'>J'5. / . 7 5'' >. 71.66.' ' : ? 7'5 J><.1'5 >,'
;.77.'-55.% .'5.1 / . - 8 .66 .4168 ;.6 .7< 568 ;<
-,46 >,<<'<7 4< 'E .1Q4 >.'5''6 74'7 ,<'>.6 : ?7'4@
>55 >.?'17. / .<7 >.' '1 6%
.6 <.4E < ' 6,<6 ,4 :,%6? ;.6 =4 ' 6,<7 ;, / ?1 6
6,46 5'' >.<, / <'7 ,<)9 A% ' '8 '
?,66;>' 1 7 .< (* '4< 1.-. 4'=4 '6.' / ,<7' 7864 -%4 7
E.6.7'7 8 ' % (8 * '5 -% 55.6 ?.1>.<78.<>1, 76&1,;M
71, 6 .7 .< >1, 76 641 5.6 6?.;7';5.68 C8 **8 '5 -1.6%
Q .6 K,4-.55.6 / ?,6 7 ,<6 641 5.6 / / .405.6 6 .5.-;'
1,<7 ?1,0'05. / . 7 ' 8 '5 -% .6 ;:'1J.6 >,<7..6
/ / .405.6 6,47 J1.-.6 6,<7 >.')U8 ' -'
<7,47 C%(%) '5 -%

[illegible]

5'' >.7<'<>.'>.6'>>?'17.KQ.<5 ' ;6'6, / / .6'=4' <'6.'
1,<7'?1 ` .<7>.68'?,<1'>71.'5.6> 7.6'6, / / .6'1.?'17 .68'
6,<6'5''6<1-. 55'<;. >.6>.?'17. / .<768'>'<6' <6' - 55.6'
>.'5.41''11,<> 66., .<7% % %

F % 4;4<'?'17 ;45 .1':.'6.1''>/ 6''>;:'<J.1''
7'';' 66.'>.' .@71',1> <' 1.8' 6 5' < .67'?,17.<1'> 4<'
/ '<>'7'>.'6,<'> ?'17. / .<78'=4' <> =4.'5''6, < / . ''
?1.6.<7.1' '' .;:'<J.8' .7' .< ?5, '>.';.77.'6, / / .%

"% ' 6.1'' >.5 -1.' '' : 7;5' >.6' ,<<' .68' ?'1'
.;:'77J.';.<71.'>.6' '66 J<'768' '4@' . / ?5,V.6'>'<6'5.6'
6.;7 ,<6''5''> 671 047 ,<'>.6' '66 J<'768' 4<.'6, / / .'.<'
/>/ '/, / ' .'>.%,4 -1.8'5'=4.5 .'6.1''>;6 J<. .'4'
/ '<>'7'>4'>.?'17. / .<7'>,<7' 56'>.-1,<7>71.'?,17.416

"% #:'=4.'?.16,1< .' .'?1>6.<7'<5''4@'041.'4@'> #'
;:'<J.'> '66 J<'76'>.'; <='5 -1.68' >'<6' 5.6'6.;7 ,<68'
?,411''>. K'<>.1=4 5'54 6, 7'1.<>65'6, / .'>.'; <='
-1.68'.<'1'>/ .' / ,<<' .8'?'1' ;:';4<'>.6' '66 J<'76'
>.';.<7'5 -1.6'.7'<' >.66,46' =4' '41,<7' .7>'>/ 6' '
.;:'<J.%

66. <05>.''>,?7.8'6'<E'1.>';7 ,<8'5.6'71, 6'?1.M
/ .16''17 ;5.68'.<';.'6.<68'=4.'5''7,7'5 7#'>.6' '66 J<'76'
>.';.<7'5 -1.6'6.1'' . / ?5,V>. .<'?' . / .<76'?'1'5''71>'
6,1.- .'<'5 ,<'5.8' %

% % #.1<,<'?1. 6.<7.' .<64 7.'5.6'>. ;1;76'64 -'<76' I

A ' 17% DGH% .'<, / 01.'>.66 J<'7' 116'
6.1'' > 671 04.'' <6' =< 5' 64 7' 16 @'6.1,<7' ,;;4?.6' ''
F J<.1'5.6' '66 J<'76' >.' ' %8' 6. 0.' '4@' '66 J<'76'>.
%8' - <J7' '4@' '66 J<'76'>.' i' : 4 7' '4@' '66 J<'76'
>.'>,' 88' :4 7' '4@' '66 J<'76'>.') i' : 4 7'<@' '66 J<'76'
>.' (' i' : 4 7' '4@' '66 J<'76'>.'9 %

% ''5 65.'>.6' '66 J<'768'<,4-.55. / .<7' '>/ 6' 6.1''
1.<>4.'?405 =4.'?'1'5''-, .'>.' / ?1.66 , 8' .7' '>1.6G'
6..'>'7,<6'5.6'>>?'17. / .<76'>4'1,V'4 / .%

' ' 178' G %' ' .1'' E,41<' '' 5'' 71>6, '
1.1 .' ?'1' 5'' ;' 6.' >.' .@71',1> <' 1.' 5''6, / / .' >.'
UU89)8 (9'5 -% ?,41' 4??5. / .<7' '4@'>.?.<6.6' ,1> '
<' 1.6' >4'1', 6' 4.'Q4 <% ' d

% '' ;' 66.'1. / 0,416.1'' '' 5'' 71>6,1.1 .' 5''6, / / .'
>.' 558**58U (5 -% .<1. / ?5';. / . 7>.?'1. 55.6, / / .'
?'1' > .' '-'<.>.' ?,41' ';=4 77. / .<7' >.6' >.?.<6.6'
?'17 .45 #1.6'2' '<<>.' (9 %

#;6'>.;1.766,<7'>,?7. 6%

% K'0'47' ?1.6.< .' =4;5=4.D' '17 ;5.6' '>> 7 ,<<;56'
7. >'<76' '' E' 1.' ?'66.1' ' 5'' / 4 :; ?'5 7.'>.' .'4;' 1 '
4<.'6, / / .'>.'U '5 V% .<'?.7 76'66 J<'768' '5 4' >.' E' '
; 5 7.1'5.6' ..:'<J.6'=<'6.1,<7' <.;.66 5.6' Q?1' 5'' E,Q1.'
=4 '6.' 7 .<7'>'<6';.77.'- 55.' 5.'U)'>.';.' <, 68

41';.77.' ?1,?,6 7 ,<8' 66. / 05..' ?'6 .'' ,1>1.'
>4Q,41%

% 5.' ?1. 6 >.<7' '<<,<;.' 5'' / ,17' >.' % ,;:.'
;0,4'178' >.?47.' >4' >.?'17. / .<7' >.' '1 6% +' ,<'
64??5.'<7' .67' % .J41'5.';'>.7%

!' ' " .(+ 2! '$ 4.('(*,(/+ ' * *$ - ' ($, ' $!'
+$.(/ (%,+;' -('' 4 +3('' -(' 9 (..(

@ ' ' ' & ' ' ' #
' ' ' & / ' 0

" \E ' ,

8 ' #'5' 6' .7' > ?.<>'<, .6% ! 1'-.5 <.68' K4 / G'
.1=4.' .7' >.?.<>'<;.68' K.1J4.6' .5' >.?.<>'<;.68'
' <7 / .18' 55.8' ,4' ' ;7'>.?.<>'<;.68' '5.<; .<M
<.68' #,<>..7'>.?.<>'<;.68' '40.4J.8' 0 5 ??.- 55.8'
#:'15. / ,<7.7'5.6' ! '-.768' .O 1.68' .>'<8' ,<7 / .>V8'
,<J [V8' : ,<- 55.8' .708' '11. ,4 68' K 5;:.8' '<M
>'4' .7' & >?.7>'<;.68' 71'60,41J8' .4E K1 6'; 8' B4'
< <J4.8' K.6'<;,<8' H,17 K'11'4@8' ! 1.<,05.88' K1 '<=,<8'
,<7 '4?: <8' <7 0.68' ,45,<' .7'>.?.<>'<;.68' 5.6'
E,176'>.' '16. 55.8' .1? J<'<' .7' >.?.<>'<;.68' ,17 '
.<>1.6' .7' >.?.<>'<;.68' ,< ,4 68' K' <7 .'<'
? .> >. ,17% K'-,<<.' .7' >.?.<>'<;.68' '0 ')7 A

1,<8'5' , ; : .55..7'>.?.<>'<;.68' B .'>.' >I' K.55.'
55.'.7'>.?.<>'<;.68' ,17 ?4 6' .7'>.?.<>'<;.%68' K1.67'
.7>>?.%<>'<;.68 ' <7 '5,.7>.?;<>' ;.68#0.10,41J'
.7' >.?.<>'<;.68' 5.' B>-1.8' Q';; ,' .7'>.?.<>'<;.68'
K'65 '8' ,7'58' U)' ?5';.6%

8 ' H,17 5 ; 46.8' .11. #:>7.58' 34. 1'68' 5.6'
E,176'>.' # .77.8' K.55.J'1>.' .7'>.?.<>'<;.68' 5.'> @'
.7'>>?.<>'<;.68' 5'' B, J4.' .7'>>?.<>'<;.6% ,7'58' ('
?,6 .6%

'

8 ' K,45,J<.' .7'>.?.<>'<;.68'% 1>1.68' 1.' .7'
>. ?;<>'<;.68' K.75Q4<.8' 11'68' K,4;0' 8' #' / 01' 8'
5.'34.6<,V8' '<>1.; .68' ! 4 6.8' -.6 .68' ,;1, 8' .1M
>4<8' . 66.< 0,41J8' ,17 ,4 68' :'560,41J8' ;:. '
5.67'78' K.7E,178' / 014<8' 471.-'<@8' ' <7 1,?.68'
#,55 ,41.' .7' >.?.<>'<;.68 '-'11. 68' ,;:.E,178'
,1 .<78' ! 1'<>- 55.' .7'>. ?.<>'<;.68' K,< E'; ,' .7'>.M
?.<>'<;.68' #' -' .7'>.?.<>'<;.68' ' <7 H5,1.<7' .7'>.M
?.<>'<;.6% ,7'58' *' ?5';.6%

8 ' # 7'>.55.'>.' ,<71.4 58' ' <5 .<'<78' K' '
-' 8' '1 . / 0,41J8' #:>7.'4' >.' K,4 55,<8' #'5 J<'<8'
7.<' 8' ,>. <' .<8' .1; 8' '47.10,41J8' 5'' .7 7. '
.11.8' '4>6 1,<8' #0>7.'4' >.'K5' / ,<78' #:>7.'4' >.'
,4@8' ' <7 =;.<7'.7' '5'>.'K'1;.5,< .77.8' #,5 / '1'
.7' >.?.<>'<;.68' 5.6' 5 .6' ' <7. '1J4;1 7.8' 5.6' 5 .6'
> BVE.1.68' = 7'>.55.'>4' ' <7 6?1 78' J4. ,17.6%5.'
E,17' K1.6;,48' E,17'>.6' K' <68' 1'76'>.' ,4 55,<8' 55. '
H1'<;:.8' <4'V.8' E,1'>. ,;,'8' #5 7.<4 1,< ?.77.8'
E,17' >>,;8' K5'V.8' E,17' #:'?468' H,41'6' .7' > E?.<><4'
;.68' #0>7.'4' >.' ,178' #:'7.'4' >.' '<7.68' 5.6' 5 .6'
> B.> ;' .7' > 4'78' 55.'>.' ! 1,4' 68' #,<;'1<,'48' ;0 '
7.'4' >.' ,1.'48' 5.' E,17' >.' #: 7.'4 .4E8' ;:>7;'4' >.'
#' .<8' ;:>5.'4' >.' .??.' .7' >.?.<>.<;.68' 0477.1 .6' .5'
1.71'<;:. / .<76' 641'5.6'; 7.6' .7'5.6' 5 .6' =4 '5.6' '-, 6 '
<.478' 5 .6' >.' ,466.8' 7,41' >.' -'1 ,8' 7,41' 'K,J, '
J4'1,8' UU' ?,6 .6%

'

8 ' 00.- 55.8' ,<71.4 58' B .6> <8' ,45.<68'
K'?,4 / .8' / .<68' .1,<<'8' B' / 8' ' 7 34.<5 <8' 5''
HE.1.8' , 58' '<;V8' '16'58' B'J<.<.'<8' 4@,<<.8'
'5 <6' .7' >.?.<>'<;.68G' '5.<;.8' . <.8' 67;1,<'8'
K.0 .168' '10,<<.' .7'>.?.<>.<;.68' #'1;'66,<<.8' #' '
1.<7'<8' #,17.' .7' >.?.<>'<;.68' □ '?5';.6%

8 ' H,17' '1> ; 8' ;:7. / 0.1J8' E,17' ,17 .18'
E,17> 5' 68' .;' 68'; 7'>.55.'>.' ,<7?.55 .18' ;0>7.'4'
>.' '5;.68' ;0>7.'4' >.' ,41>.68' '@8' K1,4'J.8' ;:'M
7.'4' >.' ,4.<8' B' ?,6 .6%

,7'58' 9 ' ?5';.6' .7' ?,6 .6%

9' ' ' o) 'N 34, =4.'5''6>1.7.'>.' 7'5'>.'
/ '<>.'>.?4 6'5,<J7. / ?6'5'' ; ,<6714;7 ,<'>.' ?546 .416'
?5';.6' >.' J4.11.' ,<' ?,67.6' / 5 7' 1.6' .<' > 55 .1.<76'
?, <76'>. / ,6'E1,<7 .1.68' ?'17 ;45 .1. / .<7'641';.55.'>.'
671' =4, =4.'5''?,6 7 ,<'>.';.6'E,17.1.66.6'6, 5'64E5 '
6' / / .<7' <> =<. .'?'1'5.6'>.0,4;:.6' .7'5.6';, / / 4< '
%;'7 ,<6'=4',4-1.<7'5.'1,V'4 / .8' .7'=4,'?'1 ;.77.'1' 6,<'
5' .67' <> 6?.<6'05.' > , , 4?.1I' =4, =4.' ;.6' 714-'4@'
6, .<7' ?1.-46' .7'>.Q'' ?1.?'1.6'>'<6'5.'6 5.<;.'>4';'0 M
<.7I';.?.<>'<7' ,<' ''?.<6.'=4.'>.6'0,45.-'1>6' ?1,Q.7.6'
4.'& .-' .<7' ?, <7'> 1.';, <?7.6' '4'<, / 01.'>.6'E,1;.6'
.5E.;7 -.6'>.' 7'78' .7'=4 ¢'<.'>.-' 7'?, <7' .<'>71.'E' 7'
/ .<7 ,<'>'<6';.'7'05.'4%

#.77.';5'66 5 ;'7 ,<' .67'>,?7..8

'1 ('S ,46'-,<6'1.; '4<.'5.551.'>.' % ' / '
0'66'>.<1'>.' ,174J'58' 1.5'7 -.'' '11.67'7 ,<' E' 7.'
?'1'5'' / < ; ?'5 5>' >.' 34 55.0,.4E'>.' :4 7' ;.<7'> @'
6.?7' / '1;6'>.'-' 66.55.''>1.66.' ''5''1. <.'>.' ,174J'58'
.7' '' 6. '' '1 / .6% ,41'E' 1.'> \, 7' 'Q @' 1.;5' / '7 ,<6' >' $
% ' / 0'66'>E 418' - , >' 5.'>.;1.7' =4.' -,46' ?1,?,65'
-,71.';, / 7.'> ?5, / '7 =4.'N

66.< 05..'<'7 ,<'5.% '-'<7' .<7.<> ' ;'1', ,17

6,<' ; , / 7V' > ?5, / '7 =4.8' - ,45' 78' ; ,<E,1 / > / .47 2'
6,<' >>;1.7' >4' CU' Q4 <8' =4 5' <.'6, 7 '??,17>' '4;4<'
,O67';5.' '<' ; ,416',1> <' 1.'>4' ; , / / .1; .8'>.;5'1.'=4.'
5.66.456.EE.76>,<7;55..<7.<>.'?1, : 0.18'=4'<7' "?1.M
6.<78' 5.'71'<6?,17' " ' .71'<J.18'6,<7'5.6' '1 / .6' .7' / 4M
< 7 ,<6'>.'J4.11.8' 5.6' / '7 E.1.6' > ,1' .7' > '1J.<7' .<'
5 <J,78' .7'5.6'.6? ; .6' / ,<<'V>.6'=4' ,<7' ; ,416'>'<6' ;'
1,V'4 / .N' ;@?,15'5 ,<'>.6' ,4-1'J.6'>.' ,1E.-1.1 .'
.7'Q,' 55.1 .8' / '1=4.6' "5" <,4-.55.' / '1=4.8'>. / .41.'
5 O1.I' < .<7.<>'<7'<>'< / , <6' 66. / O5..'?,17.1' '4 '
;4<.' '77. <7.' '4@' ?1, : 0 7 ,<6'?,17>;6'?'1'5.6'5,76' .7'
1>J5. / .<76'>.' ; , / / .1; .8'5.6= .55.66,<7' / ' <7.<4.6'
, / / .'?'1'5.'?'66.% +'#.'>.;1.7' .67' '>,?7>%

% 4?,17' ?1>6.<7.8' .<' '06.<;.' >.' % .6 / .4'
< .168' 5" 64 7.'>.6' '17 ;5.6' 641'5" ?,5 ; .' / 4< ; ?'5.' .7'
; ,11. ;7 ,<<.55.%

< '& ' '

" % #.4@'=4' : ,16'5.6' ; '6'>.' >J 7 / .'>>E.<6.8' .7'
6'<6' .@;46.'64 5 6'<7.8' '41,<7' O5.66.' ,4'1,> / .'E1'??.'
>.6' ; 7,V.<68' %6' 5.' >>5 7' < .67' ?'6'>.'5" <'741.'>.' ; .4@'
=4' 6,<7' ?4< 6'>.6' ?. <.6' ?,17 .6' '4' ; ,>.' ?><'58' 6.'
1,<7'Q4J>6' ?'1'5" ?,5 ; .' ; ,11. ;7 ,<<.55.8' .78' .<' ; '6'>.'
; ,<- ;7 ,<8' ; ,<>' / <.6'6; ,<'5" J1' - 7>'>.6'E' 56' "4<.'
' / .<>.'=4'<.'?,411" .@; .>.1' '5 -%8' .7' ' <,' . / '
?1 6,<<. / .<7' =4'<.'?,411" .@.>>.1'6 @' / , 6%
" % "?. <.'6.1" >,405.8' 6'5.6' - ,5.<; .6' ,<7' >7.'
; , / / 6.6' .<-.16'>.6'E. / / .6' ,4'>.6' ?.16,<<.6' >.' ('
'<6' .7' '4 >.6646' 8 ,4'>.6' .%4E'<56'>.' 9' '46' .7' '4 >.6'
6,468' .7' .<5 <'6 5'V" .4' .EE46 ,<'>.'6'<J%
" % <' ; '6' > : , / ; >.' <-,5,?7' 1.' >.<,<; .'
; , / / .'7.58' / ' 6' ; '46>'?'1'4<.' / ?14>.<; . '47.41'
>.'1: , / ; >.6.1" ; ,<>' / <.' "4<.' ' / .<>.'>4'>,405.'
>.'6" ; ,<71 O47 ,<' / ,O 5 .1.8'.7' "44' . / ?1 6,<<. / .<7'
>.'6 @' / , 6' "4<' '<%
" % ' =4.5=4 4<' 'V'<7' O5.66.' 4<' ; 7,V.<8' 6, 7'
?'1' / ?14>.<; .8' 6, 7' ?'1'5" 1'? > 7.'>.'6.6; : .- '4@8'
5' .< .67' 1.6457.'E1' ;741.'>.' / . / O1.68' ,4'6 8' > '?1.6'5.'
; .17 7 ; '7'>.6'J.<6'>.5 '178'5" O5.6641..67' 7.55.8' =4 .55.'
;@ J.'4<'71' 7. / .<7'>.'71, 6Q,4168' 5.'>.5 <=4'<76.1"
; ,<>' / <.' "4<.' ' / .<>.'=41'<.'?,411" >71.' / , <>1.'
>.' '5 -%' .7' ?546'E,17.'=4.' '5 -%8' .7' "4<' . / ?1 6,<'
<. / .<7'=4'<.'?,411" .@.>>.1'6 @' / , 6% .' / 4 71.'6.1"
; - 5. <.<7' ;6?,<6'O5.'>.6' ; ,<>' / '7 ,<6' ?>.4< ' '
1.6' ?1,<,<.>.6' ; ,?71.' 5.' ; , ; : .1' ,4' ; ,<>4;7.41'>.6'
; : .- '4@%%
" % ,47.6'5.6' ?. <.6' ; >.6646' 6.1,<7' ?1,<,<
.>.6' <>>?.<>' / / .<7'>.6%'>, / <' J;6' .7' <7.1 76'>.6'
?'17 .6% G
" "% 34'<7' '4@' 6 / ?5.6' <Q41.6' - .1O'5.68' 6' .55.6'
<.'6,<7' ?'6' '>1.66>.6' " 4<' E,<;7 ,<<' 1.' ?4O5 ;' .<'
.@.1; ; .'>.'6.6'E,<;7 ,<68' .55.6' 6.1,<7'Q4J>.6'>'<6'5"
E,1 / .'>7'O5 .' .<' '17 ;5.' "' >4'5 71.' ' >4' >>;1.7' 641'
,1J'< 6'7 ,<'Q4> ; ' 1.%
" "% " 1.?'1'7 ,<' >.6' / ?47'7 ,<6' ; '5, / < .<6.6'
6.1" >4' 1.66,17'>.6' 71 O4<'4@'>.'> 671 ;78' 5.6=4.568' 6'
5.6' ; '5, / < .6'6,<7' J1' - .68' 6,<7' '47,1 6.6' ' ?1,<,<; .1'
.<' ,471.' ; .<71.' 5.' ; '5, / < '7.418' 4<' . / ?1 6,<<. / .<7'
&5,<7'5" >41. .'<.'?,411" .@; .>.1'>.4@'?<<>.6I' 5" ?. <.'
6.1" >,405.' .<' ; '6'>.'1>; > - .8
(,+. $3 ((',+ .*- '5 + (*,' 6' *' ' (!'
3 4(.+' -(" - - $" -(' +' 4.(''(
"6>'<; .' .67'5.- . .' " 71, 6' : >7 1.6%

$ ' ' 'O ' ' ' ' '
M ' ' ' *' A'
'7" ' ' ' ' ' G

+ &*-((*,'4. 4 '('*D+O+$!' - *('4 .') (,' -('.(*-$D('
+n$(*+)n(" =4.'5." +($#$ b +*$+$' *+' *3((+'(*' +.,$3 (' " "% "'
-(! +' $' - +'WF' + ,7' $'<$,+ ,'+)+ (*,' ,.+*9(.'+ 2' $*+$D'
' *"3+* * + (+'4 ''+-((+'4+O n(+',$, +$.("+, ,(' -(')+$',4'
-('O(*$('+' O$(

.'3(")'(#O+,, *" $Z%' . ,,(' ' D'5 (' +'$ $'4. , *($'
+ , .$'+$,'(*'($#(,' + (*+,$4$$' -(" + " .(-' 'O(*'
- ("J'O$('+ 2',$, +$.(" +.',(+." (,+4 .('d'5 ('-("+-e '
-$(+,+$.(" 5 $' ,'+35 $" -(') **('# $'(, 3 $$# . (,'
+' $' - $O(*,' $.' -("+' 4.('(*,7' (,'5 (' $(",6 +$,(" '
4(O(.$,'(*'3('3+"),(* .'5 (' *-(*$, '5 $' ,(+.' (' +3'
3 .-(('4+.' +.,$ ('

WQ' +('.$*,(*,$ *' -('. ''( ) ((' *+,$ 6+ (' *D+' 3(4(*-+*'
4+" (,('5 (' (",$, +$.("' 4 ''(''(." 2',$,.('-(')+$' ' -'
O(*,(' F' O$(/' # ''(*,' -(4 $ (" -(' +' $''+*3('5 (' ('
+33 .-+$,' +.,$3 (' Z/'

''( ) ((' +,$ *+ (3. $,(*'3 *'(5 (*3('-('+''+9(''
(,'-('+'$ ',$3('- .- **(.'5 (' (" +'' *" 3+* *$+ ("8(*'
- (" ("F' O$('+*2',$, +$.("4+.' ("3$&-(O+*,'36+4$,.('
*(''(. *,'-(' .*$+$" + $(*(("5 D+' 4 36+.9(/' 4+. ('+- -$'
3+,+$.('/' -(' + ''('.' (",$, +$.("(*' $.'4(*-+*,' (.'O$(O
(" ' * $''$ **+ .("4.(*-. *,'4 .')+'('-((*." ##.('
(",+) (" -(' 4. 4 .,$ *' +**(2((" 2 +' $' -,,'WH +O.$' -(.'
*$(./' (,' (" + $(*+,$ *" '(. *,' +,,("3 *# . (*,' + 2' +,'
,$-(" ' (' ' -(' (,,(' $

PD' '(',(*3 .('5 (5 (")'(.O+,$ *" F' #+$.(' .' ("O(*,('
')+ 2' 2 O$('#+$," +' -(",$, +$.("4+.' (." 36+4$,.('
(" +$' *" 3+* *$+ (" -+$(*,' *+, .(((*,' -('$$*(("
)+)$,+,$ *' -(" 36+* $*('/' ("3 *3(''$ *" 5*$' (.'(*' *'
(,('#+$,("4+.' -(")+ 2' F' O$(' ' *,'(*' *' 5(*3(' +$*,('
* ('/' (,' +' $''+*3(' (*'(',3 *'(.O(('4+.' +.,$-(" " '
- ' -(3.(,'- 'WF' $ (,' O

B7' *D(*' (',4+" -(' *'(' -(")+ 2' 2 O$('#+$," 2 -(",$, +$'
.("4+.' (."36+4$,.(" -(")$(*" -(', ,('+ ,.('*+, .(
+.,$3 (' ' -(' +' $' - ' BX -(3( ).(' -$',$*9 (/ .(+,'
O((*,'+' 3(,,(' -(*$(.('('4F3(' -3)$(*'/' (")+ 2' #+$," 4 4'
+' O$(')((\ $+$.(' -(' 3(2' #+$," 4 .' +' O$(' *+, .((' -('
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+b 3 ('$*'-$(' 6' 4$-*'W+$ +$%"B H T I % % M '
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T /
* ' 'B ' # $(0',V' +.-%6+'W' %
$ & !'71'J.> .6'.7'8 ' 'F
('] ' .-' T/', ' '?*6)5'
(,'
- 'HE7 E 8' 14.'>.' ; :.5 .4%' +' 4Q,41> 5/ '7G8'
G ',4'8 '- & B J' I< A' &" 1
' ' ' $ ' 8 ' V' .- 6 $'T/
256 ' #) +' 5"-!#)') !
- ' ' '\'<1' '5'56 K,V'5%''
' 4Q,4 G>%'*\'0 , 7' .7'% ((, ' # (!
- ' ' '# E1 ' ' C '5P Q-6B K % ' <Q%*8'
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% BKW34 ' 3 8''04<5.-'1>'>4' .< .%' +' 4Q,<1>%'*Y
8 & 1 5*' 1 5'3,' 'G ') & 5' D
% #' (' ' $\ 8.+(' +$*,D +.,$ '!!' $-'
F 5' .'8' ! * "
' - '1 N ' " ' ' * " ' +' 4Q,<1>%'#,/
' ' : & * ')@ *5'
I-!* ' 5*c''09 ' A')Z' A' A'
4 B ' 1 # E; = <.>4 '5%f < d67d7 -.s7
7 '5.6'5* cBY < "7.55.':.41. =4B5'?5' 7-' $=5.6
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Q +EI' % U' 5%5
\ [7K ' ' ' ?K .'
Z M BHTB' ' (" +8($*$'' ,\' +' (, , . (*
G ')' & ' & ' ' F'* ' ' '/
! ',(.-+' ' W W R +-.$-' ' K 8'),'51 ''
#+) 9' WPF -*(" ' /' /' 9 '
-.(" ' / WP% 7 G'2'J X' $0 .(' ' BWF G
+-$2' ' ' = /' f 'BF'/ 8 */' , !
' ' 'X'
$ (,$ *'-(" .$-("-(' WXTI' $0' QQN' Z' '
.,$ *"-(' BIII' $0' BFBH
V' -(', ' $0' ' 7 ' ' ' ' ' ' ' K' ' /
4.$$$$,'- (,).('-('XII')8'
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4.**,'-(' -(3' BH /' 5 $,,+*3('-('#$*' /' /
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$,,+*3('-("(+*2'-(' +.$" ' ' GPI/PX/PI/FI/XI/XX/GI
) 4. *,'-('*0( ).(HE$'$'X'4 ' ' ' !' ' //' 0
V' ' F 4'1 %
+' >.) /'55,<6'8 > '.E7 ()*% %' &' % % % ' d
'' .+*3(" , <'/1. ("$*3(*-$(" ' '/'GI/FX'/'UC8U 8
V' +0$(7 %' ' /' XEH/EG/EX/EF

! b ' ',4' K' %

G' * % F ! F <) * * 4

'

' 2- " '2 I ^' 78.'J,4-.1<W<.<7 " E' 7 K46?.<>1.'>'<6 <,6 ?,176 7,<7 .=4 ?. / .<7 .7 '471.6 ?1.?'1 7 E6 >.' J4.11.% '76 ;.7 ,1>1.' '11 -.'>'<6 4< / , / .<7 ,4 .6 :,6.6 6,<7 E,17 '-'<; .6% .'< / , 6 ,< ;,<Q.;741.' 7 4.' ;.' 1,V'4 / .' >, 7 J'1>.1 5" ?546 .-';7.'<.471'5 7.%

.6 5.751.6 ?'17 ;45 .1.6 =4'<,46 '11 -.<7 >4'>.:,16 ;,<71'1 .478 '5 .J'1>'>.'5"<.471'5 7.8 7,47.' #.17 74>.% < ,1, 7 .51.'0 .< <E,1 / ' =4.'5" 466 .' ;, / ?5.' 641 5" 4.>.' .< ?546 .416 ; 1.,<67'<;.6 .; / -.<4.6% 8

.' ?.,?5.' 59 / , J<.' ;' ;,4? >.' 6'7 6E';7 ,< >.6 0 55.76 > .7'7 >.' 9 6;:.55 <J6 =4 .5.' ;, / ?7, 1 V .<7 U.' E' 1.' / ?1 / .1%

! %

' V ' ' ' ' +' " 6.66 ,< >4 ' >.' #. / , 6 " .7.' . / ?5,V..' 47 5. / . ' ?,41 .6 71 04<'4@ ;:'1J.6 >.'5"1.;:.1;:.'>.6 > #E.1.4>6 =4'.@ 67.<7 .<71.' %5" <,05.66.' .7 5.' >4.'>.' #,415'<>.% < <,<;.' =4' .@.1;.' .< / . / .'7. / ?6 5"E,<;7 ,< >.'V4J.'V "E' 7 4<.' 6,17 .'-.:. / .<7.' ;.<71.'5W >75;8 =77 5 " ;:'1J.'>4<.' <;45?'7 ,< >.6 ?546 J1'-.6I 6'-, ;88=4.';.'?1 <;.''-'57 .<71.7.<4 >.6 <7.55 J.<;.6 '-.;'5.' / <671.'>.' 466 .8 >'<6 <7.<7 ,< >.'6,4671' 1.'5.'E .E>.' #,415'<>.' '5" 6,4-.1' <.7.'>.'5" ,5,J<.'I.7 ';;46'7.41 " ,5E.17 > .< '??,17.1 5" ?1.4-.% '<7:.<7 = .I

'<6 5" 6.66 ,< >4 9 5" > .7.'F.7E.' #,S 7 ';;,E>#' 4<.''4> .<;,' '4@ >.?47.6 >.6 -55.6 >.'#,415'<>.F .5 >.' . / J'5.% " :'1'<J4.'>.' ;.6 >.?47.6 "E' 7 0.'4' ;,7 ' > / ?1.66 ,<% < "E,171. / '1=4# => 56 6.'7G, / G' / ' .<7 5.6 -'66'4@ >.'5" ,5,J<.% d % ' ' G 7

.' / .1'.'Q,41 5 6 #67 .5.-9 7E.'>6; 66 >,' '5'=E 5 8 5 .67 '4 / , <6 .71'<J.'=4 ,< ' 7 >,<<# 5 .4%8.? ,5? ' J<.'8>'<6 5.6 ;1.,<67'<;.6 ';74.55.68 >'<6 4<'?'V '8,84 5.'?1,J1.66 >.6 54 / .1.6%- .<7 > .71.8 6 ' % / '1=4.'?'16 5" <,4-.55.';,<67 747 ,<% .';'67.55'< ?6 ' "E' 7 5' / .G8 7 , '>.'1'??.5.1 .7 >.%1.7'05 1'5'%6'; .7. >.6%Q.64 .6%%855 V ">.Q"5,<J 7. <?6=4 4<.' <71 J4.' .67 E,< / ' ' J7 =4.' 6, 1>. / .<7 ,<.'E1' / .' .67 ,41> .' . 'E'-;41>;';.6 / , ' <.68 ,41.5 J .4@8 ,4 ?1>71.6 8 ,4 <67 747.416 ?405 ;6V ,4<.J,; '7.416 6.;1.768 ,4 <.J,; '<76 >.J4 6 8 >.' ;.6 :, / / .6 .<E < >,<7 5" / V67#1 .46.' .@ 67.<;.' >41.' .<M ;,1.' >.' <, / ' ,4 >.' E' 7 56 / ,<7 ?546 > .@ 67.<;.' ' : ' .67 ?1>6.<7 ?'17,<7% '6 5.'1,' " ;, / 0'774 '-.;'.<.1J .' .7 '-.;'6,< .5,=4.<;.' ,1> <' 1.' 4< ?1,0.7 6 ' 1.>,47'05.' ?,<1' .6?1 7 .7 5" 5 0;17# ?4M 05 ;68 .7 5 "?'15.'>.' / '< .1.' ' ;,<-' <;1.' =4.' , / .' / 9 / .'<.'6.1' 7 ?, <7 6'7 6E' 7.' >4 1.7'05 66.= .<7 >.6 Q#64 7.6 .< ,5,J<.% N

< ; , / / ,<; ' " ; <6 >.1.1FQ\,R 7&=4; #W7 5.6 0 .<6 >4 ;5.1J.% '<.67 ?'6 >,47.4@ =4.' ,< < '11 -.' '6 ' ' ?.1; .-, 1 =4.';.6 1 ;:.66.6 ?4,11,<7 ,<Q,41 ;,<;,41 1 "6,45'J.1 .7'78 '4=7 .5 .55.6 '??'17 .<<.<7% ' 6 5 .67 ;, / / .''6641.' =4.' >'<6 ,.77.' ':>.' ,?.1'7 ,<?,5 7 M =4.8 6 .55.' " 5 .48 5.6 <> - >46 6.1,<7 .?'1J<.6 '-.;' ?546 >.'6, < =4 56 <.'5?<7A.7.' c5.4168 ,4 56 .67 ,?.1> 4< 1.- 1. / .<7 >.'E '174<.'6'<.;.66' 1.' '5"E,174<.'?4' 05 =4.%

5.'5.6 >' / .6 6,<7 '4 <, / 01.' >.6 ?'17 6'<6 5.6 ?546 0. 6 >.' 5" <,4-.55.';,<67 747 ,< I . .6 ?,17.<7 4<.' >;,:'1?.''-.;'#.77.'>.-6.' '

*' %

! (* 28 & ' *- 8 + N < / '<>.' >.' .7.160,41J =4 ' .6;'>1.'>.' .-.5. 7 '11 -.;' '5"1'>.' >.'#1,<67'>7% < ;, / ?7.' ';74.55; / .<7 >'<6 ;.' ?,17

' -' 66.'4@ >D'5 J<. ' U ' E #J'7.6 .\ CU ;477.16I 0' / .771,<7 .< / .1 <;.66K < / .<7% % $

$) 99 99O 6:9

' (' 4 ' / ' .%1, % " E' 7 ;,<7 <4.1'4 .>> <J68 ,9 ' .67 '11 -.I 5.6 / '<,.4-1.6 >.' '17 55.' 1 .8 .7 .< "7. / , J<.'6" 6'7 6E';7 ,< '4@ ;:. 6 >.';.' ;,1?6%

.'>.1< .1;,411 .1 >.' 67,-.' " '??,17> >. ' >>?>' ;7 .6 =4 641 5. ;:'< ? ,:E >7.'1. / 6.6 '4 1, 8 .7 ,< < "?'67'1>.' " .>'E 1.'?'17 1 4?'471.'<,41 #,<67'<7 M <,?5.% %% ' 1%Q' Y%5 % 8

% ' % ' $ J% %%%%%% ! *%' 7 / *%

* ' +% .6.7 5 <> ;.'>.'?';E;'7 ,<8 .7. .< .67 '66,1# / .<7 4< 0 .< E' 05.-, .67 =4 ,< "75 6;,<7 / .' 5" ?1. ' ' 7.11.% +' 4 1.67.'7,4Q,416 ?, <7 >.';,41M 1 .1 >.'?.7.160,41J%' .' J1'<> / ' 71.'>.' '15 55. ' >, 7 '57.1 E' 1.' <;. 6' / / .<7 4<.'7,41<.'> <6?.;7 ,< >.'7?47.6 5.6 E,17 E;'7 ,<6 .7 >.6 / ,4 <6 " ?,4>1.' >4 1,V'4 / .I ;.' J.<1.'>.' / 4< 7 ,< >.'J4.11.' " .7 ' E J4' 5 .1. / .< ' ?.15.;7 ,<<# ?:1 5.6 6, <6 >4 >4.'V7.' ;:M / ,<>% % > ['1>68 :'0 5.' <J#< .418 - J<7 >.'?1,?,M 6.1 ' / 1'4 .' 4< ?5'< E,17 '#;4.5 ' ?'1 .7'7 / 'Q,1 % >.'5" 5,77.'>.' ?70,'> N 5 ,EE1.>.'1.5.-.1 5.': 3 A % & 8 V'566.' ' >.'7 ';'<,<68 640 / .1J.'>'<6 5.' ?,17>.' ,176 / ,47:8 =4 5 . / 0'11'66.N 4<.'J1'7 E;'7 ,< > 4< / 57 ,.' 9) / 55.' 5 -1.6 6.1 ' 6" 1.; , / ?.<6.6 55 1.466 78 5 .<'6.1" '<;,<51' 1.'?,41 6.6 E1' 6 6 5 .;:,4.' >'<6 ;.75.'.<71.?1 6.8 =4 5 .67 7,4Q,416 0.'4 >.'7.<7.1%

';,417 " ,<>1.6 >.4 '?,4-.55.6 >.' 4 6 .8 4<.' 71.66E 1..7 '471.'71.6%E'466 SN8%,Y >4 / , <6 71.6 :'6'1 Y >.'N " ?1. / .1.I . .67 =4 ,< - .<7 > ';:.-.1 " J'< 5"#,<6714;7 ,<>.'UU'0'7.'4@ E5,57'< 6% .5 ?.=4 ?.<<ZY7 ;c.)9 J'5.1. Q >.<75 / ?.1' 1 .#8T=77 .<d67 >= 0 .< 77< - [8I' U 77c .1 5.'1 <'7 .77 .<7 G'77 ?1 :;>'>.cT

'7 E6 >.'>.E.<6.' .E / <'.'U '77d 4.88 / 077 .?6c.88Q88 7IJ E 1.'#'7:.1<.' 8 >.-. / Q<77,:7UgC ?75GE :P;8 .0dU \ 6 <7.1.66..I 6..,' <.7.<E < 6'<6Q S 67'<%,.8' 4@=* 1,?= 6 7 ,<6 >.6G ?4666'<;.6 '55 .. I% ! .B.#,' -. 6 ,< 'B1'.4G \ 5.46.' '7E' 7# ' ,<.: 7.'4>.#0'16 , b.5, % 54,' E< I #,<E46.' .7 1.?.<7'<7.8 .55.' .64..<E.66.7 ' 01 ' 0 671.6 >.' 1466.'.7 > <J5.5' / =4'< ,<5 .4 1 .<>.' ? <6 ?1.66> =4.'> .@?>> .1 8 5.' (,45. '04 < >.1< .18 E < ;,411 .1 "5.41 ;, 1 1.6?.;7 -.8 ?,41 54 ' E' 1.'?'17 >.'5";,<7 7 ,< >.' / ?.1'71 ;.8 -' <=4.41 >.6 41;68 E51.' > .71.' ?< 6' / / .<7 6.;,<>>.'?'1 .,?,5> 8 6,< ' 5 .8 .7 E' 6'<'?,417'<7 5.'E.1 / .'?1,?,6 U.'?.'?546 1.' 5, / 0.1 >'<6 5.'?#;:# =4'5"%?1 - .7%5"8J16 N.77.'c;4 8 / '0.67.6 01 7'<< =4.' .7 ? / .-% <8Q / <,<='Q7 E ' '#.77.' / ?,17'<7.'<,4-.55.8 =4' '41" ?140'05. / .<7 .7.' 1'<J..' 5.'U '<'<, / 01.'>.6 / 55.';7 4< / .<6,4J.6%8 >.' J'0.77.6% + 7 1.67.85.6' / 0'66'>.416>.' 1466.8 >.' 466 .'.7 >.' .<<. 8 '4?1." >4 ;'0 <.7 >.' 7 ' / .68 ,<7 .<71.' .4@ >.'E1.=4. 7.6 ;,<E. ;<.6% ' .67 ?,66 05.' =4.'5"J .<.'< .;5'7.'?'6 I / '76 <,46 <,46 :'6' ;5,<6 "?1>> 1.=4.';.'6.1"?'1;.'=4.' ,<;,<6.<7 1"'5' 66.1 / ?.1'71 ;.'.<?,66.66 ,< > ;0'; ,[% 8 ,1> ' <7 B.5.< & ; >.-'<7 % H 700.10.17P 8 ' / 0'6 '>.<1 >.' 5" ;,41 >.' ,<>1.6 '4?1.6 >.';.55.' > 6?'J<.' 8 - .<7 > .<-,V.1 % B' / / ,<> '-.;' >;6 >.?.;:.6 ?,41 5.';'0 <.7 01 7'<< =4.'8 .7 > '471.6 ?,41 ' / :'66'>.41 > ?'J<.'=4.' ;.' 6.;1.7' 1.' "1.M / 6.65.')'>.';.' / , 6%

.67.751.6 >.' ,176 / ,47:''<<,<;.<7 =4.'5.'>4.'>.' !5 ;.65;18 E1.1.'?45<.'>4 1, 8 " ? 6 5.' -'04 55.78 >.' >.6646 5" 5.' / 'J< E =4.' ;,4? > ,. 5 >.'5" E5,77.'>.?5,V.;8 >,<7 ;:'=4.' -' 66.'4 " 6'54.'>.' C ' ;,4?6 >.;'<< ['

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d <' / '<>.' 7.' K .5E' 67 8 .< 15'<>.P =< ' ' 8 E' 7 >.'
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/ .6% ,46 5.6 0 , < ' ; 7,V.<6 ' ; ;46' .<7 5" / / ; '
k7'5 7> > 4<.' ; ,4?'05.' <.17 .% .8 (>.' ; .' / , 6 5.'
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8 ' 5 -% & ' / .<>.I 4<'J1'<>'< , / 01.' >.'Q,4.416 ,<7
57> ; : '66>6I .7 6'5" J'1>.'<'7 ,<'5.'< .177 ?'6 ; ,<7.<4
5.6 <,<- . / .<76> <> J<'7 ,< >.'5" / 4 54>.' 1>4< .8
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#,<6 >.1' 7 / ?,17.' >.'E' 1.' ; ,<<' 71.''4 ?405 ;'5"
> EE.1.<; ' =4 .@ 67.' .<71.' ; .6 '4@ 5 '1.6 >.67 <.6 " ; /G
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/ 7' 1.' ?, '1 f" 641.7.' <7.1 .41.' .7 .@7.1 .41.'>. 7'7I
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;41.41 >.' 5" #3 4 / 4<.8 >. ;5'1.' =4 '4@ 7,1 / ." >4 >.;1.7
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> " 04 7 '<6V .7 Q 6 ?546 >.' 4'1'<7.' '<68 .71.<< 66'<7
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.67 ,<>'<J.18 <.'1, ; .-1,<7 >.' 635>.'=4 " >'7.1 >4 Q,41 >.'
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?. ;7 E6% .' ,1?6 / 4< ; ?'5 '11.7.' .< ,471.'=4.'5" ?1>6.< .
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*' ,.&*0(' (6(D' ,,' 7 * */' '-(' +' **$3,4+ $,-/' +*' ,.+0+$' # .,')$(*' #+$,' -(@/' .' +'+(+*2/' 4. 3+.(+ =' +- $*,' - ' +'3 .+ *($'+*.' (+' . +,$(.(" - *,' *' - $,'+0 $.' 3 **+$''+*((' 4 .' .(, *-.(' (+' -$0(.'(" -$#$ 3* (+' 5 $' 4(*!' 0(*,' + ((0(.' .(+,$.(*$(*,' +*2' ((3,$ *' ' (',' **' (2,.+$,' .+$' **(' -(" $" (,' $*',. 3,$ *" -(' ''( ) ((' *+,$ *+ (' '+,' 3('' * (,' (' ,.+0+$' +' (,(' . $(((*,' +-.(''(' +*2' '(31 ,$ *''+0(3' **('$(,,.(' -(' ' *' +*,(*./' .,(' (,' 4 ($*(' -(') *' '(*" (,' -(' 0(. ,('

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8 ' ' F ' G '

#J' <4'] 5' *' 50 %

' 5 ' ' 2 .' U' / '16' >.1< .1' 66; / 05>.' 8' 'V'<7' ?1, : 0.' 1 471, >4; 7 , <' >.6' / '1; : '<> 6.6' .71'< ' J.1;6' ?'1'>.6' <' - 1.6' . 71'<J.168' "1.<-, V>' '1. @' <.<' >.' 6, <' ; , / 7>' > 'J1 ;45741.' .7' >.' ; , / / .1; .' >.4@' ' / .<>. / ;<76; , <6 67'<78' 5.' ?1. / .1' 5' @.1' 4<' 7.1 / .' ?, 41' 146'J.>.6-' 66. '4@' ;74.75. / .<7.<' ; , / / '<>>' ; : .0' .71'<J.1I' 5.' 6. ; , <>' " .@; .?7.1' >.' ; .' >. ;1.7' 5.6' <' - 1.6' >71'<J.16>, <55.6' ?1, ?1 .7' 1.6- .<>1' .<7' 6 .7'05 1' .<' H1'<; .% 4;4<' <.J, ; '<7' E1'<J' 6' < 'V'<7' >.;5'1.' ' - , 1' >.6' <' - 1.6' >.' E'01 ; '7 , <' .71'<JE.1.' .<' ; , / / '<>.8' 5.' ?1. / .1' ' / .<>. / .<5' >.- .<7' <47 5.I' ' 5' 6.1' 7' / > / .' >'<J.1.4"' >.' ?1, - , =4.1' ; .6' >. ;5'1'M 7 , <6I' =4'<7' ' 5" 6; ; , <>.' > 6?, 6 7 , <8' 5' 6.1' 7' 1, ?' E' ; 5.' = .' >.6' >71'<J.16' - <66.<7' ' - .;' 5.416' <' - 1.68' 6, 465.' ?1. 7.@7.' = / 56Y6 >7'0 1, <7' .<' H1'<; .8' ?, 41' =4.' - , 46' ; , / ?1, / .77 .0' ' <6' ' 5.]' , 7>1>76' >.' <, 71.' / '1 <.' <'7 , <'5.%

,71.' ? ; : .' >.' 5"0'5. <.8' '<.'<75.' ?'1' / ?>1 7 .' .5' 5.6' <'4-' 6.6' ; , / 0 ' 6, <6' >.' '<; .<' J, 4-.1<. 8' / .'58' " , 05 J>' > '??.5.1' .<' H1'<; .' 4<.' ; , / ?<J< .' '; 74.55. / .<7' >7'05 .' " 4< .1=4.8' 47 5 7.' >.' . ;7' >7'05 66. / .<7' ">.7.1 / <.' - , 71.' ; , / 7.' " - , 46' ?1, ?, ' 6.1' ; .' ?1, 0.7' >.8 >7 ;1.7I' $
66. / 05>.' >>;1E.7.' ; .' =4 ' 64 7' 7

&' .,' _' (" +*,*5* $" ,+) $" (*' .+*3(/' (,'8' (2(. +*,' +' 4 3 $(' -(' +') + ($*(/' ' *,' (23(4,(" -(" -$'4 '$,$ *" -+' -(3.(,' -*' F +." -(.*$(./' (,'4 .. *,' (*' 3 *'+5*(*3(' 3 *1 ,$* (.' +' #,,$.(' 0(* .' 4 .' (*.' 3 4,(' -(' &' *0($ (! *9 (!' ,(..(' (" !)$$ $*$(*$" 4. 4.(" 2' +' 4 36(' -(' +') + ($*(/' +' 3 *-$,$ *' , ,(# $" -(' (" (4 8(.' +' 3(,,(' 4 36(/' (*' .(!' 4 $''+*,' - +$ (*." , ,(" (" 36+.9('/' 3 + '(" (,' 3 *-$,$ *" -(' (*.' (,+) $''(($$,' (*' .+*3(
&' ' '(.+' +*''$' 4(. $" + 2' 6+)$,+*," -(' $ (' -(' +*1 , 3Y(,' 5 $' -('$.(. *,' 0(*$.' ' (,+),$.' (*' .+*3(/' 4 .' '(' $0.(.' 2' +' 4 36(' -(' $+') + ($*(/' -(' '8', .+*'4 ., (.' +0(3' , *" (." ((" (,')Y,$,*(*," 4. 4.(" +' +-$,(' 4 36(/' (,'$ "'(. *,' '- $" +' .' -(+' +0+*,+9(" -*' 4+0$ $ *' #.+*5+$" (,' -(' , *" 3(2' +33 .-(" +*2' 4 36(." *++, 5* $" (,+) $' -+*" (" 4 .," -(' .+*3(/' '+*" 5 (' (.' -$," *+0$.(" 4 $''(*,' +0 $.' + 3**('+ ,.(' -(',$*+,$ *' 5 (' 5((' -(' +' 4 36(' -(' .') + ($*(' S
('4. (,' -(' -(3.(,' 3',' +- 4,(
41' 5.' 1'??,17' >.' % ! , 77.68' .-E =4.' > 474<8' 66. / 05. .' >. ;1.7.' ?, 41' U8 (8) U' 5 <.6' >.' 5 =4 M >'7 , <68' $
% #.1<, <' 5 7' 5' 1.>'; 7 , <' >4' >>;1.7' 1.<>4' : .18' 1.5'7 - .< .<7' " 1. / 66 , <' >.6' '66 J<'76' >.' ' 5 -% %
% 7, N' , 46' ; , <<' 66.0' 5" > E5 ;457>' =4.' ' / '<4E'; 741.6' . ?1, 4-.<7' ?, 41' 5.' ?' . : .<7' >.' 5.416' , 4-1 . I' - , 46' 6' -; 0' ; , 4 0 .<' .55.6' / .1 7.47' > >71.' 6. ; , / 4.68' ?4 6=4.' . .67' ?'1'> .6' =4.' 1'1J.<7' =4 ' .67' 6, 15Q' >4' 1, V'4 / .' >, 7' - , 46' 11<71.18' .7' =4.' >' =4 5 01.' >'<6' 5.' ; : '<J.' >, 7' >1.' 17 5*05 8 <' '??4V'<7' 1'17 >.' >4' ?1, 0.7' >.' >. ;1.78' =4 ' > 7' =4.' 5.6' > 1. ; 7, ' ! ' >.' > 671 ; 7' ?, 411, <7' > 671Q04.1' >.J' '%66 J<'76' >.' 9' 5 -% >.' ?1.E.1.<; .' '4@' ; : .E6' > '7> .1J8' >.' / ' 4E'; ' 741.68' 0.' 4. / ' >.' =4 4 ' 645 67 74.% '4@' / , 76I' $' ?, 41' ' 1.<7' > '71 04.1' >.' ?1.E.1.<..8' .7; %8' .7; 8-' : .6 / , 76N

$' E.1, <7' > 651 04.1' >.' ?1.E.1.<; .' '4@' ; : .E6' > '7. ' 5 , 168' >. / '<<E'; 741; 68' . ; %8' .7.8' 546' 5.6' > 1. ; 7, 1.6' >.' > 671 ; 7' > 671 04 .1, <7' >.' ?.7 7 ' '66 J<'76' >.' ' 5 % '4@' ; : .E6' >%.' / '<4E'; 741.68' ?546' 5" ; 1; 4540, <. P' 6.1" ' ; 7 - .% %
%' " 1.>'; 7 , <' >.' 5%8' #.' <, <' .67' >>;1 7. .' .' ; .6' 7.1 / .6I
&' 66. / 0 7.' <'7 , <'5.' >. .1. ; ' ; .' =4 ' 64 7N
Y 17% F% " ; ' 66.' >.' .@71', 1> <' 1.' V.16.1'8' ?'1' ; : '<J.' '5" 71.6, 1.1 .8' 5." '6' J<'7" >.' 9' 5 -% ' ' / .641.' >.' 5.41' E'01 ; '7 , <I' .55.' .<' 1>'.1-.1" ; .' =4 ' ' .1" <. ; .66' 1.' " '."'??, <7" ' " . ; : '<J.' >." ., >?, <"> '6' J<'7">.' 8 8' ' .7' C ' 5 - 8' .7' '<<<5.1 ' 5" / . / .' ?1, ?, 17 , <' >." '6' ' J<'7">.' C8 ' 5 -8' .7' 8 #' 5 -8' 1W / " >' " ; ' 6'.' >.' .@' 71', 1> <' 1.% d $
Y 7% " 7; >6, 1.1 .' <'7 , <'5.8' .' ; , / ?7.1' ><' 75' >.' ; .' / , 68' .<-.11" '<7'<7' =, 5' 6.1" ?, '' 05.' >.6' '66 J<' " >.' '5 -% >'<" 5." >.?' 7. / .<768' ?, 41%5.' ?' . / .<7' ><' ; <57.8 8' ?'17 .' ><' ?1>7%>." 71, 4?.6' E1'<; ' 6.'8' ?' . / .<7' >.6' ?1 ; .1" .7' '451.6' >.?.<6.6 >.6' >.?'17. / .47'8' ' '
Y % " 71.6, 1.1 .' 1. / .771" '4@' >55E.1.<76' ?'V.<16' =<' ' , <7' , : '1J>6' >.' 5" >.77.' >; ' 7' 7' 5.6' 6?<' / ."6<EE 6'<7.6' ?, 41' ?'V.1'5."'??, <7'8' , <' . 5' E, <1< 1' >'<6' 5.'?' . / .<7'Q<'=4 >' " ; , <; 411.<; .' >.' 9 ' 5 -g8' '47'<7' =< B6.1" ?, 66 05.%
Y % ' 6.1" <; .66' / / .<7' ?1.6.<7.' <<' >. ;1.7' 641' 5." <, V.<" > . ; : ' , J.' >.' 5" EE > / .' / <<' .' ; .<71.' 5."''6QJ<'7 ' >.' 9 5 V% Y% \

% ! ' 8' '4Q , / ' >.6' ; , / / 66' 1.6' 1.4< 6' ?, 41' 5.' ?1, 0.7' >.' ?'641' 5.6' . / J1'<76' N , 4-.<7' 5.6' - .<5.6' 5.6' ?546' : .41.46.6' , 478' Q.' <.' 6' 6' ?'1' =4.55.' E'7'5 7V' >.6' ; 1. , <67'<; .68' 5.' ?546' >.' ?. <.' " 6 ' ; ;1.> .1I' / ' 6' - , 46' - .0' .<E <' - . ; , <<48' >'<6' 5">.1< 1.' 6>'<; .8' =4.' 5" 5 0.17>' =4 " .66.<7 .55. / .<7' 5.' ; 7, V.<' > '55.1' , 5' 5' 54 ' ?5' 7' ?.<7' >71.' 646?. >4.' 5, 16=4.' 5" ?'51 .' .67' .<' >'<J.1% , 46' <, 46' ' - .0' .<' ; , <6.=4.<; .' ; : '1M J. 6' &5.' - , 46' ?1. .<7.1' 4<' ?1, 0.7' >.' >. ;1.7' ?546' 1 J, 4 ' 1.46. / .<7' ; , <E, 1 / .' " ; ' ?1 <. ?.' <; , <7.67'05.% .' ?1, 0.7' =4.' <, 46' - , 46' ?1, ?, 6, <6' " ?, 41' , 0Q.7' >.' E' 1.' .=4.671.1' ; 6' 0 .<6' >.6' . / J1'<76' =4 8' >'<6' 4<' / , 768' ' ; , / ?7.1' >.1' 5" ?405 ; '7 , <' >.' - , 71.' >. ;1.78' .' 1.< ' 71.1, 7 7' ?'6' >'< ' 1, V'4 / .I' / U / .' >.' ; , <7 6=4.1' 5.6 8' 0 .<6' >.' ; .4"' =4 ' : .' 6.1, 7' ?'6' 1. :51.6' '4' / , 6' > , =' 7, 01.8' . ' . , : 6.1-'<7' 7, 47.5, 6' 5.6' >1, 76' >.' 5.4 / ' 'V' 1.<76' .7' >.' 5.416' ; 1.'<; .16% .6' '471.6' '17 ; 5.6' >.' ; .' ?1, 0.7' >.' %>. ; 1.76, 47' 1.5'7 E.' " .@. ; 47 , <' >.' #.6> 6' d' ?, 6 7 , <6 ' % d' ' 8' G $ \
' 8' .1< 1' 5 7' , .' ?1, 0.7' >.' >. .1.7I' 7Q.55.' 5. ; 741.' .67' J4 - .' > '66.0' 5, <J6' / 41 / <1.6%
% ' ' N' <' - , 46' ?1, E , 6.' 4<.' 0' ; , : 7 .' ' 5.6' . / J1'<768' #.%67 ' > 1.' ., <71.' ; .4@' " =4 ' E' ?5' 78' >.' =4 77.1' 5.41 ?'V6' .7' >.' 71'<6?, 17.1' ' 55. 16' 5.41' E, 1 8' 74<.% ; , 45.0' ?547>7' ' - 6' = 56' - , 46' >, <<.478%>" ' E' 1.' 4<' 0, <' J, 4-.1<. / .<7' =4.' ?.16, <<.<.' 6, 5' 7.47> 8' >.' =4 77.1% 41, ?.' .<5 .1.' .67' .<; , 1.' ; .15' <.' 641' 5.6' > .76' >.' <, 71.' 1. - , 547 , <% & <' / 41 / 41.' >'<6' 5" ?'17 .' J'4; : .%P' ! '1>.0 - , W6' 0 .<> '>, ?7; 1' 4<.' / .M 641.' &Q4' ?, 411' 7' ' J / ; <7.-' 6.6' 6, 4?J, 6% #.678> 7 ' % , <84<.' 5, >. ; 1; , <67'<; ; =4.E, <' ?1, ?, 6.I' '466 7, 7' =4.' , <' .<71.>'<6' 5.>, / ' .>.6' ; 1; 7 67' 3.68' ; .67' 4<.' > ; 7<E41.' =4 5' E'478' ; .67' 4 .' > ; 7'741 ' =4.' , ' >. / '<>.I' . .67' , 4 6' " ' >, <7' , <' . , =4.' 1 , / 01.% 34'<>8' ?, 41' 5" ?1. / .1.' E, W8' ; .77.' / .641.' - , 46' E45' ?1, ' ?, %6..8-, 46' 5" 1.?, 466>7.6% , 46' - , V .0' '5, 16' >.' 1, ?' ?1065' . ; 5'1'7 , <' >.6>1, 76% '57.0' ?'66, < 55.1' - , <6' / . / .6' - , 71.' 5.J 65'7 , <' > '4; 4<.' .<71' - .' " 5" 5 0.17.I' 5' 66; 0' ' ; : '; 4 ' 5.' >1, 7' >.' 71'<6E.1.1' 6" ?.16, 4<.' , 5' 0 , <54 6. / 05.% ' / . 55.41.' >.5 0.1'7 , <' 641' 5.' ?1, 0.7' =4 ' <, 46' .65' ?1.6.<7.' 6.1' 7' >.' >. ; 5'1.1' =4 5' 4 V " ?'6' 5 .4' ">. 0.1.1% ' ' .7.' '47'<7' 'EE. ; 7.' =4.' ?.16, 4<.' .7' >.6' - .<. / .<76' =4 ' - .<<.<7' >.' 6.' ?'66.18' .7' >.' 5" 6 M 74'7 , <' ; 74.55.' >4' 1, V'4 / .I' / ' 6' ; .< .67' ?, <7' 4<' / , 7 E' ?, 41' / .' >.7.1 / <.1' .<' E' - .41' >4' . , / .% '1 / ' 5.6' . / J1'<76I' 56 .<' 71, 4-.' >.' / '5 <7.<7 , <<.68' .' K .<' >, 47.' ?, <7I' / ' 6' 5' 6 .<' 71, 4-.' '466' =4.' 5" 7.1; ; 41' 6.45. / .<7' " E' 7' E4 1% 6' - .45.<7' 1.<; , 471.1' 641' 5.416' ?'6' 5" 6 : 1.7.' 5" ?546' .47 1.8' : 0 , <' ' .<' 5' ' %

'

.41'J'1' 7 66'<7 .<H ' ;.8 -,<6?,4-.O5.6'1'< .<.1%
,41 V ?'11.< 18 -,46 < '-.O ?'6 > '471. / ,V.< =4. Q
';:.-.1 5'' #,<67 747 ,<% . >./'<>. >,<.8 ?,41
<7.1>7 ? 7O5 ;%8 ?,41 5. -,7. .7 ?,41 ;.54 >.6 ; /
I1'<768 5'' =4.67 ,< ?1>'5'O5.'641 5.?1,Q.7 =4 -,46 .67
E>6.<7.%

N ,45.'66,; '7 ,< ;7'<7 E,<>.. 641 >.6
5,<-.<7 ,<6 =4 ''664Q;77 66.<7.J'5. / .<77,<6 5.6 / . /
1.6 .7 =4 . 7'O5 66.<7 .<71. .4@ 4:. 1>; ?1,; 7.?'1
7.8 7 <.?.47Q' / ' 6V '-, 1> <Q467 .. ''?,17.1 4<.
W <. .,<71. ;.4@ =4 / '<=4.<7 '' 4<.>.6 ;5'46.6
54 ;O<71'7 6,; '58 & < '??5'4> 7 >'<6 5'' ?'17 .
N'4;:.%P '' ?'71 . .67.< >'<J.18 <,46 <. 6, / / .6
5'6>'< ,1>1.,1> <' 1.>.6;5 ,6.6NU 8 :, / <.6
.<<.<7 >.6 .<1>5.18 .7 -,46 ?1.7.<>1 .O =4.;.6 5.
I ,<6 6,<7 E' 7.6 ?,41 >>E.<>1.5'' ?1,?1 .7V >.;.4@
c4 ,<7 >>6.17.5.41 ?,65.8 ?,41?1,7.J.1 .<-, >.
.>1 1.-.<48 '-.; 5.=<.5% 56 ';:.7.-,47 >.6'1/ .6.7
5.6 ;:.-'4@ 'E < >;<,46 .@7.1/ <.1Z & < '??5'4> 7%P
5, ,6 < .< 6, / / .6 ?546 '' ;.77. .?,=4. ,4 >.6 1.J1.76
%%7>1 5.6 641 5'' ?.17.>.=<. =4.6 ?1.1,J'5 -.6 'J 7' .<7
5.6 .6?1 76% ,46 '-,<6 ''<,6?,17.6 >.6 6,5>'76 '1/ .6
=4 -.<5.<7 ?,17.1 ; E.1 .7 5. E.4 >'<6 5. %6. <>. 5''
H1'<;.% 34.>, 7 E' 1. .< ?'1. 5;'6 7,47 H1'<;' 6Z
,<>.-, 1.67 >.6 '1/ .1?,41 5''>.E.<6.>.6,< ?'V6I
;; < =4 6 V 1;E:6. .67 <> J<.>.5'' cP-,5;;7 ,<>. 5''
6,; .7.I 5'' , =4 5.1>?1,4-.< .67 < 'O'1O'1.< <
467.I 5'' <'7 ,< <. >, 7 ?, <7 ?1,7.;7 ,< '' 6.6 .<<.
/ 6I 6 1 66.< O5..<'5 ,<'5; 5'' 5.41 ';;,->' 78 ,<
?,41E' 7 >4.=4 ;B; .67 > ';;,1>'-.;'5.6 ;,<71. 1>
-=547 ,<<' 1.6% .;,4;546 '' ;.=4, ; ?1,Q.7 >4 ;,
/ 7;6, 5'>,?7.%

8 B N <<.?.47 .<71.?1.<>1.>;'Q467 5 .1
5.6 / .< O1.6 > 4<.6,; .7.=4 .E46.<7 > .< 64??,17.1
5.6 ;:'1J.6- 34'<7 2 ;.4@ =4 -? >1' .<7 ?,17.1 5.6
61/ .6 .,<71.> .8 =4 ;, =<.< .67 ?'6 ?1.7 '' 5.6 1.
?,<66.1 6. 1 / 5;,1, / . ;,4?'O5.>4 ?546 J1'<> >.6
>.5 76 .7 <Q.1 5.5.?546 J1'<> >.6 64??5 ;.6% '6 ;,5''
7 ;7 < <J.1 '4 ?1,Q.7 =4 - .<7 > >71;'54 I 5 . / O1'66.
<> 67 <;7. / .<7 7,<6 ;.4@ =4 6,<7 6,17 6 >4 1,V'4 / .%
E.<.-.4@ ?'6 > 6.47.1 .< >.7' 5;.?5'< ?.4 O5<<.<7
> '5Q,1.% #.'6.1'' ?'1>.6 -4.6 64?.1 .41.6 =4.Q .66'.
1'>.>.;>.1 66. / O5. .<'7 ,<'5.I .7 6'<6 ;:;1;:.1
'' J1,66 1 5'' 5 67; >.6 >.E.;74,6 7.6 =4 6.7 ,4-.<7 >'<6
5.?5'<8 Q.?1>6.<7;1'' >.6 1' 6,<6 ?,5 7 =4.6 ??1,
?1>.6 '' 4< . / ? 1.>.67 <. '' >71.5.?546 O.'4 >4
,<>.% .;,Q< 7>6 .67 >>7.1 / 4> > '? .6 5.6 ; 1;,<6
7'<;.68 .7 <, '4 66'Q.'?'15.1' '>.6 ; 1;,<67'<;;6%
/ J1'7 ,<';;, / ?'J<.,1> <' 1. / .<7 5.6 J1'<>6 / ,4
-. / .<76 >.6 ;,1?6 ?,5 5 =4.6% ,16=4 4<. <'7 ,<
.@7 1?.6.6 'O468 '5,16 5.6 :, / / .6 E' O5.6 .EE1'V.6
,4 . 1' <>6 ?'1>.6;,<6. 56;,4?'O5.6;1, .<7>.-, 1 I
6. / .771.:,16>4>'<J.1>.5'';1 6.% .64 6 5, <>'?
?1,<-.1 ;.77. ;,<>4 7.I ; .67G'4 / 5 .4 >.6 ,1'J.6
=4.5.-1'' ; 7,V;< >, 7 >>-.5,??.1 6.6 E'#457>6% 4 I
.67 ;, ?'O5.> >71. <> 5E>1.<7 =4' > ,< ?.47>71.
47 5.% O [>7;6 ?'1-.<46 '4 ?546 O.'4 ?>1 ,>.>. 5''
1>-,545 ,:8 <,46 7,4;:,<6 '' ;. / , / .<7 =4. ,<
< '77. <7 >'<6 5.6 1.-,547 ,<6 ,1> <' 1.6 =4 '?1 '>.6
6 .;5.6% .6 ;1 6.6?,5 7 =4.6 ,<7 / >1 ?'1 5''E.1 / .<
7'7 ,<% '' / '1;:.>.6 .6 4 768 ;.77. / / .<6. / 'Q,1 7>
=4 - .<7 >. 6.?1,<,<;.18 ''>,<<.'4@ ' / 6 .7 '<@
.<<. / 6 >. 5'' 1.-,547 ,< 5'' ?546 / ?,6'?7. 5. ,<
=4 56 ?4 66.<7Q' / ' 6 1.;.-, 1I 56 ,<7 -4 =4.5%O 7,
7'5 5.>. . / ? 1.7'7 7 / ?1>J<..>4 -..4> >71.5 O1.8
.7 =4.;.77.?5'<5.=4 ''Q.7>>.6 1'; <.6 6?1,E,<>.6
<.?,4-' 7 ?546>71. '11';:..>4 6,5 >. 5''H1'<;.N
56 ,<7;, / ?7.;.77. / <,1 7.8 / >?1 6'O5.'4 / , <6
?'1 6,<<, / O1.%

/ 'J <.O ?'6 =4. .6 ?4 66'<;.6 >51'5 J 1.6 ' .<7G
>7> 5.6 & .11 .1.6 4 E' 1. ;.6 ;'5;456% #.'= ,< 5.41
'-' 5 '??1 6 '' 1.J '1>.1 ;, / / . 4< ?.7 7 <, / O1.>.
E';7 .4@ Q5 6 1; / '1=4'O5.6 Q / 1 5.<16 / , -. / .<76
=4, ?'1 5.41 <4 7 / O 8 Q56 ,< =4, . .7' 7 5'

H1'<;.7,47 . 7 .1.% ,V.O .< O .< ?.164'>.68 .6M
6 .4168 7 < V '' ?'6 >. ?4 66'<;. >'<6 14< -. 6 =4
?4 66. . / ?>.:.1 4<. <'7 ,< > >71. 5 O1. =4'<> .55.
-.<7 .51.8 ;7 =4'<> .55. 5. -.<7 7,47 .<5 .1.% ;
/ '1=4.O >'<6 =4.55.6 74'7 ,< 6,<7 5.6 H1'<;, 6 =4
>'<6 ;.77. ; 1;,<67'<;. ,<7 ;14 >.-, 1 6. Q>';;1 ;<
>.:,16% .Q,41 ,4 56 ?47 -4 / ?,66 O 5 7 E '1'55 .1
>'<6 5.6. < >4 1,V'4 / . 4<. / <,1 7.. < .7'7 > ,??,
6.1 5'' / , <>1.1>6 67'<;.8 ;.Q,41 5'' 56 ,<7 >4 ?.1>..
.6?, 1 >. 71,4-.1 >.6 ?4 66'<;.6 '66.O <6. 6 .6
% ?,41 6';1 5 .1 5. 6'<J >. 5.416 6,5>'76 '' 4<. ;'46.
=4 <. 5.6 <7.1.66.?, <7 NQ.> 6 =4 <. 5.6 <7 ,66.
?, <78 ;'1 .@. / ?5.=4.<,46 -.<,46 >.>,<<.1 < .67
<455; / .<7 1;>,47'O5. '' <,6 -, 6 <68 ?4 6=4 5 7, 1<.
'4 ?1,E 7 >.7,47.6 5.6 '47,1 7.6 5.J 7 / .6% .;1' J ;O
?, <7 4<. 1. 4< , >. ?4 66'<;.68 5 V '' / , <6 >.
;:'<;.6 ?,41 5.>.6?,7 6 / . '' 6 . 7'O5 1 ?'1 5'' E,1;.8
=4.?,41 -,46 '' ;,<6,5 >.1 .> 5 ;. >. 5'' 5 O.17..<
;,<6.1-'<7 5.6 ?1 ; c .6% '1 / . / J1'<76 5 6 .<
71,4-.=4 < '77.<>.<7 ?,41 1.-. 1=4. ';5 >-; / .<5
>. -,7.#,<67 747 ,<I .7 5'' 1.-6 ,< >,<7 -,46 '5 ''
-,46 ,;;4?.1 5.6 1'??.55.1'' >'<6 5. 6. < 5 ; 5.[
?'71 .8 '4 5 .4 >. 6. -,4.1 '4 1>5; >.6:,<,1'<7 >.
4J 7 E68 .@ 5.6 >. 7,47 ;. =4 .67 ;O.1 '' 7,<6 5.6
:, / / .6% . 6'56 =4. ?'1 / .4@ 6. 71,4-. 44 '66.O
J1'<> <, / O1.> 'V.<7 1 ;16 =4 -,<.<7 '< ?1. / .1
.<< 4<. 'O1'-,41.>,<7 56 <.6'-.<7 =4,'E' 1.I / '6
5 .67 '466 >.6 ?.1.6 >.'E' / 55.=4'' / .1' .<7 1< .4@
/ 55.'E, 6 ?.1 1 =4.>.6 '1 / .1., <71. 5'' H1'<;.% .5.
1. ?.7.8Q. 1.E46. >. >.6;.<>1.>'<6 5.6 >.7' 56 > /
?,66 O 7. = ,< 1.<;,<71.1' 7 '' ;:'=4.?'6 >'<6 5.
k>'< =4 -,46 .67 6,4 / 6I 56 <; ?.<-..<7 -,46 >;:'?
?.1% '6 Q. ?1 . 1 66.< O5.. >. 6. ?.<.71.1 >. 5''
J1'<>.41 >; 6'' ?,6 7 ,< 8 >.6 / 4 .<6.6 '-' 7'J16=4.
54 >,<<. '66.<7 / .<7 >. 5'' <'7 ,<I ;7 >. <. ?'6 6.
V,4.1 % >.6 / .64 ;6 5V1'<< =4.6I Q.> 1'' / >< ; >.6
:,<,1'<7.6 ?,41 5'' #,<67 747 ,< =< .55. '' .7<O5 .% .
;,<;546 '' 'Q,41 ; / .<7 >4 k< ,Q.7%

; D) %%E'47 641 5. ;:' / ? 1'V.1 5''5, =4
'11.7. 1> < J1'7 ,<% .7 =4 >7'O5 7 .<71. 7,46 5.6 W
5,V.<6 5''1.; ? ,; 7.>.6,O5 J'7 ,<68 6 -,46 <.-,<
5.O ?'6 '>,?7.1 5. ?1,Q.7 =4 -,46 .67 6,4 / 68 ;'1 5
.< .67 .->. / < .<7 5'' ;,<6.=4.<;.% .-,<6 <,46 6,4E
E1 1 =4. 5.6 ;,1?6 '> / / 671'7 E68 =4. 5.6 J'1>.6
<'7 ,<'5.6 6, .<7 ?546 5,<J7. / ?6 1.6?, 6'O5.6 >.6
?1,?1 ;7.6 >. -,6 .<<. / 6Z \ -,46 5 66.O 64O6 65.1
;.55.5, 8 Q.-,46 5. ?1.> 68 -,46 <; 6.1.O ?'6 ,O. 6%
G& < .<7.<> >,6 '??5'4> 66. / ;<76 >'<6 5'' ?'17 .
J'4;:.%P

% N ; 1'??.55. ,1>1. ; .4@ =4
- .<<.<7 >. >,<<.1 >.6 '??5'4> 66. / ;<76 '466 6;'<
>'5;4@%

8 % B I . >. / '<>.%=4. % ;[O.55 6,5
'466'1'??;5> 4 ,1>1.% & 6 > .->.6 / 41 / 41.6%P
% 1 '<6 4< / , / .<7, 5.67 '' ;1' <>1.
=4.5. ?.4?5.'O46>< .>,<<. ?'6 '' 5''5, '7, 7. ,
O. 66'<;. =4 .55. / .1 7.8 .7 , 5 ,? <'<7 < '' 6'<6
>,47.'E' 7 =4. / '< E.67.1 6.6 ;1' <7.68 5.6 71 O4<.6
>, -.<7 J'1>.1 5.?546 J1'<> 6 5.<;.%

% B N / .6. <O5.8 % 5.?1.6 >.<78 =4.
-,6,O6.1-'7 ,<6 >.-1' .<76 .7.<>1.Q46=4.641 ,?
<'<7%

% ; D N .6,47 .<6 =4.; .5''<.?.47 ?'6 >17
<7.<7 ,<>. 66. / O5>.8 .7 ><66> Q.>71. / 55.E,6
1'??.5; '' ,1>1.8 Q. / .<'??5'4> 1' 6% & < / .7<5 17
>.5''?'17 .J'4;:.'??5'4> 7%P < 6 .5>-.., <71.4<.
?'1,5.=4 / .67 >;:'??>.8 .7 ,< <. > 7 1 .< > 4<.
?1,>4;7 ,< =4.Q.7 .46 >'<6 5'' / ' <8 =4. ,< >6
71 O4.>.7,47.6?'1768 .7 =4 ;,<7 .<7 5.6?1<. ?.6 5.6
?: 6 >.671' ;7 O5.6 >. 5'' 6,4-.1' <.7> >. 5'' <'7 ,<%
& < '??5'4> 7 >'<6 5'' ?'17 .J'4;:. .7>'<6 5.6 71
: / .6 '' ?546 .416 1.?1 6.6%P . -.4@ ?'15.1 >.5''>.
;5' 47 ,< E' .?'1 ?546 .416 / . / O1.6 >.;.77. 66. / G
>;;% 5<,46> 7 =<.<,46< ''-,<6 ?546 1 .< '';1' <>1.%

.'?1>7.<>6'\< , 8'=<.'<,46'1,<6' ; ;,-.'5'' ?'7Q.''
6' -.1% .6'.<<.< 6'1.>,405.<7'>.'- J5'<;.I' .7'?4 6'
=4 56'6,<7'',41>6''7,<6'5.6'6.<7 / .<76'> :,<<.41'\5'
E'475.6'?1.<>1.'?'1'5.41'.<>1, 7' g<6 05.'NQ.'-.4@'
8'>1.'?'1' <7.1>7% .6'><.6'-5.6'<.'?.<-.:7'E71.';,<'
7E 7.6'=4.'?'1';.'1.66,17% <'??5'4>7'>'<6'5''?'17 .'
J'4;:.%P' <'<.'>, 7'1 .<'' =4' <.'-.47'1 .<'>.-, 1%'
, 5''5''7<'@ / .'=4.Q <-,=4.8'.7'Q.'>. / '<>.'=4.'5.'
?1,Q.7'>.6';,/ 7.6'6, 7''>,?7>% 8 b d
% 'N '5J1.'5.6' '66.17 ,<6'>4' ?1. ,?<'<78'
;,/ / .'Q.';1, 6'<'V, 1'?'60.6, <'>.'E'1.'?1.4-.'>.
'/,<'>;-,E7/ .<7'''5'' ;:,6.'?405=4.8'Q.'<.'0'5'<;.1'
'?'6'>.'>,<<.1' / ,<' ,?< ,<% ' <.'6 'J7'? <6' ;'>.'
H1'<;' 68' / ' 6'> : , / / .6'=4' ,<7' =4 77.'5.41'?'V68'
=4' 047'1.E46.'-,6'5, 6'.7'5.6'0 .<E' 76'>.'-,71.''66,M
; '7 ,<%#.17.6'5'' / 'Q,1 7.'>4<'1,V'4 / .''0 ;<'5.'>1, 7'
>.'6.>,<<.1'5.'J,4-.1<. / .<7'=4'54'6. / 05.'5.' / . 5'
5.41I' / '6'.<;,1.',<''5.'>1, 7'>.'E4 1',<'>,0>1%' '
'% !' !' ' :! !'! ')A' ' !' ! '$!'#' '
+#',!' ! !' <'&)*!' ' ' > !
'; / '5.6' . / J1'<76',<' .<';, / ?7.'=4'-.45.<7'.<M
;,1.'>.1'.41.1'H1'<='6'.7'=4'.6?01.<7'-.<1' ;4. 55 1
'5.6'E14 76'>.'-,6' <67 747 ,<6'=4'<>' 56'6.1, 7' / >16I
56'< ,47'?, <7'-,45 ;,41 1'5.6';:%'<;.6% .<6.0-,46'
=4 4<.'5, '=4' ;,<E6=4.1' 7'5.416'0 .<6'6.1' 7'Q467.'.7
'-'<7'J.46.Z' .'!1'<6'0.'4;,4?'=4 ,<'<.'6>J'1.'?'1'
.@. / ?5.' >.' 1>?405=4.' >.'5'' !10;.I'5.6' / .641.6'
'>,?7. .6'?'1'5.6';,1?6'E' 05.6'<.'?. -.<7' >71.''??5 '
;'05.6''4<';,5,66.';,<67 74>';, / / .'5''H1'<;.% '6.M
1' 7' <>J<.'>.'-,46%>.'1'< , / .1'5''E'0 ;66.'?'1'>.6'
5, 6'7 6;'5.6NQ.'>, 6' / > / .'5.'>. ;5'1.1' ; I' 5'6.1' 7''
6,4:' 7..=4.'5''H1'<J.'?>7-, / 1'?'1'7,47.6%6.6 664.6'
7,465.6 / .;,<7.<76=4 .55.'1.<E.1 / .% 8
06.1-.0'=4 4<.'5, ' ?1,: 0 7-.'>.'1> / J1'7 ,'8'
?,41''57. <>1.'=4.5=4.6':, / <.6'>.'/ '4-'6;' -,5,4'
7.8'?,17.1' 7'641'4<.'E,45.'>:, / / .6'E' 05.68I>.'E. / M
/ .68'>.'- . 55'1>68''=4'5.';,41'J.'< .67'?, <7'E' / '
5 .18'.7'=4';.>.<7'0 ;<'4'741.55. / .<7'4@';1' <7.6'?'1'
I5.' / ,4-. / .<7'>5 / .' / / .<6.'1.-,547 ,<'8 / '7, ,7.6'
5.6'<,7 ,<6'>.5''Q467 ;.6,<7E'466.68',?84<.,<71'7'<S.67'
,05 J'7, 1.'=4.'?'1;.'=4 5' .67 / 454.5% .6'>E .457>6'
>.6'7. / ?6' ,1J'<6'7 ,<'>4<.'J1'?>.' / ';:<.88 ;'
>'<J.1.4@% <7.11.J<.'>.6'5, 6'<,'8V,46'?<7'Q486=4S;'
?.1<6'=4 / ?'1E'7. / .K7'>.'E'1.'?1,7>J.1' ;6'>1? 56'
.5'5.6'Q,4 66'<;.6'>.' ;5';4<'?'1%5''E,1;.'>,87,46% '
>7' 7'6 / ?5.''5,16'=4.';:';4<';:.1;:E,>.6 / ,V.<6'>.'
%6E5 #7>'?'17 ;45 . '8' ,16=4 5'<.<.@ 67' 7'?'6'>.';, / M
/ 4<.8'5,16=4.''4; B .%E, 3E' .5'05 .'<.'?,4-' 7'5.6'57E'
J'1'<7 1%
' <5.<'<7'=4.'5''?546'J1'<>.'?'17 .'>.'-, 1.' ,1J'M
<6'7 ,<6,; '5.'.67'7.1 / <..I'=4.-,46'-.0'>.6''> / M
<671'7 ,<6'8'>.6'71 04<'4@8'>.6'71,4?.6'1.-,545 ,<'
<'1.68' E1'??.0'5.6' ?.17410'7.416'>4' 1.?,6' ?405 ;'
?'17,?7' , 5' 56',6.1,<7'6.' / ,<71.1I'E' 7.6 5.41'6.<7 1'5.'
..45'0 .<E' 6'<78' / ' 6'5.'?546' <E5.@ 05.'>.6?,7 6 / .8'
5''5, '>4<'?.,?5.' 5 01.I' =4.'6,<'J5' -.'6.' ?1, / .<.'
6<17,47.6'5.6'7>7.6I' =4.';:';4<''??1.<<.'=4 '47'<7'
$' <6411.;7 ,<'J.<.1'5.' ;.<71.'5.6'5, 6' / ?,6..6'?'1'
>.6'7V1'<6' .67'5.'?546'0.S'';7.'>.' :4 / '<7.8''47'<7'5''
?546'5. J.1.' <E1';7 ,<'>.6'5, 6'=4 ,<'' ;,<6.<7 .6' .67'
Q ,<7.46.' .7';1 / <.55.8'=4.'5.';,4?'05.' .67''5,16'1.M
-,57.';.<71.'5''7,7'5 7V>4'?.4?5.Q'=4.'5.6 <> - >46'<.'
6.' / .77.<7?546'%5''?5';.'>.'5''5, I'=4.'>.6';,1?6''>'
% / <671'7 E6'<.'6.' ;,<67 74.<78?546' 01<7,7' .<'?,4-, 1'
5.J 65'7 E8' 7'<7,7' .<' ?,4-, 1' .@. .47 E'>.'5'' <'7 ,<I'
=4 ,<'6';:.'=4.'5.6'1.-,547 ,<6'6,<7' / , / .<7'<.;68'
=4.'5''Q467 ;.'.7'5.6'>.-, 16'=4 . 5.'?1.6.<7'6,<7'6.456'
>7.1'.56I'=4 ,<'6';:.'=4.' ,71.'1. -,547 ,<' .67'E, 7.8'
=4 .55.'<''0.6, / '>.' '?? '>'4;4<':, / / .8' / ' 6'>.'
.5= A>.6'5, 6' .7' 6417,47' >.6'?1.; .4@8'>.6'?1. / .16'
%.@. / ?1.6 ;E77'1.6?.;7'=4' ' .67'> %
<'<,46'?'15J >'4<.'5, ';,<71.'5.6' . / J1'7 ,<6NQ''
?. <.' ';1, 1.'=4.8J .<'6, 5'4<.''?1.6.<7.1''4<.' 6'
K. / 050.''466'>. 1>. '#2.]7' ; '=4 5'E'47''77'=4.1'5.

/ '5'>'<6'6''6,41;.'.7'<,<';0.1;:;1''?'55 .-'.<'>>7''
=4.5=4.6'E' 05.6'6V / ?79 / .6Y'H' 6,<6'?,415.'>.7145<'
4<.'>-.16 ,<':. 1.<6.' <'55,?6'?'6''77.<>1.'5.6'> / '
J1'<76'8'4@8 19<7 0 I.688%'75'=4,<6' >1, J1'7 ,<'>'<'
5.';,. 18'>4'1,V'4 / .I'; .65'5''=4.'<, / 6'5.'E.1,<6'- .'
5,1 .46. / .<7I'E' 6,<61>J<.1 11>E1'J'05. / .<5'5.6'5,'
=4.'<,46'-,<6'E' 7.6I'=4.'5.41'., ?1.'6, 5'<.-5'05'
; , / / .'5.'>.65 <8.7'5''5, '=4.<,46'J7,<6' .67?,17>
.'-,46'1'??.55.1'' ;'4<'71' 7'>.' : 67, .1, / '
<.'N #.6'1'.7' , / ?..'>7' .<7'>-6.6% #.'>. / .1'>.'
;5'1''?'1' / ' / '<E.67.'=4 5'71' 7.1' 7.<.<<. / 6'7,4'
;.4@'=4'< . / 01'66.1' .<7'?'6'6'';'46.8'# ` '18' '! '
-,1'>.'5''E,174<.8.7' =4' / >1 7''>.'5''>,1'<.1%'<'
<,<J''=4.'?,41'54' 5'1;J'1>.1' 7' ;, / / .'>7'<7' '' :'
;.4@'&<'<.N 6.1' .<7' ?'6' ;,<71.' 54 % .@?>1 .<;'
?1,4-''5.=4. '>; >.4@''V' 7'5.' / .4@' ;'5;45>% '
?1>Q.7>.6' ;, / 7.68' / .' ?'1'57' >'<J.1.4@8' <Q467.' .'
<.@.; 7'05.8' .'>. / '<>.'=4 5'6, 7'1.Q.7>'?'1''=4.6'
7 ,<'?1;'5'05.8'?.164'>.'=4.' 66.< 05>.' .<'?,17'<'
4<.'5, ' ;,<71.'5.6'1.0.55.6' E1'<J'6' JV' 7'E' 7'7?47 #'
=4 .55.'?,4-' 7'E' 1.8' % 8
%K 4 N' ''=4.67 ,<8'= .'-,46'>6;47.0''>7'
'J 7>.'=4.5=4.E, 6'>'<6'5.6' ;,<6. E6'>.6'7V1'<68' ,4'
'' ' .7' ,6.?:' 8' '?1.6''-# 1'?,17>'>.6'5, 6'0'10'1.6'
,<7'E' 7'>.6'5, 6'.<;,1.'?546'0'10'1.6';,<71.'5.6' . / '
J1'7 ,<QI' / ' 6' ;.'<.'6,<7' ?'6'>.6'5, 6'>.' ;.'J.<1'
=4 ,<' ,6.1' 7' -,46' ?1,?,6.1' ; N' ;.'<.'6.1''Q' / ''
?,41'5.6'7. / ?6'>.' ;'5 / .'=4.'>.'6'J.6' 5.J 65'7.41'
?,17.1,<7'>.6'5, 6' '466' ;1QQ.55. / ;<5''0641>.68' 5'Y'
6'J 7' '4Q,41> :4'=4.'>.'6 / ?5.6' / .641.6'>.'?,5 ;.'
/ .641.6' / , / .<5'<>.68' / .641.6' =4.' 1'0.'4'54'
/ > / .'71,4-' 7';,<-.<'05.6'5,16=4 5'6 .5.-' 7' ; ' 5''
''=4'71.'1', 68';,<71.'4<'?1,Q.7'>.'5, '641'5.6'> / J1''
7 ,<6% 18'?,41'?1.<>1.'>.'?'1. 55.6' / .641.68'=4.'>.'
-.0 -,46'E' 1.Z' 34.56' ;5, -. 7' >71.'-,68J'1 <76Z' 5.'
J1;,<67'<J.6' ,1'J.46.6' ,4'6.'71,4-.<78'5'' <'7 ,<'.'
,?1 ,<'?405=4.% #.5E, ;' .67>>Q''<1,4->J'?'1'5.'
, / 01.46.68'8>1. 6.6' .78'?' I' J' -..4' >.6%J7,V.46'=4'
>. / '<>.<7' J.77.8' 0 8'%34'8 7' '4@' ; 1J, 7'<;.68' =4'
?.47' .<' J<,1.1% .'>'<J.1Z'Q%''J4 / 1>'; V S.8;7' 7%?Q1>'
I?'1>.8'5.6' .< ; / 6%>4'>>:,1 % > .<E'?1, V.<4 '%PJ'
. / J1'<76'E1'<J' Q'.7' .<7'.?'1 / .%e'&&. %
;5'<>.67< 6.'E' 6' .<7' '4>.S5'<68.7O,%1 '>55'
8?467 ?.<> ' 7'>.6' 01 J'<>688,?%.6?.;' 7' %0,45JV. '
7; <?1.I' -, 5'' .7'7' ,4' -,46'%.%7 .0%5.8'E 7'Q 747VE,1'
J'?1.; ? ;.''4 >.6646'>4=4.E5''H1'<;.'5.E'Q7' J3 ?E,'
646?.E >4.8'6'<6'5.';,41'J.'.7'E,'6'J.66J'J4JE,4 '-?I'
/ ,<71>68' ' <6'=4.'7, 56' ;6%; 7,V.46;@; E, %?'V'8-=cJ'
.@. / ?5.%
<'-,46''>7'=4.8'>'?1.6' ;.77.'0.55.'1.6 6E'<;.'E5'
'<'7 ,<'.7'>'?1.6'1.@?1.66 ,<8'.7 .1J =%4.>4'V;.,'>.'
H1'<J' 68'-,467 '- .0'?546'1.1''',1'<>1.>.;.6'. / M
J1'<76% :5' =4.E; .67' <' .6';,<<'^71.8';.6' / '4-' '
V ,V.<68'=4 8'E41 .4@'>'-, 1'?.1>4'5.60, .0.76>.:'
-'<7.8'<.'-,46'?'1>,<<.1,<7'Q' / ' 68'4'5.'>.;1.7'E,'
*' 5<8'<'5.6'5, 6'6'J.6'=4.'-,46'>, < ''5''H1'<;.S'
,V.0' ;.'=4.'>.6' : , / <.6'?5';.6'>'<68';.77.' .<;. <7.'
,<7' ,6.8' / >1'.'>.?4 6' .-.4. / .<7'=4' '' 1' / .<>'5.'
1, ' '' '1 68' .5Q4J.b8'?'1' ;.4@'=4'6,<7''<' / 5 .4'>.'
<,468'>.';.'=4 ,6.1,<58'>.';.' =4.'7.<7.1,<G' .<;,1.'
;.4@'=4'6,<7'641'<,6'E1,<7 .1.6%Q& <' '??E,4>7 P' <'
-,46' ' 7' .<;,1.>'Q,41<;15.?1,Q.5>.'5, 'Q46=4 '?106'
''#,<67 747 ,<I' / ' 6'Q46=4 '';.77.'.?,=4.' =4' <,46'
'6641.'=4 56'7 .'5.<7.1,<7'1 .<' #,<71.'5'' ?'71 .Z'=4'
<,46''6641.'=4 56'<.'< .771,<7'?'6'>.6' .<71'-.6' ' ''
;:.-. / .<7'>.'5'' #,<67 747 ,<8' >?,=4.' =4 56'-, .<'
'??1, ;:.1'-.;'7.11. 1'.7'=4'>, 7'<'741.5 . / .,7'4J'
< . 7.1'5.416'.EE,176Z
34'<>'5''#,<67 747 ,<'6.1''E7 5.8'5.41J .EE,176'6.1, :7'
<<568''5,16' 561.- .<>1,<7'&E.4@ <E, / .6I' / ' 6''4Q,4V'
>:4' <,46' '-?<6'0.6, <'>.'<,46' '664 .1'5.';'5 / .8'
,4'>4' / , 6' '06.<;.'>.G 71,405.6' .@E,1 .4168'Q '
%=4 '';.'=4.'5''#,<67 747 ,<'6, 7'E' 7.I'<,?6''41,<6'7,4'
7,416' -(''71,405.6' ,7>1 .4168'7'<7'=4.'<,6'. / J1'<76

)

#.7'';7.'7.11 05.' >.-1' 7'-, 1'4<'7.1 / .8' ' <, <6' = .'5.6'; 1; ,<67'<; .6'< V / ;77.<7',067';5.8' ,4'=4 5'<.' 6, 7' / ?,66 05.' >.' ?1 - , 15.7.1 / .' > 4'' / '5' / / G' 5 .<7% 1.<.0'>,<.'>.6' / .6 1.6'=4.' >7'7>.'5'' H1'<; .' -,46'?1.6.<7.'., < / .' < ;.66' 1.6I'6 =, ;671.0'5.6'1.-.' <,68'.7E1'??.0 5;6'> 4<'71 ?5.' / ?#7% ??.5>6'?'1'-,6' >.67 < .6'' :,<,1'05.'E,<;7 ,<' >.'01 6.1'5.6'E; 6'>.' -,71.' ?'71 .8' ' .7'05 1''4'6. <'>.'1 41, ?.' 5.6' >1, 76' >.'1: , / / .8' .7''<'7 1'5 6.1'5'' 5 0.1 .' ; : .0'4<'?.4' ?5.=4 8' ?'16.6' 5,<J6' .7'?.< 05.6' .EE,176'6. / 05' 7'<,' ?,41.55.8'-,46'-,46' . / ?1.66.1.0'>.' ;'5 / .1'5.6' <' 74>.6'641'>.6' / J1''7 ,<6'=4' '-' .<7'5'1 / >'7'47' >.' ; 7,V.< % '??.5.0'>.6' : , / <.6' '4' / 5 .4'>.'5.416' E1 1; Q ,4'E1'??.0 5.6' >4'6; .'4' >.'5''1.?1,0'7 ,<' ; ' - =4.% .'>. / '<>.'=4 ,<' ' 55.'' @'-, @'641'5.' ?1,Q.7' >4' ; , / 7.''-..'=4.5=4.6''1'.<>. / .<76'=4.'Q.' / .'1.M 6.1-.'>.' ?1, ?,6.1% & <' '??5'<> 7% +' <'>. / '<>.'' '55.1''4@'-, @%P

66. / 05. .' ,1>,<<.' / ?1.66 ,<' >4' > 6; ,7716'>.' %K'11.1.% $ d

<'>. / '<>.'=4.'5'' > 6;466 ,<' 6, 7'E.1 <..%

' - 5 'I' 46'J.' .7'<7'> .<7.<>1.'5.'1'?M ?,17.41' '-'<7'>.'E.1 / .1'5''> 6;466 ,<8' ,<' 4;'?.<7'5'' E.1 / .1'?106'4<.',? < ,<'6. / 05'05.'';.55.'>4'; , / 7 %%%

66. / 05 .' ; ,<64 .'E.1 / .'5'' > 6;466 ,<' '' 4<.' 71 6'J1'<>.' / 'Q,1 7.%

<'>. / '<>.' 'Q,41<. / .<7%

' 'N' '' > 6;466 ,<' .67'E.1 / ..8' / ' 6'Q.' ;1, 6' / .'>.-, 18'.<' / ''=<'5 7.'>.'1.?1 6.<7'<E8'>.' / '1' =4.1'?405 =4. / .<7' / ,<' ,??,6 7 ,<' ''5''5, '=4 ,<'-,46' '?1,?,6.%

9' 1 'N' ' ' '' -,46'E' 1.'4<.',06.1-'7 ,<'=4' 1.4>1'' 'Q,41<. / .<7'> 4<.'< ;.667.' <> 6?.<6'05.8 '.<'5.'5 @'<7'7,47.E, 6' '' 4<'7.1 / .'71.6'?1, ; : ' <% 'V '' >'<6'5.'?1,Q.7'>.'> ;1.74<''17 ;5.'=4'?,17;'=4.'5.6'; ,1?6' '> / < 671'7 E68'5.6' / 4< ; ?'5 7.68' .7;%8'6.1,<7'7.<46'>.' -; 55,1' '4@'?1,?1 7.6'>.6'. / J1'<768'5.6=4.55.6'?1, ' ?1 7.6'6,<76,46'5''6'4-.J'1>;'>.'5''E,1;.'?405 =4.N' 5'E'47'>,<.'=4.'-,46' 'V.0' 7'05'5.' / ,>.'64 -'<7' ; ' =4.5',<'?,411''1.=4 1 1'.7'E' 1.''??5 =4.Q'5''E,1;.'?4% ;5 =4.''5''> E.46.'> <';B,1.<''77'=4 8' 6, 7'>'<6'6'' ?.16,<<.8'6, 7'>'<6'6.6'?1,?1 7 6% .' , / 7 '>.';,<6M 7 747 ,<' .67' ?1 7' '' -,46'?1,?,6.1' ; .' / ,>.% .' ';1, 6' ; ,<E,1 / .' 2' -,71.' > J< 7.' .5' '' 5'' 1' 6,<' >.' 67'74.1' '-'<7'7,47'641'5.'?1,Q.7'>.'> ;1.7'1.5'7 E' ' ';7 ,<'>.' 5''E,1;.' ?405 =4.8' ?4 6=4.'5'' ?1,7.;7 ,<' > .5''E,1;.' ?405 =4.' .67'<455.'6'6,<' ';7 ,<' < .67' > 7.1 / <..% <' ?.<7' / .771.' ; .'1'??,17'' ,1>1.' >4' Q,41'?,41'54<>' ?1, ; : ' <%

.'1.J1.77.'=4 ,<' < ' 7'?'6'?1 6'5.6'< .641.6'?1, ?1.6' ' 6'7 6E' 1.' 5.6'Q467.6' > 6 16' >4' ?.4?5.% .' 1.J1.77.' =4 ,<' ' 7'?'6'?1 6'>. / .6<1.6'?, 4=< 5'6, 7'1.<>4' ?5' <7.' ; ,<71.'5.6''47.416'>.' .<5 -. / .=7'>4'10 8' .7' & '?1,Q.7'=4''-' 7'?,41'047>.' / .771.'4<.''14 .' <' 71.'5'' ; ,<67 747 ,<' 7'5'' ; ,<6; .<; .'>4'1, % .'1.J1.77.' =4 ,<'< ' 7'?'6'.<; ,1.'?1 6'>.6' / .641.6'?,41'> 714 1.' %7,46' 5.6' ,067';5.6 =4' ,47' 7' '??,17.6'6'<6' ;.66.' '' ';7 ,<' >.6' ?,4-, 16'.7' '' ';7 - 7 ' >.6'; ,1?6' '> / M < 671'7 6'?'1'5.6'6046 ,1>1.6'>.6' / < 671.6% .'>. / '<>.' >,<.'=4.'5.'?1,Q.7'>.'> ;1.7'?1,?,6 '<.'6, 7'?'6' / 6'.<' > 5 0 1'5 ,<''-'<7'=4.' 66. / 05 .'' 7'1.<>4'4<'> ;1.7' 641' ';7 ,<'>.' 5''E,1;.8'?405 =4. 8' .7' <7.<>4'5.'<=P ' Q $?,17'>.6' 6.?7' ; , / 7 6' 641' .<5.-. / .<7>4'1, 8' '5 < Q =4 .8'Q467 ; .' 7'<7'4<.'E, 6'E' 7.8'5.'?.4?5.'< ' 7'?546' / ,7 E'>.' 6.'?5' <>1.% #.'6.<7' ; .6' / .641.6'=4' 7'05' $ 1,<7'5''5 J<.'>.'> / '1;'7 ,<' .<71.'5.6'H1'<; ' 6' / ' Q J1 68'5.6E1'<3' 6'1.0.55.68'.7'5.6'H1'< Q' 6'7 / >;6'=4' I 4 6 1.<7'1.<71.1'>'<6'5.41'?'71 .% <' ; ,<6 =4.<; .' / '' ?1,?,6 7 ,<' .67' 'Q,4 / . / .<7 '' 54<>' ?1, ; : ' <' ><' ?1,Q.7'>.'> ;1.7'>4'; , / 7 '641' ';7 ,<'>.'5''E,1;.'?4' 05 =<.8'>4'1'??,17'>.6'6.?7.., / 7 6'641' .<5.-. <.<7' >4'1, % .7'>.6' / .641.6'1.5'7 -.6''4@' / J1'<76%

%K,#;B E ' N' 'Q,<1<.1'.<7' 6;1' 7'E4<.67.' ,<' <47 5.I'E4<.67.8'6 '-,46'5' 66 .0'J1,66 1'5.'<, / 01.'>.6' / J1'<76I' <47 5.8'?4 6=4 . '1.<>'<7'?1 6 >. / ' <'5.' > ;1.7'=< ,<'-,<6?1,?,6.'641' ';7 ,<'>.'5''E,1;.'? ' 05 =4.8' 5' I .1'' 7,4Q,<16'?,17 ' '66.Z' 97% .?4 6'71, 6' < , 6' ,<' 'Q / 1<.' 6'<6' ; .66.I' ,<' - ,<6' E.1'' .<; 1;' 'Q, 1<.1'?.<>'<7'71, 6' / , 6% 'E'47'=4.'5.6' / J1'<76' 6' ; : . 7'5.' ?546' ?1, / ?7. / .<7' ?,66 05.' 5.6' / .641.6' =<' 6;1, 37'?1 6.6' ; ,<71.' .4@% .'>. / '<>.'5''=4.67 ,<' ?1;'5'05.'641' 'Q,41<. / .<7%

66. / 05 .' ; ,<6<77 .8' 5'' ?'17 .' >1, 7.' ?1.<'<7' ?'17''5''> 5 0 1'7 , :8'> ; >.'=4 5'< V' '?'6'5 .4' ''> ' 5 0;1.1'641' 'Q,4 / . / .<7%

' ! 'N' .6' ,? <'<56' ,<7'7,=Q,416 7 ' : ,16'>.' 5''=4.67 ,<I' 6' 9<7' 007.<<' >.6' '??5'4> 66. / .<76'.<' -,46'E' 6'<7'5.'7'05.'4'>.6'>'<J.16'>,<7'<,46'6, / / .6' ,17 68'7'<> 6'=4 5'6 'J 66' 7'>.6'>'<J.16'>'<6'5. =4>6' <,46'6, / / .6'.<; ,1.% <' - ,46''>; / '<> ' .<64 7.' '' Q,41<. / .<76,46'4<'0 .W'6 <J 5 .1'?1 5.@5.8 5' .1'05.' =4 5' < V' ' 7'>'<6'5.1,V'< / .8' K' ,1>1.8'<'E,1; .'?4M 05 =4.% & <' '??5'4> 7%P' '-,71.' ; , / 7 '<.'-,46''-' 7' ?'6'?1,?,6 '>.' / .771.'5.6'?1,?1Q 7 6'6 =4.671 .6'6,46' 5''6'4-.J'1>;'>.'5''E,1;.'?405 =4.8' ,<' <'.<''41, 5E' 7' 4<' ;1 / .I' <' >77' / ' <7.<'<7'=4.'5'' E,1;.' ?405 / .' < .67' ?'6' ,1J'< 6 .% #;?.<>'<7'5.6'?1,?1 .7& ' >.6' / '4-'6' ; 7,V.<68' =< ,<'<.'?.<7'6 . / ? ; : ;1'>.'1. ' J'1>.1'=, / / .'5.6' .<<. / 6' >.' * ?'71 .8' < .@ 67.<7' .55.6'?'6'6,46'5''6'4-.J'1>.'>4'0 5.'J <.1.4@'>.6'J'1M >.6'<'7 ,<'5.68'>1 J '?'1'5''5, Z' & <' '??5'4> 7%P

' ' 'N' # , / / .<7'-,45.0 -,46%%%%

' 'N' .'>. / '<>.'=4 , '< .<5.<>.' '4;4<'>.' ;.6' / .66 .416'=4 8' ?'1'5.41'> ;5'1'7 ,48'6.'6,<7'.<J' J 6' '<.'?'6'?1.<>1.'?'17%%%%%% & 546 .416' / . / 01.6'>4 ; 7 'J'4; : .' < ?,6. Q'6 5.<; .' '' %K'0.V% +' .' ;97' >1, 7''??5'4> 7%P' ' 8'

' *'N # , / / .<7'-,45.0 -,46'=4.'>' 6'5''?,M 6 7 ,<' , : '<,46'6, / / .68'5.6'?.16,<<.6'7 / >.6'=4'6 .<' 6,<7'55 .6'?'1'?.41%%%% & '6 5 -'0.'4; ,<?'>.' / 41' / 41.6%P' .'>. / '<>.'5''=4.67 ,<' ?1 '5'05.'641'5.'?1,_' Q.7>.'> ;1.7% %

<'E' 7'5.;741.'>.' '17 ;5.'SGG$8

' 'N' .'?.<6.' ,<.' ; .7''17 ;5.' < .67' ?, <78' '> / 66 05.'>'<6'6'' J 1' 5 % ,46''-.0' ' E' 1.'4<.' E,4 .'>.@; .?7 ,776' > 6?.<6'05.68'?4; .'=4 . 5.6'6,<7' Q467.6% & 5'6 5.-.'>.6' / 41 / 41.6%P' <' / .'> 7'=4 5'V'' 4:' '17 ;5.'?,41'5.6' .@; .?7 ,<6I'Q.'>. / '<>.'=4 ,<'1. ' 6.'5.'?1,Q.7'>.'> ;1.7 .<' .<5 .1%

<'5 7'5.'?1,Q.7'>.'> ;1.7% +' ''5.;741.'>.' ; : ';4<.' >.'6.6'> 6?,6 7 ,<6'.67'64 V .'>.' / 41 / 41.6%

' ! 'N' <' / ,V.<' =4' ''5,<J7. / ?6' 0'5'<; ' '-6' >.6' ; , / / 66' 1.6' 7' 7'6 / ?5. / .<7' >.'E' 1.' ?'V.1'7 <.'71 ?5.' / ?,6 7 ,<''4@' / J1'<76'=4 '<.1.7 ' 71.1' .<7'?'6'>'<6'4<'> 5' > 7.1 / < 8

P ' 'I' .'?1. / .1'?1,Q,7'>4' ; , / 7 '?1 6.<5.' >.J1'<>.6'> EE ;4 6'.7'< / .' / . / ?,66 0 5 7 '1. .5.' >'<6'6,<' .@ ;47 ,<% .' / ,4-. / .<7' =4.' 66. / 05..' - .<5'> ?1,4-.1' '5'' 6.; ,<>.'5.;741.'>.' ; .'?1,Q.7'>.' > ;1.7''<<,<; .''66.0'=4 .55.' ''6.<7' ; ,< / .'! '& P' 6 5.-.'>.6' / 41 / 41.6%P' .'64 6'>.' '-6' >.' ; . @'=4' ;1, .<7.<'?1 4; ?.'=4.' ; .54 '4 <.'E' 7' ?'6'6,<'6.1M - ; .'?.16,<<.5'>'<6'4<'7. / ?6'>;' ;1 6.'>, 7'4<'> >, / ' / 'J. / .<7''5''?'71 .8'=4 5'>, 7'c''6, / / .' .<' '1J.<78' >.'6,<'6.1- ; .'?.16,<<.5% G' '

.6' ,? <'<76' =4' ,<7' 6,<7. / '5.'?1,Q.7'>4' ; , / 7 ' ,<7'1. ; , / 4' ; .' ?1 / ; ?.' >,<7'5'' ; <6' =4.=; .' .67' ?I 6'4<'6 =4.671.8' / ' 6'4<.'640-.<7 ,<% #.77.'64:-.<' 7 , 8' ''5'=4.55.'4<.'?'17 .''66.0'; ,<6 >.1'05.'>4'; , / 7.' <.'6 .67'?, <7' ,??06 .8' .67'4<.'> 6?,6 7 ,<' ; ,<E,1< .' '<@'?1 <; ?.68'.7E'; 5.'>'<6' ,<'.@.;47 ,<% '%; , / 7 ' E @.' .'>;5'' ''4<' / , 6I'?1. / 1.'> EE ;4B 'N' 5'V''>.6' / J1'<76' 71, ?' 5, J 6'?,41'?,4-. 1'6.' 1.<>E..<' H1'<; .'>'<6'; .'>.5' % <'.@; .?7.'6.; , <>. / .<7' .6'<

J,; '<76<,7, 1. <.<5 -,V'J.416 N 5 6.'71, -.>.6 A
J,; '<76 =4 6.<7 ,05 J.6 , 55.1 4 1 / ?1,- 67. / 6M
7.1>' / ?,41 5.6 'EE' 1.6 >. 5.41 ; , / / .1;.8 .7 =4 <.
6,<7 ;.?.<>'<7 ?'6 <,7, 1. / .<7 -,V'J.416 / .641.
>4 6;.55> <. ?.47 ?'6 >71. '>,?7..8 ;.5 .67 .- >.<7N
;.?.<>'<7 6'<6 ;.77. / .641. 5 < V < <-.<7' 1. <
6.=4.671. Q. >. / '<>. 5 =4.67 ,< ?1.'5'05. 641 5.
?1,Q.7 >. >.;1.7 =4. 5.6 ;, / 7.6 -,46 ,<7 E' 7 ?1.6.<M
7.1 '4Q,41> :4

D N .>. / '<>. =4 .< ,1>,<<'<7 '4@ > /

J1'<76 >.1.<71.1 >'<6 5.>.5' '> 4< / , 6 56, 7 >.;1..>
=4. ;.4@ =4 >'<6 ;. >>5' <. 6.1,<7 ?'6 1.<71>6 .<
H1'<;. ?' .1,<7 5. 71 ?5. >. 5.<16 / ?,6 7 ,<6 >.
(* 8 66. / 05>. 6. 1.6.1-'<7 >. ?1.<>1. >.6 / .64
1.6 ?546 6>-.1.6 .< ;'6 > <-'6 ,< >4 7.11 7, 1. E1'<
'6 & < '??5'4> 7 P

5. ?1>6 >.<7 6. > 6?,6. / .771. ;.77. ?1,?,6 7 ,<
'4@ -, @

1 N # .67 4<. ?1,?,6 7 ,< <,4-.55. 641
5'=4.55. 5 > 6;466 ,<>, 7 6 ,4-1 18 / ' 6 5 E'47 '-'<7
7,47.6 ;:,6.6 =4. 5 6 J< E ;'7 ,< >4 / ,7 . / J1'<7 6, 7
?'1E' 7. / .<7 >>7.1 / <.. . >>E< 6 4< . / J1'<7
:, / / . =4 71': 7 6 ?'71 . .< =4 77'<76,< ?,67.
>'<6 4< / , / .<7>.;1 6.8 ?,41 '55.1' >.1>.6 ?1.6.<;.
.7 >. 7,<6 6.6 / ,V.<6 5.6 .<<. / 6 >. 7'7 & < '?
?5'4> 7 P <. E, 6 ;.77. >.E< 7 ,< ;,<-.<4.8 ?.16,<<.
<. ?.<7 6 ,??,6.1 '4 6.=4.671 >.6 0 .<6 >.6 . / J1'<76
. >. / '<>. =4. 5 >.5 0.1'7 ,< ?,17. 641 >.4@ ?, <76N
D 5. >>5' =4 6.1 >.7.1 / <.f CD 5. 6>=4.671.

?1,?,6 7 , 1 >. E. [0.55 .67 / 6. '4@ -, @ .7
>>.1>7. .8 6'4E 1.>';7 ,<

66. / 05.. ;:'1J. 6,< ;, / 7. >. 54 ?1>6.<7.1 5.6
/ ,V.<6 > .@>;47 ,<

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! '-.; # '5'1> ' <7 >,< ;:'<7.1 4< 1 >.
G 9 .<64 7. 0'5 Q46=4 ,<0. .41.6 .7 >. / .

0 / 8 0,45.-'1> <7 17 < + <Q,41> 8
J1'<>. 554 / / '7 .7 J1'<> E.4 > '17 E5..8 ;, / ?,6. >. ?.;.6
<,4-.55.68 7.1 / <> ?'1 4< J1'<> ;,4? >. E.4 -.; 014 7 >.
J4.11.N .<64 7. 4<'0,4=4.7 6.?7 :.41. 5.6 .@.11 ;.6 >.
E' / .<@ B.1;45. .7 >. 6 71,4?.8 -.; 5.6 7,47 6 >;'E,1;. >
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V -('EI $ $ * +0(3) (,$*
$,,+*3(-(' #$*+*3(' +,$) (,$* /
, / (* 0$+9(. A $ (,/ B[W 3,).(//T B[WB
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4. * - +$*('-(' + 0$ (/ ('.$(' .,$('
] -3$ (+ 2 4. 0(*+*,+ -(''.$('* * .,$(' K
3,$ * * 0 -(*-(' WE/ PI/ PX/ PE/ FI/ FP/ FP/ FF/F
66. > .6;.,1'?7.)C 8 PI/ PX/ FI/ U 8
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+$,,+*3('-((+ 2 -(' +.$'
4. * -(' * 0( ).(' BHEH/ \'X 4 :[K D K K K
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-('EI $ $ * / - + * BHET
.+*3(*,.(' ($*3(*-$(GIG/HI/ HP/HB/ HI/G
V + 0$(' / / HBI/ WI/ WX/ PI/WX/ WI/ BX/WI/ a =

! b ' ',% 'B '! 5%

:' BTW' F'44'2 '4564' ^' ' 2 *' ' ' 6')

"

E '8) '('Y7 ' +' .6'>.4@' / < 671.6'>.' ./ ' ?.1.41' '4' ;,<J .6' >.' 67,-.' .7'5.' / < 671.'>.' B,5' 5'<>.' 6,<7 1.7,41<.6'>.6' ?1. / .16' "K4; :'1.67% B'?' ' 1' 7' =4.' 5.%;'0 <.7' > 471 ; :.' "71'-' 55 ?547>7'?,41' 71'<6E.1.1' 5.6' ; ,<E.1.<;.6' =4.' ?,41' 5. ' 1, / ?1.% < ;1, 7'=4.' . / ?.1.<1' :'7.1" 6,< 1.7,418' -4' 57'7' >.6' ; :,6.68' =4, =4.'5.6' -.<. / .<76' > EE.1.<7'?.4' >.' ;.' =4 ,<' .<' "?1.Q4J.''-'<7'5.'>.?'17'>. % % % <' .EE.7' >.?4 6' <7.114?7 ,<'>.6' ; ,<E.1.<;.68' =4, =4.'5.6' > 6M ?,6 7 ,<6' 6 '<<,<;.<7'?,41' ,4-.1741.'> 4<.' <,4-.55.' %;' ??'J<.' ; ,<71.'5.6' 41;68' ;.?.<>'<7' ,<' < .<' .'?'6' / , <6'5 .4'> .6?.1.1'=4.'5" ,17.8' / / .'=4'<>'5.6' ; ,6' 7 5 7 6' 6.' ?,4164 -1' .<7'>.'5"?'17'>.6' K466.68' <.'6.1" ?, <7'7,41 / . 7..' .E ;';. / .<7'?'1'5.6' 71,4?.6' '471 ' ;0 .<<.6% $

.'J.<.1'5'>.' 'J>.0,41J' .67' '55.'1.Q, <>1.' '1 / ..' 641' 5" E1,<7 .1.f 5.6' ; , / / '<>'<76'J <.1 '4@' >'<6' 5.6' .7'76': .1.> 5' 1.6' -, 6 <6' ,<7'1.=4' ,1>7',' >.' 7.< 1' 5.41.' '1 J / .<56' ?1 76' " / '1; :.1% <' 1.>,405.' > ';7 - 7 ' " '16.<'5N ,<'6 ,;;4?.''4'; :'<7 .1' " / .571.' .<' 7'5 C ' 0'7 / ;<76' ?,41'5.6' 0.6, <6' .7'5.'6.1- ; .'>.' '1 / ..% < " / 6' 4<' . / 0'1J,' 64 ' 7,46' 5.6' J1,6' 0' 5 / .<76' >4' 'M <40.'f >.Q"?546' >.' ' ,<7' 7.' . / ?5,V 6' "71'<6?,17.1' >.6' 71,4?.6' 64 ' 5" E1,<7 .1.% ,46' 5.6' 1.J / .<76' >.' <,55.'J'1< 6,<' ,<78' ?,41' 5" 6. ; ,<>.'E, 68' 1.;4' ,1>1.' >.'6.'7.< 1'> 6?,6.6' "?'17 1' '4' ?1. / .1'6 J<'5% <5 <'5.' ?1 <; .'>.'#,0,41J8' '06.<7'>.?4 6' =4.5=4.6' 7<, 68' >, 7' 1.?1. >1.'6,< ; , / / '<>. / .<7% '55.416' ,<' .<71.7 .<7' .<;,1.' .<' B,<J1 .' 4<.' '1>.41' >.' J4.11.' ; ,<71.' 5.6' 41;68' =4.' ,<' "6, <'>.'1.?1 6.<7.1' ; , / / .'71, ?'E ;16' >'<6' 5.416' <.J, ; '7 ,<6% <' 6.<7'=4.5'?'17' ,<' ">.Q" 71 '>.' ,?< ,<'>.'5"<'7 ,<' ; ,<J1, 6.'?,41'? ?'1.1' ' '< '<7 66. / .<7'>.6' ; ,<-.<7 ,<6'>.' . ;0. / 0' ; :'?'1' 5.'<,4-.'4'?5.< ?,5.<7' 1.8' % > 67.1 :'6V%

34'<7' "5"; ,<>4 7.' >.6' 41;6' .<-.16' <,468' ,<' ; ,<M Q.;741.' > '?1.6' 5.416' > 6?,6 7 ,<6' .7'5.416' / ,4-. / .<76' =4.'5.'J1'<>' - 6 1'6.' 0,1<.1" "E,1 / .1'4<%; ,1>,<' 6.11 ' -.16' 5" E1,<7 .1.'8' ?,41' 6 V 7.< 1' 641' 5" >.E.<6 -.' ?.<M >'<7'=4 5' 'J 1" '-.;' - J4.41' ; ,<71.'5.6' 466.6%

' ; ,<6. 55.1' >.' K ; ;<8' ; :'1J.'>.' 641-. 55.1' '?' ?1,- 6 ,<<. / .<7'>.6' 71,4?.68' -" ?'17 1' ?,41' 5" E,1M / '7 ,<'>.' / 'J'6 <6>'<6%5" B'47. 471 ; :.%

.6'J'1>.6' / ?.1 '4@' .7'1,V'4@' -,<7'6.'1.<>1.'>'<6' 5"K, ; . / .8'?,41' '66 67.1' '4' ; ,41,<<. / .<7'>.' . / ?.' 1.41' " 1'J4.%

,46' '-,<6' 1. 4' >.6' 5.771.6' >.' 1 .67. 8' ,4' ,<' / '<>.'=4.'>.4@' -' 66;'4@'>.'J4.11.'1466.6' ,<7' '77'=4 8' ?1.6'>.' : ,>.68' 9' ;'1'-.55.6' 741=4.6' -.<'<7'> 5.@'<' >1 .' .7' '55'<7' " #,<67'<7 <,?5.'N 56' .<' ,<7'?1 6' 4< .8' 5.6' '471.6' 6 .7'<7' : .41.46. / .<7'1.7 1 .6' 6,46' 5.' ;'<,<' >.'5"5,17.1.66.'>.' : ,>.6%%%%% .6; '>1.' 14666.' ;1, 6.' ?1.6'>.' ,1 '%

' !

@ ') ' ' '8 ' ' '

' % % % <' 1. ; 7' =4 ' -,46' ?5' 1" >'-'<7'J.'6.1' 6'<6' ,47.' ; .54' >.'<,6' 6.<6'7 ,<6' > EE.1.<7.6' "5" <,4-.55.' >.'5"E4 7.' >4' 1, '>.6' H1'<;' 68' .7' "5" <,4-.55.'>.'6,<' '11.67'7 ,<' 641' 5" E1,<7 .1.% - ' ' 64 6' ?'6' .<; ,1.' <' E,1 / '>. / '< .1.' " -,46' ; .17 E .1'5.6' > 5' 56f / ' 6'5.E' 7' ?1 <; ?'5' ; .67' =4.' <,71.' ; ,7.'>1, 7' " 7 '1'-'>.' -' ' 6 ,<8' .7' =4.' <,71.' ; ,5 ' J'4; :.' .<' " 7 ' ; ,<67.1< % .' -,46' ?'15.'>.'5" ?1.6=<.'7,7'5 7 ' >.'5" 4 66.8' .7' <,<' ?'6' 6.45. / .<5'>.'<, 1.'?.7 7.'?- <; ?'45 %%% 34'<>'5" <,4-.55.'>4' 1, ' 1.?1 6' .67' '11 .8' 5,47' 6 .67' E' 7' "1. ' 0,416% .6' / ;0'<76' ,<7'.4' ,1. 55.'0'66.8' .7'5.'?.4?5.8'

F' ' +' , / 6' - . '

' ?'17,478' " 0 <' 5.' ;7.5' > '-, 1'6'4- ' "5" H1'<; . 0 .<' >.6' / '5: .416' ?.47 71.%%%%%%%%# .?.<>'<7' >.E .6 -,46' >.6' ?. ,541.6' .@'J 1 .6' =4.' ,<' ?,411" %-,46' E' 1.' >.' .<7: ,46 '6 / .' >.6' ?.,?5.6' ?,41' 5" H1'<; .8' 1.6=4.'?'17,47'5.'?.4?5.'< " J4.1.' <546' 5" 5 0.17 '>.' %?.<6.1' =4 .' ; .55.'> 'J 18' .7;%

K ' K ' # 8

A$ '?_- ' +' ' <674<7' >.' 7' . 0.55 ,<' >.5" - 55.' >.' K'671'8' 5.6' / . / 01.6>4' >>?'17. / .<78' =4' E41.<7' ,05 J.6' >.' ?1.<>1.'5" E4 7.' ?,41' 6.' 6,46' 71' 1;' '5" 1'J.'>4' E'<'7 6 / .' .7'>.' '<65, ;1'7 .' ; , / M 0 <.68' 6.' 1.4< 1.<7' ;5'<6' 5" - 55.' >.' #,17.8' > , ' Q56' ; ,41, =4.1.1 7'5.' ; ,<6. 5' J.<.1'5' >4' >.?417. / .47% \<' ; ,<6. 5' 1.7 <' 5.' M/' Q4 <' '11 7" > '0,1>' =4.'5" < 4' < ; ?' 7.'>.' K'67 '8' ; , / ?,6; .' >.' ?1 71.6' >'<6' 6" ?546' J1'<>.'?'17 .8' .7.Q4' '-' 5'>,<<.'5 .4' "5" 1. -,57;' >.' ; .77.' - 5.' '-.4J5..8' 6.1' 7' ?1, - 6, 1. / .<7' 646' ?.<>4.' >.' 6.6' E,<;7 ,<68' .7=4 .'5.6' <. / 01.6' .<' 6. ' 1' .<7'< '<>.6' " #,1E.'?,41' V' 1.<>1.' ; , / ?7.'>.' ?41' ; ,<>4 7.%

'>.5 0.1'.< 7.=4.747'51. ; , / / 66' 1.6'?- 6'>'<6' 6,<'6. '6.'1.<>1' .<7' " 67 "?,41' V 1.7'05 1' ,1>1.' .7' V E' 1.' .@ ;47.1' 7,46' 5.6' >. ;1.76' &5.' 66. / 05..' <'7 ,<'5.'8' <,7' / 7<.<7' ; .4@' ; ,<; .1<'<7'5" ; ,<67 74M 7 ,<' ; - 5.'>4' ;5.1J % ' ; .7 .EE.78' 4<.'?'17 .'>.6' J'1>.6' <'7 ,<'5.6'>.6' ; 'E<?'J<.6' E47' 1.=4 6.%>.'6.' ?,17.1' U K'67 " '-.;'5.6' ; , / , 66'Q1.6' 5,41' V '??4V.18' 6 5' 5.' E'55' 78?'1' 5" ?4 66'<; .' '1 / . ' >.' 5" 5,78' '11 7.' >=' ; ,<6. 5>4>.?'17. / .<7I' .7'5.'J.<.1'5' ',5 'E47' ; :'1J.' >.' / '1; : .1' " 5" 7 7.'>.'5" E,1; .'?405 =4.'?, 1' / ' Q' 5.< 1' ' ; ,<67 747 ,<%

<' 54 66 .1'. -,V.'>.'#,17.'6.'1.<> 5' "K'67 "5.')8' ?,41' <,7 5 .1' " 5" / 4 ; ?45 7.' H'11 7.'>4' ; ,<6. 5' J.M <.1'5'>4'>. ?'17. / .<78' ' Q467'<7' , 5' ; .77.%4,7a ; '7 ,<' 47' % 7.8' 4<.' ?'17 .'>.6' ?1 71.6' = ' ; , / ?,6' .<7' 5" / 4< ; ?'5 7;' .7' ?546 .416' ;5 >.-'<7' <,05.6' 6 . / 0'1' =4. .<7' ?,41' 57'5 .%

.6'=4'71.' ; , / / 66' 1.6' 6.'6,<7' 1.<>46' " K,67 " 7.' CU8' ; ; , / ?'J<. 6' >.' 98 ' J'1>.6' <'7 ,<<4@8' ; , : ' / '<>.6'?'1' =J.<.1'5' ',5 8' .7'5.6'E' ;7 .4@8' " '6?.;5' > 4<.'E,1; .'466' / ?,6'<7.' '< ,<7'?'6',6.'6.' / , 71.1% .6' ; 7,V.<6' 1.-,57. 6' ; ,<71.'5" ; ,<67 747 ,<' ,<7' .7' > 6'1 / .6' .7' 5.416' E46 56' >.?,6.6' " : ,7.5 >. - 55.'.7' >'<6' 1'16.<%'58' '-.;' 4<.' 7 =4.77.'?,17'<7' 5.' <= / '>.' ; : ';4<' > .4@8' <5 <' >.'?,4-, 1'5.6' 1. ; ,<<' 71; 5,16' =4 56' 5.6' 1.?1.<>1,<7' ' 1.6' .<7 .1'1.7'05 66. / .<7'>.' 5,1>1.%

.6' ; , / / 66' 1.6' ,<7'E' 7' '11 7.1'5.6'?1 / ; ?'4@' '<' 7.,16' .7' <67 J% 7.416' >.' 5" 1 0.55 ,<8' ?'1 / ' 5.6= .56' ,<' ; , / ?7.'5.'?.1.' '5-'7,1 8' 64?.1 .41'>.'5" ; ,<J1 ' J'7 ,<' 7 .6' / 66 ,<<' 1.68' 5.'?1,- <; '5'>.6' 1. ; ,55.768' '<; .<' ?1.-,7'>.' ' <7 .'<Q' 5.' ; >.-'<7' ; :'<, <.' 5 / .7'8' .7' '471.6'E' ;7 .4@' =< 8' 6,46' 5.' / '6=4.'>.'5" 1.5 J ,<8' '-' .<7' .14' ?,4-, 1'?'1-.< 1' " 1.<-.16.1'5" ,<67 747 , : % % % %

#.'=4 5' 8' ">.' ; ,<6,5'<7'?,41'5.6' 0,<6' ; 7,V.<6' (,' > : , ,1'05.'?,41' ; .4@' =4' ,<7'> 1 J ' ; .77.' ,?.1'7 ,<' ?'71 ,7 =4.8' ; ;67=4 .55.'< "?'6' E' 7' -.16.1' '6 ;75.' J,477.'>.'6'<J' .7' =7 .55.'< "?'6' 7'71,405 .'?'1' 5.' / , <>1.' >.6,1>1.% " / 457 74>.' ;0<6 > 1.0 .' >.6' J'1>.6' <'7 ,<'4@%>.6' ; ' / ?'J<.6=4' 7' .<7' ; ,4< 6' '4' 6. ; ,416' >.' ,1; 1.' ?405 ; 8'>.'5" #,<67 545 ,<' .7'>.' 5"5, 8' "?1,4- ' '4@' 1.0.55.68' ?'1' '1.6?.;7' .7'<'1' 6,<' 0.5.' ?,41'5.6' >1, 76' >.'5.41' 6 51.7.' <> V >4.55.8% =4 . .'.7' 7' , , / ?.6 .'> : , / / .6' -$9 (" - ,.($).('D

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< 671'7;416'>,<7'5.'Œ.5.',67> J<.'> .5,JW78'<-'Q.<5'?1. ' -.<48?'1'>;6' '11E 7;6?1,- 6, 1.68' 5.6' < .641.6'=4,' 66. / 05..'<'7 ,Q '7.'"?1 6.6'?,41'5"641.7V'?405 = .% .'1.;,4-1. / .<7'>.6';,<71 047 ,<6'>.6' '7 <>.6'?1.;.' >.<7.6' .67'710' '-'<;.8' .7;.54 ' >.6' ;,<71 047 ,<6'>.' (* ' -" 6 ,411 E% .'1.J / .<7' =4 .67'' .8' ;,1' ' <'<>.' ?'1' % :>,>,1.' ' '.7<'8 .7'5" J'1< 6,<'>.' '5 <6'6,<7' '< / 6'>4' < . 55.41' .6?1 78

$,46' '-,<6'?1>?'1>'5.6,E5 ; .16?'1'5.6' ;,<6 >.1'M 7 ,<6'5.6'?546'?4 66'<7.6' " ?1E 7.1' " E;41' ?'71 .5.'6.1' < E 7?1.6;1 7'?'1'5.6'>.;1076>.5 66.< 05>.'<'7 ,<'5.% %8 :.,>,1.' ' / ;7:'5.41'"5.<4' E.' / / .'5'<J'J.I' 5 "?157 '5.'6.1 / .<5''5" 7>7.'>.'6,<';,1?6I' 5' " .7>'66.0' 7.<1.4@' ?,41' '-, 1' >.' <, / 01.4@' / 7'7.416% 0" J'1>.'<'7 ,<'5.8'71E.E' 0 .<' .@.1;>.' .7' > 6; ?5 < .8' .67' .<71.7.<4;' >'<6' 5.6' / . 55.41.6 > 6?,6 7 ,<6' ?'16,<' ;:.E8' '5.68' 5.' / X / .'= ' " ;, / / '<>.'5.6' J'1>.6' <'7 ,<'4@'>4' 41'' "5" E.>.1'7 ,<% ,46' '-,<6'71,4->' 5.6' :'0 7'<76'>.6';' <?'J<.6'>'<6' 5.6' / / .6' > 6?,6 ' 7 ,<6I' 7,46' < '-' .<7' ?'6' > '1< .68' / ' 6' 7,<6' .7' .<7' '1 / >6I' 5.416' / ' <6' < '-' ;<5'E,1J.8' .7'5.41';,41'J.' 5.6' 1.<>' 7' 7.11 05.6N 5.6' E. / / 16' / . / ;6' >.';.6';457 ' -'7.416' 5'0,1 .4@' 6,<7' -.<4.6' ?1,7.67.1'>.'5.41' E >>' 07.I' .55.6' >.6 1' .47' =4.'5.416 ' <P'1 6' '55'66.<7'641'5.6' E1,<7 1.6' 1.?,466.1' .<<. / 8' .1 71.?1.<'<7' >.' 6.' ;:'1J.1'6.45.6' >.'5.416' 5'0.4168' .7' >.' J'1>.1' / / .' 1 17.1 ; 1' >4' ?'V68' .7;%

Y8) ' ,46'5 .5<.771,<6'4@;, / 7. 6> EE>1.<7.6'<,7.6' d1.5'7 -.6''1'> / < 671'7 ,<8' ;,<5.<'<7'5.6' 1;<6. J<.' < . 76' =4.' <,46' '-,<6' 1.;4. 55 6' 641'5" ;,<6;1 ?7 ,<' >.6' J'1>.6' <'7 , '5.68' 6 1' 5.6' / ,V;<6'>';;.5.1.1'5" E,1 / '7 ,<'>.6' '4@ 5 ' 1.6' .7' >?'5" J.<>'1 / .1 .'<'7 , ' <'5;% $

% 7 'N .'>. / '<>.'1 / ?1.66 ,<'>.'5"5.771.' =4 ' - ;<7> >71;54.I.55.?1,4-.5.; - 6 / .' > 4<' ;,1?6' =4 ' 7,47' .<7 .1'6 .671.44 '?,41'5" >.E.<6.'>.'5" #,<6M 7 747 ,<% ,06.1-.' .<64 7.' =4 5' .67' 7. / ?6' >.'1. >1.' 5.'>.;1.7' =4 ' >, 7' / .771.' .4874,4-.7 7.<7'5.6' 0'7' 55,<6' >.6' J'1>.6' <'7 ,<'5?6 ' =4 ' >, -; 7 6.'?,17.1' 41' 5.6' E1,45 : .6% .'>.?'17. <, 7' >4' ,1>' <6 67.'?,41'=4.' ;.'>.;1.7'6, 5' ?1, / ?5. / .7 7' 1.<>45.Z' J'1>.6' <'7 , % <'4@8' ;.4@'>.' '1 6?'17 ; 5 1.< .:78' =4 ': ,<7';.66.' >.'<,46' / <71.1'5.41';,41'J.8' .7'>.8 '5 -1.18' >.?4 6' >.4@' '<68' " 7,<7.6' 5.6' E'7 J4.6' ?,66 05.68' 01>5.<7'>.' -,5.1'641 5.6' E1,<7 . .6% .'>; / '4>.'=4 .<'E @. >?,' = 7' "5'=4.55.'5.6' J'1>.6' <'7 ,<'5.6>;'7,<6'5.6'>. ?'1' 7; / .<56'6.' <.771,<7' .<' / ,4-. / .<71' .7' =4.'>'<6' ..77.' 6. / ' <.' / > / .'5.6' J'1>.6' <'7 ,<'4@'>.' '1 6'1.;, -.<7' <,<'?'6' , >1.8' / ' 6'5" ?.1 / 66 ,<' >.'6.' 1. >1.'641' 5.6' E1, 7 E.1.6% & .6' 71 04<.6' '??5'4> 66.% <7' '-;;'71'<6' ?,17%P' % F

' ; ('N ,06.1-.' .<' EE.7' =4.' =4.5=4.'?.'' > <=4 .74>.' ?,41' 5.' 64;;.6' >.'5" #,<67 747 ,< =4.' >, -.<7' <,46' <6? 1;1' 5.6' / ,4-. / .<76' >.'=4.5=4.6' / 6;1'05.6';,<041>68';.?;<>'45' ;6'5'1 / .6'1>?'<>4.6' >'<6' 5.6' >>?'15. <.<76' E1.45 .1.6' 641' 5.6' <7.<7 ,<6' >.6' ?4 66'<;.6' .<- 1,<<'<7.6' <,46' / .77.<7' >'<65" <>..66 7.' >.G / .771.' 641' ? .>'>.6' E,1;.6' / ?,6'<7.6% .6' J'1>.6' ?'7 ,<'5.6' 6,<7?1>7.6' .7' < '77.<>;<7=4.' ' ,1>1.6% .' >. / '<>.'=4.' ,<' .<-, .'6417?47' 4<' ;,1?6' E,1 / >'05.'>'<6' 5.'>.?'17. / .<7' >.6' K'66.6 V' 1.<..68' ;'1' <,71.'?,5 7 =4.'>, 7' >71.'>.'<,46' / .771.' .4' 4<' ;5' >7'7' >.' >>E.7 6.8' =4.<,<6.45. / .<7' <,46' < 'V,<6' 1 .<' '' ;1' <>1.8' / ' 6' =4.'<,46' ';;.5.1 .46' 5.' / , / .<7' , '<,46' '<4,<;.1,<6' '4@'?4 66'<;.6'>.' 4' 1,?.' =4.55.' .67' <,71.' ;,<67 747 ,<8' .7' =4.56' 6,<7'<,6' / ,V.<6'?,41'5">.E.<>1.% & <' '??5'4> 7%P'

' .6'?1,?,6 7 ,<6'>.' % ?' 55.6.7 '0'476,<5'1.<' ->V..6' '4';, / 7.' / 5 5' 1.8' ?,41.<' >71.'E6 7 .'1'?M ?,17' <;.66' / / .<7% I

1'5.'1'??,17' >; % #' / 468'5.'>.;1.7 6 -'<7.67' 5 a54N

''( ) ((' *+,$ *+ (' -(%(.(,('3('5 $' $,7

! ' &% (-'($''+$.(!-'(,+) "4 +.' #+).$3+,$ *' ' EII' $*$ *"-D+''9*+,"- 3.$,-"Z ' WT' * 0( ).(' BHTI' #(. $' ('3 4#('(,'.(3(*'(*?(*,' -3"+''$9*+," -($$0.(" ' $$+4.$ (' .$(/.($" ' +''$ *+, $%(/(,'5+$' ." -('((,('"$9*+, .(' ' -' .+44 $3+,$ #$- ',$).(' *, $"6 .'-D ,+,-('(.0$3(/'4 ' 5 (5 (' 0$3(' - +44 $3+,Y ' -(' ' '$9*+, .(/ - '*- (. /' -' ,$).(/'+$*'$'5 (-(3(*25*$'(,. 0(.+$(*,'(23(-(. +5 +.' ,,('5 $'+' * 3(''+$.('4 .'# .* .' ('E ≐ $ $ '7' +4.& (' .(3(*'((*,/ (''+''$ +,''5$$$'* *,'4 ''(.0$.'(,', *"3(' ' 5 $'(',. 0($3+$(*,'(23 (.' ('*).('5 $'+'.(4 $' '$ *'-("E I' $ $ *"- +''$9*+,'/'(. *,'). $,"-+*" +' (4 ' -(' +' (+$''(' -('.(2,.+ .-$*+$.(/ (*'4. '(*3(' -("3 $''+$' .(" -(' +-$,('3+$''('(,' - '4) $37' $' '(.+' -.(''('4, 3 '% (.)" -(' -$,"3 *4,(/'3(3(*'((*,'(,'). (* (*,'3 +''$9*+,'/ (,$' '(.+'.(*- '4) $3'4+$ ' +'0 $(' -(' $ 4. ''$ *

' (' ,. ' .$(./-('.(2,.+ .-$+$.('(','+ , .$'(' '.(3(0 ' ' .'('"5 $,,+*3(" (" (.. .+9(" 6 " +*' +*0 (.' -(.*$(' -("3 *,.+,"-('.(*,(" ' .' ,+,/ +$*'$' 5 (' (' 4+$((*,' -(' +3,$ *'/)$ (," -(' ,(. (/ (##(," -(', 4,'9(4.(' 4 *"-$ 3(2'5 .'(' *',. 0('' *" (" '3(" *' ." -(' $*0(*' ,+$.('-(")$(*"- "$4$Q-(0+*,'3 .4"(,'3 *+*, " (3- '$+' ,$5 ('/ ('5 3"4*,'/ H ' '(. *,'- 4-' " (*,.(' '(" +$*" + 2',(. (" - ' -(3.(,'- WI $*' -(.*$(.7 (*,+*,-('-$,(' .(*,('' '(.+'0('(' ' +'3+$''('-(' (2,.+ .-$*4$.(/ (,'$$' (*' # .' 4,('+ '*).('-("(.(3(,,(" -$0(.'('

@ ' (' 4+8(." -(" .(*,('/ -$,(" -(' .6-,()-(!0$ $3/' ' *' + .$'(' +35$$$,,(.' (' .(*,(' + !-(' " -(' BII' $0.('+*' (2$9(./ 5 +*' ' 4.('(*,/ + .(4.('(*,+,$ * -(" +3,(" .(5 $ 4+.' (' - 3.(,'- 'WF $*' -(.*$(.

-' ' .(3(0($$." -D$ 4G,'(,' -(' 3 *,.$) ,$ *' 4+,.$,' 5 ('(. *,',(* " -(' # 0*$. ''+*" #.+$'/ + 2' 3 *,.$) +) (' +*,+*,'-(' - 4 $3+,+' -((." 5 $,,+*3("5 D$ " (*' -(+*-(' . *,/ 4 , % ',$ (.'- '4+$((*,'-(' (."3 *,.$) ,$ *'

' (" ((''$ **+,.(" *' -($ 9+,+$.('/'5 $'('4.('(*,(.+$(*' 4 ., ()(.' (*' 0($%,+' -('3(''$ *' ' -((9+,$ *' 5 $' * + ' .+$(*,' 4+" *(' -+,(' + ,)(*,$5 (' +*,(.$(.(' +*' BF $*' -, ' *$(./'(. *,',(* " -(' ',$# (.' + ,(.' -(' +' 3(''$ *') % -((' 9+ *'(*'0(., ' -(' +5 (('$ "'('4.('(*,(*,/ (,'+,$'#+$.('+ ;' 3 *-$,$ *"(2$9(("4+.' ('-(3.(,'- 'WF $*' -(.*$(./ .(+,$0(' ($.,'+*2'$ 4 $-, *''≐ ' D

' J)%%+,Z * '3$$3 $,8' -$4 +,$5 (' ' 3 $#(' -$4 +,$5 (' 3. $,' -(0 $.'+ ,(./+ 2'. 3$,' 5 $'. " ,'-,(' #+$ " -(' +' -$'4 '$,$ * -(" ('4.$,' -+*/ (' --4+.,(*$3*' -(" %' "+''('! 8.(*-('/ +' (3, $!(' -($ 3,,.('' $0+*,('5 $' +' .(0 ('6$(.' (,'+0+,$,!6$(.

8 ' ' ' ' ' '

*83 ')

& *'04., ' -(" -(3.(," -(''( ) $Y'*+,$ *+ (/ ' -+,(' - 'WB' $*' / .(+,$#" +' ($$ (0((*,' - ' . $/ * *' $*$("- +) .-' +'(2(3 $ *'(($5 $' .- $(+ 23 .4' -$ $*$',.+,$#" -3' .(5 (.$.' +'9+.-(' *+,$ *+ (' (,' (' ,. 4(" -(' $9*('4 ' (4-()(.' +' ' .,$(' - ' . 8+ ' -(' ,.' 6 (/ -(' ' '3 *0 $ - +. (" ' -(' *$' ,$ *' ' ' .+'' .(./ .(2(3 ,$ *' # (' 3(' -(3.(,/ * ' +0 *" -$',.$) - -(" --,+3)((*," ',$.'J+' #. *,$(.(' @$(.' ' 6+)+*(' ' (','4.('(*,(' + ' -$.(3, $.(' 4 ' $3 $$$5 (. *(' (,,.(' - '3+4$,+$*(9-*(.+' -('B +,+ 9 (/5 $' '(' 4 +$*','5 *+$,'(4- (' ('' ' (,' <3 (4$.('3+,6 $5 (' - (*,$(.'(' -(' .,$.'$$).((' -(' .+*3(' 5 $5 (' (" -(#(*'('' #+Y('' 4+.' (' -$.(3' ,$.(' ('' ' $(*,') . (('' +' +' ' ;$(' ('3 $**8+*-+*' 9(*(.+' +'3 ' -(0 $.'4.(*-.((' ((" (' $('' ('*' 0(." (" .+* +$' ' .+ ('$' *(' -(4(*-'4+ ' -('* '' -' '43$$-.(' ' '(' (*,' (2(3 ,$ *'-\' -(3.3$" -' . ''( ) (%(' *+,$ *+ (/ (,'(('$'(',' $ 4 .,+*,' -' 4.(0(*$.' +3,$ *' -(" ,. 4("5 $' +0+*'3($$,'0(." *' ,' --4+.,((*,'/ * '!+0 *"3. ' -(0 $.'0 "(*0 83.$ (,,.('- '3 +*-+*','9-*(.+' -(' +' +,+ 9*('BB(" -+ ,+*','4 "$ 4 .,+*','5 (. ''( ) -("(*0 $' 4. 4,((*,(' .-.('5 ('* '' 3, *''/5 (/* ' (%,+*','$ 4 '$) ('-(.(4 *-.('+' -('$.'- '3 +*-+*' 9(*(.+/ $' (',' + .+$*-.('5 *('4 " 9.+*-(' .\$'! ,+$$3(*(' $,'4 .' $' *' 4.(,(2(' -(',- $ $9*('.' - $*' +*$#(.('6 ',$ (' (3 *,($$,((*,5 $ +#$ $ (3 5,($% ('' * 03$ (" -R'4+9*(' -(0(*+*,' -(' 4 " (' 4

'5'1 / '<7.68 <,46 -,46 ?1 ,<6 >. <,<6 <> =<.1 5.
?546 7>7 ?,66 O5. 5'' 1''1; :. =7 . <,46 >.-, 6 64 -1;%

'* & G & &

$ < - .<7 >. / '6641.1 =4 '4 / .?1 6 >.6 71' 7?6
" ?< ! !9 >. E.1 / .1 5'' 5 J<. >. >& <'1;'7 ,< .5 > <
7.1; .?7.15.6; ,1< <4< ;'7 ,<6.E 7 . 5.6>.<@ 1,V'< / .68
) . / ? ; :'<7 .<51. . E5'' 6,17 . 5 O1.6 >.6 64Q.76 >.
6'' / 'Q.67. #'7: ,5 = .% . -,46 ?1 . >. / . > 1. >.
=4.55. '47,1 7. 6,<7 > / '<.6 >. ?'1. 56 ,1>1.6I .7 Q.
-,46 ?1.- .<6 =4. Q. / . -, 6 >'<6 5'' <. ; .66 7. >.
64 -1. 5. / E / . 6V67 <. .7 >. E' 1. '-'<; .1 >.6 71,4?.6
?,41 ?1. -,< 1 .@. ;45 ,< >.6 ?1,Q.76 =4. ?,411' .<7
; ,<; .-, 1 >.6 J.<6 / '5 <7.<7 ,<<.6%

C) J<. # % Y

1 N .6 ,1>1.6 =4. -,46 >. / '<>6 ; . >
1.;7, 1. >.- .<<.<7 6'<6 ,0Q.7 >.?4 6 5. >.;1.7 ?'1
5.=4.5 -,46 '-.O ?.1 / 6 5'' 6,17 . >4 1,V'4< . '-.;
?'66. ?,17% , ; 4<. '471. 5.771. >4 > 1.;7, 1. >.6
K'66.6 V1. ,>.6 _Q4 ''77. <4. 5.6 '5'1 / .6 =4. 5.6 5.771;6
>4 CZ Q4 < '-' .<7 ?4 E' 1. ; ,<; .-, 1 641 5'' 6 74'7 ,<
>. ; . >.?'17. / .<7%
W % 5. ?1.6 >.<78 5'' 1.5'7 ,< ; Q, <7.8 =4. <,46
'-,B : ,<<.41 >. -,46 '>1.66.18 E.1'' ; ,<<'571.
66. / O5; . <'7 ,<'5. .7'7 >.6 ; : ,6.6 >'<6 ,71.
>.?'17. / .<7% 466 7#7 =4. ,< '' '??1 6 5'' <>4-;55.
> 5 / . 114?7 ,< ?1, ;0' <. >.6 71,4?.6 .71'<J.1.68
=4.5=4.6 : .41.6 ,<7 64E5 '?, 41 ?1.6.<7.1 >.6 1.4< ,<6
<, / O1.46.6>. ; 7,V.<68 5.6 4<6'1 / .6 .7 5.6'471.6
6'<6'1 / .6'' E; 8 / ' 6 7,46 ?1>76'' / ,41 1 ?,41 5'' >.
E.<6. >.5.416E,V.168 .7 1. / ?5 6 >. <> J<'7 ,< =4.
5.41 <6? 1' 7 4< >-><. / .<7 =4 '7.<>' 7 '' 5.6 1. / .771.
>'<6 5.6 E.16% ,46 5.6 ?'17 6 6. 6,<7 1>4< 6 ?,41 ; ,<
; ,41 1 '' 5'' >.E.<6. ; , / / 4<.% ,46 '-,<6 ?1 6 : .1
4< '11 ` > ?,41 5'' E,1E<'7 ,< > 4< ; ,1?6 >. J'1>.6 <'
7 ,<'4@ 6,5>.68 .7 <,46 .7 ,< 641 5. ?, <7 >. E' 1.
?'17 1 4< ; ,411 .1 '' 66. / O5.. <'7 ,<'5. ?,47 54
>. / '<>.1 '47,1 6'7 ,< .75.6 E,<>6 <>..66' 1.6% ,<
>>;1.7>4 C) Q4 <8 ; ,<7.<'<7 5.6 > 6?,6 7 ,<6 =4. <,46
6,55 ; 7 ,<68 <,46 <,<6 6, / / .6 / ?1.66.6 >. 5. / .771.
'' .@.;47 ,<8 <,46 '-,<6 .<-,V> 4<. ; , / / 66 ,< /
5 7' 1. ?,41 ; ,<67'7.1 5.6 .7'76 >. 7,47.6 5.6 ?5' ; .6 >.
J4.11. >. <,71. >>?'17.< .<7% <. >.6 - 55.6 5.6 ?546
/ ?,17' 7.68 >.E.<>4. ?'1 C8 : , / / .6 >. J'1>.6
<'7 ,<'4@8 6 .@. ;'<7 Q,41<.55. / .<7 '4@ .-,547 ,<6
/ 5 7' 1.68 .67 .<7 >1. / .<7 >.?,41-4. >. / 4< 7 ,<6%%
Y >.- .<7 .@51>1'. / .<7 <67'<7 =4. 66. / O5..
<'7 ,<'5. ,1>,<<. '4 / < 671. >. 5'' J4.11. >. / .771.
; .77. ?5' ; . .< >7'7 >. >.E.<6.% 55. ?.<7 '-, 1 4<.
&,45 '<; . .<7 .1. >'<6 5. O.5. .7 5'' - J 5'<; . >.6 '> /
5 651'7.4168 .7 5. >.-,E / .<7 7 .6 ; 7,V.<6 5'' >.E.<6.
>. 5.41 ?'71 .%Y

,

W % 5.F?1.6 >.<78 <,46 '-,<6 .4 : ,<<.41 >. -,46
1.<>1. ; , / ?7. >.6 > 6?,6 7 ,<6 =4. <,46 '-,<6 ?1 6.6
?,41 5'' >.E.<6. >. <, 1. >.?'17. / .<7 ; ,<71. 5.6 .<
<. / 6 .@7.1 .416G8 / ' 6 5 .67 > '471.6 > 6?,6 7 ,<6 =4
>.- .<<.<7 <. ; .66' 1.6 ?,41 5'' 71'<=4 55 7. >. <7.
1 .41% . E'<'7 6 / . '' '554 / . 6.6 7,1; : .6 >'<6 5. > 6M
71 ;7 > 67'1 7ON : 7 ,< <.4E ; >.-'<7 .- =4.6 .7 '1
; : .-E =4.6>7'O5 66415.6E1,<7 E.1.6'-. ;<,71. ; >.-'<7
>->=4. >. K'V,<<. .<71.7 .<<? 174<. ; ,11.6?,<>'<; .
'-.; 5.6 ?1J71.6 / '5 <7.<7 ,<<.6 >. ; . > 671 ;7% 'O
O'V. >.%%%%%% '' <, / / .8 .< -.17 > '<; .<6 ?1 - 5. J.68
'4@ ;41.6 -' ;'<7.6% ?'1' 7 <> 6?.<6'O5. = . 5G 6
6. / O5.. 'O,5 66. ; .6 ?1 - 5. J.6 =4 < .@ J.<7 '4;4<.
<>. / 4 7.% <. 6;1' 7 ?'6 / , <6 / ?,17'<7 =4 .55G E 7
>;1 1. '' 5'' ; ,41 _5. '>1 > ?,41 5'' ?1 .1 >. E' 1G
1.<71.1 >'<6 <7.1 .41 ; .6 . / J1'<76 '4 '71,4O5.<7
-(4+.,((*,'

0<-

$,<6 < '-,<6 =4. ; 7. / ?6 >. -,46 E' 1. ?'17 >4
1'??,17 =4. - .<7 >. <,46 E' 1. 4< : , / / .641=4.
<,46 '- ,<6 .<-,V. 6415'' E1,<7 .1.% .6 71,4?.6 .6
J<,5.6 '-'<; . 7% S '' .7. >.E.<>4 '4@ 6?'J<,56 >.
6,17 1 ' <6 =4 '4@ H1'<; ' 6 > .<71.1% .6 71,4?.6 6.
?,17.<7 641%514<8 ' <7 .O'67 .<8 H,<7'1'O .% ,47
'<<,<; . >.6 ?1,Q.56 : ,67 O 6 =4 : .41;46. / . ,7 5. ; ,4M
1'J. >. <,6 J'1>.6 <'7 ,<'5.6 6' 1'' >.Q,4.18 .7;%Y
66. / O5.. 1.<-, . ; .6 > 5E.1.<7.6 5.771.6 '4 ; ,M
/ 7. / 5 7' 1. .< ; . =4 ; ,<; .< . 5.6 / .641.6 >;E.<
6 - .6 6,55 ; 7. .6 ?'7 5. > 1.;7, 1. >.6 K'66.6 V1. . .68
.7 '4@ ; , / 7.6 >.6 1. ; : .1;O.6 .7 . ; ;5.6 467 =4.8.< ; .
=4 ; ,<; .14. 5'' 6.> 7 ,< >.6 ; >.-'<7 . -.=4.6 .7 '1
; : .-E =4.6 1.4< 6 '4 ? .> >.6 V1.<. .6% $

G 0 F 'O O@ &
F F G)

$

'' 1: ,< .41 > .<-,V.1 '' -,71. .@; .55.<; . 4<.
; ,? . .@';7. >. 5'' >.?>;5 . =4. Q. -Q.<6 >. 1. ; .- , 1 >.
/ '' ; ,418 .7>. 5'' <,7. =4 V .67Q, 7.8 ?,41 =4. -,46
5'' E'66 .O ; ,<<' 1. '' 66. / O5.. <'7 ,<'5.% 55. V
71,<-.1'' 5'' ; ,<E 1 / '7 ,< >.6 / / .6 6.<7 / .<76 =4.
Q ' .4 : ,<<.41 >. -,46 .@?,6.1 >'<6 / '' 5.771. >4
>. ; . 1', 6%
O ,< : .41 >4 1, .7 >. 5'' <'7 ,< E1'<; ' 6.8 6''
71'<=4 55 7. <5. 1 .41; .7 6'' ?1,6?.1 7V8 - , 5'8 %
; , / 7.8 5. 6.45 ,OQ.7 >. 5,47 6 5.6 >. / '1; : .6 > 5 / ;
5E . 7.55.G =4. 6?'J<. 8 =4 .< ?5, .1'' 7,46 5.6
/ ,V.<6 =4 .55. ;1, 1'' ; ,<- ;<'O5.6 ?,41 ' ; ; ,1'?5 1%
'' : ,<<.41 > >71,8 '-. ; . ?546 ?'1E' 7 '77' ; : .
/ .<78 .7;% & 5. ; , / 7. >. 1), O
K,< ?,41 ; ,? . ; ,<E,1 / . '' ,1 J <'5% '1 68 ; .*
4 55.7 (* % & E75 KEP%

< F $ A
F 'O O@ &

'' 1. ;4 ; . / '7 < 5'' 5.771. >4 C Q4 <8 ?'1 5'=4.55.
-,71, .@; .55.<; . / <E,1 / . =4. 5.1, 1 6 #:1.5 ;<.7
5'' E' / 55. 1,V'5. 6. 6,<7 'O6.<7.6 >. '1 6% .1.<>6
; , / ?7. / / V> '7. / .<7 >. ; .7 . -.<. / .<7 '4 1, 8 .7
% % / ,1>, / '' > .@? > .1 '' -,71. .@; .55.<; . ; .
; ,411 .1 '-. ; 5'' >.;5'1'7 ,< ; Q, <7. =4. -,46 >.- .O
1. / .771. '4 J,4-.1<. / .<7% 8
4<. : .41. '?1.6 / > .67 '11 -. 5. ; ,411 .1 =4.
-,46 / '-.O .@?.> > '-. ; >.4@ 5.771.6 >4 CC .7 >4 C 8
?'1 5.6=4.55.6 -,46 / '<<,<; .O =4. 5. 6,4-.1' < '' .7>
'71V7V >'<6 6,< -,V'J.% '??,17' 7 VJ'5. / .<7 ,E
E ; . =4. 66. / O5.. <'7 ,<'5. '-' 5 ,1>, <V '' >.
,<71' ,1 < >. -,46 .<-.V.1%
''1'V <; >. ;5'1'7 ,< ,4 <,7. >, <7Q. - .<6 . -,46
?'15.1 V7' 7 >VQ'' ?1.?'1. .8 .7 5. 1, '' ?.<6. =4.
7.55. =4 . . .5' 78 . .7' 7 5'' / . 55.41. 1.?,46. =4 5
?>7 -,46 6: '1J.1 >. E' 1. '' % ,<7 / ,1 8 ?,41G
=77 5 5'' ; , / / 4< =4>7 '' 66. / O5.. <'7 ,<'5.8 .7 =4.
; .77. '66.< O5.. ?E57 ; ,<<'571. =4.55.6 ,<7 .7; .7=4.55;6
6,<7 5.6 .<7 ,<6 >. % % 1.O 7 - . / .<7 '4@ 'E'1.6
>41,V'4 / . >. H1'<; .8 .7 ?'17 ;45 1. / .<7 >' 6Q.
; '6 ?1.6.<7N ' <6 Q. .1;7 1>. ?, <7 ; .7 .@71' ,1> M
<' 1. .7 Q. 5. 1..@?.> . 641 5. ; : ' / ? '' -,71. .@; .5
5.<; . .< 6,17'<7 >. / ,< 71' -' 5 '-. ; % %
1'<Q4.O8 ; . . Q4 55.7 (* %
& ; , / 7. >. 1) '

''1.71' 5. >. '1 6 .<71.?1 6. ?'1 5. 1, 1E.6 #:1V
7 ;<'-VE;6''E' / 55.%.7 6.6 >.66. '68 =4, =4. J<,1V6.<
; ,1. ?% 1 % % #%8 <.?.4-. 7 '-, 1.4 .7 <. 6'41' .<7
'-, 1 ?,41 ; '46. .7 ?,41 ,OQ.7 =4. 5'' <. ; .66 7V >.6.
>V -1.1 >.6 <6457.6 ?,?45' 1.6 =4. 66. / O5>. ';

7<.55.' .7 5'' 7 / < ; ?'5 ' < ,<5 ?'6 .4 5.'?,4-, 1 > 'Q '
1E 7.1 .7 >.'?4< 18 .7 >.'6.'?1, ;41.1 4<'5 .4 >.'6>1.7 '
, 5 5.'6, .1' < .7 5.6 1.?1E..<7'<76 -1' 6 .7 5.J 7 / .6
>.'5'' <'7 ,< .466.<7?, ,1 5.<16 >.5 0.1'7 ,<6 5''5 0.17.'
>,<7 56,<7 >7.'?1 -.6Q46=4 ' ;.'Q,41I'?1 -'7 ,< >,<7
,< ''>.6 ?1.<-.6 .7 >.6 ?1,7.67'7 ,<6 <;,<7.67'O5.6%

& .67 >'<6 ;.'6.<68 >'<6 ;.54 ' >.' '55 >5.'?546 <M
7 / .'>.'5'' H1'<;.8 >.'?1,;:.' ?'1.<78 > '7< ' >.6,<
1, ' .7 >.'-, 6 <5.'?546 / / .> '7 >.'6,<7.11 7, 1.8 =4.'
% % ?1.<>5.'?546 J1'<> <7>1>7 '' 5'' E>5 ; 7> .7 '' 5''
71'< / 55 7> <7.1 .41.'>.'5'' <'7 ,< E1'<;' 6.8 .7 =4.'
O .<5, < >.'?.<6.1 2 5'' 71,4O5.18 .55.' '' ?1 6 5''1.6,M
547 ,< > .@:,17.1 5.6 H1'<=' 68 .7 .55.'5.6 ;,<Q41.' >.'
1.E5.;: 1 71'<=4 55. / .<7 641 5.'?'17 ' =4.'5.41 6,4-. '
1' < ''>7> E,1;.'>.'?1.<>1.8 .7 >.'1.-.< 1 641 5.6 ?1.M
;.>.6 ,471.6 =4 ' ?.4-.<7V '-, 1 >,<<.';'46.I >.'1.6M
?.;7.1 5'' :'47.' > J< 7.' >.' 6'' ?.16,<<.' 6';1..8 6''
5 0.17..7 6,< / / 4< 7.8 .5 ;.55.'>.'7,<7.' 5'' E' / 55.'
1,V'5.8 .7>.' 6.' ?.164'>.1 =4.'7,47.6 5.6 E, 6 =4.'5''
<'7 ,< E1'<;' 6.'1. / ?5 1'' #.6 >.-, 168 ; , / / .5.1, '
.6?E.1.8 .55.71 4-.1'' >'<6 6 6 ?1,;.>>6 5.6 / . / .6
6.<7 / .<76 > ' / 7 > .7 >.' ;,<;5 '7 ,< =4 5 54' ''
;,<67' / / .<77. / , J<>68 .7 =4 8 6,467,46 5.61'??,1768
.,<-.<<.<7 / .4@ ''6''6 74'7 ,< =4.'7,47.''471.' / .'
6<1.'=4.5;,<=4.%

' 1'<Q4.O8 ;.' D'Q4 55.7 7(* %

K,< ?,41 ;,? .' .,<E,1 / .'2 1,1 J <'5 ' '1 6 ;.' *
Q' 5.55(* % O

546 .416 / . / O1.6 >.'5''?'17 .'J'4;:.'>. / '<>.<7
,1>1.>4 Q,41%

% ; 'N <-,46 '' E' 7 5.;741.' ; 4<.'<,7.' ?'1
5'=<.55.'5.'1, '> 6?'J<.'?,1' 7 / '< E.67.1 > 'O,1>'5.'
>>6 1 >.' - -1.' .< O,<<.' <7.55 J.<;.%& 546 .416 %-, @
>.'5''?'17 .'J'4;:.I ,<6 >,<.' '' ,1>1.'>4 Q,41% '
.'<.'?.<6.'?'6 =4 .8 5,16=4.'5.' / < 671.' .7 5.';, / 7.'
> ?5, / '7 =4.'-,46 E,<7 ?'17 > 4<.'?>..' =4 ' ?'1' 7
<' =4.1 >;6 > 6?,6 7 ,<6 1.5'7 -.6 '' -,6 'EE' 1.68 -,46
>.- .O ?'66.1 '' ,1>1.'>4 Q,41% .>. / '<>.'=4.' 6 '
6. / O5..8 '?1>6 '-, 1 >.;5'1> =4 .55.'<.' -.476.' / >5.1
.< '4;4<.' / '< .1.'>.6 'EE' 1.6 > '4.<<.'<'7 ,<8 >.M
;5'1.' .< / > / .'7. / ?6 =4.'5''<'7 ,< E1'<J' 6.'<.'6,4E '
E1 1'' Q' / ' 6 =4 ,< 6.' / >5.' >.6 6 .<<.6% & '' ?'17 .'
J'4;:.''??5'4> 7%P

% 'N .'?.<6.';, / 1'.' 5.' ?1>,? <'<5 =4.'
<,46 <.'>.-,<6 ?'6 6,4 E1 1' <E54.<;.'>.6 ?4 66'<;.6
.71' J.1.6% .'C 'Q4 <8 5,16=4.'-,46 '-.O >.;1.7.' 5.'
6.1 / .<7 >.6 71,4?.6 8Q ' '?1,?,6.' / , / > / .'>.'Q41.V
>.' / ,41 1 ?547 7 =4.'>.'6,4551 1 =4 '4;4<.'?4 66'<;.'
.71'<J.1.'6.' / . 7 >.'<,6 '5E' 1.6I . .67 5'' / ''?1,E.6M
6 ,<>.'E, %%%%%& < '??5'4> 7 >'<6 5'' ?'17 .'J'4;:.%P
' 6 E'47 5 .< ;;' / , / .<7 E' 1.'4<.'1.?,<6.'>'<6 ;.'
6.<6 '' 5'' <,7.'=4 '- .<7 > .71.'54.Z Q.'<.'5.'?.<6.'?'6%

.'?546 J1'<>6 <7.1576 -,46 '??.55.<7I -,46 '-.O
-,71.'J?4-.1<. / .<7 2 >7'O5 1I -,46 '-.O ''?1,<,<;.7
641 5.'6,17>4 1, '-, 5'' ;.'=4.'5.'6'547 ?4O5 ;' .@ J.%
34'4>'-,46 '41.O ?1 6 4<.8 E, 6 4< ?'17 8 -,46 '< '
<,<;.1.O=4 5 .67 <-'1 'O5.8 =4.'-,71.'>.7.1 / <'7 ,<
.67 <.O1'<5'O5.';, / / .' 5.'1, .O.18 .7 ; .65 '5,16 =4.'
<,46 E.1,<6 ;,<<' 71.' '' 7,47.6 5.6 ?4 66'<;.6 =4.'
<,46 / ,4E1,<6 ?547>7 =4.'>.'6,4EE1 1 5.41 <E54.<;.%
& < '??5'4> 7 '' ?546 .4 ' 1.?1 6.6 >'<6 5'% ?'17 .'
J'4;:.' .7 >'<6 5.6 71 O4<.6 %P

66. / O5>.'1.<-, .''6.6 ;,1, 7>6 > ?5, / '7 =4.' .5
/ 5 7' 1.'5.6? .;.6 >,<7 5 - .<7 >.'54 ' .71.'>,<<.'5.;M
741.'8 >.; >.'=4 5 6.1'' E' 7 / .<7 ,< '4 ?1,;.6 -.1O'5
>.'5''<,7.'>4 1, '> 6?'J<.8 >.6 ,? < ,<6 ' % '< '
>1>'.5 'O'478 .7 ?'66.' '' ,1>1.'>''Q,41%

66. / O5..' >..117.' 5'' 5 =4 >'7 ,< > '< J1'<>
<, / O1.'> ,E>..6%

% .46 .'?1.6.<7.''< ?1,Q.7 6<15 ,1J'< '7 ,< >.6
O,1.'4a >.'5'' ;' 66.' .'1.@71',1> <' 1.8

% #' / 46 . Q ?% >6.<7.'4< 1.5'7 E '< / / .' ,OQ.7%
''( ) (%((* .(*O $((2+ (* + 2 3 $''+$.(''
.- *$'' - ' 3 $,- -(''#$*+*3('/(,- -(+ 3+$''(-(B(21
,.+ .-$*+$.(

% ' 'N .'?1>- .<6 1 666. / O5>.'=<.'
% 5.';, / / '<>'<7 >.'5'' J'1>.'<'7 ,<'5.'?'1 6 .<<.''
>,<<>5' ;,'6 J<.'?,41 =4 '' '-.< 1 ,< <.'?>7 ?, <'
.<71.1 '4@ 4 5.1 .6 '-..>.6 ;'17.6 >.' >. ?47.' & P%
& 546 .416 -, @ >.'5'' ?'17 .'J'4;:.I '<5 / .4''8 ;. ''
.67 O .< E' 7 P

% 'N .'<.' ;1, 6 ?'6 =< 5 6, 5 >.'5''> J< 7.'
>.' 66.1'O5..' >.'1.;.-, 1 > ,1>1.' >.' ?.16,<<.% '
66. / O5. '<.' -.47 ?, <7 =4.'6.Y' / . / O1.6 .<71.<7
>'<6 5.6 4 5.1 .68 .55.'< ''=4 ''5.'>. ,1>7.18 '' 5''O,<<.'
:.41.%

% 'N .64 6 >7,<< %%%& 546 .416 / . / O1.6
>.'5'' ?'17 .'J'4;:.'>. / '<>.<7 ,1>1.'>4 Q,41%P

66. / O5..' >.; >.' =4 .55.' ?'66.1'' ' ,1>1.' >W
Q,41% <.'J1'<>.''J 7'7 ,< 6.' / '< E.67.'>'<6 .@71>'
/ 7> >.'5'' ?'17 .'>1, 7.%

% 1 ' 5 'N 4 8 ,4 8 <,46 <.'6, / 1'.6 ;' =4.'
?,41 5.'1, 8 =4.'?,41 5.' >>E.<>1.I =4'4> 5 .< 6.1''
7. / ?6 <,46 ?'15.1,<6%

% 4) ' 'N '<6 >,47.%%% #.17' <. / .<7%

% ' 'I 66. / O5..' - .<7 >.' ?'66.1 ''
,1>1.'>4 Q,418 -,46 < '-.O ?'6 5''?'1,5.%

% 1 ' 5 ' ') ' ('
;1 .<7I ! ,'5'' ?1.:,<68 ,<6 .418 <,46 -,45,<6 5''
?1.<>1.%

% 'N .'>. / '<>.' =4.' % 'E'V.77.'
6, 5 / '<>.' ''5''O'11.' ?,41 1.4>1.';, / ?7.'>.'6'' ;,<'
>4 7.'.<-.16 5.'1, ' .7 6,< '4J467.'E' / 55.8 .7 >.6 ,4M
71'J.6 =4 5 5' 'E' 7 >?1,4-.1%

% ' ' ' ,46 5 '- D?'6 5''?'1,5.8 ,<M
6 .41% '

% D ' ' .67 <> ;.<7=<.'H,4 / .77.>.6
6.<7 <.55.6 Q46= .'641 5.6 7, 568

' ' ' '3<.';.4@ =4 ' -.45.<7 ';;,1>.1
5''?'1,5.' '' % ,<75,6 .1 6.' <-.<7%

66. / O5..' >.; >.'=4.' % ,<75, .1 < '41'' ?'6
5'' ?'1,5.8

% 'N ''-, 5'' ;.77.5 O.17.S & .;'5 / .'
, '1.7'O5 7%P

% 5 'N .'64 6 .:'1J> ?'1 5.' ; , / 7> >.6 1'?M
?,176 >.' ,46 ?1.6.<7.1 4< ?1,Q.7 =4 5 '' ;14 <> 6M
?.<6'O5.'?,41 1.7'O551 ?'1E' 5. / .<7 5'' ;,<E '<;.' .7 5.'
;'5 / .% .6 .-.<. / .<76 =4 ' - .<<.<7 >.' 6.' ?'66.1
'-' .<7 E' 7 ?1.<>1.' '' =4.5=4.6 >.?'17. / .<76 >.6 ?1.M
;'47 ,<6 .@;.66 -.6I >.6 ;,411 .16 ,<7 7.' '11>7.68 5.6
;,11.6?,?>'<..6 ?'17 ;45 .1.6 6,4 / 6.6 '' ,6?.;7 ,<
>.6 ;,1?6 '> / < 671'7 E6% #.6 ?1.;'47 ,<6 =< 56 '-' .<7
;14.6 <.;.66' 1.6 '' 5''6>1.7.'>.' 7'7 >, -.<7 ;.66.1
.< ;.' / , / .<7% .';, / 7.'>.6 1'??,176 -,46 ?1.6.<7.'
.< ;,<6.=4.<;.' 4< ?1,Q.7 >.'>.;1.7 ;,<;.17.''-..' E.
/ < 671.'>.' <7.1 .41%

66. / O5..' <'7 ,<'5.8 '?1.6 '-, 1 .<7.<>'' 6,<
;, / 7.'>.6 1'??,1768 ;,<6 >.1'<7 =4.' .6 ?1.;'47 ,<6
=4 .55.' '' ,1>,<<..6?,415''6E71.7.'>.' 7'78 ?'1 6,<
>.;1.7 >4 C 'Q4 <'>.1< .1 ,<7 .7.' .@'J 6 .< ?54M
6 .416 5 .4@I =4.'?'1 4< OE.5;' <;,<6 >.1.'>.6 ;,1?6
'> / < 671'7 E6 '>.6 / 4< ; ?'5 7.6 '-' .<7 #14 >.-, 1
6,4 / .771.' '' 5.41 641-. 55'<;.' .7 ''5.<16 1.;:.1;:.6

& P < / , / .<7 # ' % 5.'?1.6 >.<7 ''E' 7 ;.77.''<4,<;.8 5.'
O1< 7 6 .67 1 ?'<><'> '<6 5''6'55.'=4.' % 'E'V.77.''-' 5 >,<<'
;.57;' ;,<6 J<.8 ?'1;.'=<.'>.6 > ?<7 6 ?1.7' .<77.'1';'17.'
>.6 ?. 6,<<;6 6'<6 >,'7.'6,6?.;7.68 .7 1'. / .'=<.'=<.5=<.6
/ . / O1.6 >.' 66; / O5..'5 ' .K7 1.67>6 >'<6 5.' '1> < >.6 ''
5.1 .6 '66.O7'1>'?,41 <=< >7.1 5''J'1>.'<'7 ,<'5.%

8B%

C

5'' ; ,11.6?,<>'<;.' >.6'?'17 ;< .16I' E54.' 1'11.67'7 ,4' =4 ' '' J 'E' 7.8' .<' ?546 . 16' - 55.68' '.6' ; ,411 .16'>.6' / '55.68'5.6'>.? 76'E,1; .6'>.'5.<16'?'=4.76' .<' > '471.6' 5 .<@' =4 '4@' 041. '4@' '4@=4.56' 56' >>' .<7' >.67 <.6I' 5.6' ?.1=4 6 7 ,<6' E' 7.6' ; : .0'5.6'> 1.;7.4E6'>.6' ?,67.68' 5'' - .1 E ;'7 ,<'>.65.771.6.7'6416 6' ,1>,<<; 6' '' 5.41'> 6M 71 047 ,<8' <.' ?.4-.<7' =4 <7.11, / ?1.' 5.6' 1.5'7 ,<6' ; , / / .1; '5.6I' ; ,<6 >>1'<7'=4.;.6' / ,V.<6 ;'?.4-.<7' >71.'7, 1.6'> '?1.6'5.6' / .641.6'=4 ' , ,7>7>'?1 6.6'?,41' 5'' 6E51.7>'>.' . / ? 1.' I

>;1.7.' =4 5' .67' .<Q, <7' '4@' ; ,1?6' '> / < 651'5 E6' >.' 641- . 55.1'1.@>;47 ,<' >4' >>;1.7'>4' ' ', 7' (* 8' ; ,<; .1<'<7' 5.'6.;1.7' .7' <- ,5'0 5 7.' >.6' 5.771.68' .7' >.' 6.' ; ,<E,1 / .1'7 4@' > 6?,6 7 ,<6'>.' '17%' '' >4' 7 71.' >.6' '771 047 ,<6' E' 6'<7' ?'17 .' >4' >>;1.7 >4' C9' >4' / / .' / , 6'> ' ,E578'=4 ' >.E.<>' '4@' ; ,1?6' '> / < 671' ' 7 E6' .7' '4@' 71 04<'4@' > ,1>,4<.1' '4;4<' ;0'<J. / .<7' >'<6'5.'6.1- ; .'>.6'?,67.6%

#.'>>;1.7'.67' '>,?7.%

%5.'?1.6 >.<7' ?1>- .<7' 5'' >.?47'7 ,<'=4 ' >, 7' '6 ' 6 67.1' ' 5'' 71'<65'7 ,<' >4' ; ,1?6' >.' ,57' 1.' =4.' 5'' .>1. / ,< .' ; , / / .<; .1'' '' :4 7' : .41.6%

'' 6>'<;.' .67'5.- . .' '' 71, 6' : .41.6%

, ' ' ' ' ' , ' ' ' G ' ' 8 ' ' ' 1 ' ' ' !! ' ' ' ' ' ' '

'' H1'<;.' .67' 5 01.I' 5.' ; 7,V.<' <.' E,< .' ? <6' 4<.' 7.11.' ,??1 / >.' ?'1' 5.' >.6?,7 6 / .% <' ; ,<=4>1'<7' 6'' 5 0.17V8' 5' ''Q41>>.' 5'' / ' <7.< 1% .4E 5' >71.' E >.5.' '' 6,<'6.1 / .<78' 6 5' >;6,0. 7' '4@' 5, 6' <>; .66' 1,6' '' 6,<' 0,<: .418' .7 6'<6' ;6=<.55.6' 5' < .@ 67.' <' J,4-.1<. ' / .<78' <' 6, ; .7.8' <' E,1; .8' <' 6>1.7.8' <' ?1,?1 .7>Z

.55.' 6.1' 7' .<' .EE.7' 5'' / '5: .41.46.' 6 74'7 ,<' >.' H. / ? 1.8' 6' 5.'?.4?5.'E1'<J' 6' 6.' > 66 / 45'<7' 5.6' ; ,<' 6>=4.<; .6' >.6'671.<6;6' >.' '<'1; : .' ; ,41' 7' '4 >. ' '<7' >.' .6;5'-'J.8' .5' 6.' E,1J; ' 7' >.'<,4-.'<@' E.16' .<' 6.'1.E46 / 7' '' ?'V.18' > 4<'6';1 E ; .' >J 7 / .8' <.6 ' 7 < '05;' ' -'<7'J.' >.' 1.J5.1' 54 / > / .' 6'' >.67 <. .I' .7' 6 8' ?'1' ,405' >.' 6.6' >.- , 16' 8,4' ?'1' J<,1'<; .' >.6' ?1 <; ?.6' ; ,<67 747 E6' >,8' 6,<' 0,<: .418' Y' ?1>E>1' 7' 5'' ; ,<> 7 ,<' .EE1'V'<7.' >.' 5 -1.1' 6'' E,174<.8' 6,<' ; , / M / .1; .'8' 6,<' <>4671 .' '' 5'' 1'?' ;17.' >4' E 6;8' ' '-'<' 5'J;' <'??1.; '05.'> .<' ; ,<6' ;1.1' 5 01. / .<7' <<.'0 =<' / , <>1.'?'17 .' '4@' 0.6, <6' <> 6?.<6'05.6' > 4<.' '>M / < 671'7 ,<'Q467.8' >J'5.' .7' ?'7.1<.55.%

-. / .<7' '5'1 / . .'>.6' 64 7.6' > <<' ?'1. 5' >>6,1>1.8' ; .67' >'<6' 5.'6. <' >.6' 6, ; .7.6' =4 '54 ' 6,<7' ?E 5 . .6' =4.' 5'' , ; .7.'>.6' / 6' >.'5'' #,<67 747 ,<'>.' '1 68' 6?'<7.' '4@' ' ; ,0 <68' >.?,6.' 6.6' E1'7.1<.55,6' <=4 .74>.6% 55.' ; , / ?7.'641' 5.41' 0.5.8' 641' 5. 1' '77' ; : . <.<7' '4'' >.- , 16' 4- ,5'0 .6' >.' ; 7,V.<6' 5 01.68' ,0> 66'<76' .7' -.174.4@I' .55E.' .67' ?.164'>. .' =4 .55.6' 6 . / ?1.66.1,<7' >.'71'<6 / .571.' '' 7,<6' 5.416' ; ,<; 7,V.<6' 5.6' 1.E5.@ ,<6' >,<7'<,46' 5.41' E' 6,<6' ?'178' .7=4 .55.6' 5.6'> 6?,6.1=<7' '' 5.6' 1.J'1>.1' ; , / / .'>.6' 1.J .6' / / 4'05.6'>.'Q467 ; .' .7' >.'1' 6,<%

.'?1,>4 5' >.6' ; ,<71 047 ,<6' .67' 5.'6'<J' =4 ' - - E .' 5.6' . / ? 1.6% <' J,4-;1<. / .<7' 6'J.' <.' 5.' ?1,> J4.' ?, <7I' 4<.'<'7 ,<' ?1<>.<7.' .7' . ;5' 1. .'5.'E' 7' ; 1;45.1' & '<6' 5'' Q467.' ?1,?,17 ,<' <. ; .66' 1.' '' 6,<' .@ 67.<; .% <> - >7' =4 ' 'R041< 7' '??,17.' '-; ;' Q, .'6,<' ; ,<M 7 <J.<78' ?,41' Q,4 1' '' 6,<' 7,41' ;7' ?,41' 6'' ?'17' >.6' 0 .<E' 76' =4 ' .<' 6,<7' 5.' ?1 @%

4;5' 6.1' 7' 1'-.4J5. / .<7' > 5 / ' J1'<>' ?;4?5.' ' 6' ' -, 1' 5;6'1 / ;I' 5.6' 7V1'<68' >;'17;'5.? 4 , 1''1

64?.167 7 , 8' 1>?1 / >' 5.6' - ' / ? 1.6' >.' 5'' E<'<;' =4 8' '?1.6' ' - , 1' >&\ / ,5' 4<' >> E ; .' 0'10'1.8' ;1, 1I' < ' - , 1' ?546' <.<' '' E' 1.'=4.' >.'>. / .41.1' , 6 E641' ' >. ; , / 01.68' .@?,6.' '' 7,47.5 <7. / ?.1 .' >.6' E1 < '6' >.6' ,1'J.68' .7' =4 ' 1. / ;771< 7' '4@' ; '?1 ; .6' >4' : '6'' 5.'6, 55' >.6'' ?1, ?1.' ; ,<6.1-'7 ,<8' ?547 7=4.' >.' ; : .' ; : .1' '' 1.% / ,<7.1' 1>> E ; .'641' >.6' 0'6.6' 6,5 >.6' .7 <' 01' 5'05.6I' ?547,7' =4.' >.' - . 55.1' <4 7' ;7' Q,41' '' 6 1.7.' .7' >.' ; , , ?.1.1' >.' 7,46' 6.6' / ,V.<6' '' 6,<' & 71.7 .<S' #.' ?. ,?5.' '046.8' 6'<6' E,1; .8' 6'<6' >.E.<6' 6.1' 7' 0 .<7,7' 5''?1, .' >4' ?1. / .1' '4>' ; .4@' =4 ' - ,' >1' 7' 54 ' >,<<.1' >.6' ; : ' <.6% ' - .11' 7' 6'' 5 0.17. >' ?'1' 71.' .7' 6,<' <, / 8' / .?1 6. 8' 6.' ?.1>1.' ' - . ; . .5' >.' ; .6' <'7 ,<6' '0Q.;7.6' =4.'5.'>.6?,7 6 / .' 'EE' 66.' >'' 1'0147 66. / .<78' 5.'>; 6: ,<<.41' .7' J<,1'<; .%

'' ?546' 0 .55.8' 54' ?546' >7,<<'<7.8' 5'' ?546' 6' 5' 1>-, 7' &I<' <,46' '' 1.<>4' <,6' >1, 76' > : , / / .6' .7' ; 7,V.<6% ,46' 5.6' ?.1>,<6' 6'<6' 1.7,418' 6 ' <,46' <' ; ,<<' 66,<6' <,6' >.- , 16% '' 5 0.1 .' < .65%?'6' 5.' >1' >.'7,47' E' 1.8' / ' 6' ; .54 ' >.' E' 1.'7,47' ; .' =4 ' < .67' Q' <4 6 05.' '' 5 ,6' 6. / 05'05.6%

<.'>.77.' / / .<6.'>;1'6' 7' 7'7I' . .7' 7 H,4-1'' >.<,6' 7V1'46% #.?.<>'<7' 4<.'<'7 ,<' - .154 .46.< 'Q' ?4' 6.'?.1 / .771.' >.' - ,5.1' 5.416' .<J'J.< .4568' <,46' ' ;=4 77.1,<6% <.' / '66.'. ,1 / .'>.'?,66.66 ,<6' ' ;' 7<45 .6' ?'1' <,6' ;1.>45.6' ' .4@' '47,41' >.6' '47; 6I' & E,<>6' >, <'< '4@' > 4<.' : '47.' -'5.41' ; , / 05.1,<7' ' '0 / .% ;=4 6;6' .7' > - 6. .6' .<71.' <,468' ; .6' 1 ; : .6' 7.11 7,1 '5.6' - ,47' 0 .<7 7' '4J <.<7.1' 5.'?1,> 7' >.' 1' E,174<.6' .7' 5.'1.6< 7' 7' >.' <,71.' <>4671 ;I' / ' 6' ; .?.' >'<7' 7,46' ; .6' ' - '<7'J.6' <,46' ; ; : '??.1,<7' 6' <,46' ' E46,<6' ,<' 6 ' <,46' > R .1,<6' / >< .' > ' ;=4 77.1' 5''>.' 6' ;1. .'=4.'7,47' ; 7,V.<' .67' ,05 J.' >.' ?'V.1' ?,41' 6,47 .<' .7' 5'' ?1,6?.1 7.' >.' 5'' ; : ,6.'?405 =4.%

,411' 7 ,<'6 '046.1'Q46=4 '' ;1, 1.' =4 4<'J,4-E' <. / .<78' =4.5' =4 5' EE 78' 6.' 6,47 .<>1' 7' 6'<6' =4.'7,' 5.6' / . <01.6'>.07' E' / 55. ; ,<71 04'66.<7' > 4<.'?,17S' >.'5.41' ?1,?1 .7V' '' 6,<' .@ 67.<; .Z' 7' H / ?,7.67' '471.' ; : ,6.'=4.' 5.'6' ;1 E ; .'> 4<.'?'17 .' >.' ; .77;' ?1' ?1 .7>' ?,41' 5'' >>E.<6.'>,'H'471.Z

.<6.1' 7 ,<'=4 .<'>.714 6'<7' >.6' 2P1 - 5.J;6' ,> ;' .7' ,??1.66 E6I' =4 .<' 67 ??1 / '<7' 5'' J'0;55;8' 5.6' '>' =4 .<' <,46' ' E1'<; : 66'<7' >.6' &B <.68' >.'5'' ; ,1- . 8' & / 5 ; .68' >.'5'' ; : '66.8' >.6' 01 J'<>'J.6' >.' 5'' ?1, ; .>4 ' .7' >.'7,46' 5.6' 71 0476' / ,<6514.7 @'=4.'5.'5 6;' .7' 5''E., ' 5 7& 8' >' ; ; ,1>' .<71.' . @8' '-' .<7' / ? 7,V'05. / .<7' <' 7 ?5 .68' H 66.< 05_S.' <'7 ,<'5.'?,411' 78' >'<6' 5.' / >' <67'<78' <,46' 6, 5'J.1' >4' ?, >6' '06,54' >.'7,47.6' '451.6; ,<71 047 ,<6Z' ' =4.5=4 <' '>,?7' 7' 4<' 7.5& ?, 18' ; .'6.1' 7' >.'7,47.6' 5.6' .11.416' 5'' ?546' '0641>.%

' 6' >.6' ; 7,V.<6' ?'51 ,7.6' <.' ; ,<=, - ;<7' ?'6' ; .' .11.41% ' .55.'5.41' .67' 64JJ.1. .I' 6 ' .55.' 6 <7' ,>4 6' ?'1 / '5.' ?;4?5.8' ; .'6.1' '7' '4Q,41> : 4' .'E14 7' >4' ' <#J.' .7' >.' '674; .' >.'6.6' ?546' J1'<>6' .<<. ' 6%

#.6'1 ; : .6' =4.' H < ?,7' <.'E' 6' 5' =4.' ;'1;66.18' & ?1 - 5.J >6' =4 ' 54 ' >; : '??' .<78' .7' =4' 4<.' ; ,<67 745' Q467.' .7' 6'J.E,1; .'4Q,414 : 4 ' >.' ; ,471 04.18' >'<6' 4' ?1,?,17 ,<' .J'5.8' '4@' ; : '1J.6' >.' H 7'78' 6 .EE,1; ' > ' - .4J5.1' 5.'?.4?5.8' .<'54 ' <6 <4'<7' =4.' 5.6' <,4-' 5`6' ; ,<71 047 ,<68' <5 < / .<7' 6 / ?5.6' ?'1' 5.41' '66 ;7' < < / .<7' E' ; 5.6' '' ' ;=< 57.1' ?'1' 5.41' <'741.8' 6;' >'<6' 4<.' ?1,?,17 ,<' 64?.1 .41.' '' ; .55;' = 5' ?'V' '471.E, 6% #.' / .<6,<J.' J1,66 .1'6.'>. 714 7' ?'1' 5.'E' ??1.<.0' '' ; .'0,<' ?.4?5.' =4 ,<' . J'1.'8' Q46=4 , 6' 7.<>' 7' H' 541.'7,17 .46.'>.' ; .6' / ?476' <> 1. ;768' ; ?,77' .<7' '' > @' 0 6' '4' >.5'' >.' 5.41' -'5.41' 5.6' >. / 64.55.6' =4.'6.6' 0.6, <6' 54 ' ?1.6;1 - ' .<7; : '=4.Q, ' =4 5' 6' ; : .'=4.'H'17' >4' E <'<; .1' .67' >.'>.J4 6.18' 6, 7,47.6' 5.6' E,1 / .6' 5.6' ?546' 6?. . .46.68' 6,<'674; . , ' 1'?' ; 5>%

,6' <7.17>'<568' <,6' 640>.5.J4.68' 7,47.6' <,6' 6'<' 64.6' E 6.'5.6' .7' / < 67.1 .55.68' <,46' >,<<' .<5 56'

'41 ,<6' -4'5.'1 ; .8' :_P<Q/ .'9<' ?5' ; .8' 5.'01 J'<>'5 M 71.'8' <Q467. / .<7' >. ; :'1J>6' >4' E'1>.'4' =4 ,<' 71'<6' ?,17' 5'641'<,6'7E.5.6Z ,<N5.6' ; 7,V.< < .7' .<7'?, <7' '> / 6' " ; .6' / V6701.6'> < =4 7>% :'0 .<5' '4Q,41> :4 8' 56' ,<7' >1, 7' >.' ; , / ?7.1' '-.;' '> / < 671'7.41I'5" ?4G O5 ; 7.' .67'5" 6'4-.J'1>.'>.'5.416' >1, 76I' 5' <.'?.'7'5.6' 71, / ?.1% ,47;6' 5.6' ?1,?,17 ,<6'8 .<71.'5.41' E,174<.' .7' / ? 78' 6.<7' 7;5'5.< .<7' >7'O5 .68' =4 5' <.'1.67.' '4' ;44'6W4? <' >.'?1.E.1.<;.' ,4'> <Q467 ;.%

K .<' ?546' N 56'<.' >, -.<7' ?'6' ;1' <>1.' =4 ,<'>>' 7,41<.'>.'5.41' > 1.;7 ,<'<'741.55.' ;.6' 14 66.'4@'E>' ;,<>6' >.67 <.6' " E.17 5 6.1' 7'7% .' E14 7' >.'5.416' 64.416' < 1" ?546' 6.' ?.1>1.' .<' > 5'? >'7 ,<6' : ,<7.4' 6.68' .<' 6;'<>'5.46.6' ?1,E46 ,<6I' 5' < '5 / .<7.1" ?546' ;54@.' >.' ; .6' J1'<>6' =4 '6.'6.1-' .<7' >.' < 6' 71 0476' ?,41' <,46' E,45.1' '-.;' .<;,1.' ?546' > '4>' ;.% 5' 6. " 7,47 .<7 .1' . / ?5,V>' " <,6' 0.6, / 6' ; , / / 4<68' " ; .4@' >.'7,47.'5" <'7 ,<%' 34.'5" <'7 ,<' ,0. 66.' >,<.' '4@' 5, 6I' =4 .55.' ' ;=4 77.' '-.;' ;,41'J.'5">.77.' ; , / / 4<.I' =4.' >;6' ?'71 ,7.6' <.'>,<<.<7' ?' ' " 5.416' .<<. / 6' 5.' E4<.67.' '-'<7'J.'>.'71' / .1' '-.;' '6641'<;.'5.416' <E ' / .6' ; , / ?5,768' .<' ?1 -'<7' >4' <.1E' 5.' ?546' <>..66' 1.' 5.416' ' / 6' .7' 5.416' >.E.<6.416%

<' 7. / ?6' - .<>1'8' .7' ; .'7. / ?6' < .67' ?'6' 5, <8' 4<.' J><>1'7 ,<'>, 7' ' ; ; , / ?5 1I' 4<'7. / ?6' - .<>1'8' > 6,<6' <,468' , 5' ;.77.' >.77.' ><,1 / .'>,<7' 5.6' '11>1'J.6' <.' ;.66 7.<7' >.'<, 1.' ?'17' >.' J1'<>6' 6' ;1 E ;.6' >, 7' 6 .' 7. <>16% #.6' ?.<6 ,<6' '046 -.68' '10 71' 1. / .<7' > 671 ' 04. .68' .7' =4.' 5" ?14>.<;.' ; , / / 6>1'7 -.' >.' <,6' >J 65'7.416' "0 .<' -,454' <.'?'6' .<7 .1. / .<7' 64??1Q' < .1I' ; .6' 6'5' 1.68' ; .6' 1;71' 7.6' ' ; ; ,1>.6' " 4<.' E,45.' >.' / < 671.6' >4' ;457.8' " > '<; .:6' E,<;7 ,<<' 1.6' 6'<6' , ; ;4?'7 ,<6' 8' >.<<>6>.' 1.66,41; .8' .7>=4 5' E'55' 7' 0 .<' .1 5 <' 5' 66.1' ; ,<6, / / .1' .<' ?' @'5.41'>'<J.1.46.' <47 7 7.86,<7 4<.' ; :'1J.' / , / .<7'<..8' / ' 6' <> 6?.<M 6'O5.8' " 5'=4.55.' ?.16,<<.'<.'?.47' 6.'1.E46.18' .7' =4 5' <,46' / ?,17.' > ' ;=4 77.1' '-.;' > ' 7'<7' ?546' >.' @.7.' =4.8' 5" - ,V'<7' .<' ?.16?.;7 -.' 6.'> / <4.1' ?1,J1.66 ' -. / .<78' <,46' <.'?,4-,<6' >,47.1' =4 4<.' ; ,417.'1. ' -,5 7 ,<' > '<<..6' < '??,17.' 4<' 71.6' J1'<>' 6,45'J. ' / .<7' '4' E'1>.'4' =4 ' <,46' J1.-.' '4Q,41> :4 %'

<' 4<' / ,78' ' / 6' >.'5" ; ,<67 747 ,<' E1'< ' 6.8' .<J' # O' ; .4@' >.' -,6' ; ,<; 7,V.<6' " =4 ' 5' 1.67.1' 7' =4.5=4.6' 47.6' ' 6,4 / .771.' " 4<' ; '5;45' 6>-.1.' 5.'>,405.'7'M O5.'4' >;6' '<; .<6' / ?>56' .7' >.6' ; ,<71 047 ,<6' < 4-.5' 5.6' N O .<7>7' 56' 6.' E.5 ; 5.1, 7' >.' -, 1' =4 .8' >'<6' ; .7' <67'<7' / > / 8' . .67 ' > 1.'>'<6' 5" ;1 6.' 6' > EE ; 5.'>4' ?'66'J.' > 4<' .7'7' ?1,E,<>. / .<7' - ; .4@' " 4<.'6 74'M 7 ,<' 1>J45 .1.' .7' ?'1E' 7. / .<7' ?J'5.8' <,46' '-,<6' >.Q" ' ;=4 6' 4<5 .16>.0><. E ; .%34 6Q4J.<7>,<;'>.6' '-'<' 7'J.6' =4.'5.'7. / ?6' <,< '>,<<.1'%

#;' ; '5;45' <.'E1'??.1" ?.47 971.' ?'6' > '0,1>'7,46'5.6' .6?1 768' ?'1; .' =4 56' <.'E.1,<7' ?'68' 6'<6' =4.5=4.'71'M -' 58' '-.;' 4<.' ?1.; 6 ,<' < '7:. / '7 =4.8' 5.' 1'??1,M ; : . / .<7' >.'7,46' 5.6' .EE.76' >.' / ? 7' <> 1.;7' =4 '6.' J5Q6] '<7?'17,478'77'=4'<786'<6' 6.'5' 66.1' '?.1; .1, 18' 7,47.6' <,6' Q,4 66'<; .6' .7' 5.6' ,OQ.76' >.'?1. / .1.'E5.; .6' 6' 7.8' .7' <.'5.6' .<7' / '<7' =4.'?'1'?.7 7.6' ?'1; .55.68' ?1, ' >4 6' 7' 4<' .EE.7' <6.<6 O5.8' .7' <.'E,1 / ' 7' ?'6' / , <6' 4<.' / '66.'71.6F; ,<6 >.1'O5.'> 4<' 1 047'14 <.4@8' -.@' ' 7, 1.8' .EE1'V'<7' > ' 5 .416' ?'1' 7,46' 5.6' ' ; ; .66, 1.6' >.' ; ,<71' <7.8' >.' - 6 5.6' >, / ; 5 ' 1.68' >' <=4 6 7 ,<6E ' ; '5.6' '4@= .55.6' 5' >,<<' 7' 5 .4%

,4 ' ; .6' E5.'4@' ,<7' > 6?'14' I' 5" H1'<; .' . 7 4<' -'67.' / '1;0.' ,4' 5.' ; 7,V.<' E 01.' ?.<7' 71'<6?,17.1' .<' E1'<M ; : 6.'7,47.6' 5.6' ?1,>4;7 ,<6' >4' 6,5' .7' >. 5 <>4671 ' 6'<6' .71.' 7,41 / .<7>= '1' ; .5' 6,4? ,<<#4" >4' 71' ' 7'<78' '1197.' ?'1'>.6' 0'11 E.1.68' J1.-.'>.'?; 'J.6% <7.1' 1, / ?48' 1.7'1> ' >'<6' .@?.> 7 ,<' >.] ' 'EE' 1.6' ?'1' 5.6' 'J.<76' >.'5" >?4'<.%

34.'7,46'5.6' H1'<; ' 6' #, :<' 66.<7>,<.' '66.O' 5.'?1 @' >.'7'<7' >.'O .<E' 76' ?, 1<.'?'6' .<' 5' 66.1 ; : '??.1'5" ?,66.66 ,<%

.; ,4-1.0 5.41' 5.6' / ' ;0 / '5 ,46' '66 >'.6' >.' <,6' .<<. / 6I' =4 ,<' <.'5.41' >,<<.' ?'6' 5" ;14.55.' .6? %' 1'<..'> '554 / .15" J4.11.' ; - 5.'=4 56' >.6 1.<78' >.'5" =4.55.' ;E.?.<>'<7' 56' <.'?1,5 7.1' .<7' ?'68' ?'1; .'=4.'5.6' 7V1'<6' .4@ / > / .6' 5.41' .<' '11' ; : .1' .<7' 5.6' E14 76%

" E,1; .' ?4O5 =4.' .67' >'<6' 5.6' / ' <6' >4' ?.4?5.N > Q" 5" ; '5, / < .'6.'?5' 7' " 17?'<>1.'=4.88' >'<6' =4.5 P.6' ; ' / ?'J<.68' >.6' ; 7,V.<6' ,<7' '66.O' / >; ,<<4' 5.41' .-, 1' ?,41' 6 951.' ?1.1'546' >.' <:'0 7 .7' >.6' '1 / .6' >.' Q" J'1>.'<'7 ,<'5;8'5 <> ,??,6.1' 4<.'1.6 67'<; .' ?546' / ?,6'<7.' " 5" >.0 ,?>.' >.6' ; ,55.;7.416N' " .4' <.' ?5' 6.=4.'>.6' ' / 6>.'5" #,<67 747 ,<'>,?7.<7; .'O5'6M ?: . / .' ' 8 %

/ 7.0 <,<6% 4;4<' ; 7,V." <.'?.45'6 '66., 1' " < 6' ;E57;6' =4 5' < ' 7' E' 7' ?1. 1-.>.-'7 " , ; .7V>.' ' ; ' =4 77. / .<7' >.'6.6' / ?,6 7 ,<6% .1. ; , '<' 66.O' >. / ' / .' ?,41' / .1'O1.68' ?,41' ; 7,V.<68' .7' < '> / .77.0 ' ; .6' 1.6?.;7'O5.6' E,<;7 ,<6' =4.' ; .4@' =41'1,46' '7 1,<7'>,<<.' 5.6' / / .67. / , J4'J.6' >.'5.41' ,0. 66'<; .'Y 5" 5, %

.56' 6 ,<78' .66 .4168' 5.6' ; ,<6. 56' .7' 5.6' .@. / ?5.6' J4.'5.6' / 6' >.'5" #,<67 747 ,<' ;1, .<7' >.- , 1' >,<<.1' '5.416' E1.1.6% 56' -,4>1' .<7' 5.6' >,<<.1' '4' / ,<>.'. ' 7 .18' -, 1' 1.J<.1' ?'17,47' ,1>1.8' 5" ?' " 8' 5" Q467 ; .' .7' 5.'0,<:.41%

,71.' ; ,41'J.' <,46' " E' 7' ?'1; ,41 1' 1'? >. / .<7' 5.6' 71, 6' =4'176' >.'5" ; '11 1.I' . .67' " <,71.'6'J.66.' ' <,46' E' 1.' '77. <>1.'5.' O47% <.'J1'<>.'6. ; ,466.' - . , 7' > .M 71.' >,< ..% ,46' '-,<6' -4' 5" ?.1E >1.' .7' 5.' ?'1Q41.' >.6; .<>1.' >4' 71O<.'8' <6457.1' " 5" 5,V'47.8' " 5" 7 / <' 7 ; .<; .' ;5.6' H1'<=' 6%?'1' 4<.' E 7.' : ,<7.46.'1<,46' '-,<6' 4%6'<6' 71,4O5.% " ?'71 .' 7 7' 7' >.0,47G' <.' E.1 / .7.' <.O1'<5'O5.' .67' 5.' 6.45' 1. / ?'17' =4.' 5.' ?' ' 71 ,7 6 / .' >, -.' ,??,6.1' '4@' >;5 .6' .7' '4@' 7V1'<6% #,<67' / <.<7' 4< 6' > ,? < ,<8' 1'55 .6' '47,41'>.' ' 7.5' >.'5" #,<67 747 ,<8' E >.5.6" 5" 5, 8' ; ,<E '<76' " <,6' >1' J<.6' 1.? .6.47'<568' <,46' < '-,<6' 1. ' " ;1' <>1. 'W' >.6' J4.6' 1J4.'5.'6.6' >4' >. : ,168' <' >.6' ,O6;416' ; , / ?5,76' >.' <7. 1 .41% # .67' .<' <,46' 6.456' =4 .67' <,71.'E,1; .I' .7' ,O6.1-'7 ,<'>.6' 5, 68' 4< ,<8' 5" #,<M ; ,1>.' .7' 6417,47' ' ;=4 77. / .<7' >.6' / ?,6 7 ,<68; ,<' 6,E >.1,Q N' 4<.' / '< .1.% <.@?4J<'O5.% ? / ,17.5' / ,<4 / . ' >.' <,71.'E O.17.%

[* I K ' '+.' (" (# (," -(" +4 +." 2) -4)$,$5*(" - *") (/ '+.' (" * 8 '/' .' (" (*#+*," 5 $'4+.+$'' (,'$* ., " (*' *+$' '+* ,/(,' '+.' +' .+9(7 +0(*' 4.(3$" -+' ,.+$,((*, (' $(2' (4. 0(' (*' 4+.($' 3#('7 '2 (' -$,$ *' $ 4.$ (D' .$(' . 8+ (/ +F+5+((' *' +' $*,' -(" -)'(.0+, *" ' +.' (" (#(," -('4 '$(." 4 $' $," -+*" ('3 .4' -(' ` (' (,' '+.' ,(' * 8($$' - (*' (4(()(.' (" ' $,(" # (',(' +.' ' ., + / 4. #('' (.' -('2* -(3$* ' + . 9(! 8+ / (,' -(' +3+-($(' -(" '3$(*3(" -(' +.$'

(" *).(*'(" (-$,$ *" -('3(,' 0.+9(/ (" ,.+-*(,$ *" 5 D(*' *,' - *+,(" (" ,.+*9(." (,' (" (,+) $''((*," ,$ (" + 25+(' "$' +' - $*9' $(+/' ' $,' (*' .+*3(/' $' +$ (+.'/' * " -$'4(*'(*,' +''(U - (*' #+$.('#(9(' '-$. *" '(* ((+,'5 (' 3(,,(' -$,$ *' (',!4$+" (..(3,('5 (' (" + ,.('/ (,'5 (('3 *! ,$(*,' -(' 4 " -(")'(.0+,$ *" ,. "$ 4 .,+*,(" ' .' (" '$9*(+' -(' +' ., / ' .' (' *+, .(' -(" 4 $' *'/ (,' ' .' (',.+$,((*,' (' $(2' 4. '5 $' #++,' +- $*$'$.(.' + 2' (2*4 ' **('D

' ,. 0(' +' '$' 3 $(U (' 2* (').+$.(' *' (2, .+$,'(*') ' 4+9(" $*!F:' (,' (*' 4 +3+.-'$*!# ' -(" ,6 -(" 3 .+,$0(" (,' - +9 (" -(' , (' -$'3 '$ *' ,6 .$5 (/ '+' $ 4.$ ' ' (' $*$' , .(' -(' .9 ,'(,'# (3Y(.' 4 , ,.(-$',.$) ' + 2' 3 . " (,' 4 .' ,.(' +##$() ' -+*" (" 4.$*3$4+ 2' (2' - ' . 8+ (/' ., ,-+*" (" 4+8" 0 9*) ('/ 4.(" -(" $*('/' -(' '# ." ' 36+ 2 ' ' .' (" 4 .," -(' (.'(,' -+*" , " (" (*!' -. %$," *' $' +..$0(' #.(5 ((*,'5 (' (" 6 (" '(' * $(*$' (' 4 .6'(*,' #+ ,(' -(' '(3 .' 'EB' -(0.+$,' (,.('3 *'(.0-' -+*" , *!' ,(" (" #+ $$('/ (,' ' ., ,' -+*" (" +' *" -('3+ 4+9*(' (" *$3$4+ $,8' -(0.+$(*,' + ''$, *" (" +*" #+$.('3 **+#,.('4+.' -(" +# $3)(" (" ,) -(" 3 ,+,$0(" (,' '$ 4 (" 5 $'8' ' *,' $*-Q!

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! b ʿ 5 ʿ ʿK %

ʿ BTP ʿ #..#,/BW 2 ʿ 4562 ʿ C ʿ - ʿ ʿ ʿ ʿ

W G ʿ ʿ * ʿ + ʿ .6;'>1.ʿ>4ʿ;'? 5'< ʿ ?';0'ʿʿ 5.-.ʿ '<;1.ſ / ' 6ʿ.55.ʿ6.ʿ71,4-.ʿ.<;,1.ʿ '4ʿ #'M <'5ʿ?1.6ʿ>.ʿK4Q4 >.1.ʿſ .55.ʿ .67 / '5ʿ / ,<5..ʿN ,<ʿ Vʿ ʿʿ / 6ʿ 0.'4;,4?ʿ >.ʿJ.<6ʿ=4ʿ< ,<7Q' / ' 6ʿ6.1-ʿ641ʿ / .1% + .ʿ1.;145. / .<7 ?,41ʿ '1 / .ʿ >4ʿ J1'<>ʿ - 6 1%6.ʿE' 7 '-.;ʿ?. <.ʿſ >.6ʿ Q'< 66' 1.6ʿ .<ʿ .7'7 .<;,1.ʿ>.ʿ6.1- 1ʿ 6.ʿ ;';:;<7ſ > '471.6ʿ =4ʿ .7' .<7 ?'17 6ʿ?,41ʿ '1 / #.ʿ '<ʿ / , 6ʿ>.ʿE#-1 .1ʿ,<7>.6.17#ſ,<ʿ';;46.ʿ5.ʿJ1'<>ʿ - 6 1ʿ>.ʿ 71,?ʿ>.ʿ1 J4.41ʿ.<-.16ʿ5.6ʿ71,4?.6%

%! %

ʿ ʿ ʿY ʿ Vʿ .6ʿ1.J / .<76ʿ6,<5ʿ .<ʿ / '1ʿ ;:.ʿ-.16ʿ5'ʿE1,<5 .1.8ʿ .7 7,46ʿ;.4@ʿ=4ʿ 6.<7 .<ʿ / ,4-.ʿ / .<7 ,<7 #5.ʿ / 6ʿ641ʿ5.ʿ? .>ʿ>.ʿJ4.11.%

<ʿ ʿʿE' 7 ?'17 1ʿ> ;ʿ >.6ʿ ?,<7,< .16ʿ?,41ʿK.5J1'>.8ʿ , 5ʿ>, -.<7 '466ʿ 6.ʿ1.<>1.ʿ ?546 .416ʿ;, / ?'J< .6ʿ> '1ʿ 7 55.416% +ʿ <ʿ ʿʿ>,<<.ʿ>.ʿ / . / .ʿ>.6ʿ,1>1.6ʿ?,41ʿ';:.ʿ 7.1ʿ>.6ʿ - -1.6ʿ .7ʿ>.6ʿE,411'J.6%ʿ 8

.ʿ?1 <;.ʿ>.ʿB, :.<5, :.ʿ.67>.6 J<#ʿ?,41ʿ;, / / '<>.1ʿ .<ʿ;:.E5.ʿ;,1?6ʿ> '1 / #.ʿ>'<6ʿ5ʿʿ 1< .% +ʿ <ʿ 76-.ʿ>.6ʿ ;,1?6ʿ>.ʿ-,5,<7' 1.6%

@ʿ0'7' 55,<6ʿ> <E'<7.1 .ʿ.7 4<ʿ1#J < .<7>.ʿ:466'1>6ʿ ;' / ?.<7 - 6 ' - 6ʿ>.ʿ 5 671 .8ʿ?,41ʿ ,06.1-.1ʿ5.6ʿ / ,4ʿ -. / .<76ʿ >.6ʿ 41;6ʿN ,<ʿ Vʿ ʿʿ>E.66#ʿ ?546 .416ʿ0'77.1 .6ʿ >.ʿ;'<,<6% + .6ʿ 41;6ʿ6.ʿ?,17.<7 -.16ʿK1' 5, [ſ 56ʿ?'6ʿ 6.1,<7 5.6ʿ4<6ʿ5ʿʿH.1.7:8ʿ5.6ʿ '471.6ʿ5.ʿ '<40.8ʿ '4ʿ / ,ʿ 8 / .<7 , 5ʿ5.ʿJ1'<>ʿ - 6 1ʿ?'66.1ʿʿ5.ʿ '<40.% ! .ʿ >.1< .1ʿ .67 .<;,1.ʿ ʿʿ ;0 <5ʿʿſ 5ʿ ʿʿ>.7';:.ʿ4<ʿ;,1?6ʿ-.16ʿ ',ʿ 0 <ʿ'-.;ʿ ,1>1.8ʿ> 7 ,<8ʿ> '77'=4.1ʿ5.6ʿ 466.6%

,46ʿ5.6ʿ1.J / .<76ʿ>'<6ʿ5.ʿK'<<'7 6.ʿ ?,17.<7 ʿʿ5ʿʿ E1,<7 .1.ʿ .@71. / .ʿ ,4ʿ ,?ʿ;,<>4 7>.6ʿ / 4< 7 ,<6ʿ>.ʿ J4.11.%

ʿ$! ʿ ʿ?- + ʿ + <ʿ / '<>.ʿ> <6?';:ʿ=4.ʿ 5.ʿ / '1J1'-.ʿʿ;.>.ʿ>.4@ʿ>.ʿ6;6ʿ1.J / .<76ʿ '4@ʿ.7'76 J.ʿ <#1'4@ʿ>.6ʿ 1,- <;.6 < .6%

.ʿCUQ4 <ʿ6 .67 E' 7 ʿʿ EE,<;:.1V 8 ?1.6ʿ>.ʿ#'66.5 8 5.ʿ <'1 'J.ʿ >4ʿ ?1<;.8 #:'15.6ʿG5.ʿB.66. : 5 ?67:'5ʿ '-.;ʿ 5ʿʿ?1<;.66.ʿ ;7, 1. / .5 . 1<.67<.ʿ> <:'57 K.1<ʿ 0,41Jʿ ;:' / '0,4 J%

<.;1 7>.ʿ .<<.ʿ=4.ʿ5.ʿJ,4-.1<. / .?7V ʿʿ>.E.<>4ʿ / ?1.66 ,<ʿ.7 5ʿʿ > 671 047 ,<ʿ>4ʿ !ʿ ʿ ʿ;,<ʿ ;.1<'<7 5.ʿ<,4-.'4ʿ;5.1J.ʿ>.ʿH1'<;.%

ʿ ʿ ʿ?_ ʿ +ʿ .ʿJ.<.1'5ʿ>.ʿ ,55.<>,1E.67 ?'17ʿ?,41ʿ5ʿʿ 1466.ʿſ >.6ʿ .67'E.57.6ʿ ,<7 .7.ʿ .@?.> ..6ʿ '4@ʿ71,4?.6ʿ>'<6ʿ5ʿʿ , / .1'< .ʿ.5ʿ5ʿʿ 1466.%ʿ <ʿ J<,1.ʿ .<;,1.ʿ5.ʿ047ʿ>4ʿ-,V'J.ʿ>.ʿ;.ʿ J.<.1'5%ʿ .6ʿ4<6ʿ> 6.<7 =4.ʿ5ʿʿ14?741.ʿ'-.;ʿ5ʿʿ 466 .ʿ .67 <.- 7'05.ſ5.6ʿ'471.68ʿ '4ʿ;,<71' 1.ʿ8 ?.<6.<7=4 ,<ʿ < .<ʿ - .<>1ʿʿ?'6ʿ ʿʿ;.77.ʿ .@71. / 7V8ʿ / ' 6ʿ =4.ʿ6,46ʿ?.4ʿ #.77.ʿ .< J / .ʿ ?,5 7 =4.ʿ 6 .@?5 =4.1'%

ʿʿ;,41ʿ>.ʿ 1.6>.ʿ ʿʿ.<-,V#ʿ ʿʿ;.55.ʿ>.ʿ .7.160,41Jʿ 4<ʿ / > 671.ʿ?5.< ?,7;<7 ' 1.ʿ>'<6ʿ5'?.16,<<.ʿ>4ʿ0'1,<ʿ >.ʿ ,5 .16':<%

@ ʿ * ʿ ʿ ʿF ʿ*ʿ- !

%%%%%%ʿ ''>.ʿE,17.6ʿ1' 6,<6ʿ>.ʿ;1, 1.ʿ=4.8ʿ6ʿ5.ʿ1, -' 7 ? ʿ 6.ʿ .<>1.ʿ ʿʿ ,<71<.>V8ʿ 6,<ʿ ?'17ʿ '41' 7ʿ #7.ʿ 1.6ʿ;,<6 >.1'05.ʿ>'<6ʿ7,47ʿ5.ʿ1,V'4 / .%ʿ 4ʿ / , / .<7>.ʿ ,<ʿ'11 - .ʿ ʿʿ ,<71<.>V8ʿ> E5.1.<76?1 <;.6> 55. / 'J<.ʿ 541' .<7 .<-,V.ʿ 5.416ʿ71,4?.6ʿ ʿʿ6,<ʿ'1 / ..ʿ8ʿ .7ʿ .<71.ʿ / 71.6ʿ C8 ʿB.66, 6ʿ6.ʿ7.<' .<7 ċ d ʿ ʿ

hʿ ʿ +ʿ < ʿ '.

=4gQ.ʿ-,46ʿ> 6ʿ5'< .67 ?'6ʿE,<>#ʿ641ʿ>.6ʿ 014 76ʿſQ .4ʿ ''5ʿʿ;.17 74>.% ʿ .67 / / .ʿ71.6ʿ-1' 6. / 05'05.ʿ=4.ʿ5.ʿ 1, ʿ>.ʿ 1466.ʿV '41' 7 .<-,V6ʿ4<ʿ ?4 66'<7 6.;,4 % .ʿ 7,46ʿ5.66,4-.1' <6ʿ=4ʿ?.4-.<7 '-, 1ʿ <7.1.7 ʿʿ6,47;< 1ʿ ;.77.ʿ;'46.ʿ>.ʿ7,46ʿ 5.6ʿ1, 68 .,?,5>ʿ ?'1' 7 5.ʿ / ,<ʿ > 6?,6.6ʿV?1.<>1.ʿ?'17%#.ʿ< .67 ?,417'<7 ?'6ʿ5ʿʿJ4.11.ʿ >.ʿ 41=4 .ʿ=4ʿ '11.7.ʿ ,4ʿ <=4 .7.8ʿ5.ʿ ;,<J1 6ʿ>.ʿ 67,-.ʿ.67 6.?'1#8 / ' 6ʿ<,<ʿ1, / ?4% ,6ʿ;, / / 66' 1.6ʿ 6,<5ʿ ʿʿK4;:'1.678ʿ'77.<>'<7 5.ʿ / , / .<7 >.ʿ1.<,4.1ʿ5.6ʿ ;,<E. .<;,68 .7 6ʿ5.ʿ ;'1';7.1.ʿ- ,5.<7 >4ʿJ1'<>ʿ - 6 1ʿ 4664E ʿ;:ʿʿ E' 7 1.;, / / .<;.1ʿ5ʿʿJ4.11.8ʿ<,46ʿ'-,<6ʿ >.6ʿ'1641'<;.6ʿ=4.ʿ5.6ʿ 41;6ʿ6.1,<7%'0E7<>,<<.6ʿ ʿʿ5.416ʿ 6.45.6ʿE,1;.6%

,<6 .418ʿE1.1.ʿ>4ʿ1, 8 ʿʿ>.;5'1.ʿ ʿʿK14@.55.6ʿ=4 5ʿ <.6.ʿ6.?'1.1' 7 ?546ʿ>4ʿ;, / 7.ʿ> 17, 6% ,<6 .41ʿ6.1ʿʿ ʿʿ5ʿʿ7#7.ʿ> 4<.ʿ.<71.?1 6.ʿ?,41ʿ4<.ʿ;,<71. 1#-,545 ,<ʿ ʿʿ 5'=4.55.ʿ5.6ʿ; >.-'<7 ?1<;.6ʿ6.<7 0 .< .5, J<.6ʿ>.ʿ1.G <,<;.1% 56ʿ<.ʿ?'1' 66.<7 <ʿ >.;,41'J.6ʿ <ʿ '0'7746ſ 56ʿ<.ʿ?'15' .<7=4.ʿ>.ʿ .6?, 1ʿ>.1.;,<=4#1 1ʿ5.ʿ1, ʿ .7ʿ >.ʿ1.<-.16.1ʿ ʿ ʿ ʿ Aʿ

! ʿ ʿ?'1' 7=4 4<.ʿ?' 17 .ʿ >.ʿ ;.ʿ=4ʿ6 '??.55.ʿ .<;,1.ʿ5ʿʿ - ʿ6.ʿ> 6?,6.ʿ ʿʿ6.ʿ1'5O.1ʿ'<ʿ 7,41ʿ>.ʿ;.6?1<;.6ʿ ʿʿ#,05.<70% ,46ʿ5.6ʿ -.11,<6ʿ?'17 1ʿ '-.;ʿQ, % 56ʿ< ,<7 ?'6ʿ64ʿ6.ʿ1.<>1.ʿ <7.1.66'<76ʿ>'<6ʿ ;.ʿ?'V68 .7 ,<7 1'-' 55.ʿ. @ / . / .6ʿ ʿʿ>.714 1.5 <7.155ʿ =4.ʿ?,4-' 7 <6? 1.1ʿ5.41ʿ / '5:.41ʿ'4@ʿ' / .6ʿJ.<.1.46.6ʿ .7ʿ'4@ʿ .6?1 56ʿ?.4ʿ#;5' 1.6% .6Q.4<.6ʿ J.,6ʿ6.ʿ;,<>4 ʿ 6.<7 '-.;ʿ4<.ʿ5.J.1.7.ʿ.7=4.5=4.E, 6'-.;ʿ4<.ʿ <6,5.<;.ʿ =4ʿ>.?5' 7 ;:.0ʿ<,71.ʿ<'7 ,<ʿJ1'-.8ʿ71'<=4 55.ʿ .7E .1.% <.ʿ'<.;>,7.? =4'<7.ʿ>.ʿ;.77. #J.1.7#E1'<;' 6.8 .7=4ʿ .67 71.6ʿ641.8ʿ .67=4.ʿ;.6ʿ / .66 .4168ʿ ʿʿ <67'<7 ,4ʿ 56ʿ'?ʿ ?1 1.<7 5.ʿ>.?'17 >4ʿ1, 8ʿ ʿ ʿ ʿ ʿ ʿ ʿ % > 6 .1:'6Vʿ '-' 5ʿ ;.54ʿ>.ʿ5ʿʿ J4.11.8ʿ .7;8%

% % % ,<6 .41ʿ54 / <'.ʿ6 .67 71,4-.ʿ / '<=4.1ʿ'063ʿ 54 / .<7> '1J.<7% #.ʿ6.1ʿʿ6'<6ʿ>,47.ʿ4<ʿ>.6ʿJ1'<>6ʿ,06M 7';5.6ʿ'4@ʿ>.66. <6ʿ>.6ʿ?1<;.6ʿ1.0.55.6%%%%%% .6ʿ,E ; .16ʿ E1'<;' 6ʿ =4 8ʿ ' <65'47 ,4ʿ 56 '??1 1.<7 5.ʿ>.?'17 >4ʿ 1, 8ʿ?'17 1.<7>.ʿ7,47.6ʿ5.6ʿJ'1< 6,<6ʿE1,<7 .1.6ʿ?,41ʿ6.ʿ% 1.<>1.ʿ>'<6ʿ<,6ʿ?1,- <;.68ʿ6,<7 '466ʿ>'<6ʿ4<.ʿJ1'<>.ʿ >.71.66.% #.4@ʿ=4ʿ6,<7 ʿʿ K14@.55.6ʿ1,'<J.' .<7 ?1.6G =4.ʿ7,46ʿ'4@ʿ> 5E.1.<7.6ʿ7'05.6ʿ> :>5.ʿ,ʿ:ʿ>5<.<5ʿ5.6ʿ,Eʿ E ; .16ʿ>.ʿ<,71.ʿ<, / 01.46.8ʿJ'1< 6,<% .6ʿ ,EE ; .16ʿ'4ʿ 71;: .<6ʿ6';:'<7=4.ʿ;.6ʿ,EE ; .16ʿE1'<;' 6ʿ'55' .<7;.6 .1ʿ >.ʿ-.< 1ʿ ʿʿ5.416ʿ7'05.68ʿE'47.ʿ>.ʿ?,4-, 1ʿ?'V.18ʿ5.6ʿ,<7 ?1 .6ʿ85.ʿ;,<7 <4.1ʿ ʿVʿ-.< 18ʿ .7 ,<7 >.;5'1.ʿ '4@ʿ0,7.6ʿ =4 566.ʿ;:'1J.' .<7>.ʿ5. 516ʿ>#?.<6.6% %>.ʿ#'5,<<.8ʿ =4ʿ';;, / ?'J<' 7 5.6ʿ ; >.-'<7 ?1<;.68ʿ .67 ?'17ʿ>.ʿ K14@.55.6ʿ ?,41ʿ ,<>1.6ſ / ' 6ʿ5ʿ5.6ʿ1.Q, <>1ʿʿ0 .<7,7 ʿʿ#,05.<70%

H # %

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< ʿF ʿV (ʿ,.$) *+ʿ - ʿ-$',.$3,ʿ-(ʿ3(,,(ʿ0$ (ʿ +8+*,/ʿ4+.ʿ *ʿ *9(*$(*,ʿ- ʿZDMM-(ʿ3(ʿ$* $ʿ/ʿ3 $$-+ *(ʿ (ʿ +*!ʿ -((*,ʿ-(ʿ ʿ *U$(/ʿ3$!-(0+*,ʿ+036(0$5*(ʿ -(ʿ3(ʿ -$ 3$'(/ +ʿ' *ʿ3$!-(0+*,ʿ3 (.9(/ʿ+ʿ(,.(ʿ +3(.(ʿ(,ʿ).$ (ʿ4+.ʿ +ʿ +$*ʿ -(ʿ %(2(3 ,(*.ʿ-(ʿ +ʿ .+ ,(ʿ,$3(/ʿ (2(3 ,$ *ʿ(*ʿ+ʿ-$(ʿ#+$,(ʿ (ʿW/ʿ '*.ʿ +ʿ4 +3(ʿ-(ʿ +ʿ *ʿ,$, ,$ *ʿ/ +0(3ʿ, ʿ +44+.($ʿ-%*ʿ+9(ʿ -+*ʿʿ (ʿʿ3+ʿʿ- (2(3 ,$ *ʿ-(ʿ6+*,(ʿ ʿ,$3(ʿ +ʿ4 +3(ʿ-,+$,ʿ3 *1 0(*(ʿ- *(ʿ ,$, -(ʿ$ (*'(ʿ5 $/ʿ4+.ʿ '(ʿʿ +44 ++-$'' ʿ (*,'/ʿ+ʿ *#$. (ʿ(ʿ 9((*,ʿ-+ʿ,.$) *+

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G*,', - *."(9$,$ (" .'5 ((" *,'4 *.') (,'+'*(9 D 9 *3(-(" -(0 $." $2*4 .$('((*,'4.('(*," 4+.'?+' /'(,' 5 % *'+' +.-'-(.(4@.

R*# //'4+.' *' +.. b' - 'WB' - ' " -(.*$(./ (-$.(3, $.(- '--4+.,((*,'+'- #- '5 $ *$F-$+,((*,'+4. " (" 4 .+! ,$ *" -(' +' * *0(#('+''( ) (('- , .+ (' - ' --4+.,((',/ (" - (3,(." -('36+5 (' -$'$.$(,'4. 3(-($+$(*,/ -+*" ('36(#D $(' -('.+.. *-$''((*,/ F'3(' .(4 +3((*,' -(" # *3,$ *= *+$.(" (3 '$+',$5 ("f (' 3 .4" (3, .+' ' (,+$,' -- +' .F *$ -+*" (' 3)(#! $(' - ' - 4+.,((*,/ +$"+' +'* 0(('- ' -(! 3.(,'--'WF (" (3,(."'(' ' *,''(4+. ''V (' 4. 3 .(.!9 ! * .+ !' #*-$3- ' - 4+.,($*(*,/ +8+*,'#+$,' '(.0(.'+ ' -$.(3D , $.(')$(*'$' (,+$,'$ 4 .,+*,' - ' *('4+" ' '4(*-.(' 4 " *9,(4" (' .(4 +3($4(*,' -(" (33 ('$+', 5 (" # *3,$ **+$D .('/ +' ()+.9 ' 4+.' (' -$.(3, $.(' -('#+$.(' 3 *0 5 (.''+*" -($+$/ 4+.' ("4. 3 .(.f!'8$?-$3'/ (" (3,(." -+*" 3'36(#D $(' -(' 3 ." -$',.$3,".('4(3,#'/ 4 .'5 (' 3(' .(4 +3((*,' D4 $''('(,.('#+$,'+ ' BF $ (,' V' $4'$' 0 $ F'* " (3,(." +'D '( ) (" * *' (*' 3 .4" -(' - 4+.,((*,/ +$" (*' 3 .4" -(' -$',.$3,'

F S' P'- ('DD (' 3 *'($'9(*(.+' -(' +'3) *('+'! '($) F(/ ('4.- .(.' -(' +'3 *('+'#+$,' (3, .(' -(" -($D) .+,$ *" - ' - 4+.,((*,' -(' ((D(,! + (/ (,- ' -$',.$3,' -(' (*/ -("WW' (,'WP' $*' -(.*$(./ .(+,$0(" + 2' 8(*" - +33 .(.' ('.(3 0.((*,' -("3 *,.$) ,$ *"4) 5 ("4+.' *('+0+*3('0 *,+$.('- (' +' 4+.,' -("3$, 8(*" ' (" $ 4 D '$,$ *" -('BHTB/ * *' (*3 .('. 4+.,$('7'$'+'.(5 $" 5 (' (' 3 *D '($'9(*(.+/ (*'+-) .+*,'F'3(" -($)(.+,$ *'/' 0,' (2(4 (' -("3 .4"+- *$',.+,$#'/ (,'$*0$,+,',.F"(24.(''((*,', *" (" (,, 8(*" -('3(,,('3 *('F'#+$.('3(' (9(.''+3.$#$3(

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_' , (' : F ')% L ' *' J

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% Q(' *3'3 **+$"4 $*,'" $ (7 $ '$ (F,' (3.$,'(,' '3(*,'+ ,.(" (4 ,("4+,$%$,('/5 (' 3(''(.+$,' *('4(.,$-$(' -('4 "+'+ ,(.' +''+',.+6$' +' +' (,,.(' 5 ('#+$' .((/ (,'5 (' (" -F4$$,(" - ' 2 (4+.,((*,' -(" .-(**(" *'.($'(' -(' 3 *#$+*3(/L(' +$ 0(.,(' -(0+*,'(2 ' (' +' (.'+,'.(*- (' 4 .'(,.(' - 4 '((+ ' 3 $, ' -("0(36(.3)('' (,,(' (,,.(' (,' -D *'+* *8, (' 5 (' 3'3. $".(3 **+$,.(' 4 .' *'+.$', 3.+,(' (*.+9F/ +0(3' (5 (' D+$(' -(',.F"# .,("4.$'("(*'' 3$,F7'$' 36(.36('F D$*'4$.(' -(",(.,%(.'/ (,'*,%$*0$,('F'5 $,,(.' . ''($4) (' " 4.-,(2,(-(''+*,(' ' - +##+$.(" -('#+ $ (' (' 3 *'($/ ('*(' (' ' $0.+$ 4 ,/ (,'3(,'$*,(. ,' (' (,' *(' $* .(/ 4+.3(' 5 $$' (',' 3 3 *'+' *'+ ,.('-(4 ,('+ 5 (' *'4+,.$,$' (' ('.(*-' # .,'(,.+*9(.' $?F' ("#+$,'7'3 *'* ,(U' ("-(4 ,(" - ' -F4+L.!' ,((*,' -(" .-(**('7'3 *' ,(U' ('3 L,(' -(" .(36(.36('/ +' 3 *-*$,('(',' ,' '(.+', ." 4 .(7'* ' -(4 ,(' *'+'#+$,'+' +' 3) '('4) $5 (' -("'+3.$#$3("+ ''$'9.+*-"5 (' 3(2' - *,'A( ) * .(7(,/ + 9.(' +'3 *'3$(*3(/ (' 3.+$*" +' 3+ *$(/ (,' ('0 "(*9+9(' +' +' .(4+.(.

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- ' -('4 ,$' ('(,' (**3 $' - '4(4 (/ 5 $' - $,' ,.33 .$(U -(' Y(' -+4" 3(,'(3.$0+$*' *' .3(+ ' ' .' ('4(4 ('3 4+.(+ ' -('4 ,(' (' .3(+ ' 4 *..+' ,$.(.' -("3$.3 *',+*3("** * 0(+ ' & *' -$*, . ,'A(' ('' (.'/4 .'4$*" -('#+3$$,8/ -(+',.+- 3,$ *' -('#(' ' -(' F*(/ +$,.('-(".(5 -,('/4) -(F' +.$"('BHEW

&A(' ' , (*'/3(*,.(' 4$*$ *'3 *('5 $'0(,'5 (' (4(4 (/ .'5 $'- $*(/ ' $' (9(./()+*9(+*,/$*9.+,/5 (' , *"3("0$3("*(' $' ' *,'4+"4 " *+, .("5 + 2'4.$*3(" ("(*'+33 '(.'(9+ ((,/(('(,'(,.('0.+$,'(*'0 $.'(2(4D ,(.' ("4.$*3('/ ((',' '(',. 4(.' A('4.(,(*-" - (' 5 $$ 4(4 ('- *,' ('4 0 $.'(',',(4(. '4+.'-(" $" (',' 4 -(*,/ 3 *',+*,/ .(3 **+$''+*,/ + ,+*,'(,'4 "5 *'4.$*3(',*((.(4+$-' '+9(7' (,'5 *'4.$*3('5 $' *(.(3 $+ ,'+ 3 *'#.($*' (',' 4 '/'$*3 *',+*,/ 4 "$*9.+,' '4 " $' 4. -(*,'5'D** 4(4 (' +' -$##(.(*3('0$(*,'- '4 " ' - ' $+" -(.('4(3,' 5 *'4(4 (' ' *'4.$*3('3 *'(.0(*,'4 .' (" $" - *,' +D 0 .$,-' ("9 0(#*(' ./'$'0 "3 *'$--.(U' ('4(4 ('. +$*/ 0 " ('0(..(U'4(*-+*,'FII'+*" (**($' - '$+'. 8+ ,-/4+'! '$ **-'4 .' +'9 $.(',(,' (')$(*' -(' (,+,7 0 " .(+.5 (.(U 0$*9,'(2(4 (" -'3("0(., " *,').$ (' -+*" (' 4 'D9.+*-' .

" ') (3,(.+'4(,!-,.(' $*9.+,$, -(- *,'$'4+8+' ("'(.1 0$3(" -(' 3$4$ *'A(' .(*0 $('3(2'5 $' ('#(. *,'3(,,(') (31 ,$ *'+ '36+4$,.(' ' +$' -$.(3,((*,'4. 0-'5 *'4(4 ('.67 $*"$*9.+,'5 *'4.$*3(' +*,'+' +'4. -(*3(' (,'+' +'#,<6M ,+*3('/ (' ,$(*"5 *'4(4 (' (,'4 "4 -(*,/4 " ;,<6M ,+*,/ ($ (.' 9('5 *'4.$*3(' ''$'+D,D *' .+$' *' -(' -$.(5 (' +'0 $2' - '4(4 (' (,' +'0 $2' -(' $(7 0 $,'' *0(*,' % 4$*$ *'4) $5 ('4. * ',$5 (.' (" -0-*((*," - *(' /'' *$(.('\$ (.0($ ('('5 *' -$.+$,'5 (' ('4(4 ('+' +'0($, ' '(3.(,('-('4.-0 $.' (')$(*'(,' (' +?' (+*-(D,D *' -('4.(! 0(" -(' +') *,' -(' *' 9((*,c' .'5 $'(*,(*' -(2',1'G ,(." -% *' -.$,('-9+' $'4. 4 '(.' -(2'4+.,$", ,' 44 '('/ +*5 (D,D$' .-$*+$.((*,' -(' '+..-,(.'+ ' ($ ('c' ('',!$' + !-('' " -("0-.$,("5 (' - 5 (*3(' 5$'4.('(*,('cf $'(', (*,.+$*-'5 (5 (# $"4+.' -(" (..($$." '-- $'+*,(" (,'5 $; +44+.(*3(' -('5 (5 (' ,$$,-/ *' 4.$*3(' * (',D$$'4+" .J'1.' 4+$%'('"4+''$ *'/ 5 $' *,'(*')$(*'4 "9.+*-'* $*).(5 (3(! ("- ' 4(4 (c' +*" (' 36 $2' -('('" +9$',.+," * ('$!$' ?'6 $) $ (*,'4 " '+9('5 *'4.$*3(c' $'4(.' +-(!,! *'+$'(! -*,'- - (0(.'+ 2' -$9*$,-" ') ('$*#+ $('(,''+*" + *c' B?'8'+' ,+*,' -(' 8(*" (,' -(' '$'+$'-" -(' (' 4(.' +-(.'+' *' 4.$*3(Z' R*#$*/ 'D$'+' 4.$"5 (5 (' 36 '(' (*' +0('$' */ *('$($,! *'4+"4(.'-0-.(.' -("'$(3 ("(*,$(." - *"3(''(*,$ (*,c' *',+*3('- *,' *'4.$*3(''(',. 0(' .+$((*,'3+4+) (

.'A(' +44 5 ($%+$' ' .'3(" -(2' 4 $*," + ' ,-$* $9*+9(' -+ 4(4 ('. ,*+$*' (*-+*,'4 '$(.'3(, $*('" -+$ -('/4+$ $,+*,' - - (3,$ *" -(' 3 *' " (,' -(',.$) *'/ $' *8' ('(+,'4+' 5 +,.(' - *,'$' (,' 33+'$ *' -(''('.(4(*,$.'BZ3 ,',+*,' -%6 .! .(.'4 .' ('* ' -('. $/5 (' ("'(.0$3(" ("4 "'$9*+$('*(- -.)(.(*,'A+ +$" F' '+'0(*9(+*3('+*'3$, 8('5 $' (0 , ' .4(.' D M ' % %' K

d= +''( ) (U', ,(" (") **(" (,' +*0+$'("5 +$, " -.' 4.$*3(" (,' -("4(4 (/ 0 " 0(..(U' ("4(4 (" (4$(.' , $8 ." (*'0-.$,+) ('9.+*-(.'(,' (*') *,- 'R,''$ ("4.$*3(' *,.(*,' .-$*+$.((*,'4 " -('3+4+3$,-'4 .'3 4 '(.'-(' $'/4 .'$*'$$, (.' *' -,+,/4 .'-,+) $.' *('* 0(('# (' -('9 0(.*((*,/ ("4(4 (" *,' -(' (.'3G,(' +0+*,+9(-(' $(*2'3 *'(.0(.' .-.(' -,+) $/ (,' -(' ' .4+''(.'4+.'3(,,(*',+*3(' +'9 $.(' -(f$*',$, ,(.'

?=)'(.0 *"($,#$*'/4 .'3 *3 .(/5 (' (" *+.3)$(+/(" 9 0(((*,"4 4 +$.('/* *,' $'*$ (" *'/*$ + D ,.("- *(' *9 ('- .-(/5 F'.+$' *' -(' (.'' $''$ *'+$' $'' *'4.$*3(' 50,'*+'4 .'.(9$('5 (''+'0 *,-' (,' ' $*'(*'- ' '4(4 ('5 $'4(,'#+$.(', ,'3('5*%$'0(,(',' ' # D +$"'$'0 "3 4+.(U' *'4.$*3(' (,' *'4(4 (/ $(" ' ("-(2'4+.' -(" $'/ 0 "0(..(U', ." ('4(4 (' (.'D 4 .,('' .' ('4.$*3(' (*'5 +$,-" ('$ +) (',' $0 " (" 4+.(U'+##.+*36$", "-(2'- ' 9'- ' -(0 $./ 0 ",. 0($,' 5 (' ('4(4 (',' ' (,'F $*" -('0$3('/5 $" ' *,' $'f 4. # *-'/5 $' (,'4 "+$'-' -8'4 .,(.' .((-('BB *(#' , ' 0(*,'5 (' - 5 (*3('- *') ('-(') $(*'/4 .'+44((F'. **-,(,-' *'4(4 (' ,$*'(,' $3($3$(2' *'*('4(+,'4+' (.'F' *' -36+*',4.$*3(/ (,' ('#(.''(+'4(+,'9 -.$' (' +?'$$ $' 9('- *('-(" + +-$("4+.' +' - [-.(*3('-(".(*+ ('7" *' *'$-(.('5 (4 .'9 -.$.'3(("-+'4(4 ('4*'4(+'- ' 5 (*3('4(*,' ' ##$.(7'5 $' (' ' *'(3(''+$.(' - (4 8*D ('#(4 .'9 -.$.'3 ("-("4.$*3('/'$'#+ , *0(*$.5 ('3(('5'$ (2$9(*,' ("4 '0$ (,".(--(" ' *,''+*"3 4'.+$' + (,' 4 "9.+*-('' ' & +*" ("-9+.((*," ' ' +$''('(4 .,(.' *(' ,$, -((#..-*((/ *'+' $*")(.-$'4.-'(*,'5 *'* b '++.*$-'4+%

+0(*$.7 *'3.+$*,'5 *' +)$,$(2'*('4. #$ (F+'(6+ ",,*$D
0(.'(' 4 .' -,+) .' '+' - $*+,$ *' ' (*' (',' +*,.((*,' -("
#+.($$."-% *' (36+*,'4.$*3(7 ('4.('(*,'+33+) (/ *('4(.('
(*' +0(*$.' *' '('4(.' +-('5*(' 23(" -(' +',8.+**$3'4(*,'
.+*$ (.'5 (5 ('((*3('-(' $)(.,(' 8(U - *(' +' -$##(.(*3('
-('3('5 *' ' ##.(' -+*"3(" -(*2' +'7 (('3','-+'4. (*,'+'
+0(*$.

: +'3.+++, ' - *'4(4 ('*('4.(*-'4 .'0$3,$ ("5 ('3(2'
5 $' ' *4(**(' -D(*'0 $.' + ')$(*'4) $3' *'4.$*3('(*!'
0(44(' -+*"'+' 0(*9(+*3(', *"3(2'5 $'3. $,'(**($"-('
' *'$*,(.(,'4+.,$3+$$(.' +$" - '0$(*,' ('4.(*9(' -('+0+*,+D'
9(*2'9(#,(.+ ((*,'. 4+*- '3(*,.(' ('4(4 (c' (','5 (' -+*"
.(,(*- (' (' -(''+' - $*+,$ */ , ,' (' *-(' + +'4$*"
9.+*-(' $)(.,8' - (*' -$.(' 0($,((*,' - ' + ' (* (','5 (*'
,.( ) +*,'(,'+0(3' +'4 "9.+*-('3$.3 *'4(3,$ *'5 (' *'4+. ('
+' - *'4.$*3(:' %

(' .3(+ '(','.$.(' - ' 6+4$,.('XE -("-$'3 ." -(' +()$'6D'
J ' .' (" -(3+-(" -(' $,(! $0(/ $*,$, (7 & *'4(4 ('(','
?4 "'+9('(,'4 "3 *',+*,'5 **'4.$*3(' :' *''(.+44(('(*'
(' $'+*,'3(' 4+''+9(' -('O ''(+ ' -+*" (' *,.+,' 3$+ / $0'P/
()+4'G ,' +3)$+0(' (,+$,' *' 6 **(,(') (' (,' *') *'
3$, 8(*' *' #($9*+ ,' --' - **(.-(" (*"+ 2'. $'/ $' (*' +'
- **-' -('9.+*-(" +*2%4(4 (' ' ('4. # *-'4 $,$5 ('*%+'('
'5 3'5 (' -(" (3,(." ' 4(.#3(" *'3 .. 4 ' ' :

+' ' 3$-,(' -(" $" -(' +' *',$, ,$ *' -(' +$*,! /+ ' --!'
4+.,((*,' - ' +'!-(! + +$'/ *(.(3(0.+'4 ' *$' (,,.('/ *$'4+!'
5 (,"5 $' *(' ' $(*,'+##.+*()$'7 (('+##.+*()$.+', ,'3('5 (('
(*0(..+'+$$2'+ ,.('+ 3$(,(" - '. 8+ (

"

' K ' %

8 C ' 'FI'G ' 2S

' ' ' BB' B

*' -(' (" '(3.(,+$.(" #+$,' (3, .(' - **(' (,,.('4+.'
5 ((' ('4. 3 .(.!9(*-.+ %!'8*-$3' - ' -(n=+.,((*,' -(' +D"
4.(0$(*,' ''( )$(('5 % (' + 0+$" ,(4"+'#+$,' .((, ' +'
3(.- *$(' -(' +',.+*' +,$ *' -(' +$.(+Q-(+$* :' ± A

41'5"?1,?,6 7 ,<'>.' %K,<;:.8'5.'>7 , .7'6? -'<7
.671.<>4N' R' 8' ' JJ'T

U' '') (('*+,$ *+ (/, *'$-(.>,'5$$(*'(2(3 ,$ *' F('
' *' - 3.(,' -(' $*' -(.*$(.'$' - $,' -,.('#+$,' -(+$*' *'+44('
* $*+' -('(" ( ).("4 .'3 **+$,.(' (" +O'(*,'/ -$3. ,('
F (' +'',+*3(' -(' -(+$*' BW '(.+' $*-$5*(('4 .')+$,'6(.('/
4-+U ,.($ (.,($$' $$,'63 .("(,' -(*$ ('7 5 (' +44(,' * $1
*+'3 (*3(.+' +' -$2'6(.('/ (,5 $' '(.+'$ 4.$ ' *(' $',(%'_
-(" ( ).("4. (*,'/(,' *(' $',(' -("+)'(*,'/ (,'5*(' 3(,,('
-(.('(.+'(*0 8(('+ '3 $,8' -("#$*+*3("36+.9-' -(' - !'
0.(.' -(" +*-+,"2' ' (" -(4 ,(' ':

4E'5.'1'??,17' >.' % #' / 468'5.' >;;1.7 64 -'<7 .67
1;<> N G

' ''( ) ('+,$)+B(/ +$' (.+44 .,' -(''('3 $''+$.("
* "4 ' (2+ (*' -(' . .9+*$'+,$ ' -(' +'3+$''(' -(' (2!'
,.+ .-$*+$$ (/ (,' -3' '("3 $''+$.("* "4 .' ' .0($ (.'
+-$,('3+$ '(/ - 3.(,(';

:' +.' _/ (") .(+ 2' -(' +- $*$',.+,$ *' -(' +'3+$''(' -('
(2,.+ .-$*+$.(/ ' " ("3 $''+$.("+- 4',.+,(.'/ '(!'
. *,'3 4 '("36+3 *' - **'4.($(.'3 $'/ (,' "3($D3$'
-('3 $" (24$ -$,$ $+$.('/ - *,' ,(' *) .(' (,' (" +44 $*,'
,((*," '(. *,' -(,(. $*(" 4+.' (' 3 .+ $''+$.(' +- $*$',.+!'
,(*./D+ 2'3 *-$,$ *"4.('3.$,("3$%,4. '

:' ' (' 3 $''+$.(' +- $*$',.+,(.'*('4 ..+' - *$$(.'2'
+ 3 *' -(''("3 $"4 " -('E/I I I' $0.("4+.'+*/' $,'(*' +4!'
4 $*,((*,'/' ,' -('9.+,$#$3+,$ *I'$' *('4 ..+' - **(.'2'+*!'
(*'3 $" $*" -(' B/EII' $0.('/ *$' +' + 3 *' (24 -$,$ *!'
+$.(' $" -3' /WKO? $0.(" 4+.'+*/'3*'+44 $*,((*,"#$2('
± 'BB'(.+.($"+*'3 $''+$.('+- $*$',.+,(./ C4 .'
b"+44 $*,((*," -("3 $" (,' ("9+9(" -("9+. *" -(')4!D
3+$./ *(' (' -('PI/EPP $0'E' ' ' -;'4+. $"<PHI/I I I' $0/
4+.'+*?'WD .' (" (* '!(*,.(,$(*" -("3 $'/ 4 .' (*!'
,.(,$(*' (,'#, $" -(") .(+ 2/ 4+4$(./) $'/ ., $(.('/ 4 .'
(*,.(,$(*'(,'9+9(" -(" -(2'4 .,$(.>' -(' 6 ,(/ +' 4+$(' -("
' $"('5 $'9+.-(*,' (*,. (' -*') .(+ ' -(" 4+$((*,'/ (' #(*'
-("3 .4" -('9+.-('4 +3("-+*"+'3 .' -(' 6 ,(' '**(' ' (

-(' `HXI' $.'4+.' $"<FI/I I I' $0'4+.'+*?/ *'3('* *'3 4.$'
("#.+$" - $ 4.('$ *D'4 ',(/ ("+9(.$(/ (*0 $' -(" .(9$',*'
-+*" ("-$',.$3,''PC .' ' *',.+ ,((*,'4(.' **(' +' ' *'
-(=R/< P $0' I' ' 'E -D'4(.' $"<PX/I I I' $$0' 4+.'+*?' -$,'
,. $" ' ("# *,'(*'( ) ('P /G ' $0'BP' ' 'F - '4+.' $'/'
FFI/I I I' $0'4+.'+*/7:' D

<1'5.'1'??,17' >. % 4?,-78' 1 66. / 0575.' > .E.'
5.6' > 6?,'7 ,<6'64 -'<7.6N

0' ! ' :%' 6+3 *' -(" '$2',.$)**+ 2'3.$ $*(" 4. $' $.'
,+) $" +' +.$"(*'0(., ' -(' +' $' - ' ' +," BHTB ('+ , $$'
+' * (.' -(2'34 * \!9.(##$(."4 .' $*f,.+3,$ *' -(" 4.&
3 "3.$ $*('

: ' ("3 $"9.(##$(." - *,'$ 0$(*,' - (,.('4+. '+ $ $'
4 .' (',.+$,((*,' ("-(2',$(."-('3($'+,.$) ' +*' 9.('
(.7 (', ,' '.+$' *' -(' +' - . (' -(' (.' '(.0$3('4. ' ('-$'
,.$)**+ 2'3.$ $*(' ' D

:' ' ("+33 '+,(."4) $3"4.(" ("'$2',.$)**+ 2'+*. $ '
*(' *-(*$,8' 9+ ('+'3((' -("3 $''+$.(" - '. $/ -(' f(.!'
0$3('+ 4. " -('-$,",.$) *+ 2/ 9+ ((*,' '.+$' *' -(' +' - D'
. (' -(' (.' '(.0$3('

:' ' ("+33 '+,(."4) $3" -(",.$) *+ 2'+ . *,' ('$*!'
-(*$,-' -9+ ('2 +' -' -('3((' -("3 $''+$.(" -'+' . $/
4 .' ,' (',(4" -(' +' -*.-(' -(' (.' '(.0$3(' :'

' 5 9 B ' I' .16,:<.' <5J<,1.' =4.'
% -.V1 .1' " .7.' .<-,V.' ?'1' 5.' 1, ' '4?1 6' >.'
% #,<>.8' ?,41'54' <,7 5 .1'5.' >>;1.7>;' 66.1 05>.'
<'5 ,<'5.8' =4'54' .<Q, <7 >.'6 .5, J<.1'>.6' E1,<5 .1.6%
% 4-.V1 .1'6 .67'1.<>4' " ,1/ 68' > ,4' 5' " . .1 7=4.'
% .?<>.' 54' ' -' 5' > 7 &Q4 S 7' 7 ,05 J.'>.' .'1.<>1.' "
#,05.<508' ?,41'6.' ;,<;.17.1' ' -.;' % > 15, 6% 5' 6 .67
1.<>4' " #,05.<50I' .7' >.?4 6' 1, 6' 6. / ' <.6' 5' < " ?'6'
>,<<.'>.'6.6'<,<-.55.6% .6'5.771.6'?'17 ;45 .1.68' -.M
<4.6'>.' 'V.?..'.7'>.'#,05.<708' .7 / ` /.'>.'K14@.5M
5.6'8' '<<,B;.<7=4 5' " .7.' '11 7.% .'?1 .' 66. / 05>.'
>.'?1.<>1.'4<'?'17' ' ';.7' . J'1>%

'8 'N #.4@=4' <7 / ,<71.'4 / .'E.1 / .7>' < '
01'<5'05.'2'1 ?1 / .1' 7,46'5.6' '77.<7'76' ;,<71' ,1>1.'
?405 ;8' / .771,<7'5' ' < `<.'E.1 / .7.' " 1.?1 / .1' 7,47.'
<6457.' .7 7,47 '77.<7'7' . ,<71.'5.'>1, 7 >.6' J.<6' .7' ;.<M
71.'5"> J< 7.'<'5 ,<'5.% .>.< '?>.'>,<.'=4.' % ,<7'
/ ,1 <'6, 5' <- 7.' '6.'1.<>1.' " 66. / 0 .'?,41'<,46'
1.<>1.';, / ?7.'>.6'E' 568' 'E <'=4.'<,46'?4 66 ,<6'?1.<M
>1.'>.6' / .641. ';,<-.<'05.6"'5" / 'Q.67>>,5'<'7 ,<'
E1'<J' 6.%' & ' '??5'4> 7%P' ' '

%'8 "?1,?,6 7 ,<'>.' '<>7.' .67'> 0^PE>0I' ' F

% 7 L8' '4' <, / ' >4' ;, / 7.' >.% Q<'1 <;%N' ,7 .'
;, / 7.'>;'5" / '1 <.8' -'<7'>.'V,<6'?1,?,6.>'>.-.4< E'
'4@' >. ?'15. / .<76' >.5' ' J4.11.'7,46'5.6'1. J / .<76' >.6'
;,5,< .68' .7'5.6' '471.6'71,4?.6'69 >...?'1'5.'>.?'E7' '
/ .<7'>.'5" / '1 <.' .7'>.67 <>.6' "5.41'4.E.<6. ,'.1' '>.M
-, 1' -,46' >;-.5,??.1'5.6'2P11<; ?'4@' / ,7 E6' =4'E 0<E'
>.7.1 / <.%' ';.77.' 6'J.' / .641.' I' 5' -,46'6.1' ' E';5.8'
> '?1E.6' =4.5=4.6' >;5' 1; 66. / .<76' = .' .' 6' ,46'
>,<<.18' ' '??1>; .1'5" > EE.1.<;.%=4' .@ 67.' . 71.'<<'
J,4-.1<. / .<7 '10 51' 1.' .7';.54'%=4' < " = .'5.6'5, 6'
.7' 47 5 7>' ?405 =4.'?,41'J4 >.I'>'<6' 4<' -,46' -.11.0'
5.6' / < 671.6' ;:.1; :'<7' 6'<6' ;.66.' " '<J / .<7.1'5,416'
?,4-, 16' .7'5.41' <E54.<;.8' .7' >'<6' '471.' -,46' ;6'
-.11.0'6.'0,< .1' " ;@.1; ;J'>.'5.416'E,<;71,<68' .7'1. '
>,47.1' ;.77.'1.6?,<6'0 5 7.'=4 8' J1>..' " -,71.' .5 .1J .8'
<.6.1"?'6'4<'>. .1.7' 55 6, 1.% '4<.' .?,=4.=4 < ;67
?'6'71.6'1. ;45>.8'5.6' ;5,< .68' .<'7. / ?6'>.'?' @8' 1 ' '
-' .<7'> '4' 1.'J'1< 6,<=4.'5.416' / 5 ;.6' .7'5.416' ;, 5 '
?'J< .6'E1'<;:.6'=4'V .7' .<7'>7'05 .6% 4' / , / .<7'>.'
5" J4.11.8' ,<'V E' 6' 7'?'66.1'=4.5=4.6'71,4?.6I' / ' 6'
'-'<7';.55.'=4' " .4'5 .4' .< (8'5.6'1.J / .<76' >.'5 '
J<.' '-' . 7.7.d71E.61'1. / .<7.1'?5,V>6' ?,41'5">.E.<6.'
>.'<,6' ;,5,< .6% 546 .416' ,E ; .16' 64 66.6' ?1,?,6E.'
1.<7'> .<71.7.< 1' " ' <7 , / <J4.' .7' "5" ,4 6 '<.'
>.6'1.J / .<76'=4 56'>.-' .<71.;147.1'>'<65.6'#'<7,<68'
.7' 56' .41.<7'5.' ;1.> 7' > ,07.< 14<.'#'?'745'7 ,<'7106'
,< 1.46.'?,41'5"<'7 ,<8' ;'1'5.416' .<J'J. / .<76'?,1 '
7' .<7'=4.'5.6'1>J / .<76'6.1' .<7' ;, 67' / / .<7' .<71.'$
7.<46'641'5.'? .>' >.' J4.11.8' .7 56< ,405 .1.<7?'6>;'
65 ?45.1'=4.'5.6' 1.J / .<76' 6.1' .<7'7,4 ,416'?'V.6' '<

; , / ?5.7% .'<.' '7 J4.1 '?'6' 66. / 05 .'>.6'>.7' 56'
>.'7,<6'5.6' '046' = / ' ,<7 .@ 67.' ''; .7 .J'1>%

.' / .' ?.<<. 571' '6.45. / .<7>.'54 ' ; 7.1'4<'E' 7'=7 '
64EE51'?,41'E @.1'6,<',? < ,<% <' ;1' J< 7'4#'? H1'<'
;' 6'=4.5=4.6' / ,4-.1'.<76% .'J><>1'5' ;147'>.'6''?14M
>.<;.8> V.<-,V.15.1>J / .<764 66.=4 '>7' 7' .<J'1< '
6,<' '4' ,17 '< 1 <;.I' '54'>,<<'' ,1>1.'> .< ?5,V.1'
5'' ?546' .@71. / .'> 5 J.<;.I' 5' '47,1 6''1'.1'.'1,EE ; .1'
=4 ';, / / '<>' 75.'1.J / .<7>.'?1.<>1.'>.6'
-, 741.6' >4' ?'V68' ?,41' '.;>5.1.1' '11 1. .'>4'1>J0'
/ .<78' #.6' -, 741.6'<.'?.4-.<7';,<7.< 1'=4.':4 7';, / M
<.6% 0'0 .<E'; <=';'0 @ =.76';,<>4 6' .<7'4'#'?7,47
5.1>J / .<7' 64 66.8' =4 '>7' 7' ; ,<67' / / .<7 ?'V>'4'
;, / ?5.7'4';,5,<.5 ?1,?1 .7' 1.8' =4 '>7' 7' .<'H1'<;.8'
.7'=4 '6.45' >7' 7';:'1J.'>4' 1.;147. / ;<7 .7'>.' .<71. '
7 .<'>''1.J / .<7'=4 '6.1-' 7'4@';,53< . % .6' / < 6'
71.6'>.'5'' / '1 <.'6.'64;;.>'<7'1'? >. / .478' .7';0';4<'
> .4@8' 64 -'<7' 46'J.'1.;48' 345?<7' <<,-.1'641'5.6'
>7'0 . / .<76'>4' ?1>>>;.66.418' 5' - <7'>'<6'5''7.7.'>.'
% K, 66.6'> '-, 1'4<.''1 <>.' '' 6.6' ,1>1.6% .'<1 4 671.'
>.' 5'' J4.11.'>7' 5'E'7 J4.'>.' .<-,' .,<7 <<;5' >.'6.6'
1>J / .<76'>'<6'5.6;,54< .6I' '<.' / 5' '4;4<' ,067';5.'
'<'?1 / .7'>4' / < 671.'>.'5'' / '1 <.8' .7';.'>.1< .1';1>''
5.6'> 5 / 1.<76' ;,1?6'=4 '6.<7' / ' <7.<'<7'>'<6'6,<'>>'
?'17. / .<78' #.77.'6>?'1'7 ,<'>.6'1.J / .<76'>.6';,5,M
< .6' >G'-.;' 5.6' 71,4?.6' >.8' 7.11.' >,<4.1' 7' 5 .4' ''
>.6'> EE5;457>6' ;,<7 <4.55.68'1.5'7 -.6' '1'<; .<<.7>'.7'
' '-'<;. / .<78' ,471.'=4 .55.' .67'71.6'> 6?.<> .46.%

' # !' !) !' !' ' ' +#!' # '% #'
' ' !$!' ,# ' !' # '= ') % '
! ('+#'! ' ' # !' !' ' ! & !)!' ! ' = &! '
) * ' 3 # ' !' #% ' % # ' &# ! ' !'%)!'
+#' ' = ' ' ') & ' !')! ' ', = &! ' !'
!! # !&! ' ')! ' # ! ' !$ ' ! +#!' #C # '
' !'))! ' %!)' !' !# ! ' !')!' !' ('+#C'
) > ' ! !'# ' !))'# !' ' ') $!'') '<!' '
: ' ! ' #C! <- <# !) '(%F! '+#' , % - & Y'
))# ' !' '+#, '$! '- '! ! -Z *<-) >! <'
! & ! ') - :# ! - ,>)!-' !-! !) '
F A'-C ' ! ! ,! 1 !&! -' ' ! --) Z! '
!'! $ * ' ! ' ' ! ' ')' !YH !! 'C! !F'
=!* -L! [-' $!< % ' !& -D' !' $! &!' !'. '
V ! = =!$! <(H -, D H ! ! <X !# ' !' '
8' ' ! - !C! <'('$O & ! '4! !' ! !' !' '
! !' ! *) ! (+#' ! ' !%! !'# ' ! ' #Y'
=!$! ' $ N- ! ') ! ' !' #%!J' @
=!&! '+#!'<,46'% # ' (! ' & ! ' !' '
=#! !-! !' ' & !' !';,<;.17;1, 5'.<6. / 05.'?,41'
:1'+# ' !' # ! ' !)! !' ' 5'' !$! !' ! ' $@
$! ! F') ! (-! ' ! '1>J / .<76' !' !% '! !' '
! ' ')! ' > ' +#!' ! ' # ' ! !!' !'
!& '+#' ! !' & '(% # ' # !9' ' !$$ ' #'
! ' *# ' 'Q.'% ! ' !'% # ' !

J' , 1.';,< 7>' / 5 7'Q1.' -,46' ?1.6.<7.1''5.6'> 6?,6 M
7 ,<6' > .@. ;47 ,<% .'#, / 7>' >.' / '1 <.'6.'0 ,1<.' ''
-,46' ?1,?,6.1'>.'>>;1. 7.1'5.'?1 <; ?.';<' ;.6'7.1 / .6'

U' 'b ' ('.+$ (*,''(,')+,*$ *''(*$+ 2'-(''$ ('-('
.+*3('(,'-('' *.) *' *-$36 .8' .,!+ ! .$*3(' - ' +4'
+' +.,$*$5 (' ' +' +-(4(' +' $+*(' - #.$5 (' +$ '
$(..((,' $5 (*' (')+,+$ *'+*2$ $+$.('+$*'$'5 (' +.,$ (!'
.$('-(''3 *$('',' (''$2'3 4+9*$('' -(' $4+8(''-(' *- '
6 .8/(,', ,(''+ ,.('',. 4('' - ('' (4 8((''' +'-(#(*'('
(''4 ''('''$ *''*+,$ *+ (''6 .'' - '. 8+ (' '(. *,'-' +.(!'
.') ' +'-$.(3,$ *'- '-$4+.,(*+ ,'-'' +'9 (..(

:* ' ('3 $,(' $'$,+$.('4.('(*,(.+'$*3(''+ (*,' ('' +.,$!'
(''*-3(''+$.(''4 .' +'.($'('-(''$)*-''5 (' (' - 4+.,(* *,'
(' ' +.$*(' - $,'$+$.(' + ' - 4+2,(3*,' -(' +'9 (..(' 4 .'
(*,.(,$(*'-(' ',. 4('' (,'4 .'-(,(. $*(.' ('.+*9'5 (' (''
@3$(.'' -(''3 *$('' - $0(*,'4.(*-.('-+*+ + $((D':K

#.'?1,Q.7'>.'>..1.7'.67''>,?7 /' 8' %

% .1< .1'?1.6.<7.''4'<, /' >4' ;, / 7 '>.6'E<'<'
.68'641' ,1J'< 6'7 ,<'>.' 5'' 71.6,1.1 .' :'7 ,<'5.8''<'
1,Q.7'>.'>>;1;7'=4 '.67''>,?7.'.4';.6'7.1 / .6'

' 'K # %

'5.1% +'-E ' ' & ' ' ' ' '
' ' ' ' ' ' ' '
' ' '

. ' DG% '6.1''>7'05 8'6,46'5.6' ,1>1.6'>4';, / / 6'
6' 1.'>.'5''71. 6,1.1 .8' 4<'041.'4'>.';,11.6?,<>'<;.''
5'' 7 7.' >4=4.5' 6.1'' 4<'?1. / .1';, / / 6' =4 ' >1J.<'
7,47';.'=4 ' ''1'??,17' '4' -.16. / .<7 >.6',.< .16?1,'
-.<'<76' >.6' ;,<71 047 ,<6' > 1.;7.6' .7' <> 1.;7.68'6,5
=4.';.6' -.16. / .<76'6, .<7'E' 56'?'1' 5.6' 1.;.-.416' >&
' 671 ;58 ,4'?'1'>.6'1.J .6' ,4' '> / < 671'7 ,<6';:'1J` '
>.'5'' ?.1;.?7 ,<'> / ?,6 7 ,<6' <> 1.;7.6% #.'?1. / .'
;, / / 6'?1>?'1.1'' 5'' ;,11.6?,<>'<;.'>4' ;0, 7.' '-W
5.6'> 1.;7, 1.6' >.6';,1?6' '> / < 671'7 E68' '-.;'5.6' /'
< 671.6'>.' <7. .41' .7'>.6';,<71 047 ,<6' ?405 =4.6'
'-.;'5.6'1.;.-.416'>.6'> 671 ;76' .7' '471.68' .7'?1,Q.77.1'
5.6' / . / , 1.6' .7'1'??,176'?,41'5.';, / 7.%

% .6'041.'4@' ?'17 ;45 .16I' ;1. .6' '4' <, / 01.'>
=4'71.8'?'1'>.;1.7'>4'C('6.?7. / 01.' (* 8'6.1,47'?,7
7.6' '4'<, / 01.'>.'; <=8' .<71.'5.6=<.56'6.1,<7'?'17'J.'
5.6' =4'71. - <J5 71, 6'>. ?'17. / .<76' >4' 1,V'4 / .% '
;,<6 67'4';.' >.' ;.6' 041.'4@' .7' 5'' >.<, / <'7 ,<'>.'
. / ?5,V.6' >,<7' 56'6.1,<7';, / ?,6.6'6.1,<7' @..6'?'
.7'7 '<<.@.''4'?1.6.<7>.;1.7% &' .;1.70%P

% .6'0, >.1.'4@'>.'1.;.57.'.7'>.'>.?.<6.'=4.''
1.;.-.41'>.';:.=4.'> 671 ;7'>, 7'E' 1.' - 6.18'5.'>.1<.'
Q,41'>.';:'=4.' / , 68' ?'1'>.4@' / . / 01.6'>4' >1.'
7, 1.8';,<E,1 / . / . 7''H'17 ;5.' '' ''' >.'5''5,7'>4'C(U<'
-. / 01.' (* 8'6.1,<7''>1.66.68' ?'1'5.6> 76'1.;.-.416'
> 1.;7. / .<7'4@'., / / 66' 1.6'>.'5''71>6,1.1 .8'?,41'
> '?106' .@' <.<'4=4.5' 56'6.1,<7'6,4 / ''>'<6'5.604
1.'4@';:'1J.6' >.' 64 -1.' 5'' 1.<71.' .7' 5.' -.16.< .<'
>.6' / ?,6 7 ,<68' .7641'5.'1'??,17'=4 '.<'6.1''E'7''
;, / 7.'>.'71>6,1.1 .8' .71.' ,1>,<<.';.'=4 5' '??'1
!

$ ' .6'1.J .68'5.6' '> / < 671'7 ,<68' .7'J>,.1'5.<.<'
7,46'5.6';, / ?7'05.6'=4 ''41447'>.6'-.16. / .<76''E 1.'
6, 5''4'71.6,1'?405 ;8'6, 5'>'<6'5.6;' 66.6>.'>671 ;7
'>1.66.1,<7'>.' / ` <.'> 1.;7. / .<7'4@';,<4< 66 / 7-6>'
%5471.6,1;1 ;'>.6'0,1>.1.'4@'>'46'5''E,1 / .' .7'4@'.?;
8'=4.6' =4' ;41'6.1,<7' ?1.6;1 7.68' .7' 5.41' E,414 14 '
%7,465.6';;5' 1; 66. / .<76'=4 '5.41'6.1,<7%>. / ''>.61.'
5'7 -.4 .47'4@> 76'-. 674B.<56%

% <>. ?.<>' / / .<7 >,'5'' ;, / ?7'0 5 7>' ;.<51'7.'
>,<7 .7'05 66. / .<7' .67' ,1>,<54 '?'1'5.'7 71.' '>.5
;, / ?7'0 5 7.'>4'?1.6.<7>.;1.78' 5'6.1''.7'05 8'>'<6';:'
;4<.'>.6'; <=' > - 6 ,<6' >4' 041.'4' >.'5''1.<71..'>'
/ ?,6 7 ,<687,<6'5.6'5 -1.68'Q,41<'4@',71.J 671.6'4@
5 ' 1.6'=4 '6.1,<7'Q4J.6' 4.;.66' 1.6'?,41'=4.'5''674
7 ,<'>.6' 1.;.-.416' .7' ;.55.' >.6' 1.;,4--. / .676' >'7
;:'=4.'> 671 ;7' .7'>'<6';:'=4.'>.?'17. / .<7' ?466.'
>71.'';:'=4.' <67'<7';,<<4.6' .7';,<67'7..6641;:'='
<'741.'>.'?.1;.?7 ,<%

8' #,<E,1 / >1'.<7' ''H'17 ;5.' '' '' ' >.'5''5,'>4'
<,-. / 01.' (* 8'5.6'> 1.;7, 1.6' >.' > 671 ;7' ->15 .1,'
7, 6'5.6'6 @' / , 68'> '?1.6'5.6'=4 77'<;.6'>.5 -1..6' '7
1.;.-.416'>.'., / / 4<'47>6' .7''; .4@'>.6'.,<71 0<7,'
<> 1.;7.6'?'1' 5.6'1.;.-.416' >.' > 671 ;78' 6';.6'1..'
-.416',<7' .<1.J 671.' .@';7. / .<7 .7'''5''>'7.'>.6'=4'
7'<;.6'?'1' .4@'>.5 -1..6' 7,46' 5.6'?' . / .<76'=4 '5.'
'41,<7' .7.'E' 568

.6'> 1.;7, 1.6'>.'>. ?'17. / .<7 7 .<>1,<7'5'' / '<
;.'=4.';.6' -.1 5 ;'7 ,<66, .<7'E' 7.6' '4@'>?,=4.6'E@.'
? / 1'5''5, I' 56'6 .<'E.1,<7'1. / .771.'5.6'1. 6457'76'?'1'
> 1.;7, 1.6'>.'> 671 ;78' .7' 5.6' 71'<6 / .771,<7' '4@';,<
/ 66' 1.6'>.'5''71.6,1.1 .%

' % 5'6.1''>, / .';,<<' 66'<;.8''4'041.'4';.<5'
>.'5''1.<71>.'>.6' / ?,6 7 ,<68' >.'7,47.6'5.6' 1.6;12
7 ,<6'>.'6.1- ;.6' .7' '471.6'=4 '6.1,<7'7 1.. ''641'5.61'
..-.4?6>.'> 671 ;7I' 5' .<'6.1''E' 7'>;1 741.I'%

' % ,<6' 5.6'>.7' 56'1.7'7 E6' 45'' ;, / ?7'0 5 1>'
1.;.-.416'>.'> 671 ;78' .7' '471.6' ;, / ?7'05.6' .<-.16

*d

71 6,1.<.'<'77,<' .8 6.1,<7 64 - 6>'<6 5.'K41.'4 J.M
<.1'5>.'5" 1.<71 .'>.6 BYRP,6 7 <68 6,46 5.6 ,1>1.6
>4 ; , / 7< 66' 1.>.'71 ,1.1 .8 .7 5,61.6457 76 .< 6.1,<7
1. / 6 :'0 74.55. / .<7 6,46 E6 V; @ >4 ; , 4 7.'>.'71
%6,1.1 .' ?'1 5.' ?1. / .1 ; ,<< 6 >4 041.'4 J.<.1'5%
.6 E,1 / .6>.' ;.77.' ; , / ?7'0 5 7.'6.1,<78 '4 641?5468
?'17 ;45 .1.4 .<7 > 7;1< 6 ?'1 44 >.;1.7 >.' 6
6.< 05..'<'5 ,<'5.%

"% .'6.1- ;.'>.' .@.1; ;.' (* 8 ?,41 5.6 / ?,6 M
7 ,<6>1.;7.6>.6 ; >.-'<7 ?'V6 > .5.;7 ,<6 .7 ; ,<'
=4 68 6.1" ; ,<7 <4.' .7 ' ;.-.' .<5" E,1 / .'1>J5..'?'1
5.'>;;1.7 >.' 66. / 05. .'<'7 ,<'5.' >4 C('>.;. / 01.'
(* % .; , / / 66' 1.'>.'5"71 ` ,1.1 .8 ; :'1J.'>4 >>'
?'17. / .<7 >.6 1. ; .77.68 / .771" 6, 56 5.6 V.4@ >4 #, '
/ 7>'>.'71>6,1.1 .8 "5" 7 <>.' ; :'=4.'6. / ' <.8 >0 7
>.6 V.16. / .<76 E' 76 ?,41 ; :' ;4<.'>.6 ; >.-'<7 JQ '
4.1'5 7>68 .7 5.'0,1>.1.'4'>.'6 74'7 ,<'>.'5" ;' 66.%

- '% '&' ' ' '

. ' #,<E,1 / / .<7 '4@ > 6?,6 7 ,<6>4 >>;1.7
>4 ' / '16 (* 8 5 6.1" .7'05E >.4@ ;' 66.6 ?1 <; '
?'5.6 ?,41 5.'6.1- ;.'>.W1.;.77.6>.'5" 71.6,1.1 .'<''
7 ,<' .%

4<.' ; :'1J..' >.'5" 1.;.77.'Q,41<'5 1.'6.1" 7,4 '
Q,416 ,4-.17.' ?,41 1.; .-, 18 ;7<.E.1"Q' / ' 6'4;4<
?' . / .<7 >;'>.7' 5%

'471.'6,46 5.'<, / '>.' ;' 66.'J.<>1'5.'<.'6.1" Q'M
/ ' 6 ,4-.17.'=4 .< ?1.6.<;.'>4 ; , / 7.'>.'71>6,1;1 . '
?,41 1.; ; -, 1.7 ?,41 ?'V.1 .< / '66.%

% ,41 .@.;47 ,<>.6> 6?,6 7 ,<6?,17>.6 .< ''1M
7 ;5.'?1.;.>.<78 5 6.1" .7'05 '4<#' 66 .1 J><>1'5 ; , / ?'
7'05.8 4< ; ' 66 .1 >.6 1.; .77.6 Q,414'5 .1.68 4< 6,46 '
;' 66 ;1 6 J<'7< 1.'>.6 1.6;1 ?7 ,<68 4< ; ,<71>5.41 ?'1 '
7 ;45 .1 ?,41 5" 1.; .77.' ,4<<'5 .1.8 4< ?,41 ; .55.'>.6
1.6;1 ?7 ,<68 ;7 .<,7 71. .'<, / 01.'>.' ; , / / 6 =4 '
6.1" >>7.1 / <> ?'1 .7'7 '<<.@.' '4 ?1.6.<7 >;;1.7
?,41 5" 7.<4.'>.6 5 -1.68 .7 ?,41 5" ;,<E.;7 ,<'>.6
.'768 0,1>.1.'4@ .7 '471.6 .;1 741.6% ,47 G6 '471.6
;' 66.6>.'1.; .77.' >.?.<>'47.6 >4 71.6,1 ?405 ;'6,<7
.7 >. / .<1.1,<7 64??1 / ..6 .7 1.4< .6 "5" ;' 66.'>.'
7...75.'Q,41<'5 .1.%

% <>.?.<>' / / .<5>4 ; ,<71 5.'?'15 ;45 .1;@.1;.'
?,41 5" 1.; .77.'Q,41<'5 .1.'.7 ?,41 ..55.'>.6 1.6;1 ?M
7 ,<6 8 7,47.6 5.6 ,c .1'5 ,<6 >4 71.6,1 ?405 ;' .1,<7
; , 71>5..6 ?'1 4< ; ,<71 5.41 J.<.1'5 >.6 ;' 66.68 =4 '
'41" ; ,<<' 66' ; .'>.'7,47.6 5.6 1.; .77.6 .7 >.?; 6.68
.7 =4 '. '7 . >1" 1,J 671.%

% .6 1.; .? 66.6 6.1,<7 6 J<>6?'1'5.' ;' 66 .1 J.M
<.1'58 ; ,< / .'6; 5 ; , / ?7'05.N <' 6 56 <.'6.1,<7 -''
5405.6 =< '45'<7 =4 56 '41,47 >7.'- 6.6 ?'1'5.' ; ,<71# '
5.41 J.<.1'5 >.6 ;' 66.6%

% " ;' 66.'J.<>1'5.'6.1" E.1 / >.'>.'71, 6 6.1141.68
''V'<7 ; :' ;4<.'5.41 ;5.E&a 17 ; 5 .1.' .7 <>.?.<>'<7.f
4<;'6.1" 1. / 6.''4 ?1.6 >.<7 >4 < , 6I '471.'4 ?1.M
6 >.<7 & < / , 6 ?1. ; .>.<78 5" 71, 6 . / .'1.67.1" '4 ; ' 6M
6 .1 J.<.1'5% #.77.' ;' 66.' 6.1" ,4-.17.' '466 '6,4-.<7
& 4 5 6.1" <; ; .6] ' 1.8.7'4 ,<6 5<.'E, 6 ?'1 6. / ' <.8
" .EE.7 > V E' 1.'5.'-.16. / .<7 .< / '66.'>.6 E,<>6 <>'
; .66' 1.6 ?,41 '57< .<7;1 7.6 ;' 66.6 >.' E5671 047 ,< .7
>.'> 6?.<6.% " ;' 66.'>;'1.; .77.'Q,41<'5 .1.'6.1" E.1 / >.'
>.'>.4@ 6.1141.6 'V' 7 .J'5; <.<7 >.4@ ;5.E6 ?'17 ;4 '
5 .1.6 .7 4>.?; / 5' 7;6I 4<.'1.67.1" .<71.'5.6 / ' <6
>4 ;' %66 .1 J.<.1'58 '471.'.<71.'5.6 / ' <6>4 ; ' 66 .1
>.'5'1.; ;77;'Q,417 '5 .1.% .6 E4<>6?1,-,<' 76>. '1.6 '
;1 ?7 , 6 &f4 '41,47 >7> >>5 -7>.68 .7 7,46 '471.6 V
6.1,<7 1;<511 / >6 7,46 5.6 6, 16%

% .' ;' 66 .1 >.6 1.6;1 ?7 ,<6 6 J<.1'8 641 5.'- 6"
>4 ; ,<71>5.41 ?'15 ;45 .1 >7'05 ' ' ; .7 .EE.78 5.6 1.6 '
;1 ?7 , 6 >.'6.1- ;.' 4 '471.6 =4 '54 '6.1,<7 >. / '<'
>>.68 '?1.6 5,47.E, 6 6 >71.' '66 1>'>.'5" 6 74'7 ,< ?'1
'?.1Q4 >.' ; :' ;4<.'>.6 ;' 66.6>.'1.; .V.416 >.'> 671 ;78
8641 ;6= .55;6 5.6 1.6;1 Q 7 , 6>;-1><7 >71.'.@Q >> >.6%
.' ; ,<71>5.41 >.'5" ;' 66.' >.6 1.6;1 ?7 ,<6 E,1 / .16
Q,41 ?'1 Q,418 > '?1>6 5.6 ,41<'4@8 4< 0,1>.1.'4

>,405.'>.' ; .55.6 =4 ''41,47 >7>.@?. > >.6I 5 1. / .771
<<'>? ; .6 0,<5.1.'4@ ' ;' 66 .1 J.<.1'5 >4 71>6,'
?405 ;8 =4 '.< E.1" 7; Q1 1.J 671.% 4 ;'6>.' '5'>'
,4 . / ?>;5 . / .47 >J 7 / .8 6, 7>4 ;' 66 .1 6 J<'5' 1
>.6 1.6;1 ?7 ,<68 6, 5>4 ; ,?7 >5;41 ?'17 ;45 '1 ; :'1J
>.'5.6 - 6.18 5 6.1" ,<1-< "5.41 . / ?5' ; . / .47 ,4
/ .<7<<>641 5"?1. 6.<7'7 , '>4 ; ' 66 .1 J.<.1'58 .7>
; ,<71>5.41 J.<.1'5 >.6 ;' 66.68 97 5 6.1" >,<4>' ' / '
6 7>7 '- 6>.' ; .'1. / ?5' ; . / .<7 ?'1 4<.'5.771.'> ' ; , / 5
>,'71.6,1.1 .''4@ 1.; .-.416 >.'> 671 ;7%

% .6 .<-, 6 ,4 1. / 6.6 >.' E,<>68 .EE.768 ,
G5.#71.6 >.' ; :'<J.8 ' 7 6 '=4.'>.6 ' ;=4 76 > ,0Q.76 ?'V.'
'5">.; :'1J.' >4 71.6,1 ?405 ;8 6.1,<7 E' 56 ?'1 5.'
1.; .-.416 >.'> 671 ;7 > 1.;7. / .<7 '4 ;' 66 .1 J><.1'
>4 71.6,1 ?405 ;% #.:'=4.'.<-, '6.1" ' ; ; , / ?'J4>'> 4
0,1>.1.'4 ; ,<7.<'<7 ;>>7' 5>.6> -.16.6 -'5.416>,<
.<-, '6.1" ; , / ?,6>% <>,405.'>.' ; ;'0,1>.1.'4 6.1
'>1.66>'?'1 5.6 1.; .-.416 '4@ ; , / / 66' 1.6 >;'5" 71.'
6,1.1 .8 .4 / > / .'7. <?6 =4.' .7'7 >.6 1>; .57; '.7>'
?.<6.6 >.' ; :'=4.'< , 68 / . 7 ,<<>.< '17 ;5.' '>
5 71.'?1. / .1 >.'5" 1.; .77.% % G

% .6 E, >6 6.1,<71. / 68 ?'1 5.6 1.; .-.416 >
; , / / 4<'47.6 .7 ?'1 5.6 ?.1;.?7.416 >.6 >1, 76 <>'
1E.;768 '4@ 1.; .-.416 >.'> 671 ;7 .< / > / .'<'741.'=4 '
5.6 '41,47 1. 46% .6 1.; .-.416 >.'> 671 ;7 > ,<;.1, '
>'<6 5.416 =4 77'<; .6 .7 >'<6 5.416 .<1.J 671. / .<5
; , / / .<7 5.6 ?' . / .<76 5.41 '41,47 > > E' 768 .7 56 c;'
1'<6 / .771, '>.'5" 54>4 .' / '< .1;' '4 71.6,1 ?405 ;'
& 7 ;1.5>%P

"% ,16=4.'5.6 E,<>6 .7 .EE.76 6.1,<7 ?'1-.<46 "
;' 66 .1 J.<>1'58 5 .< E.1" 7.4 1 >;1 741.8 '?1>6 7,4
7.E, 6 '-, 1 E' 7 .'1'??1, ; :. / .<7>.6 .EE.76 >4 0,1>;'
1.'4I ?4 6 5 E.1" ?'66.1 5.'5,47 '< ;' 66 .1 >.'5" 1.'
; .77.'Q,4 / '5 1.8 =4 '6 .< ; :'1J.1" .<1.; .77.%

"% #.:'=4.Q,41 56.1" >, / ;'; ,<<' 66' ; ''4 .,<
71 Q .41 J.<.1'5 >.6 ;' 66.6 >4 / 447.47 >.6 .EE.76 = '
'41,47 ;7> '>1.66.6 '4 ; ' 66 .1 J><.1'58 >.' ; .4@ =4 '
'41" E' 7 ?'66.1 " 5" 1.; .77.'Q,41<'5 .1.8 >.' ; .4@ = '
'41,47 .7;'1.; ,4-1>6 ,4 ?1,7.67.6% S

"% .6 1.6;1 ?7 ,<6 =4 ''41,47 >7>&1..6 ?'1'5.'71 '
6,1 ?405 ;'641 5.6 1.; .-.4 6>;'> 671 ;78 '=4 ''41, I
>>' ' ;=4 77; .6 ?'1 .4@8 ' <6 '=4.'5.6 ? .;.6Q467 5 '
5 -.6 >.6>>?. 6.6 =4 56 441,<7 E'>.6 ?'1 5.6 ,1>1.'
>4 ; , / 7>'>.'71.6,1.1 .8 6.1,<7 ; ,46 >1..6 ; , / / '
.EE.768 .7 1.<-,V..6; , / GY.'7.56 '4 ;' 66 .1 J;'>16
?,41 1.' ; ,4-.17 .6.< 1>.>? 66.6% #.6 .<-, 6 6;1,"
> 67 J4>6 >'<6 5.6 0,1>.1.'4@ ?'1>.6 '17 ;5.6 6>?/ >S

"% .6> 76 ' ;=4 76 .7 ? >..6 Q467 5 ;'5 -.6 >.'>>
?.<6.6 6.1,47 1; 6 ?'1'5.' ;' 66 .1 J.<.1'5" ; .54 '>.'
=4'71.'?'V.416 >.'>>?'17. / .47 =4.' ; .77.'>>E .46.' ; ;4
; .1 .1'8 5.=4.5 .< E,41< 1"6"1.; ,<1' 66' ; .8 .7 6.1
; :'1J.'>4 6, < >.' ->1 5 .1 7,? ;6 5.6 ? . ; .68 >.'E;'
E' 1.' .<1.J 651.1 ?'1 <'741.' >.' >>?.<6.6 .7 >;' 5.
;5'66.1 >'<6 ,1>1.' ; ,<-.<'05.'?,41 '6641.1 .@' ;7'
74>.'>.'6" ; , / ?7'0 5 7.'?.16,<<.55.%

" %#.6 ' ;=4 76 <.'6.1,<7 1.J 671>6 >'<6 5.'041; "
>4 ?'V.47G =4 '?1>6 =4 E6 '41,47 >7> 1. ; , / 46 ?"
54 ' 1>J45 .16 ;7 .< 0,<<.'E,1 / .I >'<6 5.6 ;'6 ; ,<
71' 1.6 56 6.1,<7 1.<-,V>6 ?'1 .' ;' 66 .1 J.<.1'5 '4
1.; .-.41]8 =4 '>. / . 1.1,477,4Q,416J'1 / 56>.'5'-"
5 > 7>'>.6 ?' . / .<76 = 76 '41,47 E' 76 "5" >>.:'1J
>4 71>6,1 ?405 ;%

" % .6 1>.>? 66. '>.' ; :' ;4< >.6 .<-, 6>.6 7.;.'
-. 4 6 6.1,<7 .@?.> >6 >'<6 5.6 041.'4@ ; :'1J.6>
64 -1.'5" 1.<71..'>.6 / ?,6 7 ,<68 > '?1.6 4< >747 >'
- 6.'?'1 >.?'17. / .<768 .7'11>7> ?'1 5.' ;' 66 .1 J;'
<>1'58 ; ,<7.<'<7 5" 6, / / .' 7,7'5.' =4 '>.-1" .7'
><,<.>.'>'<6 ; :' ;4< >.' ; .6 1>.>? 66.6N 56 6.1,1
- 6.6 ?'1 5.' ; ,<71>5.41 J.<.1'5 >#6 ;' 66.68' [.6 =4 '
5.6 '41" E' 7 .<1.J 671.1% .' ;' 66 .1 J 4>1' '5.66 J . '
.<64 7.8 .7 5.6 E.1" 1; / .551;' '4@ 041.'4@ ; :'1J.6
64 -1.'5" 1;471..'>.6 / ?,6 ,<68 , :' 5 .< 6.1" 5.<4
>;1 741.8 ;58> , ' .<-, '.<6.1'0 7 1;0' ;41 '>.6
; , / ?7'05.6% 8

% ' 5' / - ' 7' =4.' =4.5=4E6' .EE.7.' E466.K7?1= '
7.6 6' ,4' =<.'=4.5=4.6' ' ;=4 76' .466.<7' 71,4-.I' 1 '
- 45 .16% 5.' < ,<7'1 7 .<' 6.1'' >.>4 7 641' E4<' >.6' . ' '
-, 6' 6406;=4.<76' E' 56' ?'1' 5.' 1.;.-.418' .7 7 6.1'' E' 7'
/ .<7 ,<' >.7' 5' ..' >.' ..77.' >.>4;7 ,<' >'<6' 5.' 1.;.? 66.'
=4 ' .<' 6.1'' .@?.> >' ?,41' ;.' / / .' .<-, 8' ;<' 5'' E,1 / .'
?1.6;1 7.' ?'1'1'17 ;E.' ?1 ;>>.<7% .6' .EE.76' ?1?7.67.6'
,4' 5.6' ' ;=4 76' 115J45 .16' 6.1,<7' .?' <55 / .' 7. / ?6' 1.< '
-,V56' '4@;, / ?E'05.6%

'' E,1 / 45.' >.6' ?>; 66.6' ;,<7 .<>1'' 7,'Q,416' =?.'
1>6.1-.' 1.5'7 -.' '4@' .EE.76' E' 6'<7' ?'77 .>.' ;<' ; <' >.6'
/ -, 6' =4' ?,411' .<7' ? 571.' ?'6' ' ;,4 77.6' '' 5.41'
.:>'<;.8' .7' '4f ' ' ;=4 76' ==c' '=1' .?5' J7'' Q4J> 'QQ 1 '
Q45 .16%

'' % .' / / .' ,1>1.' 6.1'' ,06.1->' ?,41' 7,47.6' Q.6'
$. / 6.6' >.' E,=>6' .7 .EE.76' =4f ?,411' .<7' 5 1.' E' 7.6' ><'
$.;7. / .<7' '4' 71 6,1' ?405 ;' ?'1' 5.6' '>< < 67 '7 ?<6'
/ ? 76' <> 1;;76' .7' ?'1' 7,46' '47 [' ;, / ?5'05.6' .7'
$.>.-'05.68' .6> 7.6' 1. / 6.6' 6.1,<7' ' ;;, <??J<..6'
N5.' 0,1>.1.'4@8' =4' 6.1,<7' > '0,1>' ?1.6.<7.6' + ' ?' 6'
6 .1' J.<5 '@58' .7' =4' 6.1,<7' .<1.J 671.6' .7' - 6.6' ?'1' 54Q%
' E.1'' .<6< 7.' ?'66.1' 5.' 7,47' / ' ;' 66 .1' >.' 5'' 1 J;.77.'
Q,41<'5 .1.' =4' 6 .<' ;5 '1J.?'' .<' 1.?.77.%

.6' 1.J .68' '> / < 671'7 ,<6' ,4' '471.6' ;,< ?7607.68'
'>1.66.1,<7' 4<' >,405.' >.' ;?' / . / .6' 0,1>.1.'4@' '46'
;, / / 66' 1.6' >.' 5''71.6,1.1 .8' =4' .<' E.1,<7' 7.< G..1 '
741.' >'<6' 5.' 041.'4' ..<71'5' >.' 1..?4V7. / .<7%

' .<' 6.1'' 46.' >.' 5'' / / .' < '< .1.' ?,41' 5.6' 1.J .68'
> / < 671'7 ,<6' .7' ;, / ?7'05.6' 64 ?1 / 6' '4@=4.56' 5'
$.67.' & ,' -.16. / .<76' '' E' 1.' '<' 71.6,1' ?405 ;8

'' 8' .6' E, >68' .EE.76' ' <6' 1.?<6' ?'1' 5'' ;? 66.' >.'
1.;.77.' Q,41<'5 5 .8' 6.1,<7' -.16>6' .<' 8<)66.' >'<6' 5''
;' 66.' J.<.1'5.' '' 7 ? 6' ;5.E68' '4@' >?,=4.6' ?0' ,4-.1'
541.' .<' 6.1'' E' 7.' .<' ?1.6.<;.' >4' ;?< 5.' >.' 71.6, ?1 .8'
' <6' =4 ' .67' ?1.6.<7' '17 ;5.' '>4' <7' 5 71.8

'' ' .' ;?<71 .41' J><.1'5' >.6' ;' 66.6' E.1'' :'0 '
74.55. <.<7' '??.S' >4' -.J 671.' >.' .? 7-,5.' '-.;' 5.6'
,41<'4@' >.' 1...77.I' 5' E.1'' 7,47.6' 5.6' -.1 7 ;'7 ,<6

1'5.%5.6' 1;;.7 6656' >.6' ;' 66 .16' >.6' ;' 66.6' >.' > 671 04M
7 ,<8' ;<' .<>,<<'<71' ;,<<' 66'17;.8' .7' ;6..:'<J.1''
' 5'' E<' >.' 5''Q,4 / ..' ;,<71.' 5.6' / '<>'76' ' ;=4 77>6' ?'1'
5.6> 56' ;8 66 .16f 5' 6.' ;,<;.17.1'' '-.;' 5.' ;' 66 .1J. / 1'
1'5' ?,41' .@.;45 ,<' >?6' ,1>1.6=<' '54' 6.1,<7'> E66.6'
?'1' 5.' ., / 7.' >.' 71.6,1.1 .8

'' ''% S' 6.1'' 1. / 6' ?'1' 5.' ;' 66 .1' J5<.< 5' ,<' ;,<'
7155.41' J <;1'5' >.6' ;' 66.6' <' 0,1>.1.'4' >.7 55.' >.6'
%.EE.76' ;<' 1.7'<5' .7' >.6' ,5Q. 6' ''1;;,4-1.1I' .7' 641' 5.'
1'??,17' =<' .<' 6.1'' E' 7' ?'1' 5.' .,<715E.41' J.<.1'5' >.6'
;' 66.68' 5.' ;, / 7>' >.' 71.6,1.1 .' >.; >.1'' 6 5' V' '' 5 .4'
-5 .<7' / .7' >.6' ?,4164 7.6N' '4=4.5' .'6' _5.6> 76' .EE.76'
..1, 5' 1. / 6' '' 'J.<7' >4' 71.6,1' ?405 ;%

'' ''% ,46' 5.6' 6, 16' 5.' ;' 66 .1' J.<.0 '78' 5.' ;' 66 .1' >.'
5'' 1.;.77.' Q,41<'5 .1.8' ;.5<' >.6' 1.6;1 ?7 ,<6' .7' 5.' ' '
71, .41J. a 1<5' >.6' ;' 66.6' 1. / .751,<78' ;:';4<' >. .41'
; 7.8' '4; , / 75' >.' 71.6,1.1 . 8' 4< 7'5' >.' 6 74'7 ,<' >4'
71.6,1' ?405 ;8' 6 J<.' .7' ;.1 E .' > .4@I' 5.6' 1.; .7 ' .5'
5.6' >.?.<6.6' V' 6.1,<7' ?,17..6' .<' / '66.8

'' '' ' .6' ;, / / 66' ?;6' >.' 5'' 71.6,1.1 .' ?156.<7.1.<7'
<;.66' / / .<7' 4,' ?5'<' 7.4>'<7' '' ' ;.>551.1' 5'' 1.<71..'
>.6' >.0.76' >.6' ;, / ?7'05.6' .7' >.6' '471.6' ;1. '<,.6' >4'
71 6,1' ?405 ;8' ' <6' =4.' ?,41' 5'' 64 7.' >.6' '5E' 1.6.,<'
7.<7 .<6.6I' .7' .<' '771<>'478' 5.'71' 7. / .<7>.' 'J.<7>4'
71.6,1' ?405 ;' .7' 5'' .,<6 674<..' >.' 6,<' 041.'4' 6.1,<7'
?1,V 6, 1. B. 7' 5; 6' .<' ;,<E,1 / 7>' >.' 1? 7'7' ; 1'41'
<.@ %

' ' H %

E0 '1D 8' 0 ' !' ' ' 1 *
' f'8 6Z 0 / ((' ! 0'

.,' D1% a6 7 7' =4.' 5.6' >.?.<6.6' >.6' > ?'17. '
/ .<76' >4 / E 67.1.' '41,<7' / 'E@. .6' ?'45.' ;,1?6' >G
J 65'7 EV' .7=4 .5.' > ;1.7' ?\F <<E

>7>6'<;7 ,<<>8' 5 .<' 6.1'' '>1.66 ' 4<.' .@05> 7 ;<' ?'1'
5.' / < 671.' >.' 5''Q467 ; .8' 7'47' ''.0'=4.' / < 671.' =4 ',@'
;, / < 66' 1.6' >.' 5''71.6,1.1 .%

% '<6' 5'' =4 <0' <.>.' 5'' 1>..?7 ,<' >4' >.;1.7' ?,1W%
7'47' E @'7 ,<' >.6' >5?.<6;6' >.' '<<..8' 5.6' / < 671.6'
>.' ;:'=,.' >. ?'17. / .<5' E?1 / .1,<7' ' E.1,<7' ?'66 1'
'4@' ;, / / 66' 1.6' >.' 5''71.6,1.1 .' 5.' ?1,Q.7' >.' > 671 88'
047 ,<' >.6> 7.6' >.?.<6.6' ?,41' ;:';4<' >.6' / , 6' >.'
'<<..8' .6' ;, / / 66' 1.6' >.' 5'' 71.6,1.1 .' E.1,<7'
7,47.6' 5.6' ,06.1-'7 ,<6' =4 56Q J.1,<7' ;,<-.<'05.6' 641'
5.6' >?,=4.6' >.' > 671 047 ,<G8' .7' >'<6' 5.' ;'6' ,4' 5' 6 .5.
F-.1' 7>.6' > EE ;457 664.' 5'' E @'7 ,<' >.6> 7.6.?,=4.68'
5' .<' 6.1'' 15E. 1.' '4' ;,1?6' 5.J 65'7 E%

% .6' ;, / / 66' 1.6' >.' 5''71 6,1.1 .8' '466 7 7' =<.'
5.6' .?,=4.6' >.' > 671 047 ,<' '41,<7' 57>' ;,<-. 4.68'
E.1,<7' Q,<7.1' .<' ;,<E,1 / 7.' 5.' 5' -1.' >.' ?1,6?.;746%>;6'
> ?.<6.68' ' <6' .7' >'<6' 5,' E,1 / .' =4' 6.1'' , G'?156'
?1.6;1 7.8'17 ;5.' >7' 7 71.' ' 7 .' 5'' ;, / ?7'0 5 7.% 4'
;4<.' >.6' > ?.<6.6' ?405 =4.6' <.' 6.1'' , / 6.' >'<6' ;.'
5 -1.8' .<' ?17;' =4 Q ?1.6.<7.168' >'<6' 4<.' 1.;'? 745'M
7 ,<' J5<51'5.8' 5'' 7,7 5 7 ' >.6' > ?.<6.6' ?1 64 / 5.6'
?,41' '<<5.' 64 -'<7.8

% .6' / < 671.6' >.' ;:'=4.' > ?'17. / .<7' .<-.1 '
1,<78' ?,?E' 5.' c.1' >.' ;:'=4.' / , 68' ,<' ;, / 7' >.' 71> '
6,1.1 ,8' .41' 7'7' >.' > 671 047 ,<' >.6' E,<>6>,<7 56'
'41,<7' '' > 6?,6.1' ?.<>'<7' 5.' / , 6% #.6' 7'768' 5E7 / .<7'
6 J?568' 6.1,<7' > - 6 6' ?'1' 6. / ' <.68' .7' <> =4.1,<7N
E,' .>5.1.7=4 ' '41'' 5.J 5 '.' 7'' >??.<6.I' D1'< 5.'
.7' 5'' > - 6 ,<' '4@=<.55.6' 5,6' > ?.<6.6' '41,<7' 1'??,17I'
D'5'' >.67 <'7 ,<' >.' ;:';4<.' > .55.6f UW 5.' 5 .4' ,<' 5.'
?' . / .<7' >.-1'' 5 1.' E' 7I' !Z ' <, / ' >.6' ?'17 .6' ?1. '
<'<7.6' E.16=4 . .6' ' ,1,<7' '' 1..., 1' <> - >4.55. '
/ .478' ,<' 5'' > <4 / <'7 ,<' >.6' ;,1?68' 5,16=4.' 5.' ?'5.G'
/ .<7' >.--'' 5 1.' E' 7' .<' <'=6.%

V8' #.6' B'7.' 6.1,<7' 1.<-,V56' cY'1' 5.' ., < 75' >.'
71 6,1.1 .' '<' 041.'4' ;.<71'5' >.' ., / ?7'0 5 7' >, 7'
5' 6.1''=4.67 ,<8' 7 71.' ' >.' 5'' ., / ?7'0 5 7 % .' ;, / G'
/ 66' 1.' >.' Q'' 71.6,1.1 .8' .5 '1J.' >.' ;.77.' 6.;7 ,<8'
5.6' 1'??1..0.1'' >4' -.J 671.' >.' ?1,6?..546' >.6' >.M
?.<6.68' ?,41' 6 '6641.1' =4.5.6' 6, / / .6' =4' V' 6.1,<7'
?,175.6' < .@;.>.<7 ?'6' ;.55.6' ?,41' 5.6=4.55.6' 7,' >, '
?'17. / .<7' '' 7.' . <?5,V5' .<' .@..47 ,<' >.6' >.,1. ' >.'
1 66. / 055.K'7 ?B'7.% B5.6' #(.+ .<6< 7..@? > .17 .7'
'?1.6' 5.6' '-, 1' - 6.6' 5' '?1.6.<7.1'' '4' ;, / 55' >;'
71 6,1.1 .''66. / 05.8' =4 ' 5.6' '1157.1'%

% #. / / .' .4< / 66' 1.' .W' 1. / .771'' >.6' .@?.M
> 7 ,<6' '4' ; , / 66' 1.' >.' 7'' 1.;.77.8' '. '.47' >.6'
#, / < 66' 1.6' 7 .6' 6.;7 ,<6' >.' 5'' >5?.<6;8' ?, 1- ,' =<'
7.6..,<,.1<.E'.7' 56' 6.1,<7' ;:'1J 6' >.' 5.6' 1.' ?'66.1'
'4@' ?1. / .16' ;, / / 6' ;,471>5.416' >=6' 1;;.77.6' .7' > '
?.'6.6%

c '!! ^ 8 ' ' !' !' '1 '! A
6 8' !! ' ' 3' '

17% D1% .6=4'71.6;;7 ,<6>.5''> ?.<6.8' 7'05 .6'
;<' .@.;47 ,<' >.' '57% 55' >4' >5;1.7>4' ' / '168' ;5'
>,67' 5'' ;,<6 67'<,.' '' 7.' E @5.' ?'1' '17% 7' >4' 7 71.' D'
>.6' ,0Q.76' J5<51'<@' >4' 2?156.<7' >5.1.78' 6.1,<7' ;,<5 5;6'
'' =4' 5g' ?'V.416' ?1 <; ?'4@8' ;, / ?7'0 .68641-. 5556'
?'1' =4'71.' ?1. / .16' ;, / / 6' .,<71>5.4168' 5.6=4; 6'
7.1'<7.<' / / .' 7. / ?6' 5'' - 1 E ;'E .<' >.' 7'' ;, / ?7'0 8 '
P 75' ' 5,' 7,47' 6,46' 1 <6?.;7 ,<' J5<51'5.' .7' 6,46' 5.6'
, [51.6' > 4Y' ;, / / 664 1.' >.' 5'' 7156,1.%1 .%

$ % .6' ?1. / .16' ;, / / 6' ;.<71>5.<168' ;:';4<' >'<6'
5'' 6.;7 ,<' >.' 5''> ?.<6.' '' 5'=4.55.' 56' 6.1,<7' '77' ;:568'
? ,Q;57.1,<7' 5.6' 1.?,<6.6' >,<7' 5.' 1.<-, ' 5.41' '41'' 57>'
E' 7' ?'1' 5.' ., / / 66' 1.' >.' 5'' 71 6,1.1 .' 7 .' <> 7.' 6.;M
7 ,<% 56' 6.' .,<,.17.1,<7' 641' 7,46' 5.6' ,0Q.76' '-.;' 5.6'
?'V.416' ?1 <. ?'4a8' W7' ?1.<>1,<7' >'?6' 5.=16' 041.'45'
7,46' 5.6' 1. 6. J<. / .E576' =4 ' 5.41' 6.1,<7' < ;.66' 1.68'
#. 7' J'5. / .<7' '4@' ?1. / .16; , / / 6; ,<71 5.<16' =4.'
6.1'' E' 78' ?'1' .:'.4:' >.6' ;, / / 66' 1.6' >.' 5'' 71.6, '
1.1 .8' 5.' 1.<-,' >.6' 7'76' >.' > 671 047 ,<' '?1 7 7.' ?'E

1, 7 71'<7 / .771.' W4E 4< 1.J 651.' =4' 6.1" 7 .<W >'<6
E 41 041. '4 " : 7 .E.7I ?46 56 5.6 1. / .771.<7 '4
?'V.41 ?1 <; ?'5 '77';.: ' 5' 6.;7 ,<8 '?1.6 5.6 '-, E

G B % 4 4< ?' . / .<7 <.' 6.1" E' 7 ?'1 5.6 ?'V.77E6
?1<; ?'4@ 6 5< 6 71, 4-. : / ?1 >'<6 .7'7>.
> 671 047 <8 7 6'5 ?'17 ?1.<'<7 8 =4' 6. ?1 / <7 ;1"
?,411. : .1 18 < .67 /4< .>4<' 5.771.' > -6 @?.>7.
>'<6 5.6 041. '4@ >4 / <671.8 > <6 '=7 .55. 5.771.
6.1" 1'??.5. k '17 ;5.' >. >7 7 >. > 671 047 ,<%

% '?' . / .<766.1,<7 E' 56 ?'1 5.6 ?'V.416 ?1 17G
. ?'4@ .<Q<'<>'76641' 4<.'>.6 ;' 66.6 >.'> 671 04M
7 ,<I ; : ' ;4< >.' ; .]' / '<>'76 .1" ' ;=,< ?'J<>'>4<
0,1>.1.'4' ,4 >>; , / ?5.'>.7' 5 >]' .7 5 V 6.1" E' 7 / .<M
7 ,< >4 , / >.5" ?' '7 .8 .7 >.' ' / >.'64 E' 5'=4.55.'5"
>; ?.<6.'>.-1" J71.' 1'?47. .% .6 =4 77'<; .6 .7 ? #; .6
Q465 5 ; '7 -.6 >.'5" >.?;<6.=4 ,< " ; , 74 / .'>.' ; , < '
?1.<>1.' 6,46 5.' <, < > ' ;=4 76 1.67;1,<7 .1 51.' 5.6
/ ' <6 >4 ?'V.41 ?1 <; ?'5 >.'5" 6.;7 ,< && < '41" >.'
5 -1.' 5.' / '<>'78 .7 5 ,< 6.1" %E' 7 #;1 741.' 6 1 4<
Q,41<'5 J. <.1'58 641 >.6Q,417 ' @'?'1 .@.1; ; ;68 641
>.6 1;J 671.6 >.' . ,<71>5.8 .7 .<5 < 641 4< J1'<>' 5 -1.'
.< ?'17 .6 >,405.68 =4' ; ,<5 .<>1" '47'<7 >.' ; , / ?7.6
?'17 ;45 .16 =4 5 3 '41" >.'<'741.6 >.'>.?.<6.6%
% .6 ;' 66.6 >.'> 671 047 ,<8 >,<5 5.'<, / 01.' '-' 5
.77S E @.' '= '71.' ?'1 '17% '>">.;1.7 >4' ' / '168
6.1,<7 1#>4 7.6 ' >.4@I 4<.'?,41 5" >.?.<6.' >4
E < 7.8 >.'5" 5 67.' ; - 5.8 >.6 ?' . / .:56 >.'5" >.77.'?4 '
05 =7 ;8 >.6 >.?.<6.6 > - .16.6I '471.' ?,41 5.6 >>'
?;<6.6 >.' 5" J4.11.' .7 >.'5" / '1 <.% .6 ?' . / .<76
E' 56 ?,41 5.' ; , / ?7.' >.6 >>?'17. / .<76 >.' 5" J4.11.'
.7 >.'5" / '1 <.8 =4, =4.'1>4< 6 >'<6 4<.' / > / .' ;' 66.8
6.1,<7 .<1;J 671>6 641 >.6Q,41<'4@ 6. ?'1>6I .7 ?,41
.- 7.1 7,<7.' ; ,<E46 ,<8 5.6 / '<>'76 7 1.6 ?'1 ; : ' ;4<
>.' . .6 >.?'17. / .<76 6.1,<7 >.'E,1 / '76 > 1>1.<76%
% .6 5.771.6 >.' ; :'<J.'7 1. .68 6, 5 >4 1,V,4 / .8
6, 5 >.' >71'<J.18 ?,41 ' ;:'76 >.' / '7 .1;6 > ,1 ,4
> '1J.<' .7 >.' <4 / .1' 1.8 6.1,<7 ' ;=4 77. .6 ?'1 5"
,' 66.75.6 >.?.<6.6 > - .16.6I 5 .< 6.1" >.' / > / .'>.6
1.; ,<<' 66'<; .6 1.67'<7 " 1. / 0, [16.1 ?,41 -' 66.55.6
?,17. .">'<6 5.6 / ,<<' ;6I / ' 6 ' 5" ; : '1J.'>.'1. / '
?5' ; . / .<7>.' , .77.'>.1< .1.'>.?.<6.' ?'1 5" ;' 66.'>.'
.@71' ,1> <' 1.% ' T g %
% .6 ?'V.416 >.6 ;' 66.6 >.' > 671 047 ,< <.'
? 41; ,<78 6,46 =4.5=4.'?1.7.@7.'=4.'%..'?4 66.'>71.8
>,<<.1 >.6 0,<6 >.' ;' 66.' .< ?' . / .<7 >.6 >.?.<6.6
=4 56 6.1,<7 ; : '1J. 6 > ' ;=4 77.1%
% .6 ;' 66.6 >.' > 671 047 ,< 6.1,<7 ,4-.15.6
'4 ?405 ;'7,<6 5.6 Q 416 >.'5" 6. / ' <.8 5.' / '7 <8 "
.@; .?7 ,< >.6 E#7.6 .5 >.6 > 1''<.0.6%8 ,45.6 5.6
>;1 741.6 >.6 ?' . / .<76 =4' '41, 7 >7> E' 56 5.' / '7 <8
5.?546 7'1> " <.4E :.41.6Q4 =4 "71, 686.1,<7 ?'66 ` 6
>'<6 '?1 6 / > ' 41 5.6 5 -1.6 =4' 6#1,<7 ' .<
?'17 .6 >,405.6N .55.6 <.'6.1,<7 > EE#1>.6 6,46 '4;4<
?1.7.@7.' 46=4 '4'5.4>. / ' <% ,<6 5.6 6, 16 5 6.1" E' 7
641 4<.'7.4 55.' / ?1 / #.' 4< 1.5.-.' J#<.1'5 >.6 1. '
6457'76 >.'5"Q,41<. .8 ?'1<'741.'>.'>.?.<6.68 .7 ; .57.'
E.4 55.'6.1" 1. / 6.' '4@ ; , / / 66' 1.6 ' .'5"71. 6,1.1 .%
"% .6 ?'V.416 ?1 <; ?'4@8 '77' ; : .6 " ; :'=4.'
6.1- ; ;Q E.1,<7 7.< 1 >'<6 5.416 041.'4@8 ?,41 5"
J1'<>.'E' ; 5 7> >.' .@?.> 7 ,<8 >.6 E.J 671.6 .7 1.M
?.17, 1.6 ?'1 ,1>1.' '5?: '0.7 =4.8 >.' / '< .1.' ' ; .'
=4 56 1;71, 4-.<7 ?1, / ?7. <.<7 7,<6 5.6 1.<6. J<.'
/ ;K76 >, 7 56 ?,4 =<7 '-, 1 0.6, <% .41 ; ,11.6 '
?,<>'<; .6.1"71'<6; 7.'641 >.6 1.J 671.6" ;.'>.67 <.68
% (,'$ "-,+) $. *,/ (*,.(((".(9$',.('/ (".-4(., $.("4+.
(.-.(' +46+)(,$5 (' (,' 3" 3+., *'/ *(' 3 ..('4 *!
-+*3(-(' * - . " 5 $.(*0(..+ -(' * ' +$$,.(/

-o '] A* #

1

17% DG8 ' 1'.641.'=4.'5.' / .<7'<7 >.6 ?.K6 ,<6
'41" >. <> - >4.55. / .<7 E@ ?'1 1 66. / 05. . <'7,

<'5.8 >,' <Q'< 1.'=4 5 < V '57 ?546 5 .4' ' > '<; 6<6
>>. , / ?7.68 .55.6 6.1,<7 .<7 E. / .<7 '66:< 5>.6 '4"'
1.<7.6 - 'J>E.68 .7 6.1,<7 ' ;=4 77. .6 ?'1 5.6 / > / .6
?'V.416 ,4 5" / > / .' ;' 66.%
58 .'?' . / .<7 >.6 ; ,4?,<6 .7 <7.1576 >.'5" >.77.'
?405 = 7# 6.1" .J'5. / .<7 1.4<' ' ; .54' >.6 1.<7.68 .7
6.1" E' 7 ?'1 5.6 / / .6 ?'V.416 ,4 ?'1 5" / > / .' ;' 66.8
" ; , / ?7.1 >.' >?,=4.'=4' 6.1" >.7.1 / <. .'?'1 4<
>.;1.7 ?'17 ;45 .1%
% .6 ; , / / 66' 1.6 >.'5"71>6,1.1 .'?1>6.<7.1,<7
" 6%6. <05>.' <'7 ,<'5.'4< ?5'<8 >,<7 ,0Q.7 6.1" >.'
/ .771.8>'<65.'?' . / .<7 >.6 1.<7.6 - 'J>1.6 .7 ?.1?>'
74.55.6 ' <6 '=4.'>.6 ?.<6 ,<68 ,1>1.' .7 1>; , <, / .'
<>. .66' 1.68 ' 'OE>J.1 5.6 1.7'1>68 >.' > / <4.1 5.6
E1' 6 >.6 ?'17 .68 > .@;541.'7, 47.'?1.E>1. ; .' .5 7,47
'10 71' 1.8 ;7 >.'?1, ;41.1 41 .' .<7 >1.'6E 1.7>' '4 71>6,1
?405 ;8 8 A
% ,<7 / ,1 < .67 <71,>4 7 >'<6 H 66. / 05>.%
% ' <E.6 ? N 6%6. / 05. .' <'7 ,<'5.' " '11>5>
= .'-,46 6.1 .0 <- 7> " -.< 1 ' 1.<>1.' ; , / ?7.'>.6
E' 56 .7 >.6 ; 1; ,<67'<; .6 =4' -,46 6.<7 ; ,<<46 1.5' '
7 - . / .<7 ' % 4-.V1 .1%
' , ' 'N ''1.; '4<.'5.771.'>.' % 4 .V'
1 .1 .< >'7.'>4 CC Q4 <% G 5.'J'1>.'>4 6; .'4 -,46 .='
"1.<>4 ; , / ?7.'>'<6 5.7. / ?6% .' / < 671.'>.'H1'<; .'
"#,05.<7 S8 : '5.' / < 671.'1.6 >.<7 " 'V.<; .8 <.' / .<
,47 ?'15>8 ' '>>?>; :> 0 .1 4< ; ,411 .1 ' 'V.<; .'
.7 " #,05.<708 '-.;' ,1>1.'%54@ / < 671.6 >.'1.?1.6,<'
7.1 '4@; ,416 ?1>6 >.6=4.55.6 56 1.6 >.<7 =<.'5 '11.6 '
7'7 ,< >.' % 4-.V1 .1 6.1' 7 1%.J'1>.' ; , / / .' 4<.'
- ,5'7 ,< / '< E.67.'>4 >1, 7 >.6 J.<68 .7 =4.' 66. / '
0 . .'<'7 ,<'5.'6.'-.11' 7 E,1.>.'>,'?1.<>1.'5.6 / .641.6
<>. .66' 1.6 ?,41 6.'E' 1.'1.<>1.'Q467 ; .'>.' ; .7 '77.<M
7'7% & < '??5'4> 7%P .' <.' ;1, 6 ?'6 1. ; .-, 1 >.'1>'
?,<6.' '-'<7 > @ ,4 >,40.'Q,4168 '77.<>4 =4.'Q ' ' ,1'
>,<<>' '< ; ,411 .1 >.' ?1.<>1.' 5" 1,47.'=4 " ?1 6.'
% 4-.V1 .1%
% E77 ' .' .? / 7> > ?5, / '7 =4.'=4' - .<7 >.'
6 '66. / 05.1 - ,45' 7 - ,46 ?1, ?,6.1 ?1. ; 6> / .<7 5"
/ > / .' / .641.'=4.' ; .55.'=4 " ?1 6.'5.' ' <' 6 5
- ,45' 7.<; ,1.'-,46 ?1, ?,6.1 , .E' 1.>;1 1.'K14@.55.68
77.<>4 & 4.'>.6 5.771.6 >.' ; .77.'- 55.'> 6.<7 =4. 8 4 '
-.V1 .1 " ?'66.' ?'1 5.' 4@. / 0,41J%
' 'N .'1. ; , 6>.6 <,4-.55.6 >.'K14@.55.6
7,46 5.6 Q,416 I ' <6 ' 5 <.' ?.<7 ?'66.'E' 1.'=4.' % 4M
-.V1 .1 ' 5 ?'66>'?'1 5.' 4@. / 0,41JI ; .'< .67 =4. >1.'
'V.<; .' .7 #,05.<70 =4 5 '41' 7 ?4 54 ' >71.' '11 ->'
=4.5=4.' ; : ,6.%
% 5.'?1.6 >.<7 5 7 4<.'5.771.'>4 > 1. ;5, 1.'>4 >> W
?'17. / .<7 >.' '1 68 ' <6 ' ; , ;4.N
W " ;1' <7.'=4.'5.' / '4-' 67. / ?6 ?;'71,405 7 <>71.'
1''1; : .' <,46 '-' 5 E' 7 1.<-,V.1 5" ;>1> / ,< ;' "
>. / '7 I / ' 6 5.'7. / ?6 >.-.<'<7 / . 55.418 5.' - . .4 J. '
<. 1'5 .67 =4 . .'%6.'E'66.'4 Q,41> : Q % .' ; ,17.J.'?'1 '
751" ' E4 > %Y

' ' # K 8

5E< ' ' ' ! ' '
' ' G ' ' ' ' '
' '

. '5. - % " ; , / ?7'0 5 7> >.'5"71>6,1.1 .'<'7 ,<'5.'
.1" >.'71, 6 .6?E.; .6%
" ?1. / .1.8 ?<1. / .<5 <7>1 .41.8 <.' 6%.7.<>1"
?'6 >4 >.5 ' >.6 ; ' 66.6 >4 1.6,1 ?405 ; I .55.' .< ?1. '
6.<7.1" 5" 6 74'7 ,< ?'1Q,418 ?'1 6. / ' <.8 ?'1 = < '
0' 4K8 ?'1 / , 6 .7 ?'1 '<<>.8 ' .' > 67 <;7 ,< =.' ; .'
=4 ' ??'17 .<>1" '4"' .@.1; ; ;6 '<7>1 .416% .< <.'
E7. - '<7 1.7'1>.1 5.6 1>6457'76 >.' ; .77.' ; , / ?7'0 5 7> 8
.55.'6.1"7.<4.' 'Q, 41I .7 5.6 0,1>.1.'4@ >.'5" - . 55.'
6.1,<7 / 6 1.J45 .1.< .<78 7,46 .6 / '7 <68 6,46 5.6
V.7 @>4 ;< / 5>>.'71>6,1.1 .% ' 8 $
% .'0,1>.1.'4 >.' E <> '<<>.'>.' ; .77.'?1. / .1.'
; , / ?7, 5 7.'?1.6.<7.1" 5.' ; , = ?7.'>.'7,47.6 5.6 1.

; .77.6 E7 ' .?;<6.6 E' 7.6 ?'1 5.6 ;' 66.6 >4 71E. ,1 ?4M
05 ;8 >.?4 6 5. D Q'<- .1 Q46=4 '4 >.1< .1 > ;. / 01.
>. '<< . .@? 1..8 ' -.; > 67 <;7 , '> .@.1; ;.6I 5 6.1'
7,<Q,416 E,1 / . ?,41 5. Q'4- .18 ,4 ?5467'1>8 >.
; : '=4;' / ..8 8

" 6.;,<>. ;, / ?5'0 5 7 . / 01'66.1'7,47.6 5.6
;' 66.6 >.6 1;;,-.416 >. > 671 ;7 .7 >.6 ?'V.416 ?'1
5 . 5 .16I .55;'?1. 6.<7.1' 5' 5,7'5 7>>. ;. =4 56 '41,<7
1.J4 ,< >;?.<6. ?'1 4, 6 .7 ?'1 '<<>.8 ' -.; > 67 <;M
7 ,< > E"EQ"&#.6 .6 7'761 5'7 16 ; .57.; , / ?7'0 5 7>
<. 6<,47 1.7'1>.6 ,4. ; . =4 5 6.1' 4.; .66' 1. ?,41 5.
1'66. 05; <.<7 ;7 5. >.?,4 55. / ;<7 >.6 0,1>.1.'4@
>.6 ; , / ?7'0 ;6 #;54 >. 5 < > '<<. ?1E6.<7.1' 5.
7'05.'4 J >1'5 >. 7,47 ; =4 '41' / 1.J4 ,4 >.
?.<6> / 6 7,47. .5.<>4. >4 1,V'< / . ?'1 5.6 ;' 66.6
>>?;<>' 7.6 >4 71.6,1 ?405 ;8 >.?4 6 5. 5D1 Q'<- .1
Q<6=< '4 >.1< .1 >. ; . / 01. >. '<< . .@? 1>.8 #. 0,1M
>.1.'4 , 5 ; , / ?7. J;<>1'5 6.1' E,1 / . .7 1>4< 6,46
5.6 V.4@ >4 ;,4 7. >. 71.6,1.1 > '4 ?54 7'1>8 ?,41
5. / '16 >. ; : '=4. '7 / ..8

,41 <. ?, <7 1.7'1>.1 5' ?1.6.<7'7 ,< .7 '1
1>7. >.6 .7'76 >. E < > '<<>.8 5.6 .<-, 6 >. E,<>6 E' 76
' @ ?'V.416 ?'17 ;45 .16 >. 5' / '1 <. .7'05 6 >'<6 5.6
; ,5,< .68 >'<6 5 >. .7 ' @ 5 .6 >. H1'<;. .7 >. K,41M
0,<8 6.Q,<7 1.J ?>.6 ?1,- 6, 1.1'.<7 ; , / / . >>?.<6.6
1>.55.68 > '?1 6 5.6 ? .;.6 =4 .7'05 1,<7 5' 1>'5 5> >.
.<-, . 6.1' 46> >. / > / . ?,41 5.6 ,?.1'7 ,<6
=4 ?,411' .<7 > 1. E' 7.6 : ,16 >4 1,V'4 / . ?'1 5.6
/ ? 651.6 >. 5' J4.11. .7 >= 5 / '1 <.

1, 6 . / . ; , / ?7'0 5 5> 6.1' >>E < 7 - . .7?'1
.@.1; ; .6 ; .67'.5E. = . >.< .41.1,<7 '<<.@; .6 5.6
? >..6 Q467 ;'7 -.6 >. 5' >>c .<6.7 .7 <>'< / , <6 5.
<'V.41 ?1 <; ?'58 / .641. =<. 5.6 ? .; .6 .7 ';=4 76
54 6.1,<5 . -,V>6 ?'1 5.6 ?'V.416 ?'17 ;45 .168 J<
E.1' 5' ->1 5 ;'7 ,<I 5 5.6 1'??1, ; : .1' >.6 '17 ;5.6
>. >><.<6. ?,V7>6 >'<6 5.6 0,1>.1.'4@8 .7 5.6 ;5'66.1'
>'<6 ,1>1. >.6 ; : '? 71.6 >4 ; , / ?7.

''( ) (g *+,$ *+ (-- (. $*(.+ + # . ((,
(-(-(0(.$#$3+,$ * -(' 3 4,(' -- $*$,$#' (, 4+.
(2(.3$3('/ (-- +$ -+*' (5$$($ ''(. *, .(*- '/ (, ('
-$'4 '$,$ * 5 $ '(. *, #+$,(' 4 (') (,' 5 $ '(
,. 0&I *,(*3 .((*.(,+. -+ (* -(+,(--$$$
-('-$,'3 . 4,(7 / /
;A/(' $8.(' #, +.,$(' -) (-gC4+8(. 4.$+!
3$ 5 $$- *, +,(@ (+-,- .- **-(4+. +.,
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3 4,+) ('/ 4+. +**-$((+0(3 -$,$*3,$ * -(2(.3$3('7
(, ('-$, 4+8(.(# . $$. *, +) .(+ 3(*,.+ / - 6,
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,+,' (, - - (*, *(3(''+$.(' 4 . '+,$'#+$.(+*2
4-.+,$ * - *, $? '(.+ 36+.9-

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& 8 ! #

17 DG ,41 .@>; 7 ,< >.6 > 6?,6 7 ,<6 ><,<
.>.6 >'<6 5. 5 71. ?1>.>>.<78 .7 .< ; ,<E,1 / 7> >.
'17 " >4 >.;1.7 >4 / '16 (* 8 5 6.1' >7'05
7 < 041. >. ; , / ?7'0 5 7> ; .<71'5.8 =4 6.1' ; : '1J>
>. 5' E,1 / '7 ,< >. 7,4]' 5.6 0,1>.1.'4@ .7 ; , / ?7.6
J><>1'4"8 .@; .?7 ,< >. ; .4@ >. ; , / ?7'0 5 7> >.E M
< 7 - . ?'1 .@.1; ; .68 >0<7 66. / 05>. <'7 ,<'5m
6 .67 1>6.1-> >. 1>J5.1 5. / , >. ?'1 '17 >W 5 71.
?1>.>>.<7

B '6.1' 7.<< >'<6 ; . 041. '4N
D Q,41<'5 5 ?'17 .6 > ,405.68 .< 7>7m >4=<.5
6.1,<7 . 1.J 651. 6 5.6 E4<>6 .7 5.6 .E .76>4 ?,17.E.4 55.
=4 6; 71,4-.1,<7 >'<6 5' ;' 66. J><>1'5. 5. Q,41 ,4
5.6 ; , / / 66' 1.6 .471.1,<7 .< .@;1; ; .8 .7 >'<65;
=4.5 6.1,<7 6;1 7.68 Q,41 ?'1 Q,418 7,<7. 5.6 1.; .77.6
.7 >>?.<6.6 >.6 > EE.1.<7.6 ;' 66.6 > - 6; .6 ?'1 .@.1G
. . . .

*9.+*5 $0.(+ 4+.,$(' -) ('/ '(. *, .+4!
4 .,-' + (. 3 4,(' .('4(3,$#' , (' +, $3 (' +*
.*+ ! ! /

#. J1'<> 5 -1. '41' >.6 ; , / ?7.6 ,4-.176 ?,41 ; : 'M
=4.8 >.?'17. / .<7 >. 5' 71. 6,1.1 .8 >'<6 5.6=4.56 RQ
6.1,<7 >>0 5>6 Q,41 ?'1 Q,41 >.6 6, / / .6 =4 ; 1
6.1,<7 -.16>.6 .4 / '66.8 .7 ;1.> 7.6 >'<6 5. ?546 J1'<>
>.7' 5 >. 5,416 ?' . / .<76

; , <7 . >1' <466 >.4@ ; , / ?7.6 ?,41 5' ;' 66. >.
1.@71',1> <' 1, 14<1.5'7 1'4@6, / / .6=4 .55.?,411'
-.16.1 '4 71.6,1 <'7 ,<'58 ; , / / . 6.; ,4168 . .@.;4M
7 ,< >.6 >>;1.76 1.<>46 ?'1 66. / 05>. <7 , <5.I
'471.1.5'7 E'4@6, / / .6=4. <> 7. ;' 66.>. .@71',1
> <' 1. 6.1' 7. / .8 '<@ 7.1 / . 6 >.6 >>;1.768 >. 1. /
?5';.1 '4 71.6,1 ?405 ; #;6 5 -1.6 6.1,<7 'Q,418 '4
?546 7'1> 5. 6415.<>. / ' < >.6 >.14 .1.6 1.; .75.6 .7
5>?.<6.6

D <1.J 6E1. =4 ?1>6.<7.1'8 ; : '=4. Q,<18 5' 0'
5'<; . J><>1'5. >. 7,47.6 5.6 ,?.1'7 ,<68 ;7 5' 6 74'7 ,<
>4 71.6,1 <'7 ,<'5

UD <J1'<> 5 -1. <4@ 5 ' 1.8 ; ,11.6?,<>'<7 ?'1>.6
1.<-, 6 ' -.; 5. J1'<> 5 -1. J> #1'5 ; , 7 . / 51' 5.6
> - 6 ,<6 >.6 ; , / ?7.6 ?1 <; ?'4@ =4 .< 6.1,<7 646
; .?7 :5.6

,41 >7'05 66. / .<7 >.6 1.J 671.6 ; >.66468 5
6.1' E,41< ' 5' ;' 66. J><>1'5.8 ?'1 5' ;' 66. Q,4< '
5 .1. >.61; ; .77.68 .7 ?'1 ; ;55.6 >.6 ?'V.416 >.6 =4'71.
>>?'17. / .8<768>.6 E.4 55.6Q,41 '5 .1.68 =4 ?1.6. 5.
1, 7 .< >>7' 5 7,47.6 5.416 1.; .77.6 .7 5.41. >>?. 6.6

#.6 E.4 55.6 ; .17 5 ..6 6.1,<7 1. / 6.6 ; : '=4. Q,41
'4 041.'4 ; .<71'5 ' -'<7 6 @ : .41.6 >4 6, 18 'E < = .
E' 0'5'<; . ,4 6 74'7 ,< J> .1'5. >4 71.6,1 ?405 ;
?4 66. >71. 1.> J>. >'<6 5' / > / . 6, 1..

6.1' 7.<4 4< 1.J 671. <7 745> : &
5.=4.5 6.1,<7 <6;1 7.6 7,47.6 5.6
>>?.<6.6 'E' 1. > '?1.6 5.6 >>;1.76 >. 7 6 / 05>. <'M
7 ,<'5. #. 1.J 671. 6.1' ?1>?'1> 7,465.6'<6 '7 '-'<..
?,41 '<4>.64 -'<7.8.7 ; , / / . ; .1 >. '<<. (*C
6+5 (Q -4+.,((*, + .+ ' * 3 4,(0(.,/-+*'
(5 ($ '(.+ (.--$,(-('' ('5 $ $ '(. *, +' '
'$9*-(/E 4+. ('--3.(,' - ''( ) -(*+,$ *+ (/7 3,$
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+,' 9 -*-.+ 2 (, 4+.,$3 $(.'-(-$',.$) ,$ */5 $'D
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8 (,.+9 3-$3 8.$5 ($] + *.- fC G
- I @ D + <Q, '-> ' C8 73 , (/
& 5 (, F & H
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3$ (.'/ '$5 (-(''(3
- 1 (. (-($36($(V . - BW/ G
@ - & 5 (, d I
* " $" 4 .+ $,+ $(* & 8 V . - BW/ G.
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$, ,8& % V . - BW
<9 !&
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@ & 14. >4 58 <W E j 7 ;67 ,41.17
7,46 5.6 ,416 Q<6=4 7.55. : .41. =4G <5' 7E D5.6' ,Y
#$#, ..(,(./

! b ʿ ʿ,ʿ, KʿB ʿ! %

ED * Y8 %F ʿ/6ʿ8 3 ʿ/17/ʿZʿ !. ʿ * ʿ ʿ ʿ

#a%

ʿG & ʿ ʿ S + .-' 66.'45.RPW(1W7(VQJ 8' '??'17.<'<7' "5";, / ?'J< .' >'<, '.'>.6' >.6ʿ .67' '1' 1 -9' 8 5.ʿC9' 5.';.' /, 6' 8 "5"1'>.'>.' #,?.<:'J4.8'7.M <'<7' >4' K.<J'5.' '-.;' 4<.' ;'1J' 6,<'>.'7, 5.1 .6'.67 ' < ..'* ʿ / 55.'1 @>'5.16%

,4-.1 41.%>.'5" <,4-; .'0'<=4.' >.' #,?.<:'J4.' .67' E @..' '4' ?1. / .1'>4' /, 6'?1,;:' '%

ʿ ! K%

ʿF ʿ ʿ N- + ʿ +ʿ .6' -' 66.'<@' .6?'J<,56' 5.' >.') 8'6,<7' .<5196' '4' .11,58'5.'*'Q4 7Q8' -.<'<7'>.'#' ' >@% .' A] *'>.' ʿ8 A$ ' .7 J '>.;:';4<'(8'V,<7/ ,4 55.'5.' ' >4' / . / .' / , 6% .'>.1< .1' .67' '11 -.' '-.<'6,<' ' 55.1 .' >'<6' 5"; '5.8' 6,46' .6;,17.'>.6' >.4@' ?1.;.>.<76% ' E' 7' 0.'4;,4?'> .'4' .7' "0.6, <'> 4<.' E,17.';'1.<.% " 3 7.' 5.' ! 2 ' .67' '466' .<71..' '4' H.11,5' 5.' U8' -.?'<7'>.' 5" B'-'<'8' .7';:'1J9.'>.' 0, 6'>.';,<6714;7 ,<%G

.6'71,405.6' =4 ' 6 U7' .<7' / '< E.67,'>.?4 6' =4.5=4.' 7. / ?6' >'<6' 5" ?1,- <; .' >.' ! '5 ;.'?'1' 66. 77' .<7 .1. ' / .<7' '?'E7 6% .6' ?1 6,<6' >.'5" #,1,J<.'].'1.<7?5 66.<7' Q,41<.55. / .<7' > :'077'<76'>. ';'< ?'J<.6'11 7>6';, / / .' '47.416',4';, / ?5 ; .6'>.6' >.6,1>1.6' =4 ,<7' .4' 5 .4' >'<6' > E5.1.<76' / '1;:.6% #.6' > 6?,6 7 ,<6' >4' J,4-.1<;< .<7' .7 ";1' <7.' =4 .55.6' <6? 1. 7' ?1,>< 6.<7' >.6' / J1'M 7 ,<6';,<6 >.1'05.6' 641' 5" E1,<7 .1. >4' ,174J'5%

,<' . / 0'1=4.' " #'> @' >.6' ?1,- 6 ,<6' \>.' J4.11.' ?,<1'.<-,V.1' " 1'<% 'V' ".<'>.1< .1. / .<7' 4<.' ';M 7 ,<' '66.6' 6'<J5'<7.' .<71.'5.6'>.4@'?'17 6% .6' 6?'J<,56' ,<7' >.;,4-.17' 4<.' / <.' =4.' ?1'7 =4' .<7' 5.6' '41.6' V 56' V 6,<7' .471.6' .7 ,<7' / '66';1 ' 7,46' ..4@_'=4 56' V' ,<7' 1.4.,<71 6_' 546 .<16' ,EE ; .16' >.6' J'1'>.61['55,<<;6' .7' .6?'J<,5.6,<7' ? 1'>'<6' #.77.',;;'6 ,<G % $ ' '

,<' 6 =;;4?.' .<';.' / , / .<7' > 4<' J1'<N71'-' 5' ?,41' 7,47.% '1 / .'%.6?'J<,5.GNI',<8' ?1,P. .'>. #:'<J.-%7,<68' 5.6' 4< E,1 / .6' 8I4 '4J / .<7.15" ?' .'>.6', >.1" Q .7'>.' 1.<>1.' '466' ?546' '-'<7'J.46.'5";,<> 7 ,<' >4' 6,5>'5% 8 % % % ' , 7' '55;1;.6, 1" 4<.'5 .4.' >.';.77.' V 55.' ?'66.1' .<'1.-4.'5.'1.J / .<7'>.6' ;'1'0 < .16%

";,<1' 6.' > 6?,6.' "=4 77.1' 5.' 6 Q,41'> 1'<Q4.0' 5.' U'>4' / , 6' ?1,;:' <%8' ' 8 W

%

ʿ ʿ 'C*RW <%' +' B' .67' 6,17';.6' Q,416' >.1< .1G' >.6' ;:'<7 .16' >.' ^'16.<'5'>.' .<6.'71, 6' J'5 ,7.6' .7' 4<.' J,.5.77.' =4.'5" 1 ?405 =4.' - .<7'>.' E' 1.' '1 / .1' .<' J4.11.8' .7' =4 '6,<7'>.67 4 .6' "1.<E,1;.1' .6;'>1.' -.< ' 7 .<<.'>'<6' 5" > 7.11'< .% <' 5'<;.1" "5" / .18' >'<6' 5.' / , 6' <1,;:' <8' 4<.'E1.J'7.' .7' 477' ;477.18' =4 ' ,<7' 5" / / .'>.67' <'7 ,<%

L K %

)@ ʿ 0 ʿ ʿ ʿ ʿ ʿ)ʿ

'?1 <;.' B 1 >7' 1.' > 1'<J.' .67' '11 -.' 0 .1' 6, 1' , % .6' ?'71 ,7.6' > <V.16' < ,<7' ?'6' / '<=4 ' >.' > 1.' =4 ' -.<' 7' ?,41' ?1,7.67.1' ;.<71.'1 <'4J4;'5 ,<%# ;65' 0 .<' 5.';,,71' 1.8' ;'1' 5' - .<7' E 5 ; 7.1' 5.6' J,4-.1<.416' J < 1'4@'>.6' 'V6 K '6' 641' 5.41' 1.7,41' .7' 641' 5" 7,41 ' <41.' :.41.<6;'>.'5" 1.-,547 ,<' 0.5J =4.' .<' E'-.41'>.' 5" / ' 6,<' > 471 ;:.1' #.'6.1" ;:'<7.1' ,<.'E41 .46.'?' ' 5 <,> .8' ;'1' 6'<6' 5.' ;'0 <.7' ?1466 ;, 67'7:,4> 1 .<' ?, <7'>.';, / 7.'>.'K1 >'I' ;7' 5.6' '< 4?.<8' 5.6' '< ' >.1 >,78' .7;%8' - J 7' .<7' >'<6' 7 < - 55'J.'8' 1.>4 76" 4<.' 67 1 5.' ;,11.6?,<>'<;.' '-.;' 5.6' <-.;6, 6' .7' 5.6' ,77-' < 67.6 8' $8' % % %

S $' R1RY' +' , / .' "% G G '6

<' '6641.' =4.'5.6' J,4- 1<.<16' J < 1'4@' ?,411,<' ?'17 1' <;.66' / / .<7' ?,41' #,05.<708' =4 ' .67' 5.'?, <7'>.' 1'5B. / .<7' ';74.5' >.6' H1'<=' 6' E4J 7 E6% G .57.1< ;.' .67' '77.<>4' ; % %5.'., / 7.'>.' .1; 1J.<5.' ' .6?.1.' V' 1.- .< 1'>'<6' =4.5=4.' 7. / ?68' 6'7 6' ;'1';7. '.' ,EE ; .5' $ .7' >.' 5" 1.7,E71<.1' .<' H1'<;.' .<64 7.> 4<'

0 ' J J J' ' ;, / ?7.?,6 7 -.1<.<7' >'<6' ;.' ?'V6% 5' .67' E'4@' =4.'5.' 1.6' 6' <7' 6';1. / .<7' >.6' / 1'M ;5.6' 7' 7 ' / 6' .<'Q;4' 7' ' <7. ! 4>45.? 41 <.;,?71.' 1 -,54 ,<8' ; , / / .' ,<7' ' 641 ' =4.5=4.6' ?'? .16I' 6.4' 5. / .7 7 5.6' ?1 51;6' 6.'.,<5.<7;<7'>.'> V.';, / / .' ,<'6I @ ' 6!

B ;1' <'4J41'7 ,<' >.' ,?,5>' " .4' 5 .4' " ! '4>8' ;, / / .' #, / 7.'>.'H5'<>1.8' .7;%

8 ' ' <' ?1 ?'1,' " '; .<8' 7<' 6,<'>.'?5' 6'<;.' >.' % %K%8' >.6' E57.6' ?,41' 5.' 6' >4' 67'7:,4>.1% <6 8' / '5J1.'7,47' 5.'6'<J' =4.' < 1 J4.' .7' 5" ?.1E > .' ,<7' E' 7' 1 ?'<>1.8' ,<' -, 7' =4 ' < V " ?, <7'>.'1',;4<.' ; .' ;.17' <.6' ?.16,<<.6' =< 7 V ,<7' 1 .<' ?.1>4%

H # 8

D ' 1 '<(

K ' ' # %

(',.$) *+'0$(*,'-(',(*-.(' **' *9((*,'55,'(* $*,'+*' '$(. 8(.'-('4 .,(.'6 * (*.(,'. 0(.(*3(' +' +'9+.-('*+!' ,$ $$+ (/'(,'4 .8' +0 $.' +*5 (/'- **(', +$,$(.(' 9.+0(/'(*' '(' $0.+*$' '-(''0$ (*3('(,' (('+'-(''0 (''-('#+$,'(*0(." '3 +*-+ ','- *('4+,'. *$ (/' ('3 *-+ *(/' 4+.9. 3(/' (,'+*" ,$.(.'+'3 *'(5+($,3(D+' BII' $0' -%+ (*-(/' 4+8+) (" 4+.'3 .4'7 *$' #+$,'-(#(*'('-('.(3$-$0(./' ' *" 4$*" 9.+*-(' 4($*(7' .--**('.6*4.(''$ *'(,'+,,(#+(

%' +$ I

2 0 ' ! '><' ' < 55.7' 5(P8' ?1 6.'><';>7.'>.' ! 1.<.57.8' .67' / ?.'>. - <J7 4<' ?,<;.6'.7'>. / 5' >.5,<J' 6<1' <.<E'?,<;.6'>.'0'<78' J1'-..'.<';34 .<1'?'1' % '< <.7i_77dN' -.<7.,1'>.';.'J.<1.'>.'J1'- 1.% ' 8 &% % .'7'05.' '4' =<.' c 6.< .';.75.' .67'< ? ' 5 ,<6' " Q'177'>4K' J1'<>' . .78 .7%71.6?1,?1.' " >,<<.1'4<. Q467. 7>..'>.' ' ' ' ?1 @' .'7'>.'5" 5 -'% '>1.66.1' '<' 041.' '4'>.6' J1'-41.6' E.>.1'7 ,<' ';.4@= 7' < .<' ,<7' ?'6' .7.'7. / , <6%%I' % ' ' 1' 0 67,1 =< .68 1 7.' B'7 7.E., 55.8' 7' 9% 5.' 0<11'7' .67' 4-;1' 7,<6'7.6'Q,<16'>.?< 6' 04 7' :.41.6'> " / '7 <'Q46=4 " :0 '>;< ' 1.6'><'6, 1% %

.6' 6,<6;1 ?7.<16F' 6,<7' '-.17 6' =< 56' ?.4-.<7' V' .<-,V.7I' ;:.1.:.1'7.'16' ?1.<@ .6% ' ' _' 8k

K 5 /

' K E ' %' 8

8 *' ' F 'G 6 C' I

'K '7 ' _' \' K5' ' E 77 7%

' ' ' '8 * \ ' 'M ' \ '

!IK

#:' c39' '<-..8' 5.' ' / '76' " ? Y7'1>8' 7' 6.1" 1.< 6' ' '@',;, < / 66' 1.6' >.' &' 71 ,1.1% .; '< 1.6477' 7' J.<.1' 5' >.' ;.77.'6 .;<>' ., / ?7'0B 7.' .<,<;.' >'<6' .6' '17 ;5.6' ?1.;.G' >.<76N' 7 ,<6' 5.6' .; / ? '05,6' >.' 5" E ,6,1.1 .<' '<' 5 ' ',6.G' 1,<7';, / ?1 6' .<' >.0 7' .7' .<' ,> ' ?' <<.' 6.<7' '5 W<W8' .7' .61 .6' 55' 56 .<.1',@'>.-1,<U';'>1.1' '1. ' .<@' ?07. / 6 .<' >.7' 5' ?'1'5" ;,1.?7' 0 5 7' .<' ?'17 ,6'>.<' 5. 7.'7' '05 .'7' 47' >'<6' 5.6' 0'1 '4@'>.'>1.;7.,1' >.'5" 1.;.' 7.' WE7 .' _ 616' ;.4@' >.6' <'V. 16' ?1 <; ?'4@%

Y' 5% 5' 6.1" .7' 05' 641' <<'1.J 671.' / 7' 7' 05.' " J.<.1'5' >.' ;, / ?'1' 6,<' =4 ' . 01'66.1" '<' <7.1-'55.' >.'1 @' ' / Gd .' '<6 ; 7 -.68' 6<1'5.=, .5' 6.1,<7' <6;17. '2' 5" E <';';0';, 7.' 7,47.6' 5.6' 1.;.7 .6' .7' 5.6' >.?.<6.6' ?'1'7,7'<"V' >.' / '< .' =4 ?' ?' 66.'. / 01'66.1' > ,<'< / .' ;, ,?'>.,>'E.6' 1.' Q,<6' 4' ?., 11,<7' 64 .< 1' >'<6' 5.%61 '. 7.6' < ' >'<6' 5.6' .P\ <6.'8' 71. <.<7.1'<@' .,'6.6'=,'5.6' '41,<7 ';'6' <G' <.'6% ,1' 5" ?,66 0 5 7.' > 6' ,/?'1' 6 ,<68' 5.6%1.' 77.6' 7' 5.6' >.?.<6.6'>. / / .' < '741. ' ,1 / 7,5'66..66,46' 5.6'< / .6' > <, / < 7 ,<6I5.6';, < / 66' 1.6' >.'7' 71.6,1, ' .<' ?1,J,<' 7.1,<7 <;.66' / / .<7' &.6'> - 6 ,<6' =4 '6.1, 7'> 1.7..6' ?'1' 66. / 0 ..'<'7 ,<'5.%

<.'?,411'' .@;.>.1'71, 6' / , 6% <' ;'6' >.' 5.; > -.' 5'' >.7.<7 ,<'6.1''> 4<.' '<<>.%

" " % .6; 7,V.<6>, / ; 5 >6=4 %'?1.6' '- , 1' 1>?1 / .6'4<.'E, '?'1'5''?,5 ;.' / 4< ; ?'5.?,41'1 @.68' 74 / <57.68' '771,<?. / .<76' <, ;741<.6' ,4' >>6,1>1.6' .<' '66.<705>.'?<05 =4.8;, / < .771' .<7'?,41'5''>.4@ > / .' E, 6'5.' / > / .'J.<1.'>.'>>5 78' 6.1,<7' ; ,1 >' <<>6'?'1'5'' ?,5 ; .' ;,11.;7 ,<<.55.' =' 4<.' ' / .<>.'=4 ' <.'?,411'' .@;.>.1 5%8' .7'4<. / ?1 6,<<. / .<7=4 <.'?,411'' .@;.>.1' =4'71.' / , 6%

" " % .6' ?.16,<<.6' =4 ' 6.' 1.<>1,<7' ; ,4?'05.6' >.6' >.076' / .<7 ,<<.6'>'<6'5.6'6 @' '17 ;5.6'?1>;4>.<76' 6.1,<7'6' 6 .6'641G5. ; : ' / ?'.7' ; ,<>4 7.6'>.1'<7'5.'Q4J.' >.'?' @%

% 1 '& ' ' / (

" " "% ,<6'>>J>76' ; , / / 6'>'<6' 5.6' 0, 68' 7,47.6' - ,5'7 ,<6'>.' ;5 741.8' >.' / 4168' :' .6' .7'E,66.68' =4, ' '4.' <,<' 6 - 6'>.' - ,58' 5.6'5'1; <6'>.'E14 76' .7'>.' ?1,M >4;7 ,<6'> 4<'7.11' <' ;457 ->8' '471.6' =4.' ; .4@' / .<M 7 ,< <J' >'<6' 5.' ; ,>.' ?.<'58' 6.1,<7' ?4< 6' ' <6' =4 5' 6.1''> 7'' >J<1>'>.'5''?,5 ; .'141'5.%

" " "% .6' 5'1; <68' 5 5,47.1 .6' .7'6 / ?5.6' - ,56' =4 ' 1'??'17 .<<. 7'<' '' 5''?,5 ; .'141'5.8' <' '4' ; ,>.'?.M <'58'6 I1,478' ,471.'5.6'>,4 / 'J.6' .7' <7 1>768?4< 6'> 4<' . <?1 6,< . <.<7'= '<.'?,411'' .@.>>.1'>.4@' '<6% '' ?. <.6.1''>,405.' .<' ;'6'>.'1. . > -.I' .75''6.; ,<>.'1>' ' ; > -;'6.1'' ?4< .'>.'5'' >>?,17'7 ,<%

" " " % .' - ,5'>.'>.< .16' ,4' . .76' '??'17.<'<76' '' 5 7<58' .7'>,<7'5'' - '5.41'6.1'' '4 >.66,46'>.' %8 6.1'' ?4 '> 4<.' '< .<>.'>4'>,405.'>. ; . 7.' - '5.418' .7'> 4<' . / ?1 6,74 . <.<7'=4 ' <.'?,411'' .@;.>.1'6 @' / , 6I'5'' ?. <.'6.1''>,405.' .<' ;'6'>.'1>; > -.%

" " " % .6' ; ,4?'05.6'>.6' >>5 76' / . 7 ,<<>6' '4@' 71, 6' ?1>..>.<76' '17 ;5.6' ?,411,<7' E 717E6' 6 6' 641 5. ' ; : ' / ?'.7' ; ,<>4 76'>.- '<7'5.'Q4J.'>.'?' @%

" " " % #.4@' =4 8' ?'1'>,58' '' ' >.'>.'E'4@'<, / 6' ,4'>.'E'466.6' .<71.?1 6;68' ,4' > 4<' .1>> 7' / 'J <' 1.' ,4'> .6?>;'<; .6' .7>.' ;1' 47.6' ; : / ;1 =<.68' '41,<7' '07 6>'>.'5'' ;1.>45 7>'>.' =7 .5=4.6'?.16,<<.6' .7' .6;1, ' =4.' 5''7,7'5 7.' ,4' ?'17 .'>.' 5.416' E,174<.68' 6.1,<7' ?,4164 - 6' ?'1 >.- '<7'5.6'71 04<'4@' >.'> 671 ;7I' .7'6' 5.'>,5,4' .6;1,=4.1 .'.67'?1,4->.8'5.'71 04<'5'>;'> 6M 71 ;78' '?1>6' '- , 1'?1,<,<.>'5.6' 1.67 747 ,<6' .7' >, / ' 7<'J.6' .7' <7.1>568' .67' '47,1 6.' '' ; ,<>' / <.18' ?'1' - , .' >.'?,5 ; .' ;,11.;7 ,<<.55.8' '' 4<.' ' / .<>.'=4 ' <.'?,411'' .@;.>.1' 8 ' 5 - %8' .7' '' 4<' .< ?1 6 / . / .<7 =4 ' <.' ?,411''.@;.>.1'>.4@' ' 6% <' ;'6'> '??.58'5.' ; ,<' ' / <.' J'1>;1'' ?1 6,<8' '' <, <6' =4.' 5.6'Q4J.6' <.' 71,4-.<7' ; ,<- ; '0 ;'>.'5.' / .771..<' 5 0.15.6414<.' ; '47 ,<'71 M ?5.'>> ' / .<>.'?1,<,<.>.% <.'6'>.'1>; > -.'5''?. <.' 6.1''>,405.% ,46' 5.6'Q4J. / .<76' 6.1,<7' <7?1 / >6' .7' 'E5 ;5 >6%

" " " % #.4@' =4 ' 7 .<>1,<7'>.6' / ' 6,<6'>.Q.,@'>.' : '6'1>' ,4' .' ?405 ;' 6.14%'> / 68' 6, 7' 5 01. / .<78' 6, 7' 641' <' ?1.6; 7'7 4 ' >.6' 'E 0.68' 6.1,<7'Q 4 / 6' > 4<.' ' / .<>.'>.' 8 ' '' 8 '5 - %8' '-;#' ;,4B # 7 ,<'>.6' E, >6'71,4->6'.@?,6.6' '4'Q.48' .7 E4<. / ?1 6,<<. / .<7' =4 ' <.'?,411'' .@;.>.1' 4<' '<% '< .<>.8' .4' ; '6' >.' 1>; > -.8'6.1''>.' 8 ' '' 8 '5 - %8' .7'1. / ?1 6,<<. ' 1<.45' <.'?,411'' .@;.>.1' >.4@' ' 68' 6'<6' ?1.Q4> ; .'>.' 5''6,5 >'1 7.'P\,41'5.6' ' / ; 45.6' =4 ' '41' .<7' .7>' ?1, ' <,<; ;.6'?'1'5''Q ,5 ; .'< 4 ; ?'5.' ; , 71.'5.6'?1,?1 . ' 7' 1.6' .7' ?1 4; Q 4 @' 5, ; '74 1.68' >'<6' 5. ' # 6.7'4@' 7.<4.6'&5.' '17 ;5.' 55' >4' 5 71.' .1'>4%?1.6.<7' >. .1.7%

" " " % #.4@' =4 ' 7 . 451, 7>.6' / ' 6,<6'>.'Q. @'>.' 0 a '1>8' 6 56'6.<7' ?1 6' .4' 55'J1'<7>.5 7' ?,?11,47'>71.' 6' 6 6' .5' ; ,<>4 76'>.- '<7'5.'Q4J.'7 .'?' @%

" " " % .6' - . 75.416' ; , - ' <;46'>'- , 1' 1, / ?>8' 6, 7'641'5.'5 71.'>.6'< '7 .1.6'> ,1' ,4'> '1J.<78' 6, 7'641' 5''=4'5 7.'>'4<.'? .11.' E'466;' - .<>4.'?,41'5 <.8' 6.M 1, <78' ,471.'5'' ;4< 6;'7 ,<'>.6' / '1;0' 4 6.6 .4' >>5 7' '5'' 1.67 747 ,<' .<- .16' ' ; : .5;418' ; ,<>' ' / <.6' '' 4<.' ' 5.' 8 '' 8 '5 - %8' .7' '' 4<' . / ?1 6,<<. B 7

=< ' <.'?,411'' .@.>>.1'>.4@' '<<..6I'5''?. <.'6.1''>,4M 05.' .<' ; '6'>.'1>; > -.%

" " " % #.4@' =4 % ; ,<>' / <.6' 4<.'E, 6'?'1'5''?,5 ; .' / 4< ; ?< .'?,41' <5 >>5 7.' 641'5.6' ?, >6.7' / .641.68' ; , / / .571,<7'>.' <,4-.'4'5.' / > / .'>.078' 6.1,<7' ; ,<' >' / <; 6'Q '1'5''?,5 ; .' ; ,11.;7 ,<<.55.' ''5'' ; ,<& %6;'5 ,<' >.6' / '1.0'<> 6.6' E'46%6;6' ' <6' =4.' >.6' E'4@' ?, >6' .7' / .641.68' 5.6= .56'%6.1,<7'01 6>68' '' 4<.' ' / .<>.'=<' <.' ?,411'' .@.>>.1' 8 ' 5 - %' .7' '' 4?' . / ?1 6,<<. / .<7' =4 ' <.'?,411'' .@.>>.1'4<.' '<<. .8' ' 5'' 6. ; ,<>.' 1. ; ' > - .' 56'6.1,<7' ?,4164 - 6' ;1 / <;55. / .<7.7' ; ,<>' / M <.6' '4@'?. <.6'?,17..6' '4' ; ,>.' ?.<'5%

" " " % .6'>, / / 'J.6' .7' 7>1>76' ' <6' =4.'5.6' 1.60747 ,<6' .7' 5.6' ' / .<>.6' =4 ' 6.1,<7' ?1, , .<; .6' .<' / '7 ;1.'>.'?,5 ; .' ; ,11.;7 ,<<.55.8' . / ?,17.1,<7' ; ,< ' 71' <7.'?'1' ; ,1?6%

" " " "% .6' ' / .<>.6'>.' 5''?,5 ; .' ; ,11.;7 ,<<.55.' ,4'>.' E'' ?,5 ; .' / 4< ; ?' .' =4 ' ,47' 5'' ; ,<71 047 ,<' / ,0 5 .1.' ?,41' 0'6.' 6.1,<7' ?'V..6'641'5''7,7'5 7.'>.' 5'' ; ,7.' .7' 6'<6'>.>4;7 ,<'>.'5'' ; ,<71 047 ,<'E,<; >1.%

$ " ' ' ' ' ' ' ' ' ' ' '

" % '<6'5.' ; '6', 5' 4<' ?1>- .<?8'641?1 6' .<'E5'J1'<7' >>5 78' 6.1' 7' ' / .<>'>.- '<7'5.'Q4J.'>.'?' I8' ; , E,1 / . ' / .<7' '4@' > 6?,6 7 ,<6' ; >.%66 68' 5.'Q4J.% '?1.6' '- , 1' <7.11,J>8' '?1.6' ' - , 1' .<7.<>4' 5.6' 7. / , <68' 6 5' V Ÿ 5 .48' _51.%66.' ?1, ; .6 - .10'5'6, / / ' 1.8' 5.'1.<- ;11' . ' 5 0.17> 6 5' 5.'71, - .' <<, ; .<7I'5.'1.<- .11'' '' 5'' ?,5 ; .' / 4< ; ?' .8' 6' 'EE' 1.' .67' >;'6'' ; , / ?.7.<; .8' >,< .1'' 5.' / '<> 7> '11>78' 6 5' .67'Q467. / .<7'646?. ; 7' > 4<' #1 ð / .I' .<E <8' 6 5' 6 'J 7' >.6' >.076' ; >.66]' / .<7 ,<<>' >.?4 6' '17%' " 8' 5.' E.1'' 1.7.< 1' ?,41' >71.'Q4J. ?'1'5.' 71 04<'5' >.' ?,5 ; .' ; ,11.;7 ,<<.55.8' ,4' 14> <.771'' 6,46' ; '47 ,<' >;'6.' 1.?1.6.<7.1%' '' ; '47 ,<' <.'?,411'' >71.'< , <>.1.'>.' 8 ' 5 - %8' <'.@;.>.1' C 8 ' 5 - %

" 5%' '' ?,4164 7.'>.' ; .6'>.076' 6.1'' E' 7.' 64 7' ?'7' ;6; 7>V.<6' .6>688' 6, 7' ?'1'5.' ?1, ;41.41'>.'5'' ; , / M / 4<.' ,4' 6.6'64067>4768' 6 5' V .<' ' 8' 6, 7' ?'1'>.6' : , / ' / .6'>.'5, ' ; , < / 6'>' ; .7' .EE.7' ?'1'5'' < / < ; ?'07.%

" 55%' 41' <'>> ,<>'5 ,4'>.6' ; 7,V.<6' ,4'>4' ?1, ' .<1.41'>.'5'' ; , / / 4<.8' 5.'Q4J.'>.'?' @' ?,411''>,<<.1' 54 ' '4>'7' > ' / . 4 8' .78' '?1.6' 5.6' .;5' 1; 66. / .<76' <; ; .66 1;68?1,<, ; .1'' 6.5,4=4 5'.67> 7' .<5<17%' " %

" 55%' '<6'5.6'5 .4@' ' ' < V '' 1) ' & ' 'Q' @8' 5.' 1 044' '>.'?,5 ; .' ; ,11.;7 ,<<.55.'6.1'' ; 4 / ?, '>4' Q4J.'>;'?' @' .7'>.' >.4@' '66.66.416I' >'<6' ; .4@' , 5' 5'V '' >.4@'Q4J.6'>.'?' @8' '6.1'' ; , / ?,6>'>.' ; .6'>.4@'Q, ' J.6' .7'> 44'6.45' '66.66.41%

" % '<6' 5.6' - 5.6' , 4 5' V '' 71, 6'Q4J.6'>.'?' @8' 5.'71 04<'5'>.'?,5 ; .' ; ,11.;7 ,<<.55.'6.1'' ; , / ?,6.'>.' ; .6'71, 6'Q4J.6I' .7' ;<' ; '6'> '06.<;.'>.' 4'' > .4@' 5' 6.1'' 1. / ?5' ; >'?'1' 4<'>.6' '66.66.416%

" % '<6'5.6' - 0.6' =4 ' ,47'?546'>.'71, 6'Q4J.6'>.' ?' @' .7' <, <6'>.'6 @8'5.'71 04<'5'6.1''>.'71, 68' =4 '6 . ' J.1,<5>. / '< .1. ; .=4 5.<' 6,17.'4<' .0'=4.' / , 68' " ' '<6' 5.6' - 0.6'>.' Q 546' >.' 6, @'<7.' / 75.' > / .68' 5.'71 04<'5'>.'?,5 ; .' ; ,11.;7 , / ;0.'6.1'' #3c<' ?,6;'>.'6 @'Q4J.6'>.'?' @8' , 48' '' 5.41'>.E' 78' > '66.6' 6.416%' ' 6'6;1- 1,1 5'?'1'7,41' .7'?,411,<7' 6.' > - 6.1.<' >.4@' ; : ' / 017 %

" 5%' ' % 1 6' 5' 6.1'' ; , / ?,6.' ' < .4E'Q4J.6'>.' ?' @'6.1- '<7'?'1'5, 41%' '7 . >1'' 4<.' '4> .<; .'7,465.6' Q,416' .7'?,411''6.'> - 6.1' ; '71, 6' ; : ' / 5 1.6%

" 5 % .'J1;E5 .1'>4'Q J.>;'?' @'6.1- 1'' '7 ?1 ' &c4' 71 04<'5'>.'?,5 ; .' ; ,11.;7 ,<<.55.'>'<6'5.6'5 .4@' , 5' ; .'71 04<'5'6.1'' 7.44' ?'1'5.'Q4J.'>.'?' @' .7'>.4@' '6' 6.66 4 6%

$" "% '<6'7,47.6'5.6' - 0.6', 5' 5.'71 04<'5' >.'?,M 5 ; .' ; ,11.;7 ,<<.55.'6.1'' ; , / ?,6>' >.' 71, 6' Q4J.6'>.' ?' @8' 5.' ; ,1?6' / 4< ; ?'5'<, / / .1'' 4<' J1.E5 .1%

% '<6'5.6' - 0.6', 5'5.'71 04<'5' >.'?,5 ; .' ; ,11.. ' 3 / >5.' 6.1'' ; , / ?,6.' >.' ?546 .416' ; : ' / 01.68' 5.

J1.EE .1' ?1J6. / . " '4;'<7 ' .; , / / J1;E: . 6' =4 75 V
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[Q ' 67'<; .' .675 .1 ' " 71, 6 : .4 .6

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' ' 4 ' ' %%' '1.67.' .<; / 8 ?,41'
;, / ?5.7.1' '66 .77.'>.'5"; ,<71 047 ,<'E,<; .1.8 "67'
74.1' 641'5.' / ,>.' >>-'54'7 ,<' >.6 F AA! ' '
A ' ' ' * J' .7 >.6 4)' ,71.'; , '
$/ 7>'>.6 ; ,<71 047 ,<6 ?405 =4.6" '1>/ ' .@' / .<'>.'
; .6 ,0Q.76 >'<6 4<' <>/ .'1'??,178 .7 .' >.;1.7=4.'
'1.<>1.0<.'5' 66.1<'?5461 .<'> <;.17' <'>'<6'5.6'
%,?.1'7 ,<6'>.6 _Y1?6 '>/ < 651'7 E. .7 '>.6% / 4< ; ?' '
V' 7.68'?,41'5" , ,<E.;7 ,<'>.6 1>5.6 <' E_ [' \\
'17% " 55 >4' 5 71.' ' >.'5"5, '>4' 5W1Q>>,W<01.'
% (* ' ">>7.1 / <>5" / .< 1.'>, 7,<'>.1' 7E' 1.'5\>'
-'54'7 ,<8 6, 5'>.6 7< 55 60' 6, 7>.6 E47' .6 . ' , / ?;6
N1e5. .6I' 6, 5'.<; ,1.'>.6 7' 55 6'>,<7 5.6 . ,4?.6=.'6,<7
'?'6' 1.J45 .16G' .7 ; .6'>.1< .1.6 6,<7I'?'1' '17% " "'
>55 5 71.' ' >.'5" '/>/ .'5,78 .-'54. 6 ?'1'; , / ?'1' 6,<'
'-.;'5.6 '471.6 0, 6'>,'?'V6% <'<.'?.<7 ?'6 64 / '5"
/><.' />7: ,>.'?,41'5.6 E47' .68 ?'1; .'=4.' <6'J.'>.'
5.6' ' / .<'J.1' .<' ; ,4?.6 1.J5. .6 < 5'<7 ?'6 J.<.1'58
,<' / '<=4.1' 7 6,4-.<7 >.' 7.1 / .' >.' ; , / ?'1' 6,<'
<,<' 6.45. / .<7 >'<6 5.' ;'<7,<8 / ' 6 />/ .' .<; ,1.'
>'<6 5.'> 671 ;7 ,4'5.'>>?'17. / .<7I' .7 > ' 55;<16 ?'1; .'
=4.'5.6 > 5E>1.<; .6 >.' -'5.41' >.'E47' .' " E 74 .'>7'<7
%0.'4; ,4?' ?546 -'1>. " =<.'>.'7' 55 6 " 7' 55 68 5.6 .1'
1.416 6.1' .<7 0.'4; ,4?' ?546 E1>=4.<7.6 .7 0.'<; ,4?'
?546 ; ,<6 >.1'05.% <' '471.'>5>/ .<7 1E.6 <7; 1.66'<7
>'<6 5.6 > 6?,6 7 ,<6 =4.' -,<6 ?1.<>1.0 " ; .7>J'1>'8
. .67 5' '5,<J4.41'>4' 7. / ?6 ?.<>'<7 5.=4.5 5.' ?1,
1 .7' 1.'>.'E47' .6 <.'Q,4 66.<7 ?'68 .7 ' VQ, <'
1.0 641. / .<7 '4 . '5" ; ,<6 >>1'7 ,4'>.' / ?,17'<; .'
>,<7 5 .67 >.'<.' ?'6 >>, ,41'J.1' ; .4@ =4 '6.'?1 -.<7
> 4< 1.-.<4' '<<4.58 ?,41'5' 66.1' " ; .77.?1,>4;7 ,<'
47 5.'5.'7. / ?6 >.'?1.<>1.'4< ' ; ;1, 66. / .<78 =4'6,4'
-.<7 '06,10.'?546 .416 J><>1'7 ,<6 >.'?1,?1 <' 1.67
,71.'; , / 7>' '5,<J7. / ?6 .@' / <.'6 5 / 55' 7 '66<'
Q.75 1'; .J.<1.'>.'?1,?1 >7>E,<; E.1.' "4<.'; ,<71 047 ,<'
4<44 .55.8 ,4'6' ' ,<'>.1' 5 '77.<>1.'5.' / , / .<7>.'5"
; ,4?.'?,41'?.1, .1, 18 641'6" -'5.41I' ' ; .77.'>?,=4.8
4<.'6?/ / .' ?1,?,17 ,<<.55.' '4'7,4@'>.'5" ; ,<71 0<'
R7Q,K' E,<; .1.' %641' 5.6 '471.6 ?1,?1 .7>6 I'5.' >.1< .1'
?'17 E'1' 1' ' '<'?1. / .1' ; ,4?'>; . 58'5.'?546' / ?5.I
'< ' 6 ,4.5=4.6 1. E5.@ ,<6>>/ ,<71.1,<7=4.'5" ?.1; .?M

7 ,<' '<<4. .' .67 ?546 ; , E,1 / .' '4@ ?1 E ; ?;6 =4'
>, -.<7 1.J5.1' 5.6 ; ,<71 047 ,<68 =4G.55.'6.' ; ,<; 5 .'
'-.;'5" 467 ; .8 .7 / >/ .'466' '-.;' 5" E'-,41'=4 / .'
6'J.' ?,5 7 =4.' ?.47% <6? 1.18 .7 =4.' 1'>,?7 , ' >.'
1'471.' / .7: ,>.' 6.1' 7 >.6714;7 -.' >4' ; '>'671.8 64<6
5.=4.5 -, 6 <.'?, -.0 .6?>1.1' 4<.'0,<<.' '66 .77;'>.'
5" ; ,<71 047 ,<'E,<; .1.%
' ' .EH.7 5.6 ; ,<71 047 ,<6 >, -.<7 6.1- 1' '4@ E1' 6
>. " ; ; ,6.'?405 =4.8 .7 ; .6 E1' 6 .@ J.<7 4<.'1.<7 ' .'
'<<4.55;' ?1,?,17 ,<<>.' '4@ 0.6, <6% .6 7'@.6 <> '
1.;7.6 <.' ?.4-.<7 ?'6 >71.' '664Q. .6 " ; .77.' 1.<51..'
E@.' .5 ; .15' <.8 ?'1; .' =4.8 1 ` 457'<7 >.' ?546 .416
5. / .<76 -'1 '05.68 5.41' ?1,>4 7 ?'17 . ?.'5' <; .17 '
74>.'>.6 0'6.6I' / ' 6 5.6 #,<71 047 .<6> 1.;7.6 ?.<-.<7
'-, 1' .. 7' -'<7'J.8 .7 . .67 ; .'=4 '-,46 " >.7;< <.6 '
>7'05 1'5" ; ,<71 047 ,<'E,<; .1.' .7'5" ; ,<71 047 ,<' <, '
0 5 ;1.'6,<6 5" E,1 / .'>.' 491.W7 ,W8 .7<,<' ?'6 ,46
..55.' 0 ! ' ' 1 / ' =4 '< '41' 7 ?'6 '6641>'
'4 71.6,1' ?405 ;'>.6 E,<>6 E@.6 .5 ; .17' <6% #.'?1< '
; ?.'E,<>' / .<7'5 >, 7 1.; .-, 1'6,<' '??a;'7 ,<' >'<6
; .' ;'6 ; ' ; , / / .' >'<6 7,46 5.6 '471.6% ' 5" >17>'5.'
?1,?1 >7' 1.'>.'E47' .'<.'Q,4 7 ?'6 > 4<'1.-.74' '<<4.58
/ ' 6 . .67 6" -,5,<7>8 ' ?'1; .'= 55 ?1>E71.'> ' ; '
;4 / <5.1' 4<' 1.-.<4' =4 5 ?,411' 7 7,4; : .1' I%5 1.6 '
6. / 05.' '?4< : , / / .'=4 8 ; :'=4.' 0>.8 ?5' ..1' 7 5.'
?1,>4 7<.7 >.6?<' ; : ' / ?8 .7=4 ' < '41' 7 ?'68 >'<6
; .7 46'J.'>.'6"1 ; : .66.8 4<'5 71.'-'5'0 .'?,41'6.'6,46 '
71' 1.' " 5" ; ,7.' '< .55.' " 5'=4.55.'6, 5 ; ' <?'6.1' 7
7'@.% ,47.' ?1,?1 >5>'Q,4 7 ; ,<7 <4.55. / .<7 >.' 5"
?1,7.;7 ,<' ?405 =4.' .7 >, 7 ; ,<71 04.1' '4@ E#'76 >.'
; .77.'?1,7.;7 ,<8 =4.55.' =4.'6, 5 5" / '< .1.'>,<7 7
?5' 7 " 6,<' ?,66.66.41'> 46.1'>.'6,<'1.-.<48%
" ?.1; .?7 ,<8 '4' / , / .<7>.'5" ; ,4?.8 6.1? 7>'<6
5.'J.<1.'>.6 7'@.6 641' 5.6.'? 7'4@I' ..'6.1' 7 4<' -.1 M
7'05.'>1, 7>.'5,76 .7 1.<7.68 .7 <; ,<->< .<7>.' '
;6?.; .6 >.'>1, 76 .67 5.' / ,7 E=4 '-,W6 " ?,17>6 " ?-, '
'; '1.1' 5.41' .@7 <; 7 ,<' .<'E'; 5 7'<7 5.41' / : '7I'< 6 8
?.<>'<7=4.'> 4<' ;97>' -,46 ; : .1; : .0 '5.6 5' 1> '6 '
6.18 -.46 <.'5.61>7'05 .0?'6 <<'471.% ' % ' 7><'
\B'E'4>1' 7> ' 55.416=4;' ; .77.?.1; .?7 ,'>-.7 5<.75.'
.7 11>J45 .1.'EE 7 .<7 .1. / .<76>?'1>.'>.%5" . ,<71 07 '
7 ,<'E,<; .1.' '<<4. .8 [. .'5'=4.55.'5.55. [. '4 / 7
6. , , / 0 <.1% .55.'; , / / 41 '47>>,<7 '= ,7. t?' .'
6 ;5.-.1' 5 ?'6 >' ' ,4' ' / 5 .5 -1.6?.47 1. E.11',1'
4<.'E47' .'>,<7 5" ; ,4?.' -'4>1' 7 ' / 55.'5 - 1.68 E.7
>, / .1' 7 5 .48>' [5" ?1,?,17 ,<7 @>.'<6 @ .1' .?,771'
(* 8 " 4<.' ?.1; .?7 ,<'>.' ' / 55.'5 d.6 I\'5,1K>.'
>.4@' ; : ,6.65 4<.I' ,4'5"=4,7. ?'17 >.%5" ; . / / '<'4: '
6.1' 7 <455.8 / >/ .'?,41' ?546 .416 '< >.6 '> 5.?1, '
?1 >7' 1.<.'6.1' 7 7'@>'=4 " 4 .6, / <.'7. .6 <E.g .7 .'
" ; .55.'=4 5'>.-1' 7 ?'V.18 =4.5=4.'E,17.'=4.'?E77>7-;'
5" ?,17 ,<' =4 ,<' 54 ' '66 J<.1' 7 >'<6 5" =4,7. ?'17 >.'
5" ; , / / 4<'47>% '<6 5. ;'6 , 4 ,<' '>, ?7.1' 7 " ?.1M
; .?7 ,<' . -.<54.55.8 5 6.1' 7>,<.'<>. .66' 1.'> .<'E,1M
/ .1' 4<.' 01'<; : .'?'17 ;45 >1.'>.' ; ,<71 047 ,<6% \'G
'6 '5,16 7,47.' >; ,<, / .'>4' ; '>'671.'6.1' 7 >>'
1'<J>.' I' ; : '=4.' '<<>.' 5 E'4>1' 7 .<' > 671' 1.' 5.6
7.11' <6 >,<7 . / ?5, ' .<' E47' .' 5. ' .<5.-. ' 7>' 5"
; ,<71 047 ,<' '<<4.55;8 .7 ; : '=4.' '<<>' 5 E'4>1' 7 V
E' 1.'1.<7 .1' .6 7.11' <6 =4 8 >>?,4 55. '>.'5.416 E4 '
7' ;68 6.1' .<7'5E.;7.6 " 4<'471.'J.<1.'>.' ;45741.% #.6
-'1 '7 ,<6 6.1' .<7 7 ,? ; ,<6 >>1'05.6 ?,41' ?,4-, 1'
5.6 ; ,<; .<51.1' >'<6 .6?' ; .' > 4<.' ; , / / 4<'47>'I' 5
E'4>1' 78 ?,41'= .'5.41'Q.4'<.'E47 ?'6 1.6 <4 6 :5.8
5.6 1>?'<>1.'641'5.'> 671 ;7 .<7 .18 ?.47 U71.'77> : .'6 ['
7,47 5.'>.?'17. / .<78 .7 >.' >'1;6457.1' 7 4<.' <67'0 '
5 7>' ; ,<7 <4.55.' >'< ' '66 .77.' > 4<.' ; ,<71 047 ,<8
>,<7 ?1>; 6. / .:7 <-'<7'J.' .67> '6641.1' '4@ . ,<71 '
04'05;64 .' ?1,?,17 ,<' ; ,<67'<7.8 .7=4 8 ^,16=4 >"
0,<' #'>'671.' 54 6.1- 1" >.'0'6. '6.1" <' ; ; .66 05.' >
7,47 '10 71' 1.% $ % % '
,71.'; , / 7>8 .66 .4168 " ?.<6>' =4.' -,46 <.E' ' '
5'<; .1 .6 ?'6 >'6, / .771.'E.6 E47' .68 #, / / .'7,47.6
/ QJ' ; ,7 6,7 ,<' >
U

<4.55.8 .7 5 6 .67 , ; ;4?V >. - ,46 ?1.6.<7.18 ?,41 '6
6., 1 _e77. ; ,7 6'7 ,<8 4< / ,>. > >-'54'7 ,< =4 ? 7
1. / ?5 1 -,6 -<.6 >. 67 , . .7 / / . >. E'-.41%
7 " .1' > '0,1_ >.-, 1 >.7.1 / <.1 5J. '<=4.5
4< 0, 6 ' ;74.55. / .<7 .@ 67.<7 >.-1< 7 71. ; ,<6 >>1.
; , / / . E47' .8 ,4 ; , / / . >.67 <> " >.-.< 1 E47' .8 ;7
71' 7> ?=41 6,< >-'54'7 ,<8 <,< ?546 > '?1 6 5.6 > 6M
?,6 7 ,<6 >. '178 " " >4 7 71. >. 5" 5, > D >.
; . / 01. (* 8 / ' 6 > <?1.6 5. / ,>. =4. -,46 '55.0
?1.6;1 1.N 5.6 ' / ><'J. / .<76 >.6 7' 5 5 6 .< ; ,4?.6 1.
J5>.6 ,47 >.6 ?>1 ,>.6 > EE.1.<76 I ; .54 >. - <J7 ; <=
'<6 . 7 '?.< ? 1 5. ?546 5,<J =4 6, 7 .< 46'J.I / ' 6
5 V .< >. 0. '<; ,4? ?546 ; ,41768 ; 7 -,71. ; , / 7>"
?.<6> =4 .<71. ; .6 > -.16 J.6 ; .5 >. - <J7 '<6
.7' 7 7.1 / . / ,V.<8 '4 >; " > =4.5 4< 0, 6 =4
< '-' 7 ?'6 .<; ,1. >7> .@?5, 7. ?,4-' 7 971. 1.J'1>>
; , / / . >.67 <. ? '16,< ?1,?1 >7' 1. ' ;1, 51. .< E47' .I
5 -,46 ?1,?,6. '466 > ,1>,<<.1 =4 5 6, 7 E' 7 >'<6
5.6 ; , / / 4<'47.64<. -'54'7 ,< >.6 0, 6 ' ;74.55. / .<7
J 6 >. - < '<6 .7 '4 >.6646 =4 <. 6?<7 ?, <7 .<
; ,4?.6 E>J5E.%

< '<1'8 ?'1 ; .77. ,?.1'7 ,<8 5" -'5.41 ' ;74.55. >.
; .6 0, 6I / ' 6 5" ; ,7 6'7 ,< >, 7 >71. ! 2 > '?1.6 4<.
64??,6 7 ,< >. 1.-.<4 .7 <,< ?'6 > '?1 6 5. ; '? 7'5%
18 ?,41 64??,6.1 5. 1.-.<48 5 E'47 '66 / 5.1 5.6
0, 6'4" '471.6 ?1,?1 >7.6 7.11 7,1 '5.6 =4 1'??,17.<7
.< J><>1'5 '4 ?546 71, 6 ?,41 ; .<7 >. 5.41 -'5.41 ; '
? 7'5. N 5 E'47 ; ,<6 > 1.1 '466 =4. 5.6 0, 6 .@ J.<7
44; =4.6 E1' 6 > .<71.7 .< .7 >. J'1>.8 .7 =4 5 .67
4 <<. 0,<<. ?,5 7 =4. > .<; ,<1'J.1 5.41 ; ,<6.1-'7 ,<%
'?1 6 / ,7 E68 -,71. ; , / 7 -,46 ?1,?,6.1" >. <.
5 @.1 5.41 1.-.<4 64??,6 =4 '>.4@ .7 >. / ?,41 ; .<7
>. 5.41 '5.41 .67 / ..8 .7 >. / ' <7.< 1 ; .77. 5 @'7 44
Q 6=4 '4 / , / .<7 , 56 6.1,<7; ,4?.68 ; . =< .67Q467.8
?'1; . =4. ' ; ;1, 66. / .<7 >. -'5.41 =4 56 ?,411,<7
' ;=4 1 1 >.?4 6 1.-'54'7 ,< =4 -" 6 .< E' 1. Q 6=4 "
5.41 ; ,4?. 6.1" ?,41 5. ?1,?1 7' 1. 4<. <>. / < 7.
?1,?,17 ,<< . '1'-'<; . =4 < '41" E' 7. >. 5" ; ,<71 M
047 ,<8 .75 ' 1 ; , / ?. 6. 5.J 7 / . >4 0 .< ?405 ; =4 5
'41" ?1, ;41 .< ; ,<6.1-' 7 4<. ?1,>4;7 ,< ?1. . .46.
#. ; -" 6 ;5' 1; 1 ?'1 4< .@. / ?5.%

4??,6, 4< 0, 6 >,<7 5" -'5.41 ' ;74.55. 6, 7 ' .
C8 5 V%I 6,< 1.-.<48 ? 6 / . > '?1 6 5" 10J5.
?1,?,%6 .; >.66 68 6.1" >. 5 -%8 ; 5 . .67 ; . 1.-.<4
?1.64< =4 6.1- 1" >.0'6. " 5" ; ,7 6'7 ,<% <6 8.<
(* 8 ,0 5. ?1 <; ?'5 >. 5" ; ,<71 047 ,< E,<; 1. .67 '4
6 @ <.8; . 0, 6 6.1" ; ,5 %6.%" 5 -% > ' K5.6' / ;
64 -'<7;65.7'<@ >4 ?1 <; ?'5 >.5" ; ,<71 047 ,< -'1 .8
5" ; ,7 6'7 ,< >4 0, 6 64 -1" 5.6 / / .6 -'1 '7 ,<6 =4.
; .55.6 >.6 '471.6 0 .<6I / ' 6 5" 0'6. > -'5 '7 ,< 1.6
7.1" 5" / / .8 .7 ; . 6.1" 7,<Q,416 > '?1.6 4< 1.-.<4
64??,6 >. '5 -% =4 5 6.1" ; ,7 6. Q46= "6" ; ,4?.%
,V,<6 / ' <7.< '47 =5 .5 6.1" 5. 6,17 >.6 ?1,?1
7< 1.68 1.5'7 -. / .<7 ' '@ > EE.1.<76 J.6 =4. ?.4-.<7
'-, 1 ' ;7 .57. / .35 5.6 0, 6% ,46 ?1.<>1,<6 ; .<7 '<6
?,41 5. 7.E / . / ,V.< >. 5" = 4?. ' .6 E47' .68 .7 <,46
64??,6.1,<6 > '0,1> 4<. E47' . >. =4'71. - <J7 > @
'<68 -'5'<7 C8 5 -% 55. 6.1" ; ,7 6. " 5 -%I .7
5. 7'4@ >. 5" ; ,<71 047 ,< 1.67. 5. / .8 .< > @ '<6
5. ?1,?1 7' 1. '41" ?'V. 5 -%8 ' @=4.55.6 5 E'4
>1' 7 'Q, 5.1 <7.1.7 J1'>4 5 >. 5" <,<Q, 66'<; .
?.<>'<7 ; .6 > @ '<<..68 5" '5.41 ; '? 7'7. >4 0, 6 6.
6.1" ' ;14.I .7 ?.47 71. =4 '45 .4 >. C8 5 -% 5
.< -'4>1" ,4 U%

8 '4 5 .4 >. =4'71. - <J7 > @ '<68 5. 0, 6 6<??,6
< .< '-' 5 =4. 8 5" 6, / / . >.6 ?' . / .<76 E' 56 ?'1 5.
?1,?1 7' 1. 6.1' 7 >. C 8 5 -%I / ' 6 " 1' 6,< >. 5"
<,< Q,4 66'<; .8 5 E'4>1' 7 .4 ?1.6 71 ?5.1 ; .77.
6, / / . ?,41 ; ,<<'771. 6" ; ,<71 047 ,< 1 .55.% #. 6.1' 7
>,<. (8 5 -% .<- 1,< =4 ,< ?,411' 7 .-'54;1 5"
6, / / . >. ; .77. ; ,<71 047 ,< 1 .55. ?.<>'<7 '<6I
/ ' 6 '466 5" -'5.41 >4 0, 6 6.1" ; ,<6 > 1'05. / .<7
'4J / .<7 .8 .7 5. ?1,?1 7' 1. 1.71,4-.1" >'<6 ; .7 .
;1, 66. / .<7 5" Q467. <>. / < 7. >. 6" <,< Q,4 66'<; .8

<E <8 6 '4 5 .4 >. ; <=4'<7. '<6 <,46 6<??,6,<6
5. 0, 6 J 6. 5. / .<7 >. - <J7 '<68 <,46 71,<-.1,<6
> 4<; 7 5" 6, / / . 7,7'5. >. 5" ; ,<71 047 ,< 0.<4; ,<?
? <6 E,17.8 .7 >. '471. ' ; ;1, 66. / .<7 >. 5" -'5.41
; '? 7'7. 0. '<; ,4? ?546 ; ,<6 >.1'05.I <,46 71,<-.1,<6
'466 .<71. ; .6 >.4@ J1'>4'7 ,<6 4<. ?1,?,17 ,< '66.0
Q467.8 .7 <,46 -.11,<6 =4. >'<6 '4;4 . .?,=4. 5"
; ,7 6'7 ,< <. 6.1" '66.0 E,17. ?,41 .<J'J.1 5. ?1,
?1 .7' 1.8" ; ,4?.1 ?1. / '5 1. / .<78 ?'1; . =4 .5 ' ;
;1, 66. / .<7 >. -'5.41 =4 ' ;= .11" 5" ?1,?1 .7 <
>. / < 6.1" >. '-'<; . =4 5 E.1" >. 5" ; ,<71 047 ,<8 .7
=4. ; .54 =4 ; ,<6.<7 " '0'<>,<<.1 6"Q,4 66'<; . '<
< .55. ?,41 '4J / .<7.1 6,< ; '? 7'5 ,4 ; .54 >.6.6
.<E'<76 ; ,<6.<5 1'8 > ?1.6 5.6 / / .6 ; , / 0 < '6,<68
" E' 1. '-'<; . > 4<. ; ,<71 047 ,< >,<7 5 ,< 6.6 .<
E'<76 1. ; ,4-1.1,<78 '4 / , / .<7 >. 5" ; ,4?.8 4<. Q467
<>. / < 5 %

,47 '4 Q 546 ; .77. / .7: ,>. ?.<7 '-, 1 .EE.7 >. >.M
7.1 / <.1 ?1,?1 ;7' 1.6>. 0, 6 " 5.6 ; ,<?.1 5,16=4.
5.41 ' ; ;1, 66. / . 5 >.- .<>1" 71,Q E' 05. ?,41 5.41 '6M
641.1 ; .77. <>. / 1 7 I / ' 6 ; .77. Q ,=4. .67 A
/ .<7 ; .55. =7 .67 <> =<. ?'1 5" <'741. ?,41 5"
; ,4?. >.6 0, 6% .67 ?1,4-. ?'1 5.6 ,06.1-'7 ,<6
&.7 ,< ?,411' 7 ; ,<6 57.1 " ; . 6 Q.7 5.6 ,4-1'J.6 >.
% : '< .58 >. K EE,< .7 '471.6 6'-'<76 =4 ?<7
1 ?'<>4 >.6 54 / 1.66 1 " ?:V6 =4. -.J.7'5.P =4.
>.6 =4 4< '101. <. . / 7 ?5468 5 >.?.1 78 .7 =4. 5.
/ , / .<7 5. ?546 '-'<7'J.4@ ?,41 .@?5, 7.1 .67 ; .54
, 8 5" ;1, 66'<; . 6. 7.1 / <'<78 5. >.?.1 66. / .<7 ; , / M
/ .<; .I ; : '=4. '<<. . =4 ,< 5. ; ,<6.1-.1' 7 >. ?546
-.11' 7 > 1' <4.1 6" -'5.41I ' <6 5. 0 .< >4 ?1,?1.
5' 1. .7 ; .54 >. 7'7 <. 6,4EE1 1,<7 ?'6 >. .%6?.; .
>. ; , 6. 5 =4. 5" E,1 / . >. ; ,<71 047 ,< 7'05 . ?,411"
>,<<.1 '4 ?1. / .1 6 1 ?,=4. ,4 5 >.-1" ; ,4?.1
6.6 0, 6% ,47 ; ,<; ,417 >,<. " -,46 5" E' 1. '>,?7.18
?4 6=4. Q467. .< .55. / / . .55. 1. / ?5 7 -,6 -4;6
?,41 5" ; ,<6.1-'7 ,< >.6 0, 68 .7 44 .55. / ' <7 .<7 5.6
?1 <; ?.6 641 5.6=4.56 -,46 '-.0 E,<>. -,71. 6V67 1,
>. ; ,<71 047 ,<6%

'6 ; .6 0, 6 6.1,<7 ; ,<? 6 4<Q,418 .7 '5,16 5. 7.1M
1' < =4 5.6 ?,17' 7 6.1" / ' 7.<4 .< <'741. >. 0, 68
,< 6.1" '??5 =4. " =<; =4. '471. J.<1. >. ; 45741.I
>'<6 5. >.1< .1 ; '6 5 1.<71.1'8 ?,41 5. / ,>. >.-'
54'7 ,<8 >'<6 U ,1;51. >.6 '471.6 ?1,?1 .7.6 7.11 7,M
1 '5.6I / ' 68 6 5 1.67. .< <'741. >. 0, 68 ,< ;67 < .1"
; . =4 5 ?,411" -'5, 1 J. >. - <J7 '<68 .7 ; .77.
-'54'7 ,< <. 6.1Z ?'6 > E5 ; 7.8 ?4 6=4. ,< 71,4-.1"
?'17,47>.6 7.1 / .6 >. ; , / '?"1' 6,< -, 6 <6% .6 >.4@
.7 >. / ?,41 .<7 >. ; .77. -'5.41 .67 / .. 6.1,<7 5. 1.M
-.<4 ?1 64< = 6.1- 1" >. 0'6. ; ,467'<7. " 5" ; ,7
6'7 ,< 7'<7 =4. 5. 0, 6 6406 67;1'%

5. ?1,?1 7' 1. 5. / .7 .< ; ,4?.6 1.J5 .68 5 1.<M
71.1" >'<%6 ,1>1. ?1.6.<7 ?'1 '17% " 55 >4 5 71.
>. 5"5, >4 5.- >. ; . / 01. (* 8 .7 6.1" ; ,7 6. > 'Q7E 6
5. ?1 @ / ,V.< >.6 ; ,4?.6 '<<4>5.6%

8 < ,0Q; ;7.1" ?.47 .71. =4. ; .77. / .7: ,>. ?,411' 7
?,17.1 =4.5=4.6 ?1,?1 .7' 1.6 <. ?, <7 ' / .4'J,1
; 16 0, 6 .< # 4?.6 1.J45 E.1.6I / ' 6 5 .67' 6. >. 1
,1>1. " ; .77. ,0Q. ;7 ,< ?'1 <7,1 7 / / . >. ?1.6 / .
7,<6 5.6 ?1,?1 .7' 1.68 =4 .67 .< J.<.1'5 ?546 6'7 67' 7
?'1 4<. Q,4 66'<; . '< / .55. &Q . ?'1 4< 0.<. ; . ?546
?<<>8 IQ ' 6 .-.<74.5I ,< ?1.<> 5. ?'17 7 .6' ;1 5 .1
: ?1. / .1 4<. 6?. ;45'7 ,< ; ,<6 >.1'05.8 ; , / / .
; .55. > .5; -.1 <<. E47' .8 [' 6, ,< ?'6 5" 71.6 ?. 7.
6 '7 6E' ;7 ,< > . J'J<.1 '< 0, 47 >. - <J7 '<6 =4. : 4.
; : ,6. >. ?546% <6 7 <; ,<- ; . 7 ?1.-4 ?'1 5 ,0Q; ;
7 ,< < .@ 65. ?'68 ,4% 6 .67 ?,66 05. =4 5 ' 7 5.4
= .5&c)E, 68 5 6.1" ; ,< ?.<6 ?,41 7 17 ?'1 '-'<
7'J. 5,<Q,416 < ;5 > .<; ,41'J.1 <<. ?1,>4;7 ,< 47 5.%
3 4'<7'77" 7.11' <6 7Q4. ,< ?5'<7.1" <,4-.55; / .<7
.< 0, 68 5.6 '17 ;5.6 .7 " >4 7 71. >. 5" 5, 4
7 .7 > ; . / 07; (* ,<7 1.J . 5.41 / ,>. >. ; ,56 5.
Q46=4 71. 77, '<6I 5,16 >,<. =4 56 '41,<7 ' ;=4 6 ; .5
J.8 6 <. 6.<7 ?'6 .@?5, 7>6 ! ; ,4?.6 - J5..68 5G

D'APRÈS PRIEUR.

Typ. Henri Plon.

Triomphe de Voltaire (11 juillet 1791).

Réimpression de l'Ancien Moniteur. — T. IX, page 107.

6.1,<7 -'54 .7 ;,7 6>6 Q46'B 5WW1;, ?W > '?1E.6
5.6?1 <; ?.6>7'05 6?,41 5.6E47'E.68
.6 * 6,45 4<; '471. .6? `;.>. ?1,?1 7>
E,<; E.1.=4 <, ?1.6.<7, ?<64?1.-.<4 '<<4.5% .7>,<7
5. ?1,>4 5=4. 1.7 1.5. ?1,?<>7' 1.5,16>. .@? ,
7'7 ,< .678 ;, / / . ..54 >;] 0, 6 E47' .68 4< ;'? 7'5
E,1/ . ?'1 1';.</<5'; ,< >. E.V.< 6 >,<7 5'Q,4 6
'<;. ' >7> 6 '?.<>4. ?.<>'<7 4< 7./^P6 ? 776 ,4
/ , <6 7,<J% < .EE.7 5.6 7.11' <6 7,410. 6,<7 .< J.M
<.1'5 4< / '<1' 6 6,58 .7>, 7 5' ?1,>4;7 ,< 0,1<.. ?
=4.5=4.6E,411'J.6 .67 ?.4 ?1,7 7'05.% . 7, 10'J.
.67 '66.0 54;1'7 E8 / ' 6 >41. ?.< >. 7.< ?6I .7 5,16
=4 5 .67>E 4 6>8 5. 7.11' < ?1.<> 4<. E';. 4,<-.7 .8
=4.5= .E, 6 ?546'1'<5'J.46.=<.>'<6 .7'7 '<7.1 ;41
'4 5, 10'J.8 =4.5=4.E, 6 .<;,1. ?546 / '4-' 6.%
% !.7 .@?,6. / ,<71. 5'<.;.66B> >. > 6?,6 7 ,<6 ?'1
7 ;45 1.6 ?,41 5' ;,7 6'7 ,< >.6 7.11' <6 7,415 .%
,71. ;, / 7. -,46 ?1,?,6. >. ?,17.18 ?.<>'<7 > @
'<<..68 5.41 .-'54'7 ,< '< >,405. >. 5' 6< / / . ' 5'
=4.5 . 56 >7' .<7>-' <>6 641 5. 1>7. >. '<<>. =<
'41' ?1.;>>> / / .> '7. / .<7 . .55. ,0 5. 7,<10'J.
'41';, / / .<;.8 .7>. 5.6 6,4 / .771.8 '?1 76;.7 .6?'..
>.7. / ?6 8 ' 4<. -'54'7 ,<<,4-.55.8 1 J7>.;, / / .
;.55.>.7,47.65.6'471.6?1,?1 .7 68 > '?1.6 5.1.-.<4
<.7=< 56 ?,411,<7 E,41< 1 '5,16%
#.77. / .641. / ' <7 .<7 5.'?' . / .<7 '<<4.5=4.-,46
'-.0;,<6';1.;, / / .4<>.]'?1 <; ?.6E,<>' / .<7<4@
>.5';,<71 047 ,< E,<; 1.I 5.>,405. / .<7 > -'57 '
7 ,< ?.<>'<7>@ '<< .6 ?1,;41. 4<.,7 '7 ,< ?546
E,17.6'<6 71. 71,? J1.-'<7.8 ?.47 71. /) / . .67 .5 .
E'-,1'05.8 / ' 6 <;.17 74>. >.;.770 .6?.;.>. ?1,
>4 7 Q467 E . ;.77. E'-.41I .<5 < -'54'7 ,< =4 '41'
5 .4 '4 0,47>. > @ '<6E.1'1;<71.1;.6 7.11' <6 >'<6
,1 .>.7,47.6 5.6 '471.6 ?1,?1 7.6 7.11 7,1 '5.68 .7
5'-'1 '7 ,< =4. ;.6 > EE.1.<;.6 > E'54'7 ,< '??,17.
1,<7>'<6 5.6 1,5.6 6.1' 2 ?. <.6.<6 05.%
?1 6 '-, 1 6,4 / 6 ;.6 > V.16.6 1 E5.@ ,<6 641 5.
/ ,>.> -'54'7 ,< .7>. ;,7 6'7 ,<>.60, E47' .68 >.
;.4@ >.67 < 6 7 5. >.-.< 1% .7 >.6 7,410 1.68 -,71.
;, / 7. -,46 ?1.6.<7. 5. ?1,Q.7>. > ;1.7 64 -'<7N
(') $'* *(*3 +4('.G9 '/(,'Q4$$ *,'4$4'
-('PI'+*'/ '(. *,'(,$*('+ (+.' 0+ (+.'+3,*((/(& 3 ,$'$$'
3 (' $ ' 4. - $'+$(*, * .(0(* (9+' -(2 (,-($
4 +.3(*,-(3(,,('0+ (+.
+ +' (') $'++=-(''4 ' -('PI' +*''(. *,.(4 ,('
,+$ $'(,3(, ' '3 (',4'
.'5+ *,(..+$* '(.+ (24 $,((*, *.)$(.(/ *
-0+$ (.+/ 4(*-+*, ('-$2+** 5+$'+$0. $$, (3 .* (*D
3((*, -+, *.)+9(/ ' *.(0(*+ +* - +) (-(+ (
+ +5+((,+$,(0+$*- %+ *(('4.(3(-(*,(
+ '(.+ #+$,'* ,(/ ' .3)+5+('.- (/-(%+**(($ - $,
'*,.3(- +) ((*, - (0+ ++ $ * 4.('3('-L2 **((' / ('
,(..+$*''(. *, 3 ,$'('3 *, (('+ ,.('4. 4.$(,('! :
('+.,$3 (' *,+- 4 ('+4.('+*('+''(U (9(.(-$'3+''$ *
V,$* -('@@ (' '(3.(,+$.(' $$, (3, .(-+*('+-.(''(-(
+ .++*$ $4+ - $2/ 5*Z <- 3$,(''( ) -(''*. + 3 *
- $,('(*(.9$5 ('5* (('+,(*+(-+*' + $.3 *',+*3(-$.'3$ (
-((0+'$ * -+. ,7 ((*('4+.,$3* -.($ (* ''( ) ((
-+0 $. '*'4(*-* (' ((3,$ * '/ (*,.+*,'4+.#+$,((*, +3(,
-9+.-+*' (' ,* ,$, ,.(''+9(' (,,.(''4 $,$5*('5*$ # *,
-(,(.$*$*((!
.J,4-.1<. / .<7?'V'Q7'471.E, 6 ;.<7
71.<7. 55. 5 -% '< ?'?.8 ?'1;. =4. 5' ;45741. >4
7'0'. 7' 7 ?1,: 0 . >'<6 5.#, / 7'7 .7=4. 5' H1'<;.
54 E,41< 66' 7>4 6.5% 4Q,<1>04 5' ;45741. >4 7'0'.
.67 5 01.8 5'J'0.55. .67 4 7?1 <..8 5 / .6. / 05.=4 5
.67 Q467. >. ;.66.1 >. ?'V.1 5.6 ;.<7 71.<7. / 55. 5 -%
#.77. ?1,?,6 7 ,< .67 '>,?7 .%
! ' 36 -(+*-(+ '*44.(''$ * -(',. $' (' 0
5 ((9 *0(*,((*, - **+$, + + 3)+).(+4 ', $5*(
- 0$9* *
+$ <1 7. 1'??,17 E' 7 ?'1 % K1,J5 .% 5.6>.;1.76 6< -''76
6,<7 5.,><6N %
W 5 66./05..'<'7 ,<'5.8 '?1.6 '-, 1 .<7.<> 7',<., <7>
K 5 ' 1.8 >.;1.7.;. =< 64 7N
8 . .,'B& $$% (4($$-+ $*(*, -(' ,$+$,(

(*,'!-2(' 4+. (' *((.($' *(' U' +0. / , 3$.(&
F +.'$ #/ ++2 +.(()+*2 -(.+*3(/ +,$2 (,(*+ '
9 *(.+ 2 3 +*-+*, (' -0'$ * '/ +*2 +. 3)+*2 -(
!3+ 4 (4 9-'/ ++2 +- *-+*#' 9(*(.+ 2 (, +* +$-(' -(
3+ 4/ '*$0+*, (*.'9.+-('/$ (*.'(.+ +33 .-(** *)$(
-(.+,$ * -('# *..+9(4. 4 .L$ **(2 (*, 9.+-(7 ++0 $./
BW + ()+5*(+.(3)+ -(.+*3((, 9(*(.+ 3 +*-+*,/
('+ 3)+5 ($(*,(*+* 9((.+ 3 +*-+*, -(-0'$ */Q
36+5*(+.(3)+, -(3+ 4 (4 8 /F 3)+5+(+- *-+*,
9(*(.+ * +$-(-(3+ 4 3 *(/P F 36+5*(+- *-+*, 9(D
* .+ * +$-(-(3+ 4 $(*,(*+*+3 *(/ W + ()+5*(+$-(
-(3+ 4
3(' .+,$ * -('# *..+9(' '(. *, 4+8 ('+*2 ##3(.'/
+ .+$' * -(' *, 4+. 4*. * -(WHI $0 4+.'+*/ -(
PPI '/(* +,$0((*, +0(3 (*.'+44 $*,((*,'/ (,'$'
*('4 .. *, (2$9(.5* ((' (*. $(, # .*$(' (* *+, .(
4(*-+*, + 9*(..(:
+ % ''($*) ('*+,$ *+ (/ $*# . ('4+. ('.+44 ., -(' *
($,($ $,+$.(-,'-(0 -*$($$,3$0$5 ('5*(('XPD.(9$ (*,
- *#+*,(.$('/'3$!-(0+*, - '+3(%/(, (D.(9$ (*,/3$!-(!
0+*, $2/ *, .*+*$#(',('+ $0(,/* * '(- ((*, (* '(!
.+*,'+ 2,.+0+*2 $$ 3(''+$,('+ + -((*+(-(+ 4 +3(/ +,'
(*3 .((* +0+*5+*, +.9(*, -((*. +''(/ (, (* (..+*,
++5 + (*.'4.(,'4 . ('+33((.(./-(3.(,('3('5*$ ' $,;
+ ., D% ('4. '$-(*,'(.+ 36+.9('< (3.$.(
+* * -($!''( ) ((*+,$ *+ (*((, .(-('+,$'#+3,$ *
+*2 GPD (, ` D.(9$ (*,'-$*#+*,(.$(D
S (GPD.(9$ (*,-$*#+$$,(.$(/ $!-(0+*, '+3(/ 3('!
'(.+ -('3((*, -%(,.('3 >4.$'-+*' ,+, -($*#+*,(.,(
+ (+*-(/(,'4.(*-.+ **$# . (-%$*#+*,(.$('#.+*0+$'(/(,
3(*4(.+ -+*' + $9*(((.+*9 5*(' * +*3$(**(, *$ +'!
'$9*(
+ BBB ($*$',.(-(+ 9*($ (- * (.+ '*.-(=)(4 ('
.-.('*(3(''+$.(' $,.5*(('+0+*(('#+$,(4 *. ,('(.
0$3(-(,*,/ '* . ' + ''(' -('GPD (EGD.(9$ (*,'-A*
%)*,($%$(/ (* ' $(*,.( ) 0.'(('+*'!-(,+$ +* * -(+
4+,.$('+ V + +(+*-('('3 (0(('F,. $')(*.('

' #$ /

?Z 8 3 ^ $ +*36(', -(3(=D ('4. (*.(*.!'!
'8*-$3 -5 -Q4+.,(*?(*,(, *(-(4 ,+,$ * - 3 .4'$) *$D
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F ʕ <ʕ;,411 .-ʕ>Zʕ .7.160,41Jʕ.67ʕ.<E<ʕ'1M 1 -.ʕ " , >1.6ʕ 5.ʕ <'1>ʕ ʕ -.16ʕ ? <4 7 Iʕ :Iʕ ;,<6. 5 6 .67ʕ '66. / 05.ʕ 5.ʕ 5.<>. / ' <% 4ʕ 0 ,47ʕ > 4<.ʕ 6.'<;.ʕ>.ʕ ; <= : .41.68ʕ % 77ʕ .67ʕ '55.ʕE' 1.ʕ?'17ʕ '4ʕ1, ʕ>.6ʕ>.5M 0.1'7 ,<6ʕIʕ " 6,<ʕ 1.7,41ʕ .55.6ʕ ,<5ʕ1.; , / / .<;.ʕ .7ʕ>4 ʕ .<;,1.ʕ>. @ʕ: .41.6% 41 . ; : ' / ?ʕ ,<ʕ ' ,1>,<<.ʕ "?54 ʕ 6 .416ʕ ; ,411 .16ʕ>4ʕ ;'0 <.7ʕ >.ʕ 6.ʕ 7;< 1ʕ ?1 76ʕ " ?'15 1ʕ Iʕ / ' 6% 5ʕ<.ʕ 71'<6? 1.ʕ .<; ,1.ʕ1 .<ʕ >.6ʕ>.? ; : .68ʕ .ʕ?4M 05 ;ʕ .< '4J41.ʕ=4.ʕ5.6ʕ<.J, ; '7 ,<6ʕ 6,<7ʕ 1, / ?4.68ʕ ,4ʕ >4ʕ / < <6ʕ .-.<4.6ʕ ?546ʕ .? <.46.6ʕ $.<ʕ .E .78 6ʕ .55.6ʕ '-' .<7ʕ?1 6ʕ5"7,41<41.=4.ʕ5.ʕ;'0 <.7ʕ01 7'<< =4;ʕ?,4 ʕ -' 7ʕ >.6 1.18ʕ 5ʕ .67ʕ ?546ʕ =4.ʕ ?1,0'05.ʕ=4.ʕ5.6ʕ > 1.;7.416ʕ >.ʕ5"0'<=4.ʕ .7ʕ5.ʕ5,;> / ' 1.ʕ .<ʕ '41' .<7ʕ .7.ʕ <E,1 / 6ʕ ,EE ; .55. / .<7ʕ 64 -'<7ʕ 46'J.ʕIʕ 5" ; ,41ʕ < '41' 7ʕ ?'6ʕ / '<=4.ʕ<,<ʕ ?546ʕ >.ʕE' 1.ʕ?407 .1ʕ 4<.ʕ J'0.77.ʕ .@71' ,1M > <' 1.% <ʕ 014 7ʕ =4ʕ 6 .678 ' ; ;1.> 7.ʕ =4.ʕ5' .0'1 <.8ʕ 5, <ʕ>.6,46;1 1.ʕ '4@ʕ>. / '<>.6ʕ / ?.1 .46.6>.ʕ 5% 778ʕ -,45' 7ʕ>.6ʕ <>. / < 7.6ʕ8ʕ " E' 5ʕ0' 66.1ʕ5.6ʕE,<>6ʕ ?405 ;6ʕ >.ʕ?1.6ʕ>.ʕ>.4@ʕ?,41ʕ;.<7%

.Q,41ʕ / . / .ʕ>.ʕ '115-..>4; ,411 .1ʕ>.ʕ .7.160,41Jʕ 5ʕV '-' 5ʕ.4ʕ 4<ʕ ; ,<6. 5ʕ " : 5.0'558ʕ " 5" 64 7.ʕ >4=4.5ʕ >.4@ʕ ; ,411 .16ʕ '-' .<7ʕ .7ʕ .@?.> .6ʕ / ʕ ?,41ʕ '1 68ʕ '471.ʕ?,41ʕ '>1 >ʕIʕ ,<ʕ;1, 7ʕ ; ʕ>.1< .1ʕ; : '1J.ʕ> <6ʕ 714;7 ,<6ʕ ?,41ʕ5,1>ʕ ' <7 B.5.<8ʕ 1.5'7 -. / .<7ʕ '4@ʕ >.?>.:.6ʕ=4 5ʕ " .<-,V..6ʕ?'1ʕ % E' / / ,<>8ʕ6.;1.7' 1.ʕ >.ʕ ' / 0'66'>.% ʕ6. / 05.1' 7ʕ=4 5ʕ6 .67ʕ .5.-.ʕ .<71.ʕ5.6ʕ >.4@ʕ ; ,416ʕ =<.5=4.6ʕ>E ! ;457>6ʕ '4ʕ 64Q.7ʕ >.ʕ5" ; ,<-.<M 7 ,<ʕ>.ʕ a , ,7 " ,4<>8ʕ .7ʕ>.6ʕ>.>, / / 'J. / .<76ʕ " 1.ʕ / .771.ʕ '4@ʕ<.J<. '<76ʕ '<J5' 6ʕ =4ʕ ,47ʕ .664V.ʕ=4.5=4.6ʕ ?.17.6>'<6ʕ ,.7&.ʕ; ,<Q,<;541.Iʕ ; .?.4>'<7ʕ ; .ʕ=4ʕ>. / .<ʕ 7 1' 7ʕ .<7 .1. / .<7; .77.14 <.418ʕ?.45 971.ʕE,17ʕ / 'ʕ5 E,Q ʕ > .8ʕ . .67ʕ=7 ,<ʕ'77.<>ʕ > 4<Q,41ʕ " '471.8ʕ " ,<>1.68ʕ % / / '<4.5ʕ>.ʕ5'6ʕ .1'68ʕ; , / / 66' 1.ʕ<, / / .ʕ?'1ʕ5" ; ,41ʕ> 6?'J<.8ʕ .7ʕ=4 8ʕ .7'<7ʕ';74.55. / .<5ʕ " '1 68ʕ<.ʕ ?.4ʕ / '<=4.1ʕ> '11 - .1ʕ0 .<5>7%

.6ʕ5.771.6ʕ>.ʕ ,176 / ,47:8ʕ .<ʕ>'7.ʕ>4ʕ 'Q4 55.78ʕ '<ʕ <,<;.<7ʕ =4.ʕ 5,1>ʕ B , ,>ʕ; ,4; : .ʕ "0,1>ʕ >.ʕ 6,<ʕ V' 6ʕ 6.'4ʕ ' / 1'58ʕ .7ʕ=4 5ʕ ">,?<.ʕ ,1>1.ʕ " &?46ʕ5.6ʕ , 5E ; .16ʕ >.5'55,57.ʕ > .<ʕE' 1.ʕ '47'<7% .6; '>1.ʕ < .<V, ʕ ?546ʕ >.ʕ ; : '5,4?.6ʕ "7.11.ʕ?,41ʕ '55.1ʕ ; : .1; : .1ʕ6.6ʕ?1,- 6 ,<6Iʕ >.6ʕ0'7 / .<76ʕ >.ʕ71'<6?,17ʕV,<5ʕ.7ʕ - .<<. ʕ6'<6ʕ ;.66.ʕ ?,41ʕ 57>ʕ .?'1J<.1ʕ ; .ʕ6, <8

.?4 6ʕ=4.5==.6ʕ Q,416ʕ 5ʕ < Vʕ " J4.1.ʕ >.ʕ ?'=4E 0,7ʕ >.ʕ ,4-1.6ʕ "#'5' 6ʕ ,4ʕ " K,45,J<.ʕ 641ʕ 5.=4.7ʕ ,<ʕ <.ʕ ; , / ?7.ʕ 4<.ʕ - <J7' <.ʕ> <J5' 6ʕ =4.ʕE" ;41 ,6 7.ʕ '77 1.ʕ .<ʕ H1'<;.%

.ʕ?'15. / .<7ʕ> 515'<>.ʕ<.ʕ6.ʕ1'66. / 05.1"=4.5.ʕ9ʕ>.ʕ 6.?7. / 01.ʕ?1, ; : ' <8ʕ.?,=4.ʕ'66 J<..ʕ>'<6ʕ 4<.ʕ<,4-. 5.ʕ ?1,1,J'7 ,<%

5 7 %

ʕ

@ ʕ ʕ ʕ ʕ ʕF ʕ - ʕ
(ʕ ʕ , ʕ ʕ ʕ)G ʕ ʕ >
- ʕ * %

%%%%%%%%%%%%%%% % ,6ʕ ?4 66'<; .6ʕ >71'<J / .6ʕ - ,<7ʕE,<>1. 64.ʕ- ,468ʕ <,46ʕ > 7 ,<%

;ʕ5.ʕ- .4@7ʕ / ' 6ʕ6 8ʕ; .>'<7ʕ " ; .ʕ / ,7 Eʕ - ,46,405 .0ʕ - ,6?1 < ; ?.68ʕ - ,71.ʕ> J< 7.8ʕ5" # ,<67 747 ,<8ʕ?,41ʕ<.ʕ 5 546ʕ , 1ʕ=4 4<ʕ >'<J.1ʕ .@7. 1 .41Iʕ .<ʕ ; .ʕ ; '68ʕ :>5.0ʕ 1,46ʕ>.ʕ>. .0 1.1ʕ ; .77.ʕ ; ,<67 747 ,<N - ,46ʕ < .<ʕ >7.6ʕ ?546ʕ> J<.68ʕ - ,46ʕ<.ʕ?,4-.0ʕ?546.<ʕ>.E.<>1.ʕ '4;4<.ʕ ?'177.8ʕ #1,V.0 - ,<6ʕ .<ʕ .E .7ʕ=4.ʕ 6ʕ - ,6ʕ .<<.7< 6ʕ?'1ʕ - .<<.<7ʕ4<.ʕ6.45.ʕE, 6ʕ7- ,46ʕ; , / / '<>.1ʕ- ,71.ʕ?1,?1.ʕ >.6 : ,<<.418ʕ ;1,V.0 - ,46ʕ=4 56ʕ6 '11 B.1,<7ʕ 7ʕ; .ʕ?1.Gʕ

/ .1ʕ?'6Zʕ ,<% 6ʕ - ,46ʕE,1; .1,<7ʕ " .7<05 5ʕ 5.ʕ?1,Q 5ʕ >.6ʕ>.4@ʕ; : ' / 01.68ʕ; .ʕ6.<'7ʕ 0>1.> 7 ' 1.8ʕ ?'17,47ʕ5.ʕ ; , / ?5 ; .ʕ .7ʕ '??4ʕ>4ʕ>.6?,7 6 / .Iʕ 56- ,46ʕE,1; .1,<7ʕ 2ʕ1.667 6; ʕ7.1ʕ; .77.ʕE4<.67.ʕ<,05.66.8ʕ ʕ .>7>ʕ>.ʕ5'=4.55.ʕ 4<9ʕ; ,<67 747 ,<ʕ<.ʕ?.<ʕ7ʕ6.ʕ / ' <7.< 1Iʕ 56ʕ - ,<6ʕ E,1; .%8ʕ 7,<7ʕ " 1.<>1.ʕ '4ʕ1, ʕ4<.ʕ?'17 .ʕ>.ʕ6,<ʕ '47,1 .ʕ ' : 6,-ʕ% 54.ʕ Iʕ .<E<ʕ " =4, ʕ <.ʕ - ,46ʕ E,1; .1,<7 56ʕ ?'65ʕ 34.5ʕ 6.1"5.ʕ 7.1 / .ʕ>.ʕ5. 16ʕ>. / '<>.6ʕ <6,5.<7.6ʕ .7ʕ>.ʕ - ,6ʕ >.: .6ʕE, 05.66.6Zʕ 36.0ʕ 5.ʕ5 @.1Iʕ ,6.0ʕ > 1.ʕ=4 '11 ->6ʕ " ; .ʕ7.1 / .8ʕ - ,46ʕ < / .1.0ʕ '< .4@ʕ ; ,< 0'771.ʕ .5ʕ ?>1E1ʕ =4.ʕ>.ʕ; .>.1% :ʕ0 .<ʕ ?4 6=4.ʕ - ,46ʕ<.ʕ?,4-.0ʕ 17.1ʕ .<ʕ; .>'<7ʕ 4<.ʕ6.775.ʕE, 6ʕ8 ,4ʕ >.ʕ1.7, < 0.18ʕ>.ʕ>.J1>ʕ .<ʕ>.J1.8ʕ>'<6ʕ .6;5'- 'J.8ʕ ,4ʕ> .71.ʕ ,05 J.6ʕ>.ʕ; , / ʕ 0'571.8'V?0ʕ>,<.ʕ5.ʕ; ,41'J.ʕ> .71.ʕJ1'<>68ʕ>>71.ʕE .1.8ʕ > >71.ʕ <.01'<5'05.68ʕ '4ʕ ?1. / .1ʕ ?468ʕ " 5" ?1. / .1.ʕ >. / '<>.ʕ'4>'; .46.%

.6ʕ , / ' <6ʕ'-' .<7ʕ?,41ʕ?1 <; ?.ʕ <-'1 '05.ʕ>.ʕ<.ʕ Q' / ' 6ʕ <>J, ; .1ʕ '-.ʕ 5. 16ʕ ,<<. / 6ʕ =4.ʕ ; .4@ ; < .4%66.<7ʕ / 6ʕ : '6ʕ5.6ʕ'11,.6%%%%%% 7ʕ - ,468ʕ - ,?6ʕ ;1' < >1 .0ʕ>.6ʕ.<<. / 6ʕ=4ʕ6,<7ʕ .<; ,1.>ʕ5.6ʕ?1.<>1.ʕ; .<71.ʕ - ,46Sʕ - ,46ʕE5>; : 1 .0ʕ?'1ʕ5"E1'V.41>.ʕ-' <6E' 7 / .6Sʕ '76ʕ=4.ʕ ; . 7@ʕ=4ʕ1.>,<7.<7ʕ ,4ʕ E. J<.<7ʕ>.ʕ1.>,47.1ʕ ; .6ʕ E' 7, / .6ʕ ,6.<7ʕ 5.6ʕ .<- 6'J.1Iʕ =4 56ʕ .66' .<7ʕ>.ʕ 5.6ʕ7,4; : .1Iʕ =4 56ʕ- , .<7ʕ; .ʕ=4 56ʕ6,478ʕ; .ʕ=4.ʕ - ,<6ʕ U7.6Iʕ .5ʕ5.6ʕ 1'V.416ʕ> 6?'1'E71,<7%

34ʕ>7.6 - ,46Zʕ 4 7ʕ ?. ?5.ʕ 5 01.Iʕ .7ʕ ,<ʕ - ,46ʕ / .M <ʕ; .ʕ>.ʕ =4.5=4.6ʕ 01 J'<>6ʕ . ,41,<<>6ʕ .7ʕ>.ʕ / .47.6ʕ > .6;5'-.6Sʕ 7: .<.6ʕ .7ʕ ?'17.ʕ ,7 5 .55.6ʕQ' / ' 6ʕ;1' <7ʕ 5.6ʕ'1 / ..6ʕ <<, / 01'05.6ʕ=4.ʕ5.6ʕ>.6?,7.6ʕ>.ʕ5" .16.ʕ 71' ' .<7>ʕ ;7 164 5.ʕZ 7 ,<ʕ> 7ʕ>ʕ 57 '>.8ʕ># / ,<8ʕ " 1 67 >.8ʕ1. . . -.0ʕ4<ʕ1, ʕ,4ʕ - ,46ʕ?>1 1.0S 56ʕ7 / 1' .<7ʕ 1.?,1ʕ>4ʕ8ʕ >'<6ʕ 4<ʕ 5'<J<J.ʕ > J<.ʕ >.6ʕ ! 1.; 6ʕN ;

ʕ ʕ ʕF ʕ ʕ %%%%%% 7ʕ5.

H1'<.'76ʕ '466ʕ '41,<7ʕ5.41ʕ '1'7: ,<8ʕ5.41ʕ '5' / <.8ʕ 6 5ʕ .67ʕ>.6ʕ?4 66'<; .6ʕ<66.0ʕE,55.6ʕ?,41ʕ5.6ʕ '77'=<.1% ; 8ʕ .66 .4168ʕ 5.ʕ<, / 01.ʕ .67ʕ / ><.ʕ>4ʕ; 7.ʕ>.ʕ " 5 0.17#8ʕ .7ʕ<?46ʕ'41,<6ʕ " .<- .1ʕ'4@ʕ ?'17 '7.6ʕ5"J5, 1.ʕ =4 56ʕ ,<5ʕ;4.ʕ>.ʕ5477.1ʕ'-.;ʕ?.4ʕ>.ʕ : .1,6ʕ; .<71.ʕ>.6ʕ <4..6ʕ > .<<. / 6% ,6ʕ : .1 / ,?V5.6ʕ 6.1,<7ʕ 7,4Q,41 ʕ ; ,4-.17.6ʕ>.ʕ5.J ,<6ʕ<, / 01.46.6%

"H1'<;.ʕ6.45.ʕ; ,<7 .<7ʕ?546ʕ>.ʕ; 7,V.<6ʕ'1' >6=4.ʕ 41,?.ʕ .<7 >1.ʕ<.ʕ?.47ʕ - , / 1ʕ; ,<71.ʕ .55.ʕ>.ʕ6,5,'76ʕ / .1; .<' 1.6% 7ʕ =4.56ʕ ; 7,V.<6Sʕ 6ʕ>>E.<>1,<7ʕ 5.416ʕ E,V.1687.'16ʕE. / / .68ʕ5.416ʕ .<E'<768ʕ5.415 0.17>Sʕ -.;ʕ ; .6ʕ> .4@ʕ 747.5' 1.6ʕ ,<ʕ < .67ʕ ?'6ʕ - ' <;48ʕ ,4ʕ ,<ʕ '7ʕ 6 .<6.- .5 1ʕ6,46ʕ5.6ʕ14 <.6ʕ>.ʕ6" ?'51 .%

34.56ʕ6,5>'76>4>;??,7 6 / .ʕ?;4-.<7Eʕ 1.5,<J7. / ?6ʕ # ; .ʕ '4@6,5>'76ʕ >.ʕ5" 5 0.17.FZʕ .6ʕ 6,5>'76ʕ >.6ʕ7V1'<6ʕ ,<7ʕ?546ʕ>.ʕ> 6; ?5 <.ʕ= .ʕ>.ʕ; ,41'J.8ʕ ?546ʕ>.;1' <7.ʕ =4.ʕ& '77'; : . / .<7Iʕ 56ʕ- .45.<7ʕ>.ʕ '1J.<78ʕ6,<7ʕ?.4ʕ 0>.5.68ʕ> 6.-7.<7Uʕ5" ?1. / E.1.ʕ, ; ; '6 ,<% .ʕ6,5>'7>.ʕ 5" 5 0.17. <.;1' <7ʕ<ʕE'7 J4.68< >ʕ<J.18ʕE7ʕ5' Eʕ / 8ʕ<ʕ 5.ʕ >.E'47ʕ > '1J.1 7Iʕ ; .54ʕ=4 5ʕ '8ʕ 5ʕ5.ʕ ?1,> J4.ʕ'-.;ʕ Q, .ʕ?,41ʕ5" >.E.<6.ʕ>.ʕ6,<ʕ?'V6ʕ& .<ʕ'77.65;ʕ5.6ʕ01'-.6ʕ 6,5>'76ʕ>.ʕ ! - .7PIʕ 5; ,4E78ʕ 5ʕ - ,5.ʕ '4ʕ ;1ʕ>.ʕ5" 5 0.17>8ʕ 5,16=4.ʕ5.ʕ>.6?,7 6 / .ʕ54ʕE.1' 7ʕE' 1.ʕ2ʕ?. <.ʕ=4.5=4.6ʕ ?'6ʕ5'<J4 66'<76% 34 4<.ʕ'1 / ..ʕ?'71 ,7.6, 7ʕ>.714 7.8ʕ 4<.ʕ'471.ʕ1.<' 7ʕ'466 7 7ʕ>.ʕ6.6ʕ; .<>1.68ʕ# .67ʕ=4.ʕ6,46ʕ 5" 5 0.17>ʕ 7,47ʕ .67ʕ 6,5>'78ʕ : , / / .68E. / / .68ʕ .<E'<76% ?1>5Q .68ʕ / 'J 671'56% .4@ʕ>.E' 7.6ʕ>>714 6.<7ʕ .<ʕ 4M 1,?.ʕ '1 / >.ʕ>.6ʕ7V1' 6ʕ5" ?546ʕ , / 01.46.ʕ .7ʕ5" / .4@ʕ > 6; ?5 <>.% .6ʕ>>E' 7.6ʕ <6714 6.<7ʕ .7ʕ 11 7.<7ʕ5.6ʕ6,5M >'76ʕ>.ʕ5" 5 5, .17.8ʕ .7ʕ< .< > / <4.<7ʕ?'6ʕ5.ʕ<, / 01.8

ʕ - ,468ʕ=4ʕ>,47.0ʕ>.6ʕ .EE,176ʕ?1,> J .4@ʕ.7ʕ641<'ʕ 741.56ʕ=4.ʕ ' / KEʕ>.ʕ5" 5 0.17.ʕ?.47ʕ; , / / '<>.1ʕ'4@ʕ : , / / .68ʕ - ,V.0ʕ; .ʕ=4 ,<7ʕE' 7ʕ 5.6ʕ / .1 ; ' 7 6ʕ ?,41ʕ ; ,<=4.1 1ʕ5.41ʕ <>.?.<>'<;.Iʕ - ,V.0ʕ5.ʕ / >>.; <ʕ '1M 1.<ʕ8ʕ=4ʕ < '-' 7ʕ ' / ' 6ʕ / '< .ʕ5.ʕ E46 58ʕ>>E.<>1.ʕ 5" ?.7 7.ʕ. ,55 <.ʕ>.ʕK4< .1: 558ʕ'-.;ʕ4<.ʕ?, J<>.ʕ> <.ʕ 1 ; ' <6ʕ / '5ʕ '11'>68ʕ F ʕ >G-6; ?5 <`8ʕ .78ʕ '-'<7ʕ>.ʕ6.

* ʕ +ʕ< ʕ'.Z

1.<>1.% 1' 1.' / 1>1.'5" ?, ,66 .1.' " 4$ " >.' 8C ' % 7 '
5 5' 1.6' '<J5' 6% 4 - .O5.'J> .1' ' '6: <J7 ,<8 E' 6'<7
77G7Z ' - .;' ' " / [[[' ?'V6'<6' " ?546' >.' E78 ' <J5' 68
.5' 6.' Q, '<7 >.'5.416' E,1; .6% 4 - .O 5.' " 1.<7 ,<% '
/ .'5.> 6' 7N 6.66 ,5>'76' < ' - ' .<7 ?'6' >.'6 ,45 .16I' 5"
J5%57.8' <4 ' >>; : 1' 7 5.416' ? .>68 7' 7 7. <7.'>.' 5& / 1'
6'<J' N - ' ' ' ' ' > 6' .<7 '
568 ' ' ' , & ' .7 56' 5.6' O'77 1. 7%
:S = ;' 5.6' : , < / .6' = ' >.6.6?E.1.<7 >.' 5" 1'5.41'
E1'< ' 6.8' = '<.'5" ;1, .<7 ?'6' ;'?'O5.'>.'6 ,47.< 1'5.6
.EE ,176' ; , / O < .6' >.6' ?4 66'<; .6' .<<. / .68 =<.' ; ;6'
: , / / .6' ; .66.<7 >.' ;'5,< < .1' <,6' 71 ,4?.6' >.' 5 J<.'
=< 8 6' 1.>, 7'O5.6' 5 ,16=4 .55.6' ; , / O'77 1.<7 ?,<1>;6'
=<.1.55.6' .71'<J.1.68 5.'6 ;1,<7 O .<' ?546' 5 ,16=< .55.6'
6.'O'771 ,<7 ?,41'5.41' ?1, ?1.' ;'46.8 5.41' 5 O.17.% 3 4 56'
; .66.<7 >.' ; '5, << .1' <,6' J'1>.6' <'7 ,<'5.68> ,<7 5.'
>.- ,>< .<7 6 .67 / '< E.67.'>'<6' ; .77.' ;1 6.'> 4<.' / ' '
< .1.'6' 7 ,4 ; : '<7.8 .7 =4 ' ' ; ; 6.<7 5" E,174<.' >.'<.'
5.41' ' - , 1' ?'6' .< ; ,1.' E,41< ' , ; ;'6 ,<' >.'>>- .5 ,??.1'
5.41' - '5.41% %%%
7: .<.6' 6.45.8 5.' ?.7 7 ?'V6' > 7:E.<.68 647' ?.<>'<7
71. O.' '<6' 6 ,47.< 1'5.6' .EE ,176' >.'5" 5 J4.'>.6' ?'15 R 7.68
>.6' : .O' <68 >.6' .16.6 i' .7 <.' 6<. ; ,< O " =4 '4'
<, / O1.8 =4 " 5" 5'66 74>.8 =4 '4' >>E' 7 >.' / ,V.<6%
<J5.5.11.' " ?<8 5 ,16' >.' 5" 1.- ,547 ,<' >.' 9U 8
6 ,47.< 1' ?.<>'<7 > @' '<68 ? ,41' 1.; ,4-1.1' 6" 5 O.17.' 8
5" J4.11.' <7.67 <.'5" ?546' >>6'671.46.8 .7 J'J<.1' >.6'
O'7' 55.6' '4' >. : ,16%
.6' / .1 ; ' <68 ?.4' <, / O1.4@8 6'<6' 71 ,4?.6' > 6 '
; ?5 <>;68 6'<6' / 4< 7 ,<68 6'<6' '17 55.1 .8 6'<6' - ' 6 '
6.'4@8 6'<6' '1J.<78 ,<7 ?4' 1>6 67.1' .7 - ' < ;1.8 '?1:6'
6.?7 '<6' >.' ; , / O'768 4<.'<'7 ,<' O1' - .8 1 ; : .8 >,<7
5" / '1 <.'<.' ; ,<<' 66' 7 ?, <7 > . J'5.%
7 < ,468 'V'<7 >'<6' 5" - '67.' .7.<>4.'>.'5" H1'< ; .8
>'<6' <,6' / ,<7'J<.6' .7 >'<6' <,6' ? ,1768 ?546' >.'1.6 '
6 ,41; .' =4.' 5.6' 7: .< .<6I' <,468 ?546' <.41;4@' =4.'
5.6' <J5' 6' >.' 9U 8 1.>,47.6'Q46=4 " ?1.6.<7 >.'<,6'
- , 6 <68 6'<6' ;1' <7.'>.'J4.11.' <7.67 <.8 / ' 71.6' >.6'
6>> 7 .4@8 4< 6' ?'1' 4< ; ,< ; .17 =4 '<.'E' 78 >.'C ' / 5M
5 ,<6' > : , / / .68 =4 4<.' 6.45.'E' / 55.8 4<.'6.45.' '1 '
/ .I' <,46' =4 8 ?546' : .41.4@' =4.' 5.6' / .1 ; ' <68
? ,4- ,46' '11>7.1' <,6' .<4. < 6' ?'1' >.6' ?5' ; .6' O .<' E,1 '
7 5 >.68 ?'1' >.6' '1 / ..6' > 6; ?5 <..6' .7 <, / O1.46.68
?'1>.6' J'1>.6<'7 ,7 '5;6E' / 5 '1 6>.6' - .;'5.6'E'7 J4.6I'
<,468 " =4 '5.'; .5 " 1.6.1- .8 ? ,41' E'; 5 5.1' 5.' ?'66'J.'
>4' >.6?,5 6 / .' "5" 5 O.17V8 4<'E,<>6' / / .<6.' .7 1 ; : .8
1. ; ,4-1.' 641' 5" 64?.165 7 , ' ?'1' 5.' O,<' 6.<6I' <,46'
;1' <>1 ,<68 ' - .;' 7'47 > ' - ' : J.6' 1.4< 68 >.6' ?4 6M
6'<; .6' =4 .8 6 ,46' 5.'1.J<.' ' - 5 66'<7 >4' >;6?,7 6 / .8
<,46' ' - ,<6' 6' 6 ,4- .<7 O'774.6' ' 3 4 , S' 6 ,46' ; .'>.6?, '
7 6 / .' 5" H1'< ; .' 6.45.' " ?4' 1.6 67.1' " 6.?7 ?4 66'< ; .6'
; , / O <>.68 .7 ' / ,41' >.' 5" 5 O.17>' <.' ? ,411' 7 1. '
?1 ,>4 1.'4<' / 1' ;5.' .<E'<7.' ?'14<'1 > ;45.'5 ,< : .41'
.'5.6' 6N6 '5.6.71'<J.166.5 J .<78< ,46'77'=4.<78
56' ? ,411 ,<7 - ' < ;1.'> 'O ,1>% '6' , / .8 '77'=4 ; .'?'1'
<4 O'58 .664V" =4'71.'>.E' 7.68 <.'>.6;6?.1" ?'6' .7
71 , / ? : 'I' / ' 6' 5.6' / .1 ; ' <6' <.'6, 7 '11 - .6' " <
>>?.<>'< ; .' =4.' ?'1' >.6' >.E' 7.6' <, / O1.46.6%%%% <
?1.<>1" >.6' - 55.68 Q.'5.' - .4@% :'O .<S' <,6' E1.1.68 5.6'
: 'O 7'<76' >.' ; .6' - 55.68 71 ,4 - .1, 7 >.6' '6 5;6' ?'17 ,47%
,46' ?'17'J.1 ,<6' ' - .;' .4@ .7 <, 6 / ' 6 ,<6.7<, 6' 7'O5.6%
.6' .<E4<76' >.6' / '17V16' >.'5" 5 O.17>' >.- .<>1 ,<5' 5.6'
< `71.6% ,46' .6%64 .1O<6' 5.6' 5'1 / .6' >.'5.416' - .4- .6%
:'S . .67 ; .77.'>,4; .' ; , / / 4< ,<' >.6' .6?1 76' .7 >.6'
; , .416' =4 '1.<>' 5.'6 ,5>'7 >.'5" 5 O.17.' : - 4; O5.G8 =4 '
54 'E' 7 1. ; .- , 1' 5" / ,17 ' - .;'Q, ; I' 5' 5.J4.'6" E' / 55.'
" 6.6' E1.1.6' 8 .7 <,<' 2P'6' " >.6' 7V1'<6' =4 ' 1.?,466.<7
5.6' .<E' 76' '?1.6' ' - , 1' O4' 5.'6'<J' >4' ?.1.%
4 8 .66 .4168 5.6' : , / / .6' &c4 ' ; < ;1; : .<7 " <,46'
> . ; ,41'J.18 " <,46' . / ?>. : .1' > >71.'Q467.68 > >71.'
5 O1.68 ?'1' 5" ;1' 7;' >.6' ?4 66'< ; .6' .71'<J.1.68 <.'
; ,< ' 66.<7 <'5" E,1; .'>.'5" H1'< ; .8 <'5.6' .EE.76' ?1, '
> J .4@' >.'5" 5 O.17.'641' 5.' ;8 1' ;7.1.'>.'1 : , / / .8 <'
>7'7 >.6' ,4 66' 7.%.6' .71'<J.1.68 < ' 5.6' ; : '<J. / .<56

%Q E 5" [- , 47 ,<' > / .1 =4.8 =4.' ; .55.>.' .+*3(/
=4.'5.6' >>- .5 ,??. / .<76' ?1,> J .4@'>.' 5" 1' 6 ,<' 4< '
- .16.55.' ,<7 E' 7%W .7 E.1 ,<7 >'<6' 5.6' ;'O <.76' ?,5 7 =4.6'
.7 >'<6' 5.6' 7 1 / ..6' .41 ,?>.<<.6%
.6' / ,<'1=4.6' ?,4- ' .<7 '471.E, 6' 6.'5 J4.1' 5.6' 4<6'
; ,<71.5.6 '471.6%.7 ; : .1; : .1'6.'>>; : 1.1%?,41' ?'15' '
J.1' 5.6' 5.11.6' .5' 5.6 : , / / .6>4' - ' < ;4I' / ' 6' 5.6' : , / / .6'
<.'6 ,<7 ?546' >.6' / .4O5.6' >,<7 ,<' ? 66.'6 ' E<;'5.< .<7
> 6?,6.1' ? '5J1>' .4@%# .61, 6' > '471.E, 6' ?,4- ' 45?.1 '
?>7 .1' 5.416' J4 .11.6N 5' .67 '4Q,41> : 4 ' '4 >.6%646>.6'
5,1; .6' >.' 7 ,47.6' 5.6' ?4 66'< ; .6' >.' E' 1.' 4<.'5,<J4.'
J4.11.% '1J.<7 .<' .67 5.' <.1E8 ; 7 ; .' <.1E' / '<=4.'
O .<7 7% .6' <'7 ,<6' 5 O1.6' ?.4- . 7 6.45;68 .7?,41' 5.41'
5 O.17.8 6 ,47.< 1' >.'5 ,<J4.6' J4.11.6% .'J1'<>' <7.1>7
>.'5" 5 O.17.F8 ; .7 7.1>7 =4 ' 6.'< ,411 7 >.'54 <> / .8
1. / ?5' ; .' ; : .8O .55.6' 1 5>1>7 >.' '1J.<7=4 ' 6 .?4 6.'
' 6> / .<7% <6' >.6' ?4 66'< ; .6' =<' 6.'5 J .<5' ; ,<71.'
'<'7 ,<' 5 O1.' ,<7 4<.' ; : '< ; .'?1,> J .46;' ; ,<71.'
.55.6I' .55.6' ,<7 5" ?1.6=< ;' ; .17 74>.'> .<6.- .5 1' - ' <.'
/ .<5' 5.416' 71 ,4?.6' .7 5.416' 71. 6 ,16' >'<6' 5.'?'V6' >.'5"
5 O.17.% " J4.11.'>,'71.<7.' '<68 ' - .;'5'=<.55.'5" B,5'
5'<>.' ' ; : .7" 6" 5 O.17.8 .67 .' 5. ; ,<' .7.1 .55.'?,41'
5.6' 7V1'<6' =4 ' - ,4>1' . 7 I 75'=4.1 " < 71.% " ?4 6M
6'< ; .'5" ?546' E,1 / >'O5.'> % 5,16' . ; : ,4" >'<6' ; .'?'V6'
,4- .158 .7 =4.' 1 .<' <.' >>E. >' 78 : ,16' 5" - '5.41' <.'
6.6' : 'O 7'<76% .6' 1.6 ,16' >.6' .<@ ,<>.6' 6 V' .<'
J5 ,47 1.<7% d67V '<6; ,<<' 66.<7; .6 .@. / ?Q.6 <6714; '
5 E6I' 56' < . 7' >?.7.1 ,47 ?'6% 56' 6' - ;<5' 71 ,?' O .<' '4 '
Q,41> : 4 '=i%% 5.41' ; '46.' .67 ; ;55.'>.'7 ,<6' 5.6' 7V1'<68
5" <>71.' .67 ; .55.>.'7 ,47.6' 5.6' <'7 ,<68 .7=4.'<,46?,4 '
- ,<6' ; , / ?7.18 ?'1 < ' 5.416' 64Q.76' .7 5.416' 6 ,5>'768
?1.6=4.' '47'<7 >.'E1.1.6' .7 >.'>>E.<6.416%
34.5' >, 7 >,<.' > 1.' / ' <7.<'1 7 5.41' ; '5;45' .7 5.41'
O47Z' > .1'?>. : .1'5" ?1,?'J'7 ,<' >.' J. ' F '
' '=4 ' / .<' ; .'7 ,46' 5.6' 71 <.86I' >.' ; ,<6.1- .1'
5.'?546' 5,<J7. / ?6' ?,66 O5.'5.' ?1.67 J.'=4 '5.6' .47,41.%
18' .67 ; .' .<6 '1 / '<7 ; ,<71.' <, 468 .<' <,<>'<7 5"
H1'< ; .'>.'5.416' 71 ,4?.68 =4.'5.6' 1, 6' >71'<J.16' ?1. '
- .<>1 ,<7 5" ; ,<7'J ,<' >.' 5" 5 O.17.Z' .4- .47 56'
;1, 1.' =4.' 5.416' 6 ,5>'76' < .<7.<>1 ,<7 ?'6' 6.6' '
; '<7 =4.6I' =4 56' <.'6.1 ,<7 ?'6' 1' - 6' > 4<.' ; ,<67 747 ,<'
, 5 7 ,47.6' 5.6' ?5' ; .6' 6 ,<7 ,4- .15.6' " 7 ,<6I' , : ' : , / / .'
.67 >J 5' >.' : , / / .Z' .'>, - .<7 56' ?'6' ;1' <>1.'=<;'
5.416' 6 ,5>'768 6. ; ,4'<7 5.416' ; : ' <.68 < / 7.<7 5"
; ,<> 7.>.6' 55. / '<>6' .<' / >1 =4.8 <.'6 #<1:5.<7
6 ,46' 5.6' >1'?.'4@' >.'5" 5 O.17>8 <.'6.' / >5.<7 >'<6' <,6'
E' / 5 .68 <.- .<<.<7;457 - .1' <,6' ; : ' / ?68 =4 >.- .< '
>1, 7 5.6' 5.416Z
#.'<.'6 ,<7 ?'6' 6.45. / .<7 ; .4@' =4 ' 1.67.1 ,<7 ' - .;'
<,46' =4 56' '41 ,<7 " 1.>,47.18 / ' 6' ; .4@' =4 8 5'66.6'
>'4<.'J4.11.' / ? .' .7 <E1W;54.46.81.7 ,41< ;1 ,<7 ; : .O'
.4@% # .4@ " E.1 ,<7 <'7 1;55. / .<7 >.6' ; , / ?'1' 64<6'
>.'5.41' 6 ,17 ' - .;'5.'6 ,17 >.6' H1'<=' 68 >.'5" ?.1?>74 7>'
>.'5.41' .6;5' - 'J.' ' - .;' .J'5 5.'>.6' '471.6% 56' 71,<- . '
1,<7 5.416' 6. J<.416' ?546' <6 ,5;<768 5.416' / 671.6'
?546' ,??1.66.4168 5.6' / ?>76' ?546' ?.6'4768 .7 56' 6.'
1; - ,57.1, 7% " 1.- ,547 ,<' / .1 ; <.' " .<E'<7.'5" 1.M
- ,547 ,<' E1'4.< 6.N ; .55. ; ' 6.1" 5.' E,V.1' 677;1.' > ,4'
?' 7 1" .7 < ; ; 5.' =4 ' . / O1'6.1" 5.6' <'7 ,<6' >,<7 5.6
/ ' 71.6' ,6;1 <7 '??1, ; .1%%%% : ' ' 6' 5.6' 1, 6' >.
1,?.'.<7.<>.<7 O .<'5.416' <' >1>76 8 6 56' 6 <6514 6.<7
?'1' 5.6' >- .<. / .<768 56' ; : .1; : ;1 ,<7 ?547 7 " 6 6,5.1'
>.' 5" H1'< ; .' =4 4' 6.' / .571.' .<' ; , / / 4< ; '7 ,<' ' - .;'
.55.' .<' '77'=4'<7% 56' ; : .1; : ;1 ,<7 " E' 1.' ,4O5 .1"
5.416' ?.4?5.6' 5" ; ,<67 747 ,<' E1'<3 ' 6.8 .<' 5.6' 71' 7'<7
>,4; . / .<78 ;<' '55.J.'<7 5.'?, >6' >.6' <? 768 .<' 5.41'
>,<<' 7 ?546' >.'5 O.17.%
,46' %6, / / .6' '11 - .6' '4' 7. / ?6' , 5' ?'17 ,47 ,? < ,<'
?4O =4.8 ,? < ,<' >.6' <'7 ,<6' =67 ; , / ?7..'6.;1.7.'
/ .<7 &5, 1'=<.5 ? .' ; : ,6.'>'<6' 5" O'5'< ; .'>.6' 7V1'<6%
5 6 8 &2 '<&' >.6' : , / <.6' 6 ?.15 ; .56' ,<7 ' - '< ; .'=4.'
5.' J,4- .1<.< .<7 '<J5' 6' ?44- ' 7 ; , / / '<>.1' >.6'
J4.11.6' " 6" E'<7' 6 .8 56' ,<7 ' - '<.>'4<.' .11.41% '<6'
4,47.'5" <'7 ,<' '4J5' 6.'< " ?546' >.'5 O.17>' ?,5 7 =' .I

1,' 6.75.'6' 5.<;,1.'E' 1.'1.6?.;7.1'6,<',?<,<'?,5 M 7=4.'I' .7'1'-,15. / .<7'>.' 5" J4.11.' ;.<71.' 5" 466.' .<'.65 5"?1. -.% '5" E5,77.'<.'6,17'?'68 ; .65=<.'5" <'7,<'<.'5.-.47'?'6I'.55..67.<;,1.'5.'-.1 7'05.'604' -.1' <8=4, =4.'!.,1J.8 .<Q,4'<75";,/.>.'>.'5" 1.-4.8' ' 7 ' 1'>.' 71.' .45%

34'<>'>,<.',<'-.<7'?1>-, 1',<'5"?,66 0 5 7V >4<.' J4.11.8 ,4' 5.6 ;,<6.=4.<;.6=<'>, -.<7'.<'1>6457.18 7 E'47 ;,<64 5.1' 1,?<,<'? 05=4.';:.b';.<@'4@' =4.56 ,<'V>.67<.' <'1 5.N 1,?<,<'?405=4.8 >'<6 7,<6 5.6%?'V6 >,<7 ,<'-,4>1' 7 . /?5,V.1' 5.6 E,1;.6 8 ;,<71.'<,468 .67 J> V1'5. / .<7 .4' E'-,41'>.'5";,<6M 7747 ,<'E1'<J' 6.8=<, =4.';.17' <6'17 ;5.6?< 66.<7V Ü >.?5' 1.% ,6'?'? .16 ,47 E' 7 .7 E.1,<7'";.7 .J'1>'5" ;,4&c4>7.'>4' /4<>.'.<7 .18 .7 5"?1.66.'".<;:'5<.'5.6' 01'6>.6 1, 6>.' 41,?.% $

,45.0 -,46 -,46 ;,<-'<;1.'>'-'<5'J.' ;, <0 .<' ?.4' 1.>,47'05.6 56>, -.<7-,46 ?'1'571.' .@'< <.0 5"6 74'7 ,<'>.' .41]'> -.16 .7'76%

67 ;.' <J5.7;11.'=4.'1.>,47.<7 0,6'?'6 55'< / .6 ?,5 7=4.6Z 1;5 '1JV.'>4'?, >6 .<,1 / .'>4<.'>.77.' =4';;1, 66.<7 7,46 5.6Q,416 5" -'<.'?'1'>.'>.6 '1' / . / .<76 ;,<71.'5" 466 .8 .7 5" J4.11.'>,6'671.<6.'>.' 1 <>.8 .55.'"7,47'";1' <>1.'?,41'.55.N /?,66 0 5 7V > ';=4 77.1'6">.57.8 ?.17.'>.'6.6 ?,66.66 ,<6>'<6 5.6 <>.6 1 .<7'5.68 6; 66 ,<'-.;' 515'<>.8 >/ J1'7 ,<' ;,<67'<7.'>.' ;,66.% 7.<>.0'6.6 -;7, 1.68 / 457 ?5 .0 6.6 -' 66.'4@8 6" >.77.'<.<'> / <4.'?'6I'>,<<;0 54' >'<6 1 <>.'?,41'55 V 5.'-.16'7 5.' 0' / 8 5.'?'1Q<1.' ':1'77.8 1. ?.1.<1'<, / <'58 . /?1.''<J5' 6 4 .<' .67 ?'6 ?546'' 7.1 / I' 5 < .67=4.'>'<6 1 / 4J <'7 ,<% 18 .67 /?,66 05.'=4. .1>-.>.' <'J<'4,<>41.' .<;,1.'5,<J7. / ?68=4.'9 / 55.' <J5' 67 .<<.<5 5,<J' 7. / ?6 '4@ E.16 C ' / 55 ,<6>:, / / .6 .7 .<' .EE1' .<7 7,''471.6 / 55 ,<6%

, 5'8 6'<6>,47.8 ;.'=4.5.' / < 67>1.''<J5' 6-, 7I' .7 5<.'-,4>1''?'6 ?1V; ? 7.1' 6" ?.17.8 .<'>>;5'1'<7 ,<.'J4.11.'=4.'6"<'7 ,<'JV<>1.46.''41' 7 .< .@.#1' 8 7 ,<8 '<.'-,4>1''?'6 5"?.17.'>.';.57.'<'7 ,<8 .<' ;, / / .< '<7 4<.' .11.'=4'1?4 6.1' 7 5.6 1.66,41;.6 >,<7 5"0.6, <'?,41'6,47.<1'4<'. / ?1.'=4'<.'7 .<7 ?546=4 "4<'5 5%

67 ;;'5" B ,55'<>.'=<,<'1.>,47.'Z <.'E. / / .' / ' ?>1 .46.'.7>;7;67;;% 4<'?1<;.' / 0V; 5.' .5 <.?1 6V8 >.6 V7'76 J.<,1'4@ .6;5'-.68 4<.''1 67,;1'7 ;' /'J 6 % 1'5.',> .46;8 >.4@E';7 ,<6 '1 67,;1'7=<.6 ?1>5.6 " 6;'>.;5 1.18 4<.';'<' 55.' 6.>7 .46.' '4@ ,1>1.6 >4' ?1<;.I' ?, <7 > '1J.<78 ?, <7 >.' ;1.> 78 ?, <7 >.' -' 66.'4@8 ?, <7 >.'71,4?.68 >.4@;, /?'J< .6 0'<' =4;1, 5 .1;6 .7 4<.' 0'<=4.'V01'<5..N -, 5"5.' J,4' -.1<. / .<7 ,55'<>' 6 .7 6.6 /,V.<6% ' ">,<.'7,47 " Ü ;1' <>1.'.7<.'?.<7>1.';1' <7%

67 ;.'5" 1466.'Z ,16=4.' <=4 6 5 ,<'6 '66 .>'641' 4,' 71>4;I' .55.' V01'<5.' .7 'EE' 05 7I' .7 5.'1, ' >.' 1466.'< .67 ?546=4 4<'J1'<>' <=4 6 7.<1% ,16=4 4<' ? <;.';67 7,41'"5,41' -,5 ?74.4@ .7 554 / <.8 :'1>' .7 E' 05.8 '10 51.'>.' 41,?.'.7 5.'Q,<.7 >.'6.6 . / .' / 68 ;.'?1<;.'">,<<.'6" / .641#8 .55.'< .67;.55.'<' >5<';,<=4V1'<78 <'> 4<'?1<;.':'0 5.I' .55.';67;.55.' ><<'0, / / .'-'<'.7 > 4<'.J, 67.N 5"5 0.1 .'<.';1' <7 ?'6 >.'?<1. 56 '>-.16' 1.6% Q,<5.0 ; N > - 6 ,<'>'<6 5.' / < 65>1.8 .?4 6. / . 7 >4' 71.6,18 > 6?,6 7 ,<'>'<6 5.6 6,5>'56"5">V6.17 ,<8 ;1' <5;'>.1<J1'<> 66. / .<7 >.'5" / '],<'> 471 ;:.8=4.'<,71.'1 <.',4'<,71.'1.M 7,41' " .7'5 '<; .<'E'V,1 6.1' 7 VJ<5. / .<7I' .7 -,46 '41.0'>.'J1'<>6 / ,7 E6>.'-,46 1'6641.1'6641'5" 1466.%

67 ;.'1 471 ;:.'Z <'1, '?14>.<7 / .7 5"?'5@ >'<6 6.6 .7'76 '-' 7>.<71.?1.<>1.4<.J ;11.. 71'1 J.1.I' .7 .,?,5>'.67 ?14>.<78 ?'; 5= .8 .5 5 .67 5, <'>'-, 1' 5"?' @'>'<6 5.6 ?'17 .6 .?'16;6>.'6,<. / ?1.% .'K1'M 0'<7R1. / 7 >.'6;6 ;:' 4.6I' 5.6 -1' 6 -,<; 67.6 6,<7 5'6 >>51.'Q,4>6I' 5.6 .7'76 # 6,<7 ?, <7 >4?.6 >.6;'M 1. 6 '?.1 >.6>.'5";,41I'5.'?.4?5.';, / / .<;.'"-, 1' 5 ' 0 '=4.'5.'?1. / .1' '

>;5'7.1I' >,?,5>'.<-.11' 7 5 .<' H1'<;.'>.6 71,4?.6 5,16=< .55.6 6,<7 " ?.<.' 6 E5 6'<7.6 ?, 1' ;,<7. 1' 5.' K1'0'<78 ;7 ;.' <'5:.41.4@ ?'V6 >.' >J.'=4' 14J 7 >.6 '71,;7.6 >.' 6,<' 6457'<' / 71>Z '57 1.1'' 7 5 4<.'J4.11.' '-.;'C ' / 55 ,<6 > :, / / .6 5 01 08 5,16=4.' 7,47 " 5" E, 6 5 1, /?7 '-.;'5.' <1;8 5-.'5 ;, 7. 1' 5.' 5,<J1, 6 >,<7 .@. / ?5.'>.'5" ,5,J<.' 67 / 45.' 5.';'1';7.1.' <>, /?5'05.I' 5,16=4.'6.6 >7'76 1,> / .'>57'5 .1;;E.5.<7 4<'E,V.1' >.'6.>7,<'I 5,16=4.' 6.6 71.6,168 "?.<.'64 6' 76 ?, 51'6.6>.?. 6.6 ,1> ' <' 1;68 6.1,<7 0 .<7>7 >?4 6.6 ?'1'4<.'J4.11.';,<71.' 5"5 0.17V > 7<.'J1'<>.' '5, Z >0?,5>'.>>.'?'17,478 ;'1.66.7,<78 .7Q 6=4'4'E / '7 6 / .'=4 5 '0:,11.I 5' 6.<7 6"E' 0 ;66.N ;7=4.';1' <>1.'> 44'?1<;.'E' 05.' .7 7 / >.Z

'15;1' Q.>.#; .'5 J .'J.1 / '<=<.8=4'< .67=4 ,<' -'<'E'<7> / .'8>.;.6?.7 56 .7'76 =4',6. 71.;.5.1';:.0 .4@<,6E4J'7 E6Z '<, 1.'< / 67.1.'-' 7.4=<.5= . >. .' >.'5">J< 7V>.'<,71.'1.-,547 ,<8 4<' / ,7>.'6"0,4;:.' .E57 E' 7 1.<71.?'>'<6 5.'<.'<7;.6 7V1' ' ,06;41.'>,<7 5.'?1. / .1';,4?'>.';'<,<' <.571'5.6?.4?5.6.<5 0.17.%

'15.1' Q.'>.6 E,4>1.6>.' , / .Z 55. '<.'?.4-.<7 .EE1'V.1' =4.'5.6 6 ?.167 7 .4@I' .7 . .67 5.'?.4?5.'54 ' / .1<.'=4''01 6>'7 >,5.'>.'5"64?.16 7 /% , / .'< .67 ?546'";1' <>1.'=4'<>'5.'?.4?5.' .67 :5,6,?:.%

'11>7.1' Q.''4@E'<E'1,<<'>.6>4'>,<'5Q4 ;;,77.' >4' ,1>Z ' ' 5 < .65 ?'6 4<' ! 467'-.8 .7 <,46 <.' 6, / / .6 <'>.6 '5.;'15 .<68 <'>.6 466.6% " .["' <.';,45.'?, <7 .<'H1'<;.%

.1' 7 ,<' .EE1'V>'>.6 / ,4-. / .<56 >.' 6?'J<.Z '6 5'6 'J 7'7 ,<6>.'6.<'1, 8 5.' ;:' / .<7>.'6.6 / < 671.6 8 5.6 1.E,11'.6 ?'17 ;55.6 =4.'5.<7.6,<' / ' < 67.1.8 5"?1,:0 7 ,<'>.'<,6 ,4-1'J.68 5";,<-.;'7 ,<' >.6;,17.68 5"E,1 / '7 ,<'> 4<';,1>,<'>.'71,4?.6I'7,<6 ;.6 / ,4-. / .<76 .<5 <'<.'?1,4-.<7 56 ?'6 ?547 7 5.6 .11.416 =4.'5.6 ?1,Q.76 0,65 5.6 >4'1, '> 6?'J<.'Z H1'??V ' / ,178 ;, / / .'7,46 5.6 '471.6 6,4-.1' <68 ' 6'J 7.'?,41'?'1.1'5.';,4?I' .7=4'<>' # ' 1>6,16 <;'6.' 1' .<7 ?'6 >?4 6.68=4'<>' 7 '41' 7 >4'.1>> 78 >.6 '1\\' / >.6.7 >.6 ?1,-6 ,<68 5" > 6?,6 7 ,<'>.6 .6?1 76# 7 7.55.8 .5 5 5.'6' 58=4.'>,<<.1'5.'6 J<'5 >.'E1'<;: 15.6 V1.<..68 . .67 '??.5.1' 5" 5 0.17V >'<6 6,<'1,V'4 / .%

67 ;.'.<5:'5.'1, ' 5.' '1>' J<.8== 8 '-.;'=Q.7=4.6 / 55 .16 > :, / / .6=4 5 ?1, / .<.'>'<6 6.6 .7'768 >,<<.' >.6 ;,<-456 ,<6 "<,6 & 1,E,<>6 ?,5 7=4.6Z '6 >.6 / 55 ,<6>.'H1'< ' 6 ?.4-. 7 56 1.>,47.1' /Y ?1<;.' '4&c4.5 4<.'?, J<..'>.;,5 .16 ">,<<>'>.14 .1. / .<7 57 5,'>'<6 6"?1,?1.';'?'7'7.Z

.';.6 7'05.'4@8 =4.'1.6457. 7 5Z =4.'7,47.6 5.6 ?4 66'<;.6 .11'<J.1.6 ,<7 ";1 <>1.'5.6> .76>.'5" 1.M -,547 ,<'E1'< ' 6.8=4.'5" H1'<;.'< "1 .<'";1' <>1.' & .55.6% '.<'1.6455.'=<.';.6?4 66'<;.6 6.'0,1<.1,<7" ;5 .1;5 .1'"<,46 .EE1'V.1' ?'1'>.6 .?,4-'<7' 568 / '6 <.'1.'5 6.1,<7 ' / ' 6 ;416 / .<';.6% 7 > 66.<7 . 5.6 5.6 1V'5 6.18 5 < .67 ?'6 > 4<'H1'<.' 6 5.'5.6 ;1' ?>1.I' 5 6.1' 7 > J<.'>.'<,46>.'5.6 ?1.-.<1% :S ;.6;1' <7.6 ' 6.1' . 7 >.?4 6 5,<J7. / ?6 V7. <7.686 '<,71.' / < 67.1.' '-' 5 .7.';, / ?,6.' >;'?' 1 ,7.68 ,4'6' 66. / 05..'<'' 7 ,<'5.' '-' 5 -,454' k 1.<>1.'4<.''77 74>.' <?,6' 7.' - 6 ' - 6 >.'7,47.6 5.6Q / 66'<;.6>.' 41,?.% .'67'' 7:,4>.1'>.'B ,55'<>.' ;47' '4 54;.'>.' / . ';.1'5.'5,<J' ?'15.<;<7 > <J5.7.11.8 .5 ;.'?'15.<.<754 >.;5'1'" '466 7>7 5" J4.11.% ,4 6 " ' .7 '0'1< >, / .1.<7 5<.'1;71' 7.' '<'E 56 >.' #:'15.6 W1'I' 5.'?'15; / .<7 E' 7 6 J< 5 .1" ,1J . 55.4@ <, '1=4.' >.' ;E '66.1#:'15.6 >.'6.6 .7'76I' ;7 5.'6,4?5.' '0< ' ,0. 7% 06;1-_I0=4.' ;.'?'15. / .<78 =4'01'-' 7 ' <6'5.6 ?4 66'<;.6 . 71'<' JV1.68 '-' 5 "6,4 / .751.' >'<6 6,<'6.<' .7 . ,66.' .7 1 15'<>.'1.0.55;6I=4 5 '-' 7=4.'U '2 ' / 55.'6,5' >'76"6.6 ,1>1. I' .5<,46 '- 6 '<1 57 ,<6>;';7,V.<6 6, '56% V71'<J.1'5.' ;1' J<' 7I' 5 <,46 ;1' <>1'8 6' 5" H1'<;.'-.<7 .<5 <'?1.<>1.'5.'7,<'=4';,<-. .<7 ">.6 :, / / .6Q<67.6 .7 E 01.6 - 6 ' - 6>.6 7V1' 6=4.'<,71.' 6 5.<;.'6.4S .<:'1> 7N '5,16<,6 E4J 7 E6 > 6?'1' 71, 7

>.'5.416'.7'768'.7' ,<<'J 7.1"?Q46'G.6'.6? 76''-.;'>.' E.466.6';1' <7.6%

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% #(8'4'<, /'>.6',; , / 7 6> ?5, / '7 =4.8 / '
5 7' .8'>.',; ,<67 747 ,<8'>.' '>.'Q41 6?14>.<;.'
;1 / <.55.8'>.6'1'??,176'.7'>.6'1.; : .1; : .6N "#,<6M
7 747 ,<'.7' 7'?1.6=4.''; : .-. .I' - ,46'55 .08'?1.6'- , 1'
1. / ?5' -,6'E,<;7 ,<6'>.' >J6 '7.416' > 4<' c '<>'. / M
? 1.8'1.>.-.< 1'>.'6 / ?5.6'; 7,V.<6'.7' ' .@.< '
?5.'>.'5'6,4 / 66Q,<'4@'5, 6'=4.'-,46'- .O'E' 7.6% .6'
< ,4-. <.<76'>.6'?4 66'<;.6' .71'<J.1.68' 5.416' <7.<M
7 ,<6'<,<'.<;,1.'/ ' E.67>.68' '-' .<7'?4' ' 1.';,<;.'
- , 1' >.6' <=4 .74>.6I' 66. / 05>.8' '?1.6' '-, 1' ?1 6'
>.6' / .641.6' .E E ;';.6'?,41'5">.E.<6.'>.6'E1,<7 .1.6I

6.'1'6641 7' .7' <6? 1' 7' '4' ? .4?5.'4<.'Q467.' 6 <1 7.%
.67>'<6W.' / , / .<7'=4.'5.'1,7'E4 78' =7E4<' ; : .E'41'
>'; .4@' .<5.-.'>.'5"; '? 7'7.'? ,41'5.'?5'; .1' '4' / M
5 .4'> 4<' ;' / ?' .7'1>J<.1'641'54 ' .7'.<'6,<'<, / % <' ;.'
Q,41'> '5'1 / .68'5.6' ' / 6'>.'5"5 0 .17>'6.'6,<7';,<>?7.6'
'-.;' ,1J4 . 5I5"?' @?405 =4.'< "?, <7'.7>' ' 57 . N'
5.6' 6,5>'76'E >.5.6'6.'6,<7'1>4< 6'4@. 7,V.<68'.7' ,<'
"-4'=4 .<'H1'<;.' 5'<.'?,4-' 7'?546'V' -, 1'> '47,1 7.'
=4.';.55.'>.'5"5, % ,46' .O'-,454';,<<'571.'5.6'>>'
7' 56'>.';.6'>-><. / .<76' / ?,17'<78' .7'5. ';, / 7>6,<7%
?.<6.' =< 56'<.'%>.-' .<7'?'6' '77.<>1.'5.' 1>6457'7'>.'
& <E,1 / '7 ,<'_B >,<<>.% .6?1 <; ?'4@'E' 76' ,<7';,<'
<46I' / ' 68'?,41'=4.'-,46' 'V.O'4<.' >>.'Q467.'>.'5.41'
.<6. / O5.8Q.'-' 6'-,46'.<E' 1.'5.1.; '7'> '?1>6'5.6'? .;.6%
.?4 6'5,<J7. / ?6' % K,4 77.' .E5E1'V' 7'5.' 1, % H<G'
-,67 66' 7' > <=4 >74>.6' .7' 54 '?1, / .77' 78' '4' / 5 .4'
> 4:';' / ?8'4<.'5 0.17>'>,<7',<' '5 .;7' 7'>.'> 1.'=4 5'
<.Q,4 66' 7?'6% .' 'Q< <'5"1. <.'6.'1.<> 7'>'<65 '?'
?'17. / .<7>.' / '>' / .' .1, . : .1.4 58' ? ' '0,47S7 "
;.5<'>.' % 55.=4 .1% 55.' > 7'=4 .55.'-,45' 7'> 6?,M
6.1'>.';.7' '??'17.< .<7'?,41' 4<.'>.'6.6'E. / / .6% .'
1, '>.6..<> 7'>'<6' '<7 ;57' / 5< .'>.' % 55.=4 .18'
>. / '<>"5";5.E'> 4<.'? 17.'=4 '; ,1< / 4< =4' 7'" '?'
?'17. / .<7'>.' ' .1, ; : .1.4 58';.55.'>.';.77.''<'
7 .0' / 01.' .7';.55.'> 4<'?.7 7' .6;'5 .1'?'1' 5.=4.5' / 'M
>' / .' .1?; : .1.4 5'6.'1.<>' 7' '6,<'??'17. / .<7% .'
(' % 4 / ,47 .18' J'1>. >4 ; ,1?68' 6.' ?1, / .<'<7'
'4@' 4 5.1 .68' E47' '11>7>'?'1'4<' <; ,<<<'=4'5.';,<'
>4 6 7' '%4 ; : 7.'48' ,4'5.' 1, '54' ,1>,<<" >.' > 1.N "
% '5>.<7'.7' '5,1V'>.'6.'E' 1.'E' 1.'>.6'-.67.6Q'4'
<.6'>.'.,411 .1'.7'>.'6.'71, [.1'5.'6, 1'641'5.'=4''>.6'
4 5.1 .68' ,-' 56'1.;.-1' .<7'>.'<,4-.'4@' ,1>1.6% #.6'
,1>1.6'5.41'E41.<7'>,<<>6% 56'6 V';,<E,1 / E.1>:7% .' 5'
'4' ,1' % '5,1V'6.'1.<> 7' ' ,& V8' % 4 / ,47 .1''
5'?,17.' ' <7 '17 <% ' ' : .41.6' 4<.' -, 741.' E45'
?5';..'>'<6'5" ; ,41'>.6' 1 <;.68' 4<.';:' 6.' =4 ,<'
.7' 7' '55.';:.1; : .1';:.O' % .E.16.< "77.<>' 7'641' 5.'
=4'' ,57' 1.% ';,4;:.16. 7';, / / .'" ,E> <' 1.%
55' : .41.6' .7'>. / '5"1. <.'>#6;;<> 7'; : .O' / '>' / .'
K14< .1.7'54 ',1>,<<">:'0 .1' '>' / .'9 3 ' .'
/ > / .',1>1.'E47'>,<<.'?'1' / '>' / .' ,410<5' ' / '>' / .'
>.' .4- 55.'?,41'5.' >'??: <% <'>.6..<> 7'>'<6' 4<'
.<71.6,5',:'.7'7.<7'7.1, 8'5"1. <.8 / '>' / .' 5 6'0.7:'
.7>.4@' <;.,<<46I' 4<'. / / .<" / .6>' / .6'K14< .1.7'
.4- 55.I' 5'5.6'E 7'&<,<7.1>'<6'5"-, 741.'=4''77.<>' 7'
>'<6' 5" ; ,41'>.6' 1 <;.6' .7'5.6' ;,<>4 6 7' ' #5'V.%
'471.' <;,<<4'. / / .<" / '>' / . ,410.58' % 7.'>'4M
?: <' .7' '>' / .'K,V'5.8' .7'5.6'E 7'?'66.1'?'1'H.6;' .1'
>.' / '>' / .' .1, . : .1.4 5'?,41''57.1''4'=4'' ,57' 1.8'
,5 7.'1, 8'5"1. <.' .5' / '>' / .' 5 6'0.7 '' / -.1.<7'"
? .>% <' / ,<7" .<'-, 741.% <'?1 7'4<.'-, 741.'<,4'
-.55.'"K,<>V% ' #5'V.'5.';'01 ,5.7'>.6' >.4@'E. / / .6'
>.';:' / 01.6.'1.4< 7' "5"0.15: `8.77.6'-, 741.6' / '1'
; : .1.<7.<6. / 05.Q46=4 ' '1.<<.6% % 1,4.78' / '7.'
71.'>.'?,67.'>.' '/7. <.:,45>'8'-,V'<7'?'66.1'5.6'
, 741. '8' ;147' 1.;,<<' 71.' 5" E J41.' >.' 5" 1. <.%
&H=V.0' ' ' ' ' 1 ' ' ' '
CC' 'C E' A
.'1, '<.'?,4-'<7' 6.' > 66 / '5.1' 1 / ?,66 0 5 7.'>.'
.@;;47 ,<>.6"E< 7.6.'Q.77.>'<6'5.601'6'>. % '466.8'
?1,;41.41'>.'5" ; . / / 4<.8' .7' ='> 7'=4 5' "=4 77.'5"
;'?7'7.'?'1;.'=4 5'V' 7' 7' '4' / 5 .4'>.6'?, J / 71>68'
.7'=77 5'- .<7'>'<6'5.6'?1,-<;.6'6 .<7,41.1'>.'>7. .<6'
E >.5.6% #, / 0'774'?'1'5.6'E1'V'.416'=4 ,<'54 ''-' 5' <6'
? 1>.68' ?'1'5.6'? [56'>,<7',<'54 ''-' 5'?1>6.<7.'5.'
6?.;7';5.8' 5'1` 67.'?.<>'<7'=4.5=4.'7. / ?6' '4@' <6 '
7'<;.6'=4 ,<' 54 ' E' 7'>.' 1.7, 41<.1' >'<6'5" ;'?7 5.%
% '4J5'68' '>.'>.';' / ?'>4' J.<.1'5'K,4 57.8' .7' 7'
.<71>'" '1.<<.6' '-.;' 4<' >.7';:. / .<7'>.':466'1>6'
=4 5''-' 5'1'<J.6' .<'0'7' 55;>.-'<7'5" / ' 6,<,4'.7' 7'
5.'1, % 5' E' 7' / '<;.4-1.1'6"71,4?.I' 5'54 ';, / / '<>.'
>.6' / ,4-. / .<76' =4 ' 6. / 05.<7 '-, 1'?,41' ,0Q.7'>.'
6 . / ?'1.E'>.6'0'77.1 .6'=4' 8'?'1'4<.'> 6?,6 7 ,<'<,4 '
-.55.8'6,<7'>7'05 .6'>.' / '4 .1.'"7.< 1'5.'>.7';:. / .<7

(

.<71.'>.4@'E.4@% '>.'>.';'/?' -.47 ?'1 7 ?,41'
'55.1';:.1;:.1'>4'1.<E,17N5.' /'Q,1'>.'5" J'1>.'<' '
7,<'5.'>.' '1.<<.6 '11E 7.I' % '4J5'6 /'?,17.'4<'
#,4?'>.'6'01.8'5.' /' ,1'1?,67.'?'1'4<' ;,4?'>.'?6'
7,5.7 .7 05.66.' 6,<' '>-.16' 1.% .'>>7';:./.<7 >.6
:466'1>6'>./'<>6'4<' ,EE ; .1'>.'5" J'1>.'<'7 ,<'56
?,41'5.'#,//'<>.1% <';'-'5 .1'>.'5" J.<>'1/ .1 .'
<'5 ,<'5.''<<,<..'=4.'5.'E 56'>4' J><>1'5 K,4 55.' .67U
448'<455'6.'>6?,6.' ' /'1;:.1'641' '1.<<.6% <'
/ >5<'.'4J/ .<7.% 11 -%.<7>.4@;,411 .16'.7 4<''>.'
>.';'/?'>4' J.<.1'5'>.6 J'1>.6 <'5 ,<'5.6 ?'1 6 .<<.6
'<''??,17.<7 5.6 ,1>1.6'>.' 66./0 ..'<'7 ,<'5.% .'
>'<J.1'6 ';;1, 66' 7% .'>.5';:./.<7>.':466'1>6'-.47
E,1;.1'5.'?'66'J.% .'?'17'5.'?5466 1>7' 7 >.'?'17 1N
,<'?'178 .7 5.6 J'1>.6 <'7 ,<'5.6 1.4< .6 .6;,17.<7 5.'
1, % <''?.1;, 7 .<'1,47.8 641'4<.':'47.418 4<'J1,6
>4'1>J /.<7>.' ,V'5 55./'<>8 =4 8-,V'<7 5"0,<<.'
;,<7.<'<;.'>.' .6;,17.8 >6?'1' 7% .'E 56'>4' J.<.1'5
K,4 5>'8 '5"7 7.'>4<'>.7';<./.<7>.':466'1>6 '1.47
7.<7.1'5.'?'66'J.'>.'5" 1-E.1.' ?,41'>. -1.?'5.'1, I'
/' 6-,V'<7 5.6 >EK;457>6 >.' ;.77.'.<71.?1 6.' 5 3'1.M
<,<;.% .<.1.71';.1''?, <7 5.6'>.7' 56'>,<7 -,6;, <'
/ 66' 1.6-,46 ,47 1.<>4';,/?7.% '471.6 E' 76'6.'6,<7
?'66 ':,16'>.6'5 .4@'=4'6.'71,41' .<7 641'5'1,47,>4'
1, ' .7Q.'>, 6-,46 .<.<71.7.< 1%

.'J 5<.1'5 K,4 55 ''-' 5'<1 ,<.>'>.?4 6'5,<J7./?6
4<';'/?'?1E.6 ,<7/>>V8 6,46 ?1.7.@7.'>4<.' <-'M
6 ,<'?,66 05.'>.6 E1,<7 >1.6% .6 71,4?.6 '-' .<7 >7>
>6?,6>.6.<'?1./ .1.'.76.;,<>.' J<.68'>.6 <J>< .416
'-' .<7 71';.'5.';'/?% .')' Q4 <'5.' J><>1/'6 >7' 7
1.<>4''-.;'6,<'>7'7 /'Q,1'" ,<7/>>VI' 5'-' 7>,<<>
5.6 ,1>1.6 <.;.66' 1.6 ?,41'5.'1'66./05./.<7>.6- '
-1.6 .7'. '.EE.76'>.';'/?./.<7% .' J.<>1'5 E47>.' '
' 7.<'V8 .7 ;:.1;:"?'1'>.6 ;'1.66.6 "6'6641.1'>4'
1>J /.<7>.' ,V'5 ./'<>% #.'E47 '=4 7 1.Z47 4<'
;,411 .1'=4'54''??1 7 5.' >.?'17 >4'1, '?,41'5" <4 7
>4' C ''4'C % 5,16 5 >6?,6'8 >.?4 6 #:'5,<6'Q46=7 "
,<7/>>V8 >.6'>>7';:./.<76'>.' ':,//.6%?5';>6
";:'=4.'1.5' 6 .7 ;,//'<>.6 ?'1' >.6 ,EE ; .16'>.'
;,<E '<;.8;:'1J.6'>.'>1.'=4 56'>.-' .<7 .6;,17.1'4<'
71.6,18 .7'47,1 6.6' '>.;5'1.18 6 '>7' 7 <.;.66' 1.8
'=4.'5.41' / 66 ,<' 7' 7 >.'?1,7.J;1'5" /'1;:.'>4'1, %
6'-' .<7%,1>1.''?1 6'5.' ?'66'J.'>.' 6.'1.?5 .18'>.'
-E.'5.'1, ' .5'>.'6.'1.<>1.'' ,<7/.>V, '>.-' .<7
6.' 1,4-.1'5.6 1.J /.<76'>.'a,V'5 7./'<>8 >.' '@.'
.7'>.'K.1;:.<V% #.6 >6?,6 7 ,<6'E41.<' <775.68 5.6
>>5';:./.<76'?5';.6 " #5.1/,<7 .7 " '47. .<.'
:,45>'< ,0. 1.<7?'6% '71, 6:.41.6'>4'/"7 <' %K,4 55>
E47 <6714 7=4.'5.'1, '.7' 7 '11>7>'" '1.<<.6% 5'?'17 5
>.' 7.<'V' ";<=':.41.6 '-.;'5.'1.J /.<7 >.' ,V'5'
55./'<>'8 '4=4.5 5 '<<,<J" .<'1,47.' 1'11.67'7 ;<'
>4'1, 8 =4' ;:, 6 66' 78 >6' 7 58 ;.'1.J /.<7 ?,41'
6.6 J'1>.6 >< ;,1?6% 5 >671 04"C '5,4 6I' 5 1>4< 7
'6"71,4?.' 4<'1>J /.<7>.':466'1>6=4'/.<' 7 6,<
E 56N 5 /'1;:"-.16 '1.<<.68 1.;47 ,1>1.'>4'1, '
>.'<.'E' 1.''4;4<' /,4-./.<78 .7 6 .<E4 7 '-.;'=<.0
=4.6 ,EE ; .16 " '00'V.'> 1-'58 641' 5.6 7.11.6'>.'
/?1.% #.?.<>'<7 5.'>.?'17 >4'1, ''-' 7 / 6 .<
/,4-./.<7 5.6 J'1>.6 <'7 ,<'5.6 .7 5.6 ;7,V.<6% '1'
7,47 ,<'6641' 7 5"71'<=4 5 5 7.'?405=4.I' ,<'].' < .7'
7' 7 .<'>.E.<6.% .6 6,5>'76'> '-,4'<7 5.4 6 ;:.E6
?1,7.67' .<7>.'5.41',0. 66'<;.'"5"<'7 ,<'.7 '5"5, 8
('Q41' .<7 '-.;'5.6 ;7,V.<6'>.'/,411'?547#7 Q4.'>.'
6,4 E1 1'=4 '4;4<.''77. <7.'EE 7 ?,15 .'"5"5 0.17.'>.'5"
?'71 .%

-'<7 >.@'/ <.1'=4.56'> 5 76 ,<5'>7.' ;, / / 6 .5
>.<'1.;:.1;:.1'5.6;,4?'05.68 5 E'47 6 ,;;4?.1'>4<.'
J1'<>.'=4.67 ,<I'5.'1, '?.47 5 E 71.'/ 6 .<';'46.'?,41'
5.'E' 7 >.'6,<' -'6 ,<Z' <'-,461>44 66'<7?,41'>,<'
<.1'4<.';,<67 747 ,<' ' ./?1.8-,46 '-.0 .@'/ <.'
=4.5 .7' 7 5.' J,4-.1<./.<7=4';,<-.<' 7 >'-'<7'J.'
'4'1,V'4/.8 .75-,46 '-.0 '>,?7>'5.' J,4-.1<./.<7
/,<'1;:=4.8;,//.5.'?546?1,?1.' ''6641.1'5.'0,<'
:; 1'>4' Q .4?5.'#7 5" ?1,6?>1 7.'>.' 7'7% ,46'-.0

1.;,<<4'=4 '5' '4'=4.'5.?,4-, 1.@.;4 /1.'
/ 6'>'<6'5.6 /' <6'>4<'6. 58 .7' '<6'-,46 '-.0'?1>'
?'1.'5.'7, /0.'4'>.6''/07 ,<6 ?'17 ;45 .1.]8>.6 /-'
,<6 .7'>.6 >6;,1>.6 ;-5.6% #.67?,41'5"<'7 ,<'&
<,<'?,41'5.'1, '=4.'-,46 '-.0>. .1.7 '5.' J,4-.1<7
/.'7 /,<'1;:=4.'.7 :.1 7.'>4' 719<.8 =4.'-,7
'-.0 .7'05'4<' J,4-.1<./.<7 7.56'=4 '<"1 .<' "18
>,47.1'>.' .<.1J .' ,<'>.' <;'?';7 ' >4<'1, %#
<.67?'6 ?,41'5.' /,<'1=4.8;.'< .67?'6 ?'1'4<.'6'
?.167 7 ,<8 ?'1'4<.'>,5 71 .'?,5 7=4.8=4.' <- ,5'
0 5 7..67'>.-.<4.8<,<'?'6'5.'?1 - 5.J.'>.'5"?.16,<<'
/'6 '771 047 <.;.66' 1.'>4' ?,4-, 18 .68 E,<;7 , '
>4'1, '6,<7 <6.?'1'05.6'>.'6"?.16,<'.I' 5' < .67?'
4<';'7,V'.<8 /' 6 5 .67 '54' 6.454<'?,4-, 1% ';.'
?,4-, 1'< .7' 7 ?'6 <>.?.<>'<78 0 .<7>7 5 6.1' 7>.'
714 7 ?'1';.54'>.'=4'5 >.?.<>1' 7N ?'1'.@./?5.8 6 5
>.?.<>' 7>4';,1?6 .J 65'7 E8;.';,1?68 .<';, /?1 /'<7
6'<6';.66.6,<'';7 ,<8 4641?.1' 7 0 .<7>7 6.6 >1, 76%
#.77. <- ,5'0 5 7.'>.'5" ?.16,<<.'.67 /,>.1..'>'<6
6.6 .EE.76 ?'1'5"1.6?,46'0 5 7.'>.6 'J.<76% '5.'1, ''J 7
?.16,<<. 5./ .<78 5" 5,'64??,6.'=4 '"1.J4'>.6;,<'
6. 568 .7 ; .67 ;.<71.'5.6 ;,<6. 55.16 .7 <,<';.<71.'5"
?.16,<<.'>"1, '=4.'6.'>Q1 J.' ';;46'7 ,<% " ;1' <5.'
>.' .@.1; ;.'>.' ;.77.'1.6?,<6'0 5 7>';.<71.'5.6 ?.1'
6, /.6=4 .<7,41.<7 5.'1, '54'>7.'5.6 /,V.<6>.'E'1.'
5.' / '58 .7 54''6641.';.54'>.'E' 1.'5.'0 .<% '<6 <'
-,5'0 7>8 5.'1, '?, 11' 7 >71.' 1'>4 7 ?'1>.-'<7 5.6
71 04<'4@'?,41'>.6 ';7 ,<6 =4'<.'6.1' .<7 ?'6'>.6 >.M
0761'5"-.1 7>'<.'6.'1.;,<<' 7=4.'?'1'5"?1,;.>41.8 .7
5">J< 7.'>4'?,4-, 1'.@>;47 E6.'71,4-.1' 7 ' <6'6'<6
;.66.'>->./ / .<7 '57.1. .% 5 6.1' 7 ?,66 05.';.?.<>'<7
=4.'5.'1, '6.'?,17>7 ">.6';7.6 ;,4?'05.6I' '5,16'5"5, '
5.'64??,6.1' 7 .<'>>/.<;.8 .7 ,<'54'>,<<.1' 7 4<'1.M
J.<7% #.67>'?1 6;.6'?1<; ?.6=4.8 6'-,46 ;,<6 >.'
1.0'5.'1, ';,//.';,4?'05.'8-,46'>.-1 .0 >.7.1/ <.1'
5";,<>4 7.'=4.'-,46 '41 .0 "64 -1.% '6'6,<'.-'6 ,<'
.67 .55.'4<'>.07Z' #.77.'=4.67 ,<'6.'1>6,47 .<;,1.'?'1'
-,6 >.;1.76%
'17;5.8 '>4'>.;1.7 >4'C)' /'16'?,17.N W .'1, 8
?1./ .1'E,<;7 ,<<, ;.'?405 ;8 >, 7'-, 1'6"1.6>.<;.'
" C '5 .4.68 '4'?5468'>.' 66./05.>'<'7 ,<'5.85,16'
=4 .55.'.67 1.4< .% Y
'17 ;5.' '.67 ' <6';,<E ' N W '5.'1, '6,17' 7 >4
1,V'4/.8;7 6''?1>6'-, 1'.7.' <-7>'?'1'4<.'?1,;5'M
/'7 ,<'>4';,1?6 >J 65'7 E 5'<.'1.471' 7?'6.<'H1'<;.8
5'6.1' 7;.<6.''-, 1'0>=4>'5"1,V'47.% '5.'1, 'EE57
'11-.'' ,<7/>>V8 .7=4 5'V E47 1.67>8-,46'>.-.0'54'
1.?1.6.<7.1'=4 '>7' 7 "?546'>.'□ '5.4.6'>.' 66.<'
0>.'<'7 ,<'5.% 5'-' 5'?'66'>5.6 E1,<7 .1.68 -,46'>.M
-.0'E' 1.'5"?1,;5' /'7 ,<'=4.'?,17.'1'17 ;5;' % "
#,<67 747 ,<'< "?'6'?1>-48 6,46'>,47.8 7,46'5.6 ;'6'>;'
>>;:>'<;.I' /'6 -,46'<.'?,4-.0'>7'05 1'-,71.'Q4J.'
/.<7=4.'641'5.6'5, 6 .@ 67'<7.6% ,46'.<'41.0'>.'<,4'
V.55.6 "?,17.18 /' 6 .55.6 <.'6,<7?'6 E' 7.6% <';'
7,01.' ()*' 66./05>.'<'7 ,<'5.'6.'>>;5'1" <6>?''
1'05.'>4'1, %#.77.'/'1=4.'>.';,<E '<;.'.@ J.' 7=4 '
5"?1>-7<7>.'6.6?1,Q.76I'.7 6 5'-' 7>.6 <=4 .74>.6;7
>.6 7.11.4168 5'>.-' 7 5. '-.<1'>.?,6.1'>'<6 5.'6.<>.'
66./05>.'<'7 ,<'5.% '<6'>,47.' 5 .'>.-' 7 ?'6 '1'
/.1';,<71.'54' ,?<,<'?405=4.8 .7 6 .@?,6.1'">.'
-#<1' 1 671 /.<7>4'?1./ .1'E';7 .4@=4'6.'6.1' 7
6' 6'>.'6"?.16,<<.% .'1, '<.'>.-' 7 ?'6 6.'6.?'1.1'>.'
-,461 /' 6' 7 5'E4466>'5"#,<67 747 ,<Z' ' 7 5;,//6
/'>.07Z' #.67;.'=4 'E'47 .@'/ <.18
.')' '-1 5' ;.' < .67?'6'4'<,<'>.'5"5, '=4Z'5.6
;,1?6 '>/ < 671'7 E6 ,<7 6, 0; 7.' .1, '>.'<.'?'66>1'
5, J<.1'>.'5" ;'?'7'5.8 ;.67 '4'<, /'>.' <7.1>7 >4
?.4?5.% '-.0 -,46 ?'6 -,46 />< .6 1.?,466>' <'
;45?'7 ,<'=4. .'1, '<>5' 7 ?'6 001.8 ?'1;.'=4.'; .77.'
<;45?'7 ,<'>7' 7 E'466.8 ?'1..'=< .55.';'5,1' ' 7-, '
<7.<7 ,<68 ?'1;.'=4.'5" J'1>.'=4'.<-1,<<' 7 5.'1, '
< >7' 7=4.'?,41'5">>E.<6.'>.6"?.16,<<.Z' 34'<7 '5"
>.;5'1'7 ,<'>4'1, 8 5' 66>.'7,16'>.'6,<'>>?'178 " <'
7.<>'<7 >.'5" 5 65.' ; - 5.8 Q.'< .@'/ <.1''?'6 6 '.5

-,46ʹ 7' 7ʹ5 J'5./.<7ʹ'>1.66 .8ʹ6ʹ.55.ʹ-,'6ʹ>7' 7ʹ>.6ʹ 7< .ʹʹ6 8ʹ<8.7'<7ʹ?'6ʹ;,<71. 6 .8ʹ.55.ʹ?.47ʹ>.-.<1ʹ ,0Q.7ʹ>.ʹ-,71.ʹ>.5 0.1'7 ,<ʹ NQ.ʹ5ʺ;,<6 > 1.ʹ6,46ʹ5.ʹ 6.'5ʹ1'??,17ʹ=4ʹ<7>1.66.ʹ 66./0..%ʹ '1ʹ5ʺ>6;466 ,<ʹ =4.ʹ5.1, ʹE' 7>.5'#,<67 745 ,<81.<,<;. 5ʹ ʹ '45,ʹ 17>ʹ=4 .55.54ʹ>.67<.Z ,<% ' 55.416ʹ5ʺ#,<67 747 ,<ʹ <>7' 7ʹ?'6 ';:.-.ʹI;.6ʹ';;.?7'7 ,<6ʹ?'17 .55.6ʹ;.<71.ʹ 5.6=4.55.6ʹ5ʹ?1,7.67.ʹ< .7' .<7ʹ?'6ʹ<.;.66' 1.6ʹ'4ʹ;,1?6ʹ ;,<67 74'<78ʹ 66./0..ʹ<ʺQ'/'6ʹ;,<E,<><ʹ;.6ʹ';7.6ʹ ?'17 .56ʹ'-.;ʹ ';;.?7'7 ,:ʹ>.ʹ ';7.ʹ;,<67 747 ,<<.5% ,16=4 5ʹ6.1ʺ?1>6.<7>ʹ'4ʹ1, 8ʹ; .67ʹ'5,16ʹ=4.8ʹ5 01.ʹ >.ʹ1.E46.1ʹ5ʺ#,<67 747 ,<8ʹ6 5ʹ ';;.?7. ʹ.55.ʹ5.ʹ5 .1ʺ >4<.ʹ/'< .1.ʹ<-'1 '05.%

66./05..ʹʺ1.;,<<4ʹ;.77.ʹ7:.,1 .8ʹ.<ʹ>.;5'1'<7ʹ .C ʹQ4 <ʹ=4.ʹ5ʺ6'<;7 ,<ʹ<>7' 7ʹ?'6ʹ<.;.66' 1.ʹʺ1.@>ʹ ;47 ,<ʹ>.6ʹ>>.1.76%%% 16ʹ5ʹ<Vʹʺ?'6ʹ>.ʹ>.5 58ʹ.7ʹ=4'<>ʹ 5ʹa .<ʹ'41' 78ʹ <- ,5'0 5 7.ʹ<.ʹ?.1/ .771' 7ʹ?'6ʹ=4.ʹ5.ʹ 1, ʹE47ʹ/ 6ʹ.<ʹ;'46.%

?1.6ʹ'-, 1ʹ.@?,6>ʹ ,?< ,<>.6;,/ 7>6ʹ6415ʺE4 7;ʹ >4ʹ1, 8Q.ʹ>, 6ʹ1.?,17.1ʹ-,6ʹ >..6ʹ641ʹ4<.ʹ;,<6?1'7 ,<ʹ ,41> .ʹ?'1ʹ5ʺE,410.1 .ʹ.7ʹ6, 7.<4.ʹ?'1ʹ5ʺE,1;.% ,46ʹ 5.6ʹE' 56ʹ?1,4-.<7ʹ=4.8ʹ6ʹ <7.<7 ,<ʹ>41, ʹ.7' 7ʹ.<ʹ.EE.7ʹ >.ʹ1.67.1ʹʺ ,<7/.>V8ʹ5.ʹJ.<.1'5ʹK,4 55.ʹ.7ʹ6.6ʹ;,/M ?5;.6ʹ?1.?'1' .<7ʹ .@>;47 ,<ʹ>.ʹ?1,Q.76ʹ;,4?'05.6ʹ.<ʹ '046'<7ʹ>.ʹ5ʺ;,<E '<;.ʹ>4ʹ1, 8ʹ;,//.ʹ;.ʹJ><.1'5ʹ '-' 5ʹ'046>ʹ>.ʹ;.>.ʹ>.ʹ5ʺ<'7 ,<% ' 71.ʹ>.ʹ5ʺ?.16,<<.ʹ >4ʹ1, 8ʹ;1,V'<7ʹ'-, 1ʹ.<6ʹʺ>6?,67 ,<ʹ4<.ʹJ1'<>.ʹ?'1ʹ 87.ʹ>.ʹ '1/..ʹE1'<;' 6.8ʹ-,45'<7ʹ1'< / .1ʹ5.6.6?>1'<;.6ʹ >4ʹ; >.-'<7ʹ;5.1J>ʹ.7ʹ>.ʹ5' ; >.-'<7ʹ<,05.66.8ʹ 5ʹ.6ʹ ?.1' 7ʹ1'66./05.1ʹ4<ʹ'66.0ʹJ1'<>ʹ<,/01.ʹ>.ʹ71'571.6ʹ ?,41ʹ,??1 1'.1ʹ5ʺ5 0.15>ʹ>.ʹ6,<ʹ?'V6% .5ʹ.7' 7ʹ5.%?5'<ʹ ;,<;4ʹ'-.;ʹ5'<7ʹ> '4>';.ʹ.7ʹ>.ʹ< ,V.<68ʹ.7.">;47.ʹ'-.;ʹ 7'<7 >.ʹE' 05.66.% # .67ʹ>,<.ʹ;.<71.ʹ % K,4 55>ʹ .7ʹ6.6ʹ ;,/?5;.6ʹ=4.ʹ ';;46'7 ,<ʹ>, 7ʹ6.ʹ>1 J.1% ,<ʹ;1 /.ʹ .67ʹ;.17' <8ʹ5ʹ '-,4.8ʹ5ʹ5.ʹ;'1';7.1 6.% 5ʹʺ-,45ʹ4ʹ1.<ʹ -.16.1ʹ5ʺ #,<67 747 ,<8ʹ .7ʹ6,45.-.1ʹ;.<71.ʹ5ʺH1'<;.ʹ $5.6ʹ?4 66'<;.6ʹ>71'<J>1.6%

.67ʹ>,<.ʹʺ5ʺ:'47.ʹ;,41ʹ<'7 ,<'5.ʹ?1,-6, 1.ʹ=4 5ʹ >, 7ʹ>71.ʹ71'>4 7Iʹ.7ʹ; .67ʹ-,468ʹ-.<J.416ʹ>.ʹ5ʺ<'7 ,<ʹ ,471'J>.8ʹ=4ʹ>.-.0ʹ5.ʹ71'>4 1.ʹʺ;.ʹ71 04<'5% ʹ'-' 5ʹ E' 7ʹ6.1/.<7ʹʺ5ʺ<'7 ,<8ʹ/' 6ʹ.<ʹ5.ʹ?1,<,<J'<7ʹ 5ʹQ4ʹ 1' 7ʹ>.Qʺ>V / '<=4.1N 5ʹʺ.@.;47.ʹ>.6ʹ,1>1.6ʹ>4ʹ1, 8ʹ <,<ʹ;,<71. 6 J<.6ʹ?'1ʹ5.6ʹ / < 671.6Iʹ<.ʹ?,4-'<76>ʹ >4 1.ʹ4<ʹ1.J / .<78ʹ5ʹʺ.66'V.ʹ>.ʹ5.ʹ;,11, /?1.?'1ʹ>.ʹ '1J.<7% ʹ?. <.ʹ1.7 1.ʹ641ʹ5.6ʹ7.11.6ʹ.71'<JE.1.68 5ʹ'ʹ 5, /< ;ʹ5.6ʹ?1 <;.6ʹ=4ʹ .<- 1,<<' .<7Iʹ.7ʹ?'1ʹ>.ʹE'466.6ʹ .6?.1'<;.6ʹ 5ʹʺ ?1,-,=4.ʹ5.6ʹ6?5>'76ʹʺ5ʺ>.6.17 ,<% 8#<ʹ7.5ʹ?1,Q.7ʹ>, 7ʹ'-, 1ʹ>.6ʹ;,/ʹ?5;.6N 5?'1' 7ʹ=4.ʹ ;.4@ʹ>4ʹJ><.1'5ʹK,4 55>ʹ6,<7ʹ % a5 <J5 <8ʹ B. / '<8ʹ ,155 6.8ʹ .6,7.4@ʹ.7ʹ '4J5'6% .ʹ;,/ 7>ʹ?.<6.ʹ=4 56ʹ >, -.<7ʹ>71.ʹ.J'5./.<7ʹ';;46.6ʹ.7ʹ71'>4 76ʹ>.-'<7ʹ5ʺ :'47.ʹ;,41ʹ<'7 ,<'5.% % a5 <J5 <8ʹ / '1.;:'5ʹ>.;'/?8ʹ 1';,<7.ʹ>'<6ʹ4<.ʹ5.771.ʹ5.6ʹ>.7' 56ʹ>.ʹ6ʺ;,<>4 7.ʹ.7ʹ >.6ʹ?1,Q.76ʹ=4 ,<ʹ'-' 5ʹE,1/>6G8ʹ5ʹ71';.ʹ5.ʹ?5'<ʹ>.6ʹ ,?.1'7 ,<6ʹ/ 5 7' 1.6ʹ=4 ,<ʹ'-' 5ʹ;,<J4.6%

%B. /'?8ʹ/'1.;:'5ʹ>.ʹ;'/?8.;1 7ʹ5.ʹC7ʹ>.ʹ '11.ʹ ,4 6ʹ=4 5ʹʺ71,4-.ʹ5.ʹ1.J / .<7ʹ>.ʹK.1;:.<V0 .<ʹ>6M ?,6.8ʹ.7ʹ=4 5ʹ6.ʹ1.<>1ʺ5.ʹC ʹʺ ,<7/>>V% % ' ʹ J5'6ʹ.7ʹ .6,7.4@8ʹ'>.6ʹ>.ʹ;'/?ʹ>4ʹJ.<.1'5ʹK,4 55.8ʹ .7' .<7ʹ;:'1J#6ʹ> '-.15 1ʹ5.6ʹ;:.E6ʹ>.ʹ>.7';:./.<768ʹ.7ʹ >.ʹ>.7.1/ <.1ʹ5ʺ>1.;7 ,<ʹ=4.ʹ>.-' .<7ʹ?1.<>1.ʹ5.6ʹ 71,4?.6% 4<8ʹ % .6,7.4@8ʹ;,<>4 7ʹ5.ʹ1.J / .<7ʹ>.ʹ #'67.55'8ʹ6 .<E4 7ʹ.7ʹ#;1 7ʹ>.ʹ 4@./0,41Jʹʺ % 4?5.6ʹ 7 6ʹ>.ʹ1.Q, <>1.ʹ5.ʹJ.<.1'5ʹ.7ʹ> '??,17.1ʹ '1J.<7ʹ=4ʹ 54ʹ'-' 5ʹ.7.ʹ1./ 6% '451.8ʹ % '4J5'68ʹ;,//'<>' 7ʹ 4<ʹ>.7';:./.<7ʹ>.ʹ:<66'1>6ʹ=4 5ʹ>.-' 7E' 1.ʹ/'1;:.1ʹ ;.<71.ʹ '1.<<.6% % ,1E5 6.8ʹ/'1.;:'5ʹ>.;'/?8ʹ;ʹ ;,1'?'J<' 7ʹ5.ʹJ><>1'5ʹ' <6ʹ=4.ʹ % a5 <J5 <ʹ.7ʹ>.-' 7ʹ /'1;:.1ʹ'-..54 ;,<71. '1.<<.6% % a5 <J5 <ʹ6 .<E4 7ʹ ʺ 7.<'Vʹ.7ʹ>.ʹ5ʺʺ 1-'5I % '4J5'6ʹ .67ʹ '11>7>ʹ;7ʹ >>7.<4ʹ>'<6ʹ5.6ʹ?1 6,<6ʹ>.ʹ >0 .1.6%

?1E.6ʹ-,46ʹ'-, 1ʹ?'15.ʹ>.6ʹ;,/?5;.68ʹQ.ʹ>, 6ʹ-,46ʹ 1.<>1.ʹ?,/?7.ʹ>.6ʹ6,4?J,<6ʹ=4ʹ6>5.-.<7ʹ;.<71.ʹ % '/'68ʹ#E7, 6.45 5' <- 55.8V'5;,418ʹ '<>1,4 < .7ʹK,4 55>ʹ< 68ʹ=4ʹ6,<7ʹ7,46ʹ'11.7.68ʹʺʹ.@;.?7 ,<ʹ' ;.ʹ>.1< .1% % '/'68ʹ;,5,<.5ʹ>4ʹ D 1>J < .<7ʹ>.\ >1'J,<68ʹ>7' 7ʹ'11 ->ʹ ʹ#5.1/,<78ʹ& ,V.08ʹ<Gʹ (98ʹ5.ʹ ?1,;E.6 -.10'5ʹ>.ʹ5ʺ /4< ; ?'5 7>ʹ.7ʹ>4ʹ>1.;7, 1.ʹ>4ʹ >671 ;7ʹ>.ʹ#5.1/,<7%Pʹ % '/'6;,<7.67.ʹ4<.ʹ?'17 ,ʹ >.;.6E' 76% 5ʹ> 7=4 5ʹ'6.45./.<7.@.;47#ʹ5.6ʹ,1>1.6ʹ =4ʹ54ʹ,<7ʹ>7.ʹ>,<<.60%=4 5ʹ.67ʹ?'17ʹ?,41ʹ '1.<<.68ʹ ?'1;.ʹ=4 5ʹʺ.<7.<>4ʹ>1.ʹ=4.ʹ5.ʹ1, ʹ.E7' 7ʹ'11 7>Iʹ =4 5ʹ6 .67ʹE' 7ʹ?1#6.<5.1ʹ'4ʹ1, 8ʹ;7ʹ=4 5ʹ.67ʹ1.65>ʹ>'<6ʹ 5ʺ /9/.ʹ/' 6,<8ʹ?'1;.ʹ=4 5ʹ<ʺ?'6ʹ;/ʹ'-, 1ʹ0.6, <ʹ >.6>;:'??.1% ,6;,/ 7ʹ,<7?.<6>ʹ=4 5ʹE'55' 7'Q,4ʹ 7.1ʹE, ʹʹ5ʹ?1,;E.6 -.10'5ʹ>4ʹ> 671 ;7.7ʹ>.ʹ5ʺ /4< ; ?'M 5 7V8ʹ> ,>ʹ5ʹ1>6457.ʹ>.6ʹ6,4?;,<6ʹ'66.0ʹ1..568ʹ>.6ʹ?1Vʹ 6,/?7 ,<6ʹ'66.0ʹE,17.6ʹ?,41ʹ1.<-,V.1ʹ 8ʹ '/'6ʹʺ5ʺ :'47.ʹ;,41ʹ<'7 ,<'5.%

.6ʹ6,4?J,<6ʹ=4ʹ?,17.<7641V %#: 6.4 7' <- 55.ʹ /V1 7.<7ʹ .<;,1.ʹ ?546ʹ>.ʹ;,<6>.1'7 ,<% < <.ʹ6' 5ʹ ?,41=4, ʹ5ʹ6.ʹ71,4-' 7ʹʺ '1.<<.68ʹ;'1ʹ5ʹ<'V' 7ʹ?'6ʹ > ,1>1.% 5ʹ'-' 5ʹ'-.17ʹ %K,4 5V>.ʹ/'1;:.1ʹ641ʹ;.77.ʹ - 55.% % a5 <J5 <ʹʺ> 5ʹ=4 5ʹV7' 7>'<6ʹ5.ʹ6.;1.78ʹ.75 ,<ʹ - .<7ʹ> '#1>7.1ʹʺ ,<7/V>Vʹ>.6ʹE,41J,<6ʹ,,<7.<'<7ʹ >.6ʹ.=4 ?'J.6ʹ>.ʹ;'<?./.<7ʹ= ʹ 7ʹ'??'17 .<<.<5% % '<>1,4 <8ʹ;,//'<>'<7ʹ4<ʹ>V7';0./.<7ʹ Dʹ .<.:,45>8ʹʺ7.<4ʹʺ?.<ʹ?1E.6ʹ5ʺ1<>/.ʹ;,<>4 7.ʹ= .ʹ % '/'6% .6ʹ;,/ 7V6ʹ?.<6.<7=4. -,46ʹ>.-.0ʹ?1.<>1.ʹ 5.6ʹ1<>/.6ʹ>6?,67 ,<6ʹʺ6,<ʹVJ'1>%

% '5;,418ʹ;,// 66' 1.ʹ 1>,<<'7.41ʹ>.6ʹJ4.11.6ʹ ʺ : ,<- 55.8ʹʺ>7V./?5,V>ʹ:,1.ʹ>.ʹ6,<ʹ>V?'17./.<7ʹ ?'1ʹ5.ʹJV<.1'58ʹJ ʹE' 1.ʹ>.6ʹ?1V?'1'7 E6ʹʺ ,<7/.>V%ʹ #.77.ʹ;1;,<67'<;.8ʹ;.77.ʹ;,<E '<;.ʹ?'17 ;45 V1.ʹ>4ʹJ.ʹ <V1'58ʹ>,<<.<7ʹ> '66.0ʹ - ,5.<76ʹ6,4?J,<68ʹ?,41ʹ=4.ʹ 8 % '5;,41ʹ6, 5ʹ1>4/ʹ'4@'471.6ʹ';;46V6ʹ.7ʹ.<-,V.ʹ2 17V'<6% h

1, 6ʹ,EE; .16ʹ>.ʹK,V'5 55.1''<>ʹ,<7ʹ>7>ʹ'11 7V6ʹ.7ʹ .<-,VV6ʹ>'<6ʹ5.6ʹ?1 6,<6ʹ>.ʹ .0 E.1.6Iʹ; .67ʹ641ʹ;.ʹ1>Yʹ J /.<7=4.ʹ5.ʹJV<>1'5ʹK,4 5V;,/?7' 7% 5ʹ/' ;:ʹ7ʺ 6ʺ7V7.Iʹ5ʹ>.-' 7>,<;ʹ>71.6>1ʹ>.6ʹ;:.E6%#.?.<>'<7ʺ 7.M <'Vʹ5.JV<>1'5ʹ'-'7E' 76,<<.15.ʹ0,47. 6.55.ʺ :.41.6Nʹ .7ʹ6ʹ ,<ʹ<.ʹ?'17 7ʹ=4 ʹʹ:.41.68ʹ#.7:.41.4ʺʹ1.7'1>ʹ E47ʹ>>ʹʺ % '<>.5% ?1.6ʹ5ʺE4 7.ʹ>4ʹJ.<.1'58ʹ5.6ʹ6,5ʹ >476ʹ.7' .<7ʹ1.-.<46ʹ ʹ 7.<%'Vʹ'-.;ʹ=4.5=4.6 4<6ʹ>.ʹ 5.416ʹ,EE; .168ʹ?'1/ ʹ5.6=4.56ʹV7' .<7ʹ 8ʹ '<>.58ʹ '1'66 ʹ.7ʹ '5,<% <ʹ>./'<>ʺ=4.ʹ7,46ʹ5.6ʹ,EE; .16ʹʹ E466.<5ʹ'11>7V6% .6ʹ6,5E '76ʹ?1,7VJ 1.<7ʹ5ʺ1.71' 7.ʹ>.6ʹ ,EE; .16ʹ=4.ʹ .ʹ- .<6ʹ>.ʹ<,//.1% 56ʹ<66<1 1.<7ʹ5.41ʹ /'1;:.Iʹ/' 6ʹ6 E7'<7ʹE J'1.6ʹ5,16=4 56ʹ'55' .<7ʹ1.M Q, <>1.ʹ4<ʹ>.7';:./.<7ʹ>.ʹ5.41ʹ1VJ / .<78ʹ % +*!ʹ >.5ʹ8 '1'66<ʹ.7ʹ '5,<ʹE41.<7ʹ'11>7V%6% .6ʹ6,5>'76ʹ5.6ʹ 1V;5' /.1.<7% 556ʹ7V/, J< 1.<7ʹ:'47./.<7ʹ>4ʹ?'71, ʹ 7 6/.ʹ>.ʹ;.6ʹ,EE; .168ʹ.7ʹ5.6ʹ/>/.6ʹ7 /, J<ʹJ.6ʹE41.<7ʹ >'<< 6ʹ?'1ʹ7,47.6ʹ5.6ʹ/4< ; ?'5 7.6ʹ,<ʹ5.6ʹ1 J / .<76ʹ '-' .<7ʹ.7.ʹ.<ʹJ'1<6,<%

,46ʹ<.0'5'<;.1 ,<6?'6'?1,<,4;.16'15.41ʹ5 0.17V8ʹ 6ʹ ,<ʹ<'-' 7ʹ71,4-.ʹ % '<>.5ʹ6ʹ6ʹ>4<ʹ,1>1.>4ʹ1[ʹ <,<ʹ;,<71. 6 J< 8.7ʹ?,17'<7ʹ6.45./.<7ʹ< .ʹ<,7.8ʹ?,41ʹ 1.@V;47 ,<>.;.7,1>1.86 J<. .ʹK,4 55 % # .<ʹ.67ʹ'66.0ʹ ?,41ʹ6,4?J,<<.1ʹ=4.ʹ;.6ʹ,EE; .16ʹ?,4-' .<7ʹ 71. <6ʹ 714 76ʹ>.6ʹ?1,Q.76ʹ>.ʹ % K,4 55.8ʹ.7;.ʹ6,4?J,<ʹ.@ J.ʹ =4 56ʹ6, .<7ʹE.<-,V.6ʹ ʹ 15 '<6% d

5ʹ/.ʹ1.67.ʹʺ-,46ʹ?1 6.<7.1ʹ5.6ʹJ1 .E6ʹ=4ʹ< ;.66ʹ 7.<7ʹ4<.ʹ';;46'7 ,<ʹ;,<71.ʹ5.ʹE 56ʹ>4ʹJ < 1'5ʹK,4 55 % 5ʹ.67ʹ?1,4- ʹ?'1ʹ5.6ʹ?1,; 6 -.10'4@ʹ=4 5ʹʺ,1>,<4ʹ >.ʹE' 1.ʹ/'1;:.1ʹ?'1ʹ>.6ʹ;:./ <6ʹ>.5,414 6ʹ5.ʹ1.J M /.<7ʹ>.ʹ#'67.55'8ʹ=4ʹ'11 -ʺʹ '<- 55 .16% 5ʹ.67ʹ?1,4- ʹ =4 5ʹʺ-,454ʹ?'66.1ʹ5ʺ1-5 1.ʹ?,41ʹ;,4?.1ʹ5ʺ/'/:.ʹ >4ʹ1, ʹ.<71.ʹ '1.<<.6ʹ.7ʹ#5.1/,<7% # .67ʹ54ʹ '4ʹ>.ʹ /'Q,1ʹ>.6:466'1>6ʹ 7' 7ʹ>.-.<4ʹ'>.ʹ>.ʹ;'/?ʹ4.6,<ʹ ? 1.ʹ?,41ʹ .@ ;47 ,<ʹ>.ʹ .<71.?156.% .ʹ;'-'5 .1ʹ>.ʹ '1.<<.6ʹ=4 ʹE47ʹ;.1;0.1ʹ>4ʹ6.;,4168ʹ.7ʹ=4ʹ'<<,<J'ʺ ʺ/'1;:.ʹ>.ʹ;.7,EE; .18ʹ/ʹ'-' 5ʹ ;:ʹ'??ʹ'-.;ʹ?. <.% # .67ʹ?.47 >71.ʹʺ '>1.66.ʹ>.ʹ;,ʹ;ʹ'-'5 .1ʹ=4 ,<ʹ>, 7ʹ5.6ʹ 6.;,416ʹ=4ʹ,<7ʹ'6641 ʹ5.ʹ1.7,41ʹ>4ʹ1, % .ʹ7 56ʹ>4ʹJ M < 1ʹ5ʹK, 55 ʹ?'1' 7ʹ>.<.ʹ'4ʹ;,/7 ʹ>.-, 1ʹ>71 ʹ'46.

<-,Vʹʺ5ʺ:'47.ʹ;,41<'7 ,<'5.ʹ?1,-6, 1.%

[illegible]

[illegible]

[illegible]

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J- ' '< ' ' .

> ,1>1.8 .7 '?1.6 E'77.<7'7 5.'?546 ,> .4@% '0>E=4.'
1' '?5479 7 / /.'Q46=4 '' / ,< <, /'>.' H1'< ' 6% ,< 8
Q' / ' 6 5''?'71 .' <.' /.'1.-.11''>'=66,< 6. < 8 7'<7==.'
5'' 1' 6,< .7 5''Q467 ;.' .< 6.1,<7 0'<< .6 8 7'<7=4 .55.'
6.1''5''?1,5.'>.6 E';7 .4@'=4' .J'1.<7% 8 .<' ,4-1'<7'
4<'Q,41'5.''V.4@8 5.6 H1'< ' 6 6.;,<.<7 5.'Q,4J'>.'5.416
<,4-.'4@ 7V1'<68 6 56 ?.4-.<' 1.;,<<'571.' =4.'5'' 5 M
0.17V'<.'>,<<.' ?'6 5.'?,<-, 1'>.'7,47 1'- 1'8 >.'7,47
> 714 1.8 >.'7,47 '66.1- 1' ''6.6 ;: / .1.6 E.1,;.68 .7 '?'
?1.<>1.'.<E < =4 <<.'<'7 ,<' < ''?'6 ?546 5.'>1, 7 > .71.'
<Q467.'=4 4< 6.45 Q<> - >4I '5,16 Q ';;,411'''-.;' '1'
>.41'.7 . / ?1.66. / . Q7=4.1 .<' < '1197.8Q.-95.1'>'<6
5.6 01'6 >.' / .6 ;:.16 ;,<; 7,V.<68%%% ' 6 ?.47 971.'5.'
7. / ?6 < .67 5 ?'6 6'9 , J<9 8 0 .1 797 5''7.11.41'.<71.1''
>'<6 ' / .'>.6 ;,4?'05.6 ' / 0 7 .4@'=4' 8 >4'?.4?5.'U.'
?546 ?,55 >.'14< V.168 .< ,<7 E' 7 4<'>.6 ?546 6'4-'J.68
.'>.5 .7 5.6 :, / / .6 <.'5' 66.1,<7 ?'6 7'7 7 > '77.<7'76
/ ?<< 6% 34'<7 '' / , 8 ;.'< .67 ?, <7 ;.<71.' / '' ?'71 .'
=4.'Q.'7,41<.1'' / .6 '1 / .6I 5.6 E';7 .4@ -.45.<7 7,4'
Q,416 6 >.<7 E .1 '-.;' .57.8 / ' 6 5.'1.67.'>.6 H1'<='56
.7 7,47.' 41,?.'<.'?1.<<.<7?, <75.';:'<J.G < < .67
?, <7 71' 51.' ''6,< ?'V6 ?,41'-,45, 1'5.6 >> / '6=4.18 .7
4<' >9;1.7 641?1 6 '' 5'' 1.5 J ,<' >.' 66. / 05..' .7% ''
5'' 6,4 / 66 ,< 5546, 1.' >4' 1,' <.' / .' 1.<>1'' ?, <7
1.0.55.G ' '1. 4' ;.54' =4' / '' '??,17.'#.7 <Q41 .4@'
>.;1.7 '-.;' 5.6 .J'1>6 >46 >'<6 7,<6 5.6 7. / ?68 >'<6
7,47.6 5.6 ; 1; ,<67'<;.68 '4' ;'1'.7>.'> .<-,V.' .7 '4'
>1, 7 >.6 J.<6I Q ''1.=4';.'>.;1.7 .7 -, 5'' / ''1.?,<6.I
Q.'5'' / '< E.67.':'47. / .<7 .7 5'' 1.<>6 ?405 =4.8 ?,41
=4.' 66. <05..8 5''H1'<;.'.7 41,?.'?4 66.<7 5 -.'.4
/ 1'.'5. / ?6 '4%E,<>'>.' / ,< ;,.41 .7 / .'Q4J.1%

W J<.' , / 6 ,6K B' ' 9 ' E

<?'17.' .< ;.' / , / .<7 >.' '11 -..'>4'1, '>.' 4.>.'
>'<6 ;.77.- 55.I ,<6 .41 .7 % > 17, 6 ,<7 > <.''-.;'
54' '' @ 5' #0'?.55.%%%G G >.' .77. / ;:'8 / < 671.'
?5.< ?,7.<7 ' 1.% >.' . <?.1.418 .67 >' > '-'<7 : .1
6, 5% :' V '77.<>' % >.' .1;V 1J.<7.'4' >'<6 4<.'
=4 <0' <.'>.'Q,416%G% 'V '41'' ;.17' <. / .<7 &'E,5 .' ,<
<,<P' 4< ;,<J1.6 6.;1.7 '' @ 5' ! :'?.55.'8 ;,<;.1<'<7
5.6 '5E' 1.6>.'H1'<;.% $ ' , ' .6?.1.<E 7,4Q,416
4<.';,<71. -, 47 ,<% 56 ; , / ?7.<78 > 6.<7 56 8 641
4<.'J1'<>.'?'< .'>.' 66. / 05..'<'7 ,<'5.8 .7 641'5.6
.<1,5. / . / 6 =4' 6.' E,<7 ?, 41 .4@ '4 6. < / .1'.'>.'
'1 6% W .'?1 <;.'>.'#,<>:'8 6 >;1 .<7 -,6 E4J 7 E68 <.'
>.-' 7 5 ?'68 =4 <0.'Q, / < * ' ' '?.1>1.'6.6
0 .<6 ,46 V,V.0 =4 ,<'5.' / .<'J.'.7=4.'5 9<'71. / 05.%
' '! & ' 5'' <,05.66.' >'<6 7,<6 5.6
?'V6 8 / ?,6.1''7,4Q,416 5';.6 ' ' & A
%%%%%%%%%%%' .6 , >.-'<7 ?1<;.6 ' / 60.;' .7 '4>.
/ ,<7 6.<7 >' .< : 7.5 J'1< 8 .< '77.<>'<7 =4 ,< 5.418
,4-1.'5.6 ? 17.6 >.6 4 5.1 .6% 56 ,<7 4< ?.<'>.':,<7.'
>.';.'=4.'5.416 ;' / '1'>.6 '& '! A'
' "! & ' ,<78 >'<6 .@;.6 >.'5.41'0>.8 .<'1.;,<'
>4 6'<7 5.6 ?1<;.68 ,405 .'>.'1.-.< 1' >' '-.;' 5.6 ;:.'
-'4@ =4 56 V '-' .<7 5,4.6 8 .7 6'<6 ?'V.1'5.416 0,7.68
=4'Q41.<7 =4 5 < V '' ' 0 ' '' ;.5'%%%%%' '
<,4-.55.' >4'Q,=1' .67 =4.' 5'' 1466.8 .< .@? '7 ,< >.6
E'47.6 ?,5 7 =4.6 =4 .55.' '' ; , / / 6.68 .7 ?,41 ,07.< 1'5.'
%?'1>,< >.6 ?4 66'<;.6 =4 .55.' '' , 5.<6..68 6.' ;:'1J.1''
> .@.;47.1'5'' A ' ' $ *' '-.;'5.6
6.;,416 .7 5.6 E,1;.6 >.' / ? 1.% ' 6 '-'<7 7,47 ,<
-,4>1' 5 0 < 7.< 1'5''?.16,<<.'>4'1, ' ,4 6 " %%%%%
9 ' ' H%< .EE.7 ,< 7, / 0.'=4.5=4.E, 6'>'<6 ''
0'77. / .1 7=4'4>' ,< 6,<J.' =4.'5.6 / .<..6 5.6 ?546 ';G
7 -.6 < ,<7 ?4' > - 6.1'5.6 H1'< ' 6 .<'H1'<;.8 .7 =4.'
NI,, ' '< 6) <K% ' 16 7,< < '' .7>'5.';1'?1.6=4.'4< '
-.16.5 >.?4 6 -'6 ,<'>4'1, %

.'9 <'4J41'7 ,<'>.' .,?,5> 6 .67 E' 7.' '' ! '<>'
;,7< / .';, / 7.' ' 5'<>1.% 55.''41'' 5 ;45.' ' '' ,<6
;, / / .';, <7.'>.'B' <'47%%%% .'Q,41'>.' ;.77.';:1.< ,'
R.' '' <-.16 ,< '';1 .' $! '$ A A; +' ' 6 ;.5''
<.'E.1''?, <7 > EE.1.15.6 E 7.6 =4.5 ,<'>,<<.1'' >' '<
P.4<.'?1 <;.':919> 7' 1.'> 1'<J. ' .7;%

C F & ' 'Y- ' +' ,46 '??5'4> 1.0 '1,'G
< 1.'-1' / .<7 ?'71 , =4.'>,<7 <,46 '-,<6 ';;4. 55'5''
<,4-.55.'>4'1.5,41'>4 , '' '1 68 '?1 '6''7.<7'7 /' <'
E14;74.46.'>.'E4 1' .7 6.6 6.1 / .<76 '' 5'' #,<67 747 ,<8
34, =4.':71'4J.16 ?'1 <,6 1.5'7 ,<6 ?,5 7 =4.6 ''-,1.
J5,1 .46.' 1.J.<.1'7 ,< 8 <,46 <.' 5.'6, / / .6 ?, <7 ?'1
<,6 6.<7 / .<76 .7 <,6' .6?:1'<;.6% ,46 ?.<6,<6=4.'
<,71.'6,17 .67 '77';:.''4' -,71.8 ' <7.<.0 -,71.'5 0.1778
.7 <,46 6'41,<6 0 .<7,7 '>,?7.1 -,6 6'J.6 5, 6% ,46
E' 7.6 4<.';,<67 747 ,< ?,41 41,?.'.<7 1.8 .7 <,46
<.'6.1,<6 ?'6 5.6 >.1< .16 ' <'741'5 6.1'>'<6 <,71.'?'G
71 .'-,6 ?1 <; ?.6 .7 -,6 1.E,1 / %.6%

,6 '1 67,;1'7.6 5.'-, .<7;5' 1. / .<78 .7 56 71. / 05.<78
56 ,<7 >,<< ' >'<6 ;.77.' ; 1; ,<67'<;.'>.6 ?1.4-.6
0 .< 1. / '-=4'05.6 >.' ;.77.' ?,5 7 =4.' E'466.' .7 <6 '
> .46.'=4' ''7,4Q,416 >11 J.'5.6 >.6?,7.6% + ,46 '-,<6
'??1 6 5''?.1E >.'.-'6 ,<'>4'1, '5.'-.<>1.>'C % .'5.''
>. / ' < 4< ;,411 .1'>.' '1 6 <,46 '<<,<;.' .< ?'66'<7
=4.'5.'1, ' '' 7.' '11.7.' '' '1.<<.68 .7 =4 5 >, 71.<71.1
'' '1 6 '4' / , / .<7 ,< 5 ?'15.% ,71.'Q, .' .67 <.@?1 '
/ '05.8 / ' 6 .c5.' .67 >.' ;,417.' >41..% K .<7,7 '?1''
% 5.'0' 55'1.=, 7 4< ;,411 .1'>4'6.<'7 >.'K.1<.8=4'
54' / '1=4.'=4.'5.'1, ' .67 .<71 ' '' 4@. / 0,41J '-.;'
7,47.'6''E' / 55.% ' .4-, .' >.6 .@?1.6 .7 >.6 ;,4< .76
?'17,478 / .1'.'>'<6 5.6 - 55'J.68 ?,41'V 1.?'<>1.';.77.'
6.;,<>.'<,4-.55.% ,6 '1 67,;1'7.6 71 , / ?0.<7 '5,168
.7 <,468 <,46 6, / / .6 ;,<67.1<.6% .' / .1;1.>5 C* 5.6
<,4-.55.6 >.' K.1<.' '<<,<;.<7 =4.'5.'1, ' '' .;:'??'
6.45 '' ;:.-'58 '' 71'-.16 5''E,1.7 >.'K,<>V8 .7 =4 5 .67
'' .708 >,<7 ,< '' ;,11,< ?4'5''J'1< 6,<% ,71.' .EE1, 8
<,71.'>,45.41'6,<7 '' 5.41' ;, / 05.% #.?.<>'<7 7,46 5.6
0,<6 ?'71 ,7.6 < 'Q,47.<5 ?, <7 E, ' '' ;.6 <,4-.55.6 -.M
<4.6 >.'K.1<.% 546 .416 V -, .<7 <8<'>.66. < 6.;1.7 .7
?,5 7 =4.'>.'5''?'17 >4'6.<'78 .7 56 ,EE1.<7 '';.<@=<'
6 .7' ?'-'<.<7 >.6 ?'<6 =4' <.' 6,<7 ?, <7 ';;.?7 '
.Q.4>'=4.5=4.6 ; 7,V.<6 >.' ! .<.-.?'66'<7 ?'1 <,1.'
- 5 ;''5B1 / ;<7=4.'5.'1, ' .67 '11 -.'5.'C' '' '<6I =< 4<
>.'5.416' / 6 '' -48 .7 =4 '11 -.'5'' -. 55.' ;.7' / '5.41
''1.<>4' ;, / ?7.' >.' 7,<6 5.6 >.7' 56 >.' ;.77.' / '1> .P
=4 '< .7' 7 1 .<' / ,5<6=4.'71 , / ?:'5.%

,46 E' 6,<6 ;5'7;1 '' ?546 --.''55.J1.66.8 .7 <,46
<?46 ?1.?'1,<6 '' ; 5 01.1' > J<. / .<7;.7 -.<. / .<7
:.41.4@I / ' 6 4< ;,411 .1 .@?.> ' ''6.6 'EE >.6>.'!.M
<.-.'?'1' % ,4< .1'8 71' 6E4J.'>.' 66. / 05 .'<'5,G
<'5.8 .7 ;'<7,<< ' '' '46'<<.8 1.?' 1.'E' / .4@> ,<.'
<, / 01.46.';,5,< .'>.';.77.';'67.' ,1J4. 55.46.8 '<<,<;.'
=4.'5.'1, ' .67 '' .70 '-.;'0.'4;,4? >.'E,1;.6% ,4
-;55.' <; .17 74>.' ' <,4-.55.6 '5'1 / .6% .'-.<>1.>' F
Q4 55.7 >.'<,4-.55.6 5.771.6 >4'6.<'7 >.' K.1<.' '664G
1.<7 =4.' 1, 6 1.J / .<76 ,<7>.5 - '5.'1, I'=4 5 V6..'
4<';, / 0'7 7 ' - E';,<71.'5.6 J'1>.6 <'77,<'4@ I=44<
71.6 J1'<>'<, / 01.' '' 7.'74 8 .7;% '' J'0.77.'>.'K1'#
-.1 7'05.'7:.1 / <'.71.'>.6 ?1 <; ?.6 ?,5 7 =4.6 >.';.@
>, / <'71 ;.' >.' 7,47 5.' ?'V6 =4' .< ,41.8 1.?'<>''
;, / / .' ''6,< ,1> <' 1.'8 5.6 ,4-.55.6 5.6 ?546 '5'7'
/ '<7.6% <E < 4< ;,411 .1'>. ,<7'15 .1' ' '46'<<.''<M
<,<;.'?,6 7 -. / .<7 5.'1, ' '' '1 68 466 7 7 5.6 ;7,V.<6
Q.' ?'15.'>.'5''0,41J., 6 .8 6 . / ?'1.<7 >4';, [.185.'
/ .<.<7.<'71 , / ?:.'>'<67,47.'5''- 55.8 J1'<>.'<746=á
.<'7 7.8 < 6 '11.7.'>.-'<7 4< ;'E.' ,<'5.6 Q,'-<U4@85'
H1'<;.' - .<<.<7 > '11 -.1'8 ,< 5.6 5 7 '-.;''->7.8>
,<'0'?7 6.';.';'E.' ' '- ' K.<5 7 '?16
5.6 ; 7,V.<6 ?'71 ,7.6 E,<7 -.< 1'>.4@'?.;.6 >.';'<, '
56 5.6 .7'05 66.<7 >.-'<7 ;.';'E.'6 74 '>'<6 5''14.'E'-M
1 7.'>.6 <,05.60.5- 7 .<6 .7 E1'< ' 68 .7 1.?.7.<7 /'<7-
>;;'1J.6% ''?1, ;.66 ,<'Q,V.46.' 6 .67 ?1, / .,>.'> '
7,47.'5'' - 55.8 / '5J1 '5'' ?54 .8 .<'Q,4'<7 ' 1'6+ '
7 ? 7.'?'1' / 55.'-, @% 5.'6 .67 ?,17..'Q46=4.'>'<6 5Y
;,41'>4';:>7.'48 6 >.<;.'>4'<,05.'0' 55 % #.54 7
.<-,V ';,;<71.' .55.'5.J4.7 8 / ' 6 5.J4.7 '' 7.'E,1>>,
6.'1.7 1.1% ; 7,V.<68 '-'<7 >.'6.'6.?'1.18 ,'7.17>
'14<'<5 / 7 '=4 56 < - .1' .<7 7,47.6 5.6 - 55.6 >[?'?

*

'6.'Q, =>1.' ".4@'?,41'; 5 01;18 5.' U'Q4 55.78 '<< '
.1'' 1.'>.'5'' 1.-,547 ,<% 6,<7 04 '' ?546 .416 1.?1 '
'.68 ;5'>.'0 .<0,<;,.41'8 ''5''6'<7.'>.' 66./05..'<''
7,<'5.'.7'' ;.55.'>.'5''<'7,<E1'<;'6.8

,46'< '-,<6?'6 /'<=4.' ;' &>'<6 <,71.' -57.' >.'
.1J.6P'>.'E' 1.'5''E.7.% '5-.6 > '17 55.1 .8 7,'676 ''5''5 '
0.17.8 / 46 =4.'J4.11 .1.8 ' 1'& G ' .7 6417,47 4<.'
;,;'1>.' <'7,<'5.' >.' >.4@ ?5.>6 >.' > ' / .71.'?5';..'
641'5.'5 .4 >.'5''6;.<.% ,46 '-,<6 >'<6.' >.6 1,<>.6
'4?1.6 > .55.8 .7 <,46 54 ' '-,<6 >,<<.'7,41' ''7,41'5.'
0' 6.1'>.'5'' E1'7.1< 7.%

' V,<8 ,< < '' ?'6 .7.' /,<6 '1>.<7 7;. .01.1'
;.57.' :.41,46.' <,4-.55.8 =4'E' 7? 1'7,46 5.6 7V1'<6%
<''?5';.' ' 0, 7.6 .7 C ;'<,<6 641' 4<.'?1, /.<'>.'
>,<7 5.6 .<- 1,<6 60<7 6,4 55.6 ?'1'5.'6 / ,41'>.7.67.'>.6
.' %%%1' .7 > 4<.'5,<J4.' ;.:,17.' >.'E,<J4.46 '1 67,'
;1'7.6% <V ''E' 7>.6 6'5-.6 > '17 55.1 .8 5.' F'Q4 55.7 8
>.?4 6 >.4@ :.41.6 Q46=4 '4 6, 1I' 4<.' / 46 =4.' Q,4' 7
>'<6 5.6 <7.1-'55.68 .7 ' 1'E'-,1' .7' 7 6,4-.<7 1.?.7.%
4 6 ,< '' E' 7 1'66. / 05.1' 7,47.' 5'' Q.4<.66.'>.6 >.4@
6.@.6I',<''>'<6.'641'5''?1, / .<'>.'?.<>'<7 ; <= '' 6 @
:.41.6I ?.4 >.'E 7.6 ,<7 97.'?546 01 55'<7.6 =4.';.' ?' '
71 ,7 =4.' / ?1, / ?74% % .', 1'.7 ;,<6,17 6 6,<7 7,46
'55.6 6.';'5E.471.1' '4' ;:'7.'4' >4' 0' 5 ' ?.<>'<7%;.77.'
,> .46.' .@?5,6 ,<>4'?'71 ,7 6 / .'<' 66'<7% % ,4< .1'
.67 '466 7,7 '11 -.'>.' '46'<<.';, / / .'?,41'?1.6 >.1' ,4
1'6641.1' ;.7 554671.'

40,<<.8 .-'V8 ,4>0<8.7;%8 ,<7 1.66.<7'5.' / /.'
.<7: ,46 '6 / .1'5.6 .6?1 76 07' .<7 > '47'<7 ?546 .@'57 68
=4 ,< ''1.;,<<4'>.'5''?'17 >.6 K.1<, 6 .7 >.6 0' 55 68
5.41'' ;,11.6?,<>'<76 8 4< >.66. < / '1=4.'>.'<.' <,46
;, / / 4< =4.1' =4.' >.' E'466.6 <?<-.55.6% ' 55.416 5.'
6,4-.1' < ''1 ?,<>4 ''<,6 1.=4 7.6 >4' 7,< ? ?546 >. '
?,7 =<.8 .7 0<.1J .' E1'<;' 6.' '' ;, / / .<;.' '' <,46
J'J<.1% ,46 '-,<6 E,17 0 .< -4' > ' 55.416 = .'6 '5''
;,<71. 1 -,547 ,< 6 .5E.;74' 7 .< H1'<;.' <,46 .7 ,<6
?.1>46 6'<6 1.66,<1..% 4 '<,6'1 67,;1'7.664 66.68 1 '
1 7.6 ,4 ?547,7;,<67. / >6 >.6 E 5.6 =4.'<,46 -.<,<6>.'
>,<<.1' ''5'' 5 0.17V8 ,<7 4< / ' <7 .< .<;,1.'?546 71 67.'
'4.'5.6 . / J1'<76 E1'<;' 6%

.6 ; 7,V.<6 >4' ?'V6 >.' ! E7@ ,<7 979 6'6'7 6E' 76 >.'
5''?'17 =4.'<,46 '-,<6 ?1 6.' ''Q, .'>.' 5'' H1'<;.' .<'
7 .1.8 =4 56 <,46 ,<7 .;1 7 ?,41'<,46 .< >. / '<>.1'5.6
>.7' 56 8 .7 =4 56 ,<7 ?.1 / 6 6'<6 >.5' ' '4@ 4 66.6 =4'
,<7 >.6 E,,>6 ;0.0 .4@ > '55.1' 1.;,57.1' 5.416 5, <6 .7
5.41605.68.7 >.'5.6 1.7 1.1' .< <'741.'.< 4 66.8 ;.'=4 5'
'-' .<7. / ? ;:.Q46=4 '' ;.' / , / .<7%

H # %

'8 ' +' '' 6,; .7.'>.6 / 6 >.'5'' #,<67 747 ,<
>4 B>-1.'< .@?. > .1''<'<.'1.;.-1''=4.'>.6 5.771.6 EI7
?'=4.76 'EE1'<;: 6%

.%++(' / M- .8; %,.%

'6.1'' 01 55.''4Q,41> 4 8 ''4<.' :.41.8 7 :>7.5 >.'
5'' ;' 66.'>.'1.@71',1> <' 1.8 14.' - .<<.8 5''6, / / .'
>.'<.4E / 55 ,<6 .<'66 J<'76I'5'=4.55.8 Q, <7.''4@;.<7
=4'71. - <J7 5 4 7 / 55 ,<6 >.Q'' 01>5.68 E.7'';.55.' >.'
;.<7 =4'7 . - <J7 > @ 6.?7 / 55 ,<6%

'

% 5.6 ';7 ,<<' 1.6 6,<7 '-.17 6 =4 5 6.'7 .<>1''
,<.''66. / 05>.'J.<>1'5.8 5.' / '1>' *'>4 ?1. 6.<5 / ,768
'' '?,41'9 :.41.6 >.'1.5.->.8 .<'5.41' :>7.58 ?<.' M
- .<<.8 ?,41'.<7.<>1.'5.'1'??,17>.' % 5.6 ;, / / 6'
6' 1.6 <, / / >6 >'<6 1'66. / ,5..' J><.1'5.' >4' C >4'
;,41'7178 .7 E @.1'5.'> - >.<>.%

.6 ;.17 5 ;'76 =4 ',<7 > Q''6.1-'?, ' '66. / 05..
,>1'5.' ' C >4' ;,41'<7 6.1- 1,<7 '466'?,41';.55.
45*%

"

' K ' %

8 ' 'F'G '

' ' ' ' ' ' BP'

' ' ' 'F 'F &

.'?'66.' / ' <7.<'<7 7' % 5.;, / 7; .E.16.<8 ;,5,<.5
>4 1.J / .<7 ,V'5 4 >, 68 .7'4@' ' 71.6 ?.16,<<.6
=4 ' <7 ';;, / ?'J<>'5.'1, % 546 .416 >.;5'1'7 ,<6 'O'
7.67.<7 =4. % .E.16.< ''E' 7E' 1.'5''-, 741.'>'<6 5'M
=4.55.'6G.67 .5E.;74>'5.'-,V'J.'>4 1, 8 .7 =4 ,< ''?1 6
;0.0 54 '5.' ;'01 ,5.7 =4 ' ''6.1-' '<@' >.4@ E. / / .6 >.'
#:' / 01.% ,<>.?'17 640 78 6,<>> / .<'J. / .<7E' 7 >
'5.<; .<<.6 ,7' 6,<'1.J / .<7 7' 7.< J'1< 6,<8 .6
.EE,176'?,41' .<J'J.1'6.66,5>'76 '' 5''>.6.17 ,<8 5.6 <M
> ;.6 7 1.6 >.'6.6 5.771.6 ,4' 5' '<<,<;.'=4 5'.67 ,;;4?>'
> 4<.'J1'<>.'.<71.?1 6.8 ,<7E' 7?.<6.1'=4 5'>.-' 7 71.'
;, / ?1 6 '-.;' % K,4 55>'.7 5.6 '471.6 ;, / ?5 ;.6 >'<6
';;46'7 ,<'=4'6.1''?,17>.'''5'' :'47.';,41'<'7 ,<'5G%

'<6>,47.8 > '?1E.'5.'>>;1.7 >4 C9 Q4 <8 ?'1'5.=4.5
1,46 '-.0 >,<<>'4<.'J'1>.''4 1, '?,41'5''641.7>'>.6''
?.16,<<.8 ;.4@=4 'E'-,1 6.1' .<76,<>>?'17 6.1' .<7
;,4?'05.68 ;'1' 56 ;,<71 04.1' .<7 '' . / ?E ;:.1' .EE.7
>.' '>.;1.76I / ' 6 '-'<7;.' / , / .<7 5.'1, '.7' 7 5 01.8
5?,4-' 7?'17 1% % '5>.<7 8 '5,1V .7 4 / ,47 .1'
5 '-' .<7 Q' / ' 6?'15>'4' 1, 8 >,<.' 56 '-' .<7 >7>' < '
> =4.6 ?'1' 5.6 ;:.E6 >.' .<71.?1 6.8 ?'1' 5.0 J><>1'5
K,4 55>8 .41' ;, / ?5 ; 7>' < .67 ?'6 ?1,4->.8 / ' 6 >.'
7.11 05.6 6,4?;,<6 5.6 <-.67 66.<78 .7 5.6 ;, / 7>6 ?.<'
6.<7 =4 5'V ''5 .4' ''?,17.1'';;46'7 ,< ;.<71.' .4@8 .7 ''
5.6 71'>4 1.' '' 5'' :'47.';,41'<'7 ,<'5.%

34'<7 '' / '>' / .' ,410.58 1.6?,<6'05.''4 1, '.7 ''
5''<'7 ,<8 .55.'< ''?'6 > ' .@?,6.1'5.'6,17 >4' >'4?: <'
' ' :'6'1>'> 4< -,V'J.'>,<7 .55.'<'41' 7?'6 ;,<<<'5.'
047I'5.'6.1 / .<7 =4 .75.' ''?1>7.'4' 1, ''>7.' ;, / / .'
'4 1.?1.6.<7'<7 >.'5''<'7 ,<8 >'5'=4.55.';.7 .<E'<7 '?'
?'17 .<7% >?,6 7' 1.'>.' ;.'J'J.'?1>; .4@8 ?,4-' 7'
.55.'; / ?1, / .571.'' <6' <7>1.7 >.' 7'7Z 'E6 ;.54'
=4' ''>. / '<>.' ..7.<E <7>7' 7 4< ?.1.8 ;>7' 7 5.'1, I'
.55.'<.'1;;.-' 7 > ,1>1.' =4.'>.'54 8 -,46 < '- .0 1 .1'
>>;1.7.'>' .J'1>' >.' :.1 7 .1'?1>6, / ?7 E >4'71><.8
.c5.''-' 7Q41.'>.' <.'?'6 6 .< 6.?'1.18 .55.'<.' 6'-' 7
1 .< >4' ?1,Q.7 =4 ,<'-' 7 E,1 / .FI'-, 5'6''>.E.<6.% .'
;, / 7.'?.<6.'=4 .55.'< .65'?, <7 .@. / ?7.>.'6,4?;,<68
.7 =4 .55.'>, 7 1.67.1'.< .7'7> '11.65'7 ,<8 Q<6=4 '' ;.'
=4.'5.'71 04<'5'> '11,<> 66. / .<7 ;:'1J>' >.' <E,1'
1''7 ,< ' 7 7.1 / <.'6''?1,;.>41.%

'1.J'1>'>.' / .6>' / .6 K14< .1'.7 .4-55.8 E. / / .6
>.';:' / 01.'>.' %5.'>'4?: <'.7 >.'5''7 55.'>4 1, 8 5.41'
.7'7>.'>, / .67 ; 7.'<.'5.41'?.1 / .77' 7?'6 > '-, 1'4<.'
-,5,<7>% ' ''?'14''4';, / 7.'=4.'-, 6 >.-.0 ,1>,<<.1'
=4 .55.6 6,>.<71. / 6.6 .<'5 0.17V%

,6;, / 7>6 ,<7>,<.'?.<6>'=4.' <E4 7.'>4' 1, '< .67
?'6 4<'> 5 7;,<67 747 ,<<.5I'=<.'> ' 55.416 <- ,5'0 '
5 7.'<.' ?.1 / .7 ?'6 >.'5.' / .771.'.< ;'46.I / ' 6 =4.'
% K,4 55>' .7 6.6 ;, / ?5 ;.6 >, -.<7 >71.'1. 7-,V '
;, / / .';,4?'05.6 >.' :'47.'71' 6,<'45'':'47.' ,41'
<'7 ,<'5.'?1,-6, 1.% 34 5 / .'6, 5 ?.1 / 6 >.@?1 / .1'
4W 6.<7 / .<7 ?'17'J>8 6'<6 >,47.8 ?'1'7,<6 ;.4@ = '
/ ;.,47.<7% 4 66.';.7 ';7.'>.'6.-.<7>'971.'5.'>.1< .1'
=4.' 66. / 05..'<'7 ,<'5.'6.'-.11'',05 J..'>.'?1,<,<'
;.1I'?4 66.<7 <,6 .<<. / 6 1.>.-.< E'H1'<;' 68 ;7 6.'
;,<-' <;1.'=4.'7,<6 5.6 H1'<;' 6 -.45.<7 .71.' Q01.6 C
?< 66.<7 56 <.'?'6 ,405 .1' =4.8 >'<6 ;.77.';1 6.'=4'
6. / 05' 7 ?1>?'1.1' >.' J1'<>6 >'<J.16 ?,41'5'' ;:,6.'
?40 ='.'8 ,<'6.45 ;1'6 .65'E' 7 .<7.<>1.'> 4<.'.@71>'
/ 7>' '5'' H1'<;.' ' '<71.8 .7 =4.';.';1'>7' 7N '' W
0.17>' ,4'5'' / ,17

% 4J4.7 5 7 4< ?1,Q.7 >.'>.;1.7 =4 ';,47 .<7 5.6
> 6?,6 7 ,<6 64 -'<7.6N

66. / 05>.'<'7 ,<'5.8 '?1 ',1, 1' / 6.6 .,4 7>6

[illegible]

[illegible]

D'APRÈS UNE GRAVURE DU TEMPS.

Typ. Henri Plon. *Réimpression de l'Ancien Moniteur.* — T. IX, page 124.

Vadier, député de Pamiers à l'Assemblée constituante.

K.ʻ 0.'4ʻ ?1: [?.ʻ >.ʻ < ,E'0 5 7.8ʻ 5ʻ ?,411'ʻ >,<.ʻ 9J,1J.1ʻ5.6ʻ:, / / .6ʻ;, /1'.ʻ>.6ʻ71, ?.'4@\'& <ʻ.<ʻ 7.<>ʻ '4ʻ / .4ʻ> '??5'4> 66. / .<76ʻ '66.0ʻ <, / 01.4@ʻ ;.6ʻ / ,76ʻN 7 ʻ *ʻ 4 7 4<ʻ / , / .<7> 'J 7'7 ,<%Pʻ .ʻ>>E .ʻ .ʻ ?546ʻ :'0 5.ʻ 5,J = .<ʻ>.ʻ / .ʻ < .1ʻ 5'ʻ ;,<6.M =4.<;.ʻ>4ʻ?1 <; ?.% <ʻ#'5 J45'8ʻ 4<ʻ .1,<ʻ?,411' 7ʻ 6.ʻ 5 -1.1ʻ '7,47.6ʻ 6.6ʻ E41.4168ʻ .7ʻ 5ʻ E'4>1' 7ʻ1.6?.;7.1ʻ 6.6J,E7766'<J4 <' 1.6%& 8.6ʻ'??5'4> 66. / .<76>.=4.5ʻ '4.6ʻ / . / 01.6ʻ >.ʻ 66. / 05..ʻ.7ʻ> 4<.ʻ J1'<>.ʻ?'17 .ʻ >.6ʻ 71 04<.6F1.;, / / .4;.<7%Pʻ 3 4 '55.0ʻ ,46ʻ 7' .Zʻ #,<6.1-.1ʻ' '1, %# .67ʻ5'8ʻ> 1.0 -,<684<ʻ>.;.6><.,<ʻ -.<.<76ʻ =' 5ʻ E'47ʻ 64??,17.1ʻ .<ʻE'-.41ʻ >.6ʻ J1'<>6ʻ '1'<7'J.6ʻ> 4<.ʻ ,V'47.ʻ <- ,5'05.% #.ʻ1' 6,<<. / .<5ʻ 1,.ʻ?'1' 7ʻ <7,5. 1'05.ʻ?,41ʻ>.6ʻ:,7< / .6ʻ5 01.6%

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36 $ $ " + * (" - I 3(/ (5 * (" (24(., " '(* ,) $9("
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- (- $, ") $ " (, $) . $/ (, + * .(,+. - 5 (4. *0(.+ (,.(3, 7
(, (- $, +$,.(- (# .9(" (. * , (* * " - (+ $ ' (.+ * $ * $
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' 3 * #+$.(+ ,.+0(. " (" 6(.$,+9(" (* ' ((* 3(
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4. 4.$(,+$.(/ (4 + " 5 (#+$.((4 +..+ / 4 *,(,+) $. ($
4+, * $ (" * +0 $. / - (. + * $ * (3+ * ' (.+ * 3 * * * 4.
* - $3(+ * 2 4. 4.$(, " 0 $ $ * (" $ * #3.$(.(/ (' ' $.(* !
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- * $ * (" (. * , (* + + - $ * - (* (' (" 4. 4.$(,+$.((/ ' $, $,
9.(9. / ' $, - $.(- %(24(., '7 (- $, " +0 $. * (" 4 * ..
(,.(,+) $ " - + * " (" 36+ 4 " (.$ ($$$(*3(
(" +$,.(" - (# .9(" +3,+(3.+(* , (2$,+ * , (" '(1
. * , (* " - (' (3 * . $ * (./ (3 4 ,.(- + 4 *) $!

D'APRÈS UNE GRAVURE DU TEMPS.

Typ. Henri Plon.

Le duc de la Rochefoucauld-Liancourt,
député de Clermont en Beauvoisis à la Constituante, président le 20 *juillet* 1789.

[illegible]

E 5 6' 7 5'' 5, ' 6'1.<7 0 .<'=4 '5,16 6'' ?1,0 7>' E477,4\'
Q,416 4<' ,067';5.' ' 5'' ?.1 > .>.6 / < 671.6I 5 E' 77
'5.'> 1.8 5.' 1, ' < .67 .<' ;.' / , / .<7 01'->'=4.'?'1'5.6
E';7 .4@8 .7 ; .67 ''5''1,V'47>'=4 ,<' .<'-.47%& .5.J.16
'??5'4> 66. <.<76 6,<7 >7, E .6 ?'1'5.6 ?546 - ,5.476
/ 41 / 41.6%P # .67 2 ; .77.' 6,17.'>.' 7V1'<< .8 >,<7 5''
/ 457 74>.' .67 <6714 / .<78 =4 ,< - , >1' 7 < ,46'664 '
Q.77 1I ; .67 ?'1'5'' ; :47.' > <<' 6.45 =4.'>'<6 5.6 ;'5 '
;456 >.' 5.416 <7>1>76 ?.16 ,<<.56 5.6 E';7 .4@ .6?.1.<7
0 .<7 7 <.' ?546 71,4-.1'> .J'4@I / ' 6 - ,46>.Q,4.1;0
5.416 ?1,Q.76 .<' / ' <7.<' 7 4<.' #,<67 747 ,<' ?,41'5' '
=4.55.'5'' H1'<;.' ''Q41>' >.' / ,41 1% '??4 .'5.'?1, .7
>.' ' ; / 7.6% 8 ' G
% 5; Q7 'N <7>1>7 <'7 ,<'5 .@ J.'=4.'5'' ?5' >, '
1 .'>.' % 5.' J1'<> / '771.'>.'5'' J'1>.1,0.'>4' 1, %%%%
& 546 >.' - <J7 / . / 0 .6 >.'5'' ?'17 .' J'4;0.6.' 0-.<7
.<' ;1 '<7N ' ,1>1.8 ,<6 .41S ;.5'' .67 '0, / <'05.%P
%5.' >. / '<>.8 > 6 Q.8 / ?1.66 ,<' >4' / >< , 1.' >.'
% 0 '<;,4178 .7 5'' > 671 047 ,<' ?16=4 5 6 'J 1'' >.'
.5 J 0 5 7.'>.6 'J.<76 >4 ?,4-, 1 .@.;<7 E% & <' / 41 '
/ 41.'>'<6 5'' / 'Q,1 7>' >.'5'' ?'17 .'J'4;:.% +' # <=' ''
6 @ / . / 01.6 '??5'4> 66.<7%P
% ;B H 4; 4< 1 #, K N '-' 6 5 .4 > .6 '
?. .1 = .' / '' ;,<>< 7.' 2 66. / 05>.' ?,411' 7 / .'
/ .771.'' '01 > 4<.' ?'1. 55.'> '71 0.% & <' / 41 / 41.%P
34, '=4 5 .< 6, 58 ,<'-'' / ,<7.1' '' 5'' 71 04<.' '?106
/ , Q .7 ,<'?, 11'' > 6;47.1 / .6 1' 6,<6%
% '' # ' 5 ' >.' >4 ?1 <; ?.>.5 <- ,540 5 7>8
5.6 ;,< 7.6 <,46 ?1 ?,6.<7 >.'>.;5'1.1' = .' 5.'1, '<.'
?.<7 ?'6 971.' / 6 .<';'46.I Q J<,1.' '' =4.55.';,<6.M
=4.<;.'E4<.67.' ?,41'5'' 5 0.17>' ,<'?.<7 <,46 ;,<>4 1.'
'-.;' 4<' ?'1. 6V67> / .I Q J<01.' 6 8 '?1.6 4<' ?'1.>'
>. ;1.78 5 <,46 1.67.1'' .<;,1.'=4.5=4. ' / ,V.<6 ?,41
'EE' 05 1 .< 6.6 / ' <6 5.'7.11 05.'< ,V.1'>.' ; ,11, / ?1.8
=4.' 54 ' >,<<.' 4<.' 5 67.' ; - 5.' >.' ' / 55 ,<6 & =4.5 '
=5 .6 / . / 01.6 >.'5'' ?'17 .'J'4;:.' .7 5.6 71 04<.6 '?M
?5'4> 66.<7PI 6P 5 <,46 6.1'' ?,66 05.'> . / ?>;:.1'5.'1, '
>.' / .771.' 4<' 6.;,<>' #'5,<<.' ''5'' 77.'>.6 E <'<;.68 .7
4<' 6.;,<>' K,4 55>' '' 5'' 7>7.' >.6 '1 / . .6N 6'5.6 ;, / 7>6
?.<6.<7 =4.'7,46 ;. ' / ,V.<6 >, -.,7 54 '>71.'5' 66.68
=4 56 <,46 > 6.<7 '466 ' E1'<;:. / .<7 =4 56 -.45.<7
Q.7.1' W<' -, 5.' E4<001.' 6<1' <' 5 0.1 ' E1'<;' 6.% & .6
'?? '4> 6. / .<56 1.>,405.<7%P .'>. / '<>.' =4.' >4
/ , <6 56 <,46 ?1>6.<7.<7 .<6. / 05.'>.'5.416 -4.6 641
5.'6,17 >4 1, 8 .7 =4 56 < ,405 .<7 ?'6 =4.' ,<6 .41
< .67 ?'6 <- ,5'05.' ?'1' 5'' #,<67 747 ,<% & .6 / 41 '
/ 1.6 ;,4-1.<7 =4.5=4.6 '??5'4> 66. / .<76%P
34.5=4.6 / . / 01.6 >. / '<>.<7 '' '55.1''Q @ -, @6<1
5'' / ,7 ,<'>. % 451' < % + <'1.;5' / .'1,1>1.>4Q,41%
'# 41'5'' ?1,?,6 7 ,<'E' 7.' ?'1'5.' ?1.,?7 %
<'<78 ,<'>. / '<>.' ,1>1.'>4Q,41% % '<>1>' ''5'' ?'M
1,5.8 5.'5''1.;5'<5.' '?1E.'54 %
% >'N .' <.' >. / '<>.'?'6 =4.' ,<'?'66.' '
,1>1.'>4 Q,418 / ' 6 6 / ?5. / .<7 =4.' 5'' > 6;466 ,<'
;,<7 <4.% .' ?1.,? <'<7 '' E' 7 4<.' / ,7 ,<' <; >;<7.'
=4 ' 6.1'' > 6;47. .'>'<6 ,1>1.'>.'5'' ?'1,5.%
% $ '' 'N .'>. ;1.7 =4.' -,46 '55.0 1.<>1.' >>; '
>.1'' >4 6' <7 ,4 >.' 5'' 640-.16 ,<' >.' . / ? 1.% <'
J1'<>' ;1 / .' '' .7>' ;, / / 6I 5 .@ 67.'>.' J1'<>6 ;,4 '
?'05.6I 4< -.16 -,<6 1.J'1>.8 .7 5'' ?,67>1 7>' -,46
'77.<>% ,46 ?,4-.0 .<' 4<' <67'<7 ?.1>1.' ,4 ;,<6,5 '
>.1' '71'-'4@I 5 .678 6.5,1' / , 8 E <.'=4.67 ,<'?1> '
5 / / 1.';.55.'>.' <- ,5'0 5 7.8 ; .67 ;.55.'>.' 6'-, 1'
6' 4<' 1, '?'1Q41.' =4 '>.6.17.'6,<'?,67.8 =4 ' . / / .<.'
'-.;' 54' :>1 7 .1' ?1>6, / ?7 E >.'5'' ;,41,<<.8 =4 '6.'
Q.77.'>'<6 5.6 01'6 >'4<' J.<>1'5 ?.15 >.'=4 '-.47 '66'6 '
6 <.16'' ?'71 .8=4 1.?'<>' 4< / '< E.67.' ,E' 5>. ;: 1.5''
#,<67 747 ,<I 6 8 > 6 Q.Q <' 7.5 :, / / .'?.<7 .<64 7.'
> 1.'=4'5 E .>4' 5 71.'>.'1, ' >.6 H1'<;' 6I <- ,5'0 '
5 7>' <.'1>6 >.' ?546 641'6'' 7>7.'>.?4 6 =4 5 '' '0> =4>'6''
;,41,<<.% &34.5=4.6 / . / 01.6 >.'5'' ?'17 .'J'4;:.' .7
5.6 71 04<.6 '??5'4> 66.<7%P 4;4<' >.' <,46' ' 7 5 ?4
.<7.<>1.'=4 4<' 01 J'<>' ;,41,<<>%%%%% & '' J1'<>.' / 'M
Q,1 7V >.'5'' ?'17 .'J'4;:.' / 41 / 41.8 34.5=4.6 '?M

?5'4> 66. / .<76 6.' E,<7 .<7.<>1.' >'<6 5'' 6'55.' .7 5.7
71 04<.6% +' 546 .416 / . / 01.6 >.'5'' ?'17 .'>1, 7.6.'
>-.47 '-.;' ?1.; ? 7'7 ,<' .7 / .1 ';.<7 1,? E '<7%P
4;4<' >.' <,46 ' 7 5 Q' / ' 6 ?4 ;1, 1.'=4 4<' 01 J'<>'
;,41,<<>'?E 7 / ?4<. / .47 / '66' ;1.18 <; .4> ;18 '?'
?.5.1' >'<6 5.' 1,V'4 / .'>.6 6'7.55 7.6 .71'<J.16Z 4<.'
7.55.' / ,<6714,6 7.'.<E'<7.1' 7 0 .7 7E 7>.6 >1,<6.7>.6
#'5 J45'6Z & <' .<7.<>' >.6 '??5'4> 66. / .<76%P .'E'6
4<.'=4.67 ,<' '' ; .4@ =4 ' ?1,?,6.<7 >.' 1. / .771.'5.'1, '
641' 5.'71 <.N 5,16=4 5 6 ' . 1'' >.' 1.@>;47 ,<' >.' - '
5, 6 ; ,<71.5.6 71' 71.6 '' 5'' ?'71 .8 6.1' ; .' '4 <,''
> 4<71'<6E4J.8 > 5 <' ?'1Q41.8 =4.' -,46Q''1. ;5' / .1.0I
6.1' ; .''4 <, / ' > 4<' ; , / / .'=4 '5.6 '' 6 ' ,4-.17., .<7
- ,5. .6Z ' / ' 6 4<.' <'7 ,<' 1.J><.1..8 Q' / ' 6 5.6'
H1'<;' 6 <.'6 ';;,474 / .1,<7 '' 4<' ?'1. 5 J.<1.'> J<, '
/ < .% .67 ;.'>,<.' ?'6 '66.0 > '-, 1' ';=4 77.'5.6 >.M
?1.>'7 ,<6 >.' 6'' E' 05.66.8 > '-, 1' 6'4->' 6,< 1 J<.'
> 4<.' <1> / .' 0'<=4.1, 7.Z .6 -'5.768 >,<7 5.'E'67.'
;,1 71'67.'7'<7 '-.;' 5.'1.J / .'>.' .J'5 7>8 <,46 ';;''
6.<7 >;' ?'1; / ,< .% & .6 '??5'4 / 66. / .<76 1.;, / '
/ .7 ;.<7%P '' 64.41 .7 5.' 6'<J' >.' ?546 .416 / 55 ,<6
> :, / / .6<.?.4-.<764EE 1.'6''6406 65'<;.% .<.-.4@
%?'6 -,46 1'??.5.1' ; '5.6 ; 1;,<67'<;.6 >.'6,4 1.J<.8
;.77.'6.'<;.'1,V'5.8 ;.6 6,5>'76 .<-,V>6 ?,41.<7,41.1'
.<;. <7.' ,:' -,46 >7 .0 1'66. / 05. 6I .< 4< / ,7 5''
J4.11.' .7 5''E' / <.' >,<7 ,< -,45' 7 ' / > / .'7. / ?6
'EE5 J.1'5.'1,V'4 / .8
.7,<6 641' 7,46 ;.6 >>6'671.6 4<' -, 5.'1.5 J .<@%
& 'J 7'7 ,<' 6.' / 4< E.67.'>'<6 > -.16.6 ?'17 .6 >.'5''
6'55.%P <' / ';;46.'>.'?'1 .1 ;, / / .' '1'7I Q.'E1>'
=4.<7.'?.4'5''71 04<.%=8 ' 0 '
' ' ' '<7% / .4]% ,<6 .418 7'<7 / .4@%P
.' < '' > '471.' .5,=4.<;.'=4.';.55.' >4 ;, .418 Q.' >, 6
1',<' ,?< ,<' '' / .6 ;, / < .77'<76I Q.' 5'' >.;5'1.1' 8
/ > / .' '4 ?.1 5 >.' / '' - .'N 5'' <'7 ,<'-,46 ''1.->746>.'
6'' ;,< '<;.8 -,46 ;,<<' 66.0 6,4 -,.48 <.'7.1J -.16.0
?'68 ,4 0 .<' . / ?1.66.0 -,46 >.' 1.<>1.' '4@ ;,1?6
.5.;7,1'4@ ';7 - 7.' =4.' -,46%5.41 '-.0 5>.% '6
8< '55.0 ?'6 -,46 ;:'1J.1'> 44.''06,547 ,<'=4'<.?.47
=4.'E5.71 1'-,71.J5, 1.%& ,4-.'4@'??5'4> 66. / .<76%P
.';,<;546 '' ;.'=4.'5.6 ;, / ?5 ;.68 E'47.416 .7 '>:>'
1.<76 >.'5''E4 7.'>4 1, '6, .<7 1.4-,V.6 ''5'' ;,41 ?1, '
- 6, 1.6>'<7.'2 15.'<6I =4 .5 ';7 - 7>6, 71.<>4.',@
;,1?6 .5.;7,1'4@ ?,41 ;<, 6 1 -,6 64;;.66.4168 .7
=< 5 , 7 4, / / >' 4<.';,<-.<7 ,<'<'7 ,<'5.'?,41 ?1, '
<,<;.1'641'5''>.;:.'<;.'>.'5'' ;,41,<<.'=4.' ,4 6'' 5
'' .<;,414.%& .6 '??5'4> 66. / .<76 >;'=4.5=4.6 / . / M
01.6 >.5''?'17 .'J44;:..7 >.671 04<.61.;, / / .';.'7%P
%? 4' \'N ,46 <'-,<6 ?'6 2' .@' / <.1'=4.55.6
E,1 / .6 5 ;,<- .47 >.' ,<<.1''4'?,4-, 1' .@.;47 E8 .7
6 5 E'47 5.'>.?,6.1'>'<6 4<.'6.45.' / ' <' ,4 >'<6 ?<'
6 .416% <'>. .1.7'<7 4<' J,4-.1<. / .<7.66.<7 .5 . / .<7
1.?1.6.<7'7 E8 <,46 '- <6 -,454 ' .<' / / .'7. / ?68
44 7.' <> - >4.55.'>4 ?,4-, 1 .@ ;47 E8 .7 ;.67 6,46
;.' ?, <7 >.-4.'=4.' <, 1.'J,4-.1<. / .<7 ;,<6.1-.'5.'
<, / '>.' / ,<'1;: =4.'I .@.1; ;.'>.';.'?,4-, 1'??'1'
7 .<7 '' ;.54 '=4 ' .< .7' 7 5.'>.?,6 7' 1.' 5.' 'Q E <'>.1M
< .18 .7 <,71.' #,<67 747 ,<' .67 '4Q,<1> :4 ';.' =4 >5.'
.7' 7 '5,16% .'1, ' < '' ?'6 ;.66.'> .71.' <- ,5'05.8
?'1.>'=4 5 < '' ?'6 E,1E' 7 5'' #,<67 747 ,<% <- ,5''
015 7E '< .67 ?'6 ? [. / .<71.5'7 -.8 .55.' .67 '06,54.I.7
6'<6 -,45, 1'>7'05 1' ; ' 4<.'64?.167 7 ,< 1,V'5 67.8 Q.'
;1, 6 =4 ,<'<.' ?.47 5''6,4 / .771. ' '<'5V6.'<''4@.0'
;.?7 ,<6% #, / / .<7 .>7 >7.' ';;4; 55 .' .<' ()*' 5'' ?1,M
?,6 7 ,<' >.' > - 6.1' 5'' 1.6?,<6'0 5 7.'Z =4.5 '' >'5.'
-1'' ' / ,7 E >.' <- ,5'0 7.Z # .67 =4.' 5.'1, 8 ;.67
=4.'5.'?,4-, 1'1, V'58 =4 ' .67 <6. ?'1'05.' >.' 54 8 <.'
?.<7 > 1.'Q4J>8 ?'1;.'=4 '4;4<'?,4-, 1' .7'05 ' ?'1'5''
#,<67 747 ,<'<.'?.<7 > 1.' < 6 .<Q J. / .<7I ?'1;.'=4.'
5'' ?.1.,<<.' >4' 1, ' .67 <> - 6 05.8 .7 =4 .5'<7 <>.6'
6' 1. / .<7 6'.1>.'6,46 4<' 1'??,178 .55.'>, 7 >71.'6,46
7,46I ''; 7.'>.' <- ,5'0 5 7.'=4.' ,<' '??.55.' / ?4'
< 7.'1,V'5.8 ,<'-,57 ,4 ,<'-.47 -,1' '66'66 <'7 >.6
;7,V.<6% = *

[illegible]

[illegible]

[illegible]

7, ,4'>.6';, / 7.78'2.' / V' ,??,6.8';.1'.55.'.67'>'<J.1.'6.'
$'7.55.'< .67'?'6'5.<1' <7.<7 ,<8'<,46' -, 5''0.'4;, ?'?<6'
'-'<;.6I' ;'1' <,<6'6, / / .6'>';;,1>''-.;'.<@%' & '6.5.-.'
0.'<;,4?'>.' / '1< / 1.6%P' .';10 6'=4.' 66. / 07..'<'7 ,<'5.'
5 .'>, 7'>,?7.1''77Q,<1> :'''';<<'?'17'1.5'7 -. / ;<7''<'
?, -, 1'.@.;45 E8'=< .55.'>, 7'6.'1.6.11.1'>.'?1.<>1.8''?1.6'
5''#,<67 7<7 ,<'E' 7.8'7,<7.6'5.6' / .6<1.6'<.;.66' 1.6'?,41'5''
;,<6.1-'7 ,<'>.'5''5 0.17.8'.7'>.;5'1.1',<.'E, 6'=<.'5.7'1,76'
<- ,5'05.6'6,<7'Q<J.'05.6'?'1'5.6'<'7 ,<6%

% . B., 'N' '- .<7'> .71.'E' 7'>.<@'=4.67 ,<6I'Q V'
E.1''>.6'1 ?,<6.6'?,6 7 -.6%' % 1 .<1''>. / '<>.6 8'>'<6'
5.' ;'6' ,<'5.'?1,Q.7'=<' .67'6,< / 6'2'5'' > 6;466 ,<'6.1' 7'
'>,?768' '- 6'>,';, / 7.'>.';,<67 7<7 ,<'.7' 7'=4.' ,<'>,7'
5.-.1'5''6,6?.<6 ,<'>.6'E,<; ,<6'>,'?,,-, 1'.@.;<7 E%' .'
>.;5'1.'=<.'5.';, / 7.''?.<6.'' <<'< / 7.'=<.'5''6,6?.<G'
,<'<.'>.-' 7'?'6' 71.'5.-..'Q,6=<'';.'=4.' ';7.';,<67 7,'
7 ,4<.5'E47'7.1 / <.%' ''>. / '<>.' .<6< 7.'6' .<'5' 66'<7'
6<06 67.1'5''6<6?.<6 ,?';.'< .7' 7'?'6'?,17.1''57. <7.'' <'
-5,5'0 5 7.%' .'1.?,<>6'=<.'5.';,1?6';,<67 74'<7''5.'>1, 7'>.'
&,6?.<>1.'5.6'E,<;7 ,<6'1,V'5.6%

'N'#.'< .67'?'6'-1' %

% 'N' '-,<6''> / .77.0' <- ,5'0 5 7.''06,'
7, .8' 5'.<'1.6< 7.1''=<.'5.'1, '?,<11''0 .<' .71.'>>;0<'>.'5''
,,<1,<<.'>'<6' .6';'6'=<'6.1,<7'>.7.1 / <.68' / '6'=4 5'<.'
?,<11''?'6' 71671'>< 7.<Q,J.1'.<78< '5 -1.''<@'71 0<<'<@%'
0.6'5.J 65'741.6'<'<1,<7'?'68';, / / .'-,<6' '-.0'.<8'5.'>1, 7'
>.'646?.<>1.'5.6'E,<;7 ,<6'><'?,,-, 1'.@.;<7 EI' 5'E'<>1''
?1.-, 1'5.6' ;'6'>.'>.;: <;.I'.7';.'6.1''.5 .6''5.6''??5 G'
=<.1%

% ,.7N' .'?1 .' % .6 / .<< .16'>.'-,<5, 1'0 .<'<,<6'
.@?5 =<.1' ;.' =4.' ; .67' =< <<'Q<J. / .<7%'68
0 '' 55,<6'>,<.8'B,<6 .418''' ,1>1.%P

% B 7 / K 'N' ,46'-,<6'>,<.'?.<6.'=4.'5.6'E,<;M
7 ,<6'><'?,,-, 1'.@.;<7 E'>.-' .<7'1.67.1'6<6?.<><.6I'=<.'
5,16=4.'5''.0'17.';,<67 7<7 ,<<.55.'6.1' 7'7.1 / <>.' .55.'6.M
1' 7'?1.6.<7..''<'1, 8'.7'=<.'>'<65.';'6' ,0' 5'<.' ';;.?7.'
1' 7'?'6'?<1. / .<7'.7'6 / ?5. / .<7' 5'6.1' 7''5,16'>..0<' ><'
71><.%& <''??5'<> 7%P

5,6 .<16' / . / 01.6'>. / '<>.<7'=<.' .@?5 ;'7 ,<'>,<<.'
?'1' % .6 / .<< .16'6, 7' <6.1..'>'<6'5.'?1,; 6 -.10'58
' '.'>. / '<>.8' / , 8'=<.';.77.' .@?5 ;'7 ,<'6, 7'
1.> J..'.<'?1,Q.7'>.'>.;1.78'.7''>,?7..''-'<7=<.'5''=,.6'
'7 ,<'=<.'<,46'> 6.<7,<6'6, 7'Q4J..8'.7',<'6'<1''5,16''=,,'
6 .<'7.< 1%

% ' @'N' <''E' 7'<<.' / ,7 ,<'=<.'Q '??4 .8';.55.'
> <6.1.1'>'<6'5.' ?1,;.6 -.10'5' .@?5 ;'7 ,<'>,<<..'?'1'
% .6 / .<< .16I'.55.' / .'?'1' 7' <646;.?7 05.'>.'>,<7.8' ';'
;.?7'7 ,<'>.'5''5,7';,<67 7<7 ,<<.55.' .67'5'';,<> 7 ,<' '5''
=<.55.' <> - ><'?.<7'1.J<.18' . .67',<' ,,<71'7'6V<'55'J / ''
7 =<.'&,<'.<7.<>'=4.5=<.6' / <1 / <1.6PI'Q.'<.'E' 6'=4 .<4<;.1'
/ ,<' ,? < ,<8'Q.' ?4 6'71.6' 0 .<'<.' ?'6' . / ?5,V.1'5.' / ,7'
?1,?1.8'Q.'> 6'=4.'5'';:'17.';,<67 7<7 ,<<.55.'.7'<7' ,0 J''
7 ,<8'5.'<;.<>'?'1'5.=4.5',<'5 .' :, / / .''=<',<'5'';'<E5.8'
5'E'<7'=< 5' ';;.?7.'?<1. / .<7'.7'6 / ?5. / .<78'6'<6' ;.5'' 5'
.67' / ?,66 05.'>.'5.' 1.->7 1'>.'5''> J< 7.'1,V'5.I' 5'.67'.<'
%#,1.'<<''<71.';'6'>.'>.;:>'<;.'=<'?,<11' 7'>71.'>.;1.7>'
?'1' 66. / 05..8' . .67' ;.54',<'5.'1,'6.' / .771' 7'>'<6'5.'
1,V'< / .''5''7.7.'> <<.''1 / ..';,<71.'5'' / 'Q,1 7>1Q.'?.<6.'
>,<.'=< ,<'?,<11' 7'1.> J.1'.<'E,1 / .'>.'>>;1.7' .@?5 ;''
5 ,<'>.' % .6 / .<< .168' <6>1.1'>'<6'5.' ?1,;.6 -.10'5'5.'
,.<>'';, / 7.'>.';,<67 747 ,<8'.7'?'66.1'.<6< 7.''5''> 6'
&<66 ,<%

%; 'N' '-,<6'>.;1.7.0%=<.'5'';:'17.';,<67 '
747 ,<<.55.'6.1''?1.6.<7>.''<'1, 8'-,<6'?1.Q<J.0'5''=4.67 ,<'
=<''<,46'.67'6,4 / 6.8'-,<6'>..5'1.0'=< 5'<.'?.<7' '.71.'
<6'.<'Q<J. / .<7%' .' / ,??,6.'>,<.'';.7',1>1.'>.'>.5 0.M
1'7 ,<%

% B'N'5 .@?5 ;'7 ,<'>.' % .6 / .<< .16' / .'?'1' 7'
?1,?1.' '0'<< 1'5.6' <=4 .74>.68' / '6'.55.'.67' <>.?.<>'<5.'
>.'0,< 6' " 8'.7'Q.'>. / '<>.'=< >55.'6, 7'J.<.1'5 6..%& 77'
'??5'<> 7

<.'J1'<>.'?'17 .'>,' .>7.'J'<;:.'>. / '<>.' ''57.1''<@'
-, @%

% 1 .<18' ! 1.J, 1.8' 55.1V'>. / '<>.<7'5''?'1,5.%
C 'B/ 3 5 '.->=<.'>.'K5, 6I'0.'1, '';;.?7.1'8'
5'Q<1.1'8' / '6'=4.5';, / ?7.'&.1.6 -,46'641'6.6''.1 / .<76Z'
& .6' / <1 / <1..6.' / .5.<7''<@''??5'<> 66. / .<76%P
<5'<5' / , / .<7'> 'J 7'7 ,<%

% ' 'N' '' ?1,?,6 7 ,<'.67'=< ,<'<.'?1.Q<J.'1 .<'
'<Q,41> 5 <'6<1'5''=4.67 ,<'>.'6'-, 1'6'5''#,<67 7<7 ,<'6.1''
?1.6.<7..'?<1. / .<7'.7'6 / ?5. / .<7' ' <> - ><%
C ; D B%'' ''5''?'1,5.8' / ,<6 .41'5.' 1.6 >.<7%' <'
B1> ,<5'<<,'6'?'5'W' .<7'KK' 1.' / 6'.<' <.' / .'7% .

?1.7.<>68' / , 8'=< <<.'<'7 ,<'.<''5.'>1, 78'.7'=4.'6.6 W'
?1.6.<7'<76' ,<7' 5.'>.-, 1'>.' ?1.<>1.'7,<7.6'5.6' '.6<1.6'
?1,?1.6' ?9<1'5'' / .771.' '' '01'>.'7,<7.6'5.6'1.-,5 / ,<6'
?1.6.<7.6' .7' E4741.6I' -,<6''-.0'.<'5.'>1, 7'>.'-. 55.1?1, '
- 6, 1. / .<7' '5''6>1.5.'>.' 7'78' / '6'Q.'6,<7 .<>1' 8'6 5$
5.' '<78'=<.'-,<6'<.' '-.0'?'6'>.E < 7 - . / .<7I' 5'E'<7'>,<.'
=<.'5''<'7 ,<'.@' / <='6 5' .67'>.'6,<' <7;1 7'>.'?1.6.<7.1'
''0,< 6' " '5'' ;:'17.';,<67 7<7 ,<<.55.8'.7' -,<6'?1.Q,J.6'
;.77.'=4.67 ,<8'0'' ?1,?,6 7 ,<'>.'B%' '<>1.'.67'=< ,<' '
?1.6.<7.''<'1, %8%%

%8 0 'N' ''1.?,<><' '<<.' <7.1?.55'7 ,'I,<'
'>. / '<>.'=<.' / , ' .@?5 ;'7 ,<'E>7'1.> J.1'.<'?1,Q.7'>.'
>.;1.7I'5''-, >'

W' 17%'S$%'0.'>.;1.7'1.<><'>'<6'5'' 6>'<;.''<'C 8=<'646M
?.<>' .@.1; ;.'><'?,<-, 1'.@>;<7 E8' 6<06 67.1''7'<7'=<.'
';7.'!,<67 7<7 ,<<.5'< '<1''?'6' 5.'?1>6.<7 ' .7'';;.?7.'?<M
1. / .<7'.7'6 / ?5. / .<7'?'1'5.'1, % 8'%
W % '<6'5.';'6',<' W 1,'';74 .58',<'E,<7''471.8'<6.;.?'
7.1' 7'?'6'?<1. / .<7'.7'6 / ?5. / .<78' 5'6.1' 7';.<'.'1.<,<;.;'
'5'',,<1,<<.8 .7' 66. / 05..'5.'>.;5'1.1' 7'>.;QQ<'><'71O<6%6'
% ; 'N'#.5''Q J.'5''=4.67 ,<%
34.5=<.6' / . / 01.6'>. / '<>.<7''' '55.1''<@' -, @'6<1';.'
?1,Q.7I'>'<71.6'1.;5' / .<7' ,<51.'>,'Q,<1%
0 66. / 0 ..'?'66.' ' ,1>1.'><'Q,<1' '5''?1.6=<.'4<'<'
/ 7.%
<'>. / '<>.'=<.'5''6.'<;.'6, 7'5.-..%
B% bK' 'P' '7' .<71.'5.6' / '<6'<<.'?.7 7 ,<'>.'
;.<7'?.76,<<.6'1.5'7 -.' ''5''=4.67 ,<'';7<.55.%'0 66;<05..'
- .<7 .55.'.<'.<7.<>1.'5''5.;741.Z'
0 66. / 0 ..'>.; >.'=<.'5''?.7 7 ,<'<.'6.1''?'6'5 .%
'N'0.'>.;1.7'=<.' 66. / 05..'- .<7'>.'1.<>1.'
5 .'?.<7''-, 1'?,41',0Q.7'>.'1.E46.1'E,1 / . 5. / .<7'> .<'7.<'
>1.'5''5.;741.8' <'6'6.45J / .<7'>.'5''1.7'1>.18'0''=<.6Q,<'
=4.'<,46'71' 7,<6'<.'?.<7'=<.'J'J<.1''>71.' .;5' .%5.'
>.;1.7'=<'<,<'' .67'?1.6.<7.'?'1 .6';, / 7.6'.67'0, 7'>'<65Y
?1 <; ?.68'0,<'>'<6'5.6';1;,<67'<;.68'.7' 5'6.1''??4V>?61'
>? < ,<'?<05 =<.%^5.'<,<6'5' 66,<6'?'6' <E5<.<;.1'?'17.'
/ .<..6'>.'=<.5=<.6' .;1 1' <6'?.<7 .71.'67 ?.<> .6I'5''5,'
<''=<''?5';.1'6,<'6 J<'58'.7',<'-.11''7,<6'5.6'5 ,<6';7,Q. / '
6V'1'55 .1%' .'>. / '<>.'>,<.'=4.'5''?.7 7 ,<'6, 7'<7>. / ''
' ,<-.17<1.'>.'5''6.'<;.8'
0''?1,?,6 7 ,<'>.' %K'1<'-.'.67'>,?7 .%'
0''.7 6.<66 ,<'6<1' <- ,5'0 5 7.''7';,<5 <<..''>. / ',%'
0''6.'<;.'.67'5.V.?''71, 6'0.<1.6'.7'>.6< .%

$ ' % $ &

09 ' (I' ., / .>.'.<' -.168'.<'>.<@';7.8'
?'1'5.'#,46 <' ';=4.68'1.?1.6.<7>.''<'7:.'71.'>.' ,,>.<18'
';7<.5 . / .<7' / .'H.V>.'48'5.'> 1''4;:.' 'Q< 55.7' (*8 '
5''FED'^0 6%' *2 8'WF'6,<6'.<'?'? .1'E <8';'1';7.1.6'>.' %55 ,7I'
.7'?,41'.- 7.1'5'';,<71.E'.,<8 6,17'=4 ''.?1,4-.' ;,>./.'
>'<6'5'5<<.%<,<6' .<'-,<6'E' 7'7 1.1'6<1'<'<.1;, / <7<<I'
?1 @8' 6,<6%
#.77.'? .;.'< ''?'6'.<' / ? <6'>.'6<;;.6'=<.' ;,> /#>/N'
5''5'<.8'>'' / E / .''<5.<1%
D ' <'?.<7'6.'?1, ;41.1';.6'>.<@'? .;.6' /?<1'.;66['
0.'<'?'? .18' .<' ;'1';7.1.6'>.' % >,78'?,<7' '5 -%8'7''
>.'?,17'?'1' ''?,67.%

' (' ; * ' ' " ' +' 4Q,<1>%'R 30 '
.<' " ';.7'5.'0'55.7'>.' 7
! ''(' ,!'7 ' V' *.- 6*'R!
' M ' V' + +.- $'LX / ' G ' '
S ' ' J
! ' '7<.'>.' ,.5 .<%' <Q,<1> 5 45ss
. ' 0 ' .7' '
' ' ;M ;& ' 8 ' +' 4Q,<1> 0<' BX / ($%%'
' / '(' ' 5'.7' '1 ' 0
' ' M ' ' '+*' ++$'!" 0+'
V' <Q,<1> :4 ' ' ' , ';, / >> .I' '- 9'.
' / '.7' ' , +
' * % ' ' ' $ ' ! ' '
' '5 ' ,<' ' %9 ' 0 % ' '
9' '3 ' '* ' ' ' ' / 'B' * ' : 'A'
'- / '.7' '- ' + ' 9
! " #$ " '<'0,45.-'1>'>4' . / ?5.%'+' * *.+ X'
) ' ' ' ' %'*.* 0 0 ' 0 / ' '-
' - ' ' . '14.' '5<7 '17 <% + -0374>5 / '
' / '(' '5 ' 9' ' / ' $,
-' 1 (' " ' '0 = 7' +' 7<>'u'
'< 4 .7' F ' *

! a %

ʿ8 & ʿ ʿ 7 ʿ + .6ʿ ! 1. ;6ʿ 6; : 67<'7 =4.6ʿ .<ʿ ,5, J<.ʿ 7' .<7Q46=4 "?1.6.<7 6,4 / 6ʿ "5" 64?1. / '7 .ʿ .; ;5 6 '67 =4.ʿ>.ʿ5" 466 .8 =4ʿ ? '1ʿ ; .ʿ / ,V.< <,4 ' 7 6 / / 6; .1ʿ>'<6ʿ 7, 47.6ʿ5.6ʿ 'EE' 1.6ʿ ? ,5 7 =4.6ʿ>' '19?4 ʿ 05 = ' .% ! .7 <; ,<-.< .<78ʿ 6.<7ʿ>.?4 6ʿ5, <J7. / ?68ʿ "> ʿ 7.1 / <ʿ5" > .7.ʿ " <, / / .1ʿ>.6ʿ ; , / / 66' 1.6ʿ =4ʿ6,<7 '55.6ʿ .<ʿ 7: 4'< .ʿ?, 41ʿ V ; ,<E.1..ʿ ' -.;ʿ5.6ʿ ; : .E6ʿ>. ; .6ʿ ! 1. ;68ʿ .7 ; ,<- .< 1ʿ ' -. ;ʿ .4@ʿ> 4<ʿ ?5ʿ<ʿ> : .1'1; : .ʿ ; ʿ5G =49ʿ 641ʿ5.6ʿ ?1 <; ?.6ʿ>.ʿ5"ʿ<, 4- .55.ʿ ; ,<67 747 ,<%

.6ʿ J.<.1'4@ʿ 1466.6ʿ . / ?5, V.6ʿ " '1< .ʿ=4ʿ 7'5.<7 '55.6ʿ " .7.160, 41Jʿ 6, <7 .<ʿ ; : . / <ʿ ?, 41ʿ 1.7, 4 / .1ʿ U 5.416ʿ ?, 67.6% .ʿ J.<.1'5 66 / .ʿ ?1 <; .ʿ ,7. / <ʿ .7 S.ʿ ; , / 7.ʿ >.ʿ ,4-'1, [ʿ 6, <7ʿ>.ʿ ; .ʿ <, / 01.% . ʿ ?1 <; .ʿ .?< ʿ .67 .<ʿ / '1; : .ʿ - .16ʿ K1' 5, 7- % <ʿ<.ʿ ? .47 / ' ʿ =4.1ʿ >.ʿ1. ; .- , 1ʿ <; .66' / / .<7 >.6ʿ <, 4- .55.6ʿ / ?, 1 ʿ 7'<7.6ʿ>.ʿ ; .ʿ

B B %

0, ʿ ʿ<- ʿ +ʿ .ʿ9ʿ>.ʿ ; .ʿ / , 6ʿ5.ʿE.<ʿ " ?1 6ʿ '4ʿ / 'J'6 <ʿ>.ʿ ' / 1'47 8 >'<6ʿ5.ʿ=4'17 .1ʿ '??.5 ʿ 'D & ʿ .ʿ ?1, J1 6ʿ>.6ʿE5' / / .6ʿ " .7.ʿ6ʿ1'? >.ʿ =4 5ʿ < .67 0 .<5, 7 1.67>ʿ =4.ʿ5.6ʿ / 41' 55.6ʿ > .ʿ ; .ʿ ->67.ʿ .> 9; .% " ? .17.ʿ>.6ʿ .=4 ? . / .<76ʿ5 ,4- .'4@ʿ .7ʿ>.ʿ ; .4@ʿ >.6ʿ - ' 66.'4@ʿ >.ʿ J4.11.ʿ ' ;74.55. / .<7 > 6'1 / 8ʿ >, <7 ; .ʿ1 ; : .ʿ / 'J'6 <ʿ 6.ʿ 71, 4- ' 7 1. / ?5 8 .67 4<ʿ>, / / 'J.ʿ / / .<6.ʿ ? , 41ʿ5" 1.?405 =4.%

ʿ %

@ ʿ 0 ʿ ʿ ʿ : ʿ ʿC ʿ

.6ʿ / '1=4.6ʿ >.ʿ 6'7 6E' ;7 ,<ʿ =4.ʿ5" ; ,<.ʿ >.ʿ K, 1<.ʿ "1.-4.6ʿ>.ʿ ; .55.ʿ>.ʿ ,6; '<.ʿ6, <771.6ʿ1. / '1=4' ʿ 05.6% ʿ .67 .- >.<7 =4.ʿ . / ?.1.41ʿ .7 6, <ʿE 56ʿ5.ʿ J1'<>ʿ >4.ʿ 6, <7 ; ,<- .<46ʿ>.ʿ ?'1'571.ʿ01, 4 55.68ʿ 'E <ʿ =4.ʿ ; .ʿ >.1< .1ʿ ?47 E' 1.ʿ>.6ʿ ; : '<J. / .<76ʿ "0.'4; ,4?ʿ>.ʿ ; %, ʿ 6.6ʿ>.ʿ5" E'J, <ʿ>.ʿ . , ?, 5>8ʿ 6'<6ʿ=4.ʿ5.ʿ ?.1.ʿ .47 ' 1ʿ >.ʿ 6.ʿ 1.71' ;7.1ʿ ? '1ʿ 4<.ʿ6, 17.ʿ> ' - .4ʿ ?405 ;8ʿ .7 > '? ʿ ?1, 4- .1ʿ5.6ʿ , ?.1'7 ,<6ʿ>.ʿ6, <ʿE 568 '4Q, 41> : 4ʿ / . / .ʿ =4 5ʿ5.6ʿ '??1, 4- .ʿ .<ʿ6. ;1.7% # .67 ' <6ʿ =4.ʿ . - =4.ʿ >.ʿ 67, .8ʿ5.ʿQ'<6 < 67.8ʿ " .7>ʿ / / ,5.ʿ7, 47 " : .41.ʿ " 5" ; , 41ʿ>.ʿ , / .8ʿ / '5J1.ʿ5" ?1, 7.;7 ,<ʿ .;5'7'<7.ʿ =4. . , ?, 5>ʿ 54ʿ ' - ' 7 ' ; ; ,1> .%%%%%ʿ " ; , 41ʿ >.ʿ '?5.6ʿ ' >, <<.ʿ5.ʿ / . / .ʿ J.<1.ʿ >.ʿ 6'7 6E' ;7 ,<ʿ '4ʿ ' 1%7 .1.8 6'<6ʿ ?1.<>1.ʿ5.ʿ / X / .ʿ>.7, 41% % % %ʿ , <7ʿ '>1.66.ʿ >.6ʿ <, / / 'J.6ʿ 1.6?. ;74.4@ʿ .7 ? .4@ʿ '4ʿ ? '? .8 .7 5.% ? '?.ʿ " 6, 4>' <ʿ ; ,<E 1 / ʿ5" <, / <'7 ,<ʿ >4ʿ 1, ʿ " 4< J1'<>ʿ<, / 01.ʿ> >- . ; : .6%%%%%% ʿ< .<ʿ .67 ?'6ʿ>.ʿ / . / .ʿ '

5'<8ʿ . / ?.1.41ʿ "7, 47 1.E46.ʿ '4@ʿ 9- .=4.6Iʿ 5ʿV / ' <G 7 .<7 7, 47.6ʿ5.6ʿ , ?.1'7 ,<6ʿ>.ʿ ,6.? :ʿ 8ʿ .7 5ʿ ?, 17.ʿ6.6ʿ ; , / ?5' 6'<; .6ʿ .7 6"Q467 ; .ʿ641ʿ5.6ʿQ4 E68ʿ =4ʿ , '7 , 07.<4ʿ 5%.ʿ >1, 7ʿ>.ʿ ; 7.8ʿ .7 ;%

ʿCU% <ʿ'6641.ʿ=4.ʿ5.ʿ ?'?.ʿ - .<7ʿ>.ʿ ?.1 / .771.ʿ'4@ʿ ;457 - '7.416ʿ ?1, ?1 .7' 1.6ʿ <.ʿ ; : '66.1ʿ641ʿ5.416ʿ : .1 7'M J.6% .6ʿ -'66'4@ʿ >4ʿ 0'1, <ʿ #' / ?'J<'<, ʿ.7ʿ>.ʿH, 1 / .55,ʿ ,<7 : '7.ʿ5" ?14>.<; .ʿ >4ʿ ' <7 .1.ʿ ? '1ʿ>.6ʿ ?5' <7.ʿ 1. 7 1>.6ʿ>.6ʿ- .@'7 ,<6ʿ.7ʿ>.?1.>'7 ,<6ʿ=4 5J.?1, 4- .<7%

H # %

ʿ8 ʿ .ʿ ʿ>.ʿ ; .ʿ / , 6ʿ #6ʿ >5. ;7.416ʿ>.ʿ () ` ,<7E' 7; : '<7.1>'<61.J5ʿ 6. / .71, ?, 5 7' <.5. . .EER<ʿ =4 56ʿ6.6, <7 .<J'J.6SʿE' 1. ; . .01.1ʿ 7, <6ʿ5.6ʿ '<68ʿ .<ʿ ; , / / . / , 1'7 ,<ʿ>.ʿ5" 1.-, 547 ,<8ʿ % B.1- .1ʿ " ?1, ʿ <, <; .ʿ4<ʿ> 6; ,416ʿ 71 0ʿ ?'71 ,7 =4.% " ?1 6.ʿ>.ʿ5" K'6M 7 55.8ʿ : .1, >1' / .>.ʿ %, .6'4J .16% " .7..@. ;47. .ʿ ' - . ;ʿ 5.ʿ ?546ʿ J1'<>ʿ 64; ; .68ʿ . .7 .<ʿ " .7.ʿ64?.10.%

.ʿ Uʿ 5.6ʿ ,EE ; .16ʿ / 4< ; ?'<@8ʿ5.6ʿQ4J.68ʿ5.6ʿ>> ʿ

Fʿ ʿ +ʿ< ʿ'.

? 57.6ʿ >.6ʿ6. ;7 ,<68ʿ5.6ʿJ'1>.6ʿ<'7 ,<'4@ʿ >4ʿ >>?'17.ʿ / .<7ʿ>.ʿ '1 68ʿ .7ʿ 4<.ʿ>.?47'7 ,<ʿ >.ʿ CUʿ 1' . / 01.6ʿ >.ʿ 66. / 05..ʿ<'7 ,<'5.8ʿ 6.ʿ6, <7 1. 4< 6ʿ 641ʿ5.6ʿ 14 <.6ʿ >.ʿ5" K'67 55.8ʿ .7 6.ʿ6, <7 1.<>46ʿ>.ʿ5" '4ʿ ; : ' / ?ʿ>.ʿ5" H.>.1'7 ,<8ʿ ?, 41ʿ6, 5.<< 6.1ʿ '<< - .16' 1.ʿ>.ʿ5" ; ,<ʿ =4.7.ʿ >.ʿ5" E 0.17.% % .- =4.ʿ>.ʿ '1 6ʿ " ; .5.01.ʿ5" / .66.ʿ 41ʿ '47.5ʿ>.ʿ5" ?'71 .Iʿ .<64 7.ʿ4<ʿ ; ,1?6ʿ<, / ʿ 01.4@ʿ>.ʿ / 46 ; .<6ʿ " .@. ;47.ʿ5.ʿ < ʿ ʿ ʿ ; ,17.J.ʿ / '1; : ' 7 >'<6ʿ 5.ʿ ?546ʿ J1'<>ʿ ,1>1.% .ʿ 7. / ?6ʿ .7' 7 0 .'48ʿ 5.ʿ <, / 01.ʿ >.6ʿ 6?. ;7'7. 16ʿ ; ,<6 >.1'05.% . 6, 5ʿ5.6ʿE, ='>.6ʿ>.6ʿ / ' 6, <6ʿ ,<7 .7.ʿ5 < / <..68ʿ > 'G ?1E.6ʿ <- 7'7 ,<ʿ >4ʿ ; ,1?6ʿ / 4< ; ?'5% .ʿ6' J7 ʿ?1.M ; '47 ,<6ʿ ' - ' .<7 ?1 6.6ʿ ? , 41ʿ .- 7.1ʿ5.6ʿ ' ; ; >.<768ʿ .7 '4; 4<ʿ .-.<. / .<7 < "71, 405.ʿ ; .77.ʿ1.4< ,<%

Lʿ \ ʿ B %

@ ʿ ʿ & ʿ ʿ ʿ &ʿ ʿ

ʿ YJʿ ʿ (* %

41ʿ5' ; , / / 4< ; '7 ,<8ʿ>, <<..ʿ ? '1ʿ % 5.ʿ / ' 1.8ʿ > 4<.ʿ5.771.'>1.66.. ʿ5" / 4< ; ?'5 7.ʿ>.ʿ '1 6ʿ ? '1ʿ5" / 4< ; ?'5 7.ʿ>.ʿK'66. .11.ʿ>.ʿ 5.ʿ>.ʿ5" ! 4'>.5 / ?.8ʿ .<ʿ >'7.ʿ >4ʿ ʿ / '16ʿ (* 8ʿ ? '1ʿ '=4.55.ʿ ; .77.ʿ / 4M < ; ?'5 7.ʿ 6.ʿ ?5' <7 .7 >. / / >.ʿQ467 ; .ʿ ; .<71.ʿ 5,ʿ 1.>' ;7.41ʿ> 4<ʿ, 4-1'J.ʿ?.1 , > =4.8 'V'<7 ? , 41ʿ 7 71.N F ʿ '7 G C 8ʿ ? '1ʿ5.=4.5ʿ5" / 4<1. ?'G $ ʿ>.ʿ K'66. .11.ʿ> 7 ' - , 1ʿ .7.ʿ ; '5, / < .ʿN

.ʿ ; ,1?6ʿ / 4< ; ?'58ʿ '?15 6ʿ ' - , 1ʿ .<7.<>4ʿ5.ʿ6. ; ,<>ʿ 64067 747 ' ;V, <7ʿ>4ʿ ?1, ;41.41ʿ>.ʿ5" ; , / / 4<.8 " '1 ʿ 1.7.ʿ=4.ʿ % .ʿ / ' 1. - ,4>1' 7 0 ;ʿ< . ;1 1.ʿ ʿ5" / 4< M ; ?'5 7.ʿ>.ʿ K'66. .11.8ʿ .7 . / ?5, V.1ʿ6.60, <6, 55 ; .6ʿ ?, 41ʿ .<J'J.1ʿ5.ʿ1.>' ;7.41ʿ>4 E, <R7.7E1ʿ "6.ʿ1.71' ;7.18ʿ .7 ʿ>, <<.1ʿ "5" / 4< ; ?'5 7.ʿ>.ʿ K'66. .11.ʿ5" 6'7 6M E' ;7 ,<ʿ =4 .55.ʿ>. / '<>.%

EJ [K B8 8ʿ / , 1. Iʿ # *ʿ A& !!

,41ʿ .@71' 7 ; ,<E, 1 / .ʿ " ,1 J <'5%

& ʿ A& !

,46ʿ 6.1, B ʿ 7, 4Q, 416ʿ E, 17 ' 6; 6ʿ> ' - , E1ʿ " 1. ;7 E ?1ʿ 5.6ʿ<, 4- .55.6ʿ=4ʿ , <7 ?4ʿ 05.66.1ʿ5.ʿ?'71 ,7 6 / .ʿ>.6ʿ ʿ > - >46.7 >.6- 55.6Iʿ / ' 6Iʿ>.ʿO, <<.ʿE, 8ʿ .67 ; .ʿ?'1ʿ <7.1 / .> ' 1.ʿ>.ʿ5" / 4< ; ?' 7>ʿ>.ʿ '1 6ʿ=4 , ʿ>, 7 <, 46ʿE' 1.ʿ ?'66.1ʿ5.6ʿ1. ;5' / '7 ,<6ʿ>.ʿ ; .ʿJ.< ;Z #.ʿ<.ʿ 6.1" ? , <7 54ʿ>.?5' .ʿ =4.ʿ>.ʿ1. ; ,<<, 71.ʿ =4 .55.ʿ " 0 .<ʿ '66.0ʿ >.ʿ 6.6ʿ ?1, ?1.6ʿ 'EE' 1.68ʿ .7 =4.ʿ6ʿ 5.6ʿ =4' ʿ 1'<7. =4'71.ʿ / 55.ʿ / 4< ; ?'5 7. >.ʿH1'<; .ʿ ' - ' .<7 0. ʿ 86, <ʿ> 477 041.'4ʿ>.ʿ ; ,11.6?, <>'<; .8ʿ .55.6ʿE.1, .<7 / .4@ʿ>.ʿ6 '>1.66.1ʿ 7, 47 4< / .<5ʿ " 4<ʿ>.ʿ ; .4@ʿ =4ʿ 6.ʿ6, <7 #7'05 6ʿ>'<6ʿ 44.ʿE, 45.ʿ> .<>1, 76ʿ>.ʿ ; .77.ʿ ; ' 7'5.% '< / , <6<, 46ʿ6, / / .6ʿ . / ?1.66.6ʿ>.ʿ ; '5 / .1ʿ <=4 .74>.ʿ>.ʿ5" / 4< ; ?'5 7.ʿ>.ʿK'6 ʿ.11.8 .7ʿ<, 46ʿ Vʿ 71, 4- , <6ʿ5" 6'7 6E' ;7 ,<ʿ >.ʿ< . ʿ ?546ʿ %'-, 1ʿ <, 46ʿ / ` <.6ʿ 641ʿ 5.ʿ # - 6 / .ʿ >.ʿ ; .77.ʿ ?'ʿ7 .ʿ >.ʿ<, 6ʿ ; , 4; ʿ 7, V.<6ʿ> / >1 =4.8ʿ 6; ʿ ʿ) " E

dG ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ& ʿ ʿF ʿAʿ ʿ ʿ ʿ ʿ ʿ , F ʿ " ʿ ʿ ʿ !

8 ʿA (ʿʿ0 ʿ+ʿ 'J 5'7 ,4ʿ .7 5.6ʿ ;1' 47=6ʿ =4 , <7E' 7ʿ<'571.% .66 .4168ʿ5.6ʿ>.1< . ʿL - 0 . / . 768ʿ ,<7>E5ʿ<. ; .66' 1. / .<7 .@; 7.1ʿ5.ʿOE.5.ʿ>.6ʿ ; ,1?6ʿ>/ G < 671'7 E68ʿ .7ʿ5.6ʿ ?, 17.1ʿ " ?1.<>1.ʿ7, 47.6ʿ5.6ʿ / .6<1;6ʿ =4.8ʿ>'<6ʿ5.6ʿ ?1. / .16ʿ / , / .<768ʿ 76ʿ, <7 ;14.6ʿ5.6ʿ ?546ʿ ?1, ?1.6ʿ '?1.-.< 1ʿ5.6ʿ>; 6, 1>1.6ʿ .7ʿ "1'< / .1ʿ5" ; ,<ʿ E '<; .ʿ>.6ʿ ?. , ?5.6% .ʿ< ' ʿ> <ʿ ?, <7>7.ʿL7, < .ʿ=4=ʿ 1<ʿ . ; , 47=<7 =4 .5" 5, ʿ>, ʿ5" >; .66 7>ʿ 56ʿ ' .<7 ?'14 ʿ ? , <1ʿ = 7.5=4.6ʿ <67'<768ʿ , 405 .1ʿ5.6ʿ ?1 <; ?.6ʿ641ʿ .6ʿ 8 =4.56ʿ 6.ʿE, <>.47ʿ5.416ʿ ?, 4- , 16ʿ5 J / . Qʿ ;7ʿ =4 .8ʿ6.

E'<7 ,< .71.' 6.746 =45 & ,<6.E '66><7 '5, ['
=4.5=4.' ;1 7 641' ,?< ,<' ?405 =4.8 56' ' .<7 ;14'
<> 6?.<6'05.'>.'6 <-.67 G >.'7,47; ' 5.6 '47,1 5>6%
64 6 / E / .' ?.164'>.'=4.' ;.77.'>.7.1 / <'7 ,<' "6.1-'
.66.<7 .55. / .<7 5"?'71 . ' .7 =4 ,<' <.'6'41' 7 >,<<.1'
71,?' > 5?J.6 '4' '>-,E7 / .47 =4.' 5.6 > EE.1.<76 ;,1?6
'> / < 671'7 E6 ,<7 <' ,<71.'>'<6 ;.6 ; ; ,<67'<;.6 > E '
E ; 5.6%

#.?.:>':78 .66 .4168 'J 7'7 ,<' " >>' ;.66.1' '-.;'
6" ;'46.I' 5.6 ;1' <7.6 >, -.<7 X71.'> 66 ?>.68 ,4' >4'
/ , <6 E'; 5.6 '> 71 1.I' ,1>1.' <7>1 .41'< "?, <7 .7.'
71,405>8 .7 7 / 5 .<<. / ' >4' >.:,16 <.'?'1' 7 .<;,1.' "
1.>,47.1N 5 .67 >,<.'7./ ?6 =4.' 5" #,<67 747 ,<' 1. '
?1.<'.7,47;'6" E,1;.8 .7 =4.'5.6 ?1 <; ?.6 =4 ' .<'6,<7
5"O'6.'<.'6, .<7 ?546 / . ; ,<<46%

18 -,46 6'-.6 =4 5 V ">'<6 5.6 >.?'17. / .<76 , 5
1,71.' / 66 ,<' 6 >7.O>' ?546 .416 ;,1?6 '> / < 671'7 68
? <6 .416 / <: ; ?'5 7>6 =4 ' <.'6.' 6,<7 ?, <7 .<;,1.'
.66' 6 6 >.' E'45,1 7>' / :7' 1.8 =4 '>'<6 5.6 ?5' ;.6 >.'
J4. 7.' .7 5.6 J'1< 6,<6 1.7 . <.<7 .<;,1.'5.6 ;5.E6 >.6
-55.68 >.6 '16.<'4@I' >.6 / 'J'6 <6E =4 ' ,1>,<<.<7
.6 / ,4-. / .<76 >.'71,4?.68 ,4 6.'?.1 / .77.<7 >.'5.6
.=4.1 1'>'<6 > '471.6 ;'6 =4.' ; .4@ ?1.-46 ?'1'5"5, N
-,,6 71,4-.1.O 6' >,47.'# <-#<'O5.'>.'5.41'1'??. '
S.1'=4.8 ; :'1J>6 6.45. / .<7 ?'1'5" #,<67 747 ,<' > <.'
P,17 ,<' >4 ?,4-, 1'.@.;47 EG .55.'<.'5.6 " '47,1 6.6 "
/ -'O 1' 5" 7,5' 7>' >'<6 '4.<<.' ; E;,<67'<;.I' =4 56
,<7 ?'6 ?546 >.'8>1, 7 " 6 . / ?<1.1' >.6 ?,4-, 16 / '
7' 1.6 ,4 Q4> ; ' 1.68 =4.'5.6 ; ,1?6 ,4 5.6 <> - >46
=4 ' ;.6 ?,77 , 16 6,<7 ; ,<E .6< ,<75.'>1, 7 > 4641?.1'
K6 E,<;7 ,<6>.6 ; ,1?6 '> / < 671'7 E6I' .7 =4.. .67 41'
" > 67 <;7 ,<' .7 <>.?.<>'<,.'>.' ; .6 ?,4-, 16 .<71.'
4@ =4.' 1.?,6.<7 .66.<7 .55. / .<7 5" #,<67 747 ,<' .7
* 5 O.17>% 471. / .<7 7,47 6.1' 7 O .<7 7 ; ,<E,<>48
75.6 / '5:.416=4 .<E'<7.1' 7 5" ?546' E1.46.'<'1; : .'
-.<>1' .<7 5" ?5' ; .'>.6 O .<E' 7.' =4.' 5.6 <,4-.55.6
' 6 <,46 '6641.<5%

1,4-.O O ,<8 .66 .4168 =4.'Q.'-,46 >. / '<>.''-.;'
'67'<;.'> . / ?5,V.18 ?.<>'<7-,71.'6.Q,41' '4 6. <'>.6
.?'17.1'.<76 E1,<7 .1.68 <E54.<;.'=4.'-,71.' ;'1'; '
61.'-,46 >,<<.'8 .7 =4 ' -,46 .67 ?.16,<<.55. / .<7'; '
4 6.' "6' Q467.'5 71.8 ?,41'V'1'??.5.1'5.6 -1' 6 ?1 < '
?.68 ?,41'V'1. / .771.'5.6 > EE.1.<76 ?,4-, 16 >'<6 5"
?:E.1.'> ';7 - 7.'=4 56 >, .<7 ?'1;,41 18 ?,41'V E @.1'
-,1 'O5. / .<75.65 / 7.6 =4 '>, -.<7 5.6 ;Q1; ,<6;1 1.%
5<'>.' -,46 6.;,<>.18 '47'<7 =4 5' ' 7 .<' / , 8
'<6 ;.77.'47 5.' .<71.?1 6.8 Q.' / .'?1,?,6'56 >.'-,46
<-,V.1'5.'>.;1.71.<>4 ?'1' 66. / O5..'<'7 ,<'5.'641'
f6.1- ;.'>.6 ?5' ; .6I Q.'-,45' 6 -,46 ?1 .1'>.'5.'E' 1.'
,<77'771.'-,46 / > / .68 > .<'>.-.5,??.1'5" <>..66 7>8
.<' '??4V=1' .@.;47 ,<'>.' ; ,<;.17 '-.;'5.6 J. <>1'4@
, / / '<>'<76 >'<6 5.6 >.?'17. / .<76I / ' 6 1 / ?1.6 %
,<' >.' ; .77.' 5, ' ?,4-'<7 7'1>.1' .<;,1.Y 7 / .' 6.1' 7
<?,66 O5.'>.'-,46 '>1.66.1' '66.O >' 7. / ?6 >'<6 4<.'
Q1 / .'5 '5 ; I' 4 1.67.8 ; , / / .' .55.'< .65 =4 4<' > -. '
Q??. / .<7 >.6 ?1 <; ?.6 >7'O5 6 ?'1'7'<7 > '471.6 >> '
1.76 >.Q"'1.<>46 641'E" > - 6 ,<'>.6 ?,4-, 168 .7 <4 56
,46 6,<7 ?'1E' 7. / .<7 ; , : <46Q E -,46 6.1" E' ; 5.'
> ,?>1.1' 6'< ' ; .'<,4-.'4 6. ; ,416 5.'1>7'O5 66. / .<7
>.6 > EE.1.<7.6 '47,1 7. 6 <>..66' 1.6 " 5" / '1; : .' >77
J,<-.1<.1'.<7 .7 '4 / ' <7 .<'>.'5" #,<67 747 ,<%

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' 77%'5.' ; , / / 66' 1.'>.'?,5 ; .'-(5"6.;7 ,<'>.' '<7 ,.O
. <7 / '5'>.8 %)("$ +''(++2/ '+)',$,+,'>''4.- +.(+.D
6V >>8 / .:J'J.'8 5 V " =<.5=4.6) .'/ " / .' ; : '1J.1'>''
.77. . / .<7>.'..'1.?' 1.'>.'Q'<.'168 >.' -(*."(,'-('1>5.'16Y

>576.['1='.'?'1 E .7 5.6 >.<1 .6 :E..5.6> 'J '6 <'-$
?'6 .7.'4<'>.6'1', 7 >1.6 71'-'<@' > B.1;<5.8 .7 ='.'5.6.'
1 .6 .4 ='.67 ,O' : ;7'<E ?'6 >'<6 / ,<' '11#<> 66. / .<78
5"'>. / '<>' 6 5.'7. / ?6 >.'5" 1.E5.@ ,<8

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,. O(.' ('4.$*3(' - .+*9(' +' @ *9(.# .-' +' ''(' #$,'
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-(' +' 4+.,'- ' . $/ 3+./ +8+*,'#+$,'4+.,$.' -(O+*,' $ +' .($
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@+9(.' Z(',($*4+' - + (.'.($*-.(''+' #+ $ (3*' .+*3('B3+
4. $" +' +' .($*(' -(' +' '+$O.(/ (,' ' 8' (,+$$') $9(' 4+.'
'(. (*,''(((' - *(' 3 *$ *' .'#+$#(+O+*,'' *
4+.,' , ,' (' +' 5 $ (,+$,' (*' ' *' 4 O $.' 4 *93
. 8+ (' -+*" +' 4 "6 ..$) (' 3 *# '$ */ $' #$,'). (.'$
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+ ." $' #$,' '(" 4.($(.((',(*,+,$O(" 4 .' +)+*- **($
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' -,+@ ' ($*)+$%5,.-' 2' $*$* $,' 2' b) ,(6+FBD ,+$. d ' $
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D'APRÈS LAMBERT.

Typ. Henri Plon.

Réimpression de l'Ancien Moniteur. — T. IX. page 131.

Michel-Louis-Étienne Regnaud,
député de Saint-Jean d'Angely à l'Assemblée constituante.

& *.' ((" (*,.(#+$,(" +'L= 4* +33+($$-.&" + +,$'0+?'<
-+*+' ++' .(*0+.'+' , *,+,' (+' 46+4(@(+' -*' .$,'3+,$$ $c
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'( )+.5*+' 4.(" -('@ *0.('/' (,' -(+3(*-$,' ,$(*,-,'+' + +$'/' +

& ' ' ' (

' K7 ' E 5 7 8

8 ' ' F ' G ' 2*

#B ' % ; ' K 50 %

*' -(' / (" '(3.(,+$.(" #+$,' (3, .(' -(' +' 4(,$,$ *'.(*Q'
0 8((' -+*" +' '(+*3(' -(' A+' 0($ (' & (',' 4 *.' *$' - **(.'
5*(' 3 *',$, ,$ *'±(,' * *' 4 ' ,+) $.' ' ' (',.-*(% *' 36(,'
,.+$,. '2' '(" '(.*$(*,'/5,$(' +' *+,$ *' 0 *"/+' (*0 8C 'A*',(!'
($$,' + +.,*('!' -(" -$'N= '$,$ *" -,$' 4. (,' 5*,' 0) *+' (',' 4. %
'(*,(' 4+.' 0 " 3 $*$#('/' * *" 0(* " 0 +' $*0 ,9.' +' -$"$4('
* "$*5 $(, -('7' b .'5% (' (" *$+ *" 0 +$(*,' +' 4+ .$('(*'
-+*9(./$ " '(' .+' '($*) +$(*,'3 ('4($#4 (/'(,% (' '-*+,(+."
0(*+$(*,'4+. $'($,2' 4 4.%.((*($ $.' ,(+.' 0 '*' (',' +0(3' ('
(+.+3,(.(' 5 ('* *' '!,(* *" -(" (+$*' /' 5*('* " 0($$ *"
0 *" 4.$.' -(' *('.$(*$',+, (.' '5 $'(('5*(' ('0 (*' -(', *,("
+" 3 *(" -*' . 8+* (' '(/' ' #,' +*$#(',(/' .+$9*(3 -('
3 . **(.' (" +,. 3(" 4(.#$-$('/' -(' * " ()*($' /' (,' * 6D'
) $(U' 4+" 5*(', ,' -(3.(,'5*$'*(' '(' .(#(. (.+$,' 4+" -+*" (.'
) .*(" -*' 4 0 Y/QA+,/ 0 *" (+,' %3 * (/ +,' 4+.' $,' 4$ (!'
#.+44 ' -('$ @,(+' J K
! ' ' .$*7' " 9 ' 77' & !

(" ,.$) *(" +44 + -$" '(* ' K M
% (' 4.('$-(*,' .+44(%+*2' ,.$) *(" (' .('4(3,'5* (("
- $0(*#' ' " ( ) (/!(, (*.' -(#(*-!-(' - *(.' +*3 *'
'$9*(' - +44.)+$ *' %- 4.)+,$ *7 %
'' ( ) ((%4+" ('X -.-.(' -' *. ']))' ' ' /
V' *' -(' !' (+' '(3.(,+$.('!$#+$,' 3,*.(%- **(' (,#.3' - '
$*$',.(-(' $+' 9*(..(/ .(+,$0(' ' +" (.,$- #+$,(')$(.' 4+.'
' *,('5*$ */' -*' -(#+*,' - +%44. 0$'$ *)((4,' -+*" (+'
-(4+.,((*," 5* $?' +' 4+.3 * '!' ($*$'..(.(*-' 3 #,.%4,('
-C' .+(' .('5*% '+' 4.$'C'4 *.' (,,.('((" -(4+.,((*,+'(*'
(,+,' -(' -(#(*'('*' +" .('5* '8' +' +*,+*,' - 6 (+' 5 (' C'
3$.3 *' +*3(" 4 *0+$(*,'$ (2$9(.7 (,' 5*(' +44. 0 '$ **(!'
(*,' (*' 0$0.(+' (,' (*'# ..+9(" (+,' '*, $'+*,'4 *.' '$2' $' /%

'1 ('N ' .6'?41J.<'?>.'E' 1.'641 5. ; :' '/ ?' ?'
1'??,17'641'5" -.1 7'05.'6 74'7 ,<' >.6' E1,<7 E.1.6%' 'E5<'
>.' E' 1.' ; .66.1' 5.6' <=4 .74>.6' =4 ,<' ; : .1; : .' " A'
?'<>1.' ?'1' >.6' ,? < ,<6' .@'JJ1. .6% B .1' .<=,1.' ?4'
?'17 ;4:.1'.6?' -.<4' / .'>18.'=4 5' -' 5' -<8'641'5"1,47.'
>.' ' /41' " >J.' .7'=4.5=4.6?'471.6' 1,47.6' -, 6 <.68'
?546' >.'>.4@' ; .<76' ; :'1 ,761' .' >. / '<>.'>,<.'=4.'5"
5.771.'>4' / < 671.'6, 7' / ?1 / >.8' .7' = .'5.'1'??,17'>,'
'; , / 7.' / 577' 1.8' '<<,<.>'?'1' % 5.@':>1. ' / .7:8'
6, 7'E' 7'5.'?546'?1, / ?7. / .<7'?,66 05.%
#.6'>.4@'?1,?,6 7 ,<6'6,<7' '>,?7>.6%
RS ' ; ' >.?<7>' >.' ' <7 .'? > <J.5V' N'
,6' ; , / / 66' 1.68' >'<6'5.6' >.?'17. / .<76'>4' ,4068'
>55' %1'8' >.'5"B'47. '><.' .7'>.' <8' / ,<7' ; :'1J.'
>.' ; , / ?5>7.1' 5.' ; , / ?7.' =4 56' -,46' >, V.<7' >.' 5.41'
/ 66 ,<8' >,<7'5.41' ; ,11.6?,?>'<; .' -,<6' "' >>Q" >,<<>'
5.6' ?1. / .16' >>7' 568' 56' >7' .?7'6'7 6E' 6'<76' 6,46' ?1.6 '
=4.'7,<6' 5.6' 1'??,1768' .7' <,46' <,46' E.5 ; 7,46' >.' ? ' '
L, 1' 1 .<' " ; : '<J.1' '4@' '6641'<; .6' =4.' <,46' -,46'
'-,<6' >,<<>.6' >.6' . ; .55.47.6' > 6?,6 7 ,<6' >.6' >>?'1Y

7. / .<76
5.6' / .<'; .1'W ' .@ .<.418' .<'5" 1' =4 .' < .<. / '
6. / 05.' J'1'<7 .'?'1'5.'6.<7 / .<7' / > / .'=4.'5.6' :'0 G'
7'<76' ,47'>.'6,<' / ?,17'<; .8' >.' 6" <>; .66 7>8' '47'<7'
=4.' ?'1' 5" 641-. 55'<; .'>.6' '> / < 671'7.416% .6' '7 '
7'=<.6' >4' >. : ,168' 6'5.'7. / ?6'5.6' ' / .<' 7' >4' ; >7>'>.'
,1.<714 ' ,4' >.'5" '-, .8' 6.1' .<7' 1.?,466>.6' 6'<6'
>,47.' '-.; '64; ..68' > '0,1>?'1' 5.6' >17' ; : . / .<76'=4'
J'1>.<7'5"E1,<7 .1.8' .7'5.'71..' ?.7 7<, / 01.'>.'>>E55 6'
=4' ?.1 / .77.<7' .<71>.' >.' 5" H1'<; .' -.16' 5.6' / ,<'
7'J<.6'.7'641'5.6'0,1>6'><' :><.f .<64 7.'?'1'5.6' ; ,1?6'
>.' 71,4?.6'=4 8' ?5' ; .6' >'<6' 5.6' J'1< 6,<6' -, 6 <.6 8'
6.1' .<7' ?1>76' "6.'?,17.1'>4' ; 7.' :'6.' / '<E.67.1' 7'
5.'>'<J.1% .6' 71,4?.6' ; ,<6 67.<78' >'<6' 5.'>.?'17. '
/ .<7' >4' ,4068' .<' 71, 6' 1>J:<.<76' > <E'<7.1 .8' 4<'
1>J / .<7' > '17 55.1 .8' .7'4<'1.J / .<7' >.' ; '-'5.1 .8' .<'
J'1'<6, ' " .6'< ,<8' =<' E 414 66.<7' >.6' >.7' ; : .G'
/ .<76'<4' ; :>7.'4'>.' / ' / ,<7' .E' ' > '471.6' ?,67.6'641'
5.6' .,<E >.' ; .'>.?'17. / .<7% .4@'1.J / .<76' >.' ; 'M
-'5.1 .' ,<7' >'<6' 5.'>.?'17. / .<7' >.'5" B'47. ' <.8'
4<' " .6,45'.7 '471.' " ! 1'V8' ?5' ; . / .<78' <,<'?'6'>.'
>.E.<6.8' / ' 6' >.' ; ,<V.<'<; .'?,41'5"E' ; 5c.'>.6'5,J. '
<.<76' .7' >.6' .??1,- 6 ,<<. / .<76I' / ' 6' 71'6' ?.4' >'
7. / ?6' 64E5 1' 7' '%5" , ,417.' / '1; : .' =4.'5.6' 71,4?.6'
'41' .<7' 'E' 1E.'?,41' '11 -.1' '4'?, <7' =4'6.1' 7' '77' '
=4.8' .76. ; ,<>.1' 5.' ; ,41'J.'>.' ; .4@'=4'6.'6.1' .<7'
%71,4-.6' ?546'?1#6' >.' . '<. / Q 6 ' 6.' / ,<71' 7% .'
41" < " =4 1" 6 45' 1.J / .<7' >.' ; '-'5.1 .8' 'EE' 05'
/ 9 / .' ?'1'5.6' >.7' ; 0. / .<76' =4 ' ,47' .7.' .<-,V.6' .<'
> EE.1.<76' 5 .77" -% 7' >?<7'5.'1'??.5' ?'1'57'466 ' 47 5.'
'4 >.?'17. / .47' / > / .' ; E4 5'6.1' 7' '-'<7'J.4@' '5" > 6M
; ?5 <.% .47 >51.' / > / .' -,71" ; , / 7.' / 5 7' 1.' .1, '
1' 7 5'=4 5; ,<- .<7' >.Q, <>1.'=4.5=4.6' ; / ?'J< .6'
> <E'<7.1 . / 4@' <'-'5 >.6'=4 8' 6.456'Q46=4 '4' / , / .<7'
>.6' >.1<E.1.6' '5'1 / .68' ,<7'J'1>.'5.6'E,176' K.5<' .7'>.'
' <7 <>1>8' ' '5 <6%' ' $
' E5' J'1>.' ,'7 ,<'5.'6 .67' 1>4< .' ' .4@8' > '?1.6' ,<'
'11>7>' >4' >>?'17. / .<71' / ' 6' ; .77.' / .641.'?1,- 6, 1.'
.?,411' 56406 67.1' ,<J7. / ? 6'<6' E'7 J<.1'5.6' ; '
7,V.<6 > 4<.' ?.7 7.' -B5.88' >,<7' 5.' ; ,41'J.' .67' 6 518'
/ ' 6' > <7' 5.'<, / 01.' .67' ?.7 78' 7' 6'<6' E,1 / .1'4<.'
6,17.' > / ? 7'5, ; '5'=4.'5.'?'71 ,7 6 / .' E.1' 7' 71,4-.1' 8
>J.18' / > / .' "6 ' ?'4-1.7.8' / ' 6' >,<7' 5' .67' > '47'<7'
?546' ; ,<-.<'05.'>.'<.'?'6'5' 66.1'64??,17.1'5.'?, >68'
=4.' 6 5' .67' ; .17' <' =4.' 5.6' ; 7,V.<6' 6,4EE1 1' .<7' ; .'
6.1- ; . ; , / / '<>.'?'1'5"?'71 .8' 5' .67' >,47.4@'=4 f6'
1. ; 5' / '66.<7'?, 1'6 .<'?5' <>1.%
.6'>.7' ; 0. / .<76'6.45. / .<7'6,<7' >]71 04>6'>'<6'5.'
>>?'17. / .<7' >.' <% .' C D 1>J / .<7' E,41<7' <'
E'<7.1 .' > 671 047.' " K,41J8' ,<754.58' 17- ,4@' .7'
.11. #:'7.5% .' UD 17J / .<7' >.' ; :'66.41" ' ; : . -'5'
E,41<7' >.6' >.7' ; 0. / .<76' "K,41J8' : , 66.V' .7 ,<7'
.15.I'.<E<' ! .@' "4<.' ; , / ?'J7 .'>4'1.J7 / .<'>.' ; ' '
-'5.B.8' .V66.5'4<.' ; , / ?'J< .' > '17 55.1 .%
' e "E1,<7 1.'>.' ; .'>.?'17. / .<7' .678' ; , / / .' -,46'5.'
6'-.08' >.E.<>4.?'1' 5" <'741.N'5.6' / ,<7'J<168' >'<6'
5.'?'V6'>.' ! .@' .7'>'<6'5.'K4J.V8' <.'5' 66.<7'1 .<'=4.'
> 771, 7.6' ; , / / 4< ; '7 ,<68' =4.' ?.<' > 0, / / ; 6' .7'
=4.5=4.6?E. ; .6> '17 55.1 .?.4-.<7>7E.<>1.% .60,1> '
.6; '1?76' >4' : <.' ,??,6.<7' -.16' 5" '-, .'4<.' 0'1 '
1 1.' / ?,6'<5.% .6' E,176' ; 546.' .7' 5.' ?,67; '>.'5"
#:'171.46.' >.' .11. #0 7.58' ?1,7 J.<7' .<; ,1.' ; .6'
E1,47 1.6' >,' ; 7.' >.6=4.55.6' <4 .' '??'1.<; .' > ' '
J1.66 ,<' <.6.' / '<E.67.%
,<7.6'5.6'71,4?.6' >,<7'<,46' -.<,46' >.' -,46' ?'15.7
6,<7' '< / 7.6' >.6' / . 55.41.6' > 6?,6 7 ,<6% .' ?'71 ,M
7 6 / .8' 5.'#,41'J.'>46,5>'7' E1'<J' 6' < ,4'Q' / ' 6' &57>'
>,47.4@8' 5' <.'54 'E'55' 7'?,41c 71.' <- <; 05.'=4.'>.6'
; : .E68' >.6' ,E5 ; .16' 641'5.6=4.56' 6" ; ,<E '<; .' ? 57' 6,'
1.?,6.18' .7' ; .77.' ; ,4B'<; .'6 <>..66' 1.8' <,46' .6?> '
1,<6'=4.'5.'<,4-.5' .<J'J. / .<7' ; ,<71' ; 76' ?'1'5.6' ,E '
; .16' .<'6.1">.6,1 / ' 6'5.'J'J.% ,46'<.'5.41.<' '-,<6'
?'6' > 66 <45 ' >7.<>4.' .7'5" <'741.8' <,46'5.41' '-,<6'
> 7' =4.' .' < 7' 7'?, <7' ; <<.'>.' ; .6' -' <.6'E,1 / <5.6

= .'5.';1.41'?.<7'> 6'-,4.1=4'<>'5.6'0,4;:.'5.'?1,M
<,<;.I';.< .67'?, <74 6.1 / .<7>=4 -,=4.'11';: ''5''
;1' <7.'?'1'5''?4 66'<;.8',4' '' 5'';4? > 7>'?'1' <7>1J7I'
=4.'; >7' 7' 4<'.<J'J. / .<7'6,5.<<.5' .7'5 01.8'<,<'%?'6'
.<-.16' 4<'>.6'?,4-, 16'>. J4>6',4';,<E 1 / .6'?'1'5''
% <'7 ,<8' / ' 6'.<-.16'5''<'7 ,<' .55. / / .' .7'5''6,4-.G'
1' <.7>'= ' 54''??'17 .<7N ; .67'4<'-,.4' 1.6?.;7'05.'
8=4 ' >>-,4.';.4@'=4 ' 5.'?1,<,<;.<7' '' 5''>.E.<6.'>.'5''
Q 0.17>' E1'<J' 6.' .7' '4' / ' <7 .<' >.' 5'' # ,<67 747 ,<8
'7.55.'=4 .55.' '' >7>',4'6.1''>.;1.7..I'=4.';.'< .7' 7'?'6'
Q4<'>.;.66.1 / .<76;,55.;7 E6'4@'4.56,<'?.47?'1'771.'
'6 4< 1'?'1'6'' ?1.6.<;.'6'<6'5.'?1.7.1'.<' .5E.7% #.67'4<'
6.1 / .<7' <> - >4.5' J'1'<7'?'1'4<.'6 J<'741.'=4 ' E,1\'
/ .1' 7' 4<' / ,<4 / .<7' / ?>1 66'05.' >.' >>6:,<<.4-'
;,<71.'..54 '=4 ' ,6.1' 7' - ,5.1%
<' H1'<Z' 68' '-,<6 <,46''Q,45>8'?,4 -' 7' >71.' .4 '
71'E<>' ?'1'>.6'?1>Q4J.6' ''>.6' .11.416'?,5 7 =4 .6I' / ' 6'
<,46' <.' ;1' J< ,<6'?'6'=4 5' :>6 7 7' '' ?1, .66.1''-..'
5,V'47>'6.6' 6.<7 / .<76% ,46'<.' >>J1'>.1,<6'?'6' 4<'
:, / / .'5 01.'Q46=4 '' 64??,6.1'=4 5'?4 66.'?1,E.1.18'
6 J<.1'4<'6.1 / .<7'>.6'-,4.'>'<6'5.'E,<>'>.'6,<'> / .%
5' .<' .67'=4 '6.'1.E46.<7' '' 5.'?1 7.18'<,46'5.6''-,<6'
.<J'J.6' '' #.>.1' '' > '471.6' 5.'?,67.'> :,<<.41' .7'>.'
?.1 5',4'5.6' '-' 7'?5';>6'5''?'71 .% ''?1,7..7 ,<'>.'5''
5, 8'5'' J><>1,6 7.' >.' 5'' <'7 ,<' 5.6' 64 -1''>'<6'5.41'
1.71' 7.8' .7'6 56' ?.1>.<7' 5.416'>1, 76' ' 5'' 1.;,<<' 6M
6'<;.' >4' ?.,?5.'=4 56' '41,<7;.66>'>.6.1- 18' 56'5.6'
;,<6.1-.1,<7'641' .67 / .'>.' 5.416';,<; 7,V.<6'=4 56'
< '41,<7'?'6'-,454'71,1'?.1% ,46'>.-,<6'1.;.-, 1'>.'
-,46' ''-,71.'7,41' .<J'J. / .<7'>.'5.41' ,0> 18'>.' 5.6'
1.6?.;7.1% ?1>6' 5''?'1,5.'6'.1>.8' >;1 7' 1.6?..7'05G'
.7'6' <7'=4 ' E,1 / .'4<';,<71'5'<,4-.'4' .<71.'5''<'7 ,<'
;7'6,<'1 / >;8'<,46'>.-,<6'.<' <-.67 1'5.6';:.E6'>.'7,47'
5.'?, -, 1'<>..66' 1.'?,41'5''E' 1.''J 1% ,46'>.-,<6'
1<??.5;1'7,47.6'5.6'?'17 .6'>.'5'': >1'1;: .' / 5 7' 1.''
5,41' ,1>1.' .66.<7 .5% ,4-.<.0 -,46' '' Q' / ' 6' =4.' 6'
' ;:.E6' 6,<7' 5 .6' ?'1'5.'6.1 / .<7' =4 56' E,<7' .<';.'
/ , / .<7' '' 5''?'71 .8' ..54 '=4.'-,46''55.O'?1>7.1' '466'
-,46' ,05 J.' .<' / > / .'7. / ?6' .<-.16' .55.8' .<-.16' ;.4@'
=4 ' -,46';, / / '<>.<7' .<'6,<'<, / % ,V.O'>,<.'1.5 '
J .46. / .<7'E >>5.6' .<-.16' .55.' .7' .<-.16' ;.4@'=4 '-,46'
;, / / '<>.<7 .<'6,<'<, / % ,V.O'>,<.'1.5 J .46. / .<7'
5'>.5.6' '' -,6'?1, / .66.68' ?,41' '-, 1'4<'>1, 7'>.'?546'
>. ;, / ?7.1' 641' ,06.1-'7 ,<'>.6' 5.416% # .67' ;.77.'
?1.4-.'>.'?'71 ,7 6 / .'.7'>.'0.5.'=4.'5''H1'<;.'.<7 .1.'
'77.<>' >.' - ,46N / '5:.41'>';.54 '=4 ' 71, / ?.1' 7'6,4'
.6?>1'<;.S
, 5'' 5.'5'<J'J.'=4.'<,46' '-,<6'7.<4' '4@',EE ; .16'
>,<7'<,46'>.- ,46'1.;.-, 1'5.'6.1 / .<7I'5'' J1'<>.' / ' '
Q,1 7>' '' ?1.7>'I' 5.6' '471.6' 6.'6 <7'1.7 1>6' 5''?54?'17'
>'<6'5.416'E' / 55.6.77,46'>'<6' <7>1 .41'>4'1,V'4 / .%
.?4 6'5.'6.1 / .<7'?1>7>8' 4<' '66.O' J1'<>'<, / 01.'.< '
1' <>'?'1'>.6';,<6 >.1'7 ,<6'?'17 ;45 .1.6',4' ?'1'>.6'
1>E5.@ ,<6'6406>=<.<7.6' ,<7'>,<<.'5.41'>> / 66 ,<8' .'
?,41';.4@ ; ';, / / .'?,41'5.6'?1. / .168 -,6';, / / 6'
6' 1.6' ,47'?1 6'7, 47'5.'6, <'?,66 05.'?,41'J'1'<7 1'5.41'
6E 1.7.' ?.16,<<.55.8' .7' ;.77.' ?1>;'47 ,<'=4.' V,6' < '
7>1.76' .7'5''Q467 ;.'5.41';, / / '<>' .<78'5.'1.6?.;7'?,41'
5'' 5, ' '' 1. >4.' 64?.1E54.8'<45'< ''1.;4'< / .<';.'<'
<Q41.%
,46' '-,<6';14'>.-, 1'.<64 7.''<<,<;.1''4@'6,5>'76'
=4.'7,47.'>.E '<;.'>.-' 7' '' '-.< 1'6 .5, J<.1'>.'5.41'
;,.418'.7'=4.'5.'1.7,41'>.'5''640,1> <'7 ,<'6'<6'5'=4.55.'
5.6'71,4?.6'< ,<7'?, <7'> ';7 ,<8 6'<6'5'=4.55.'5.';,4M
1'J.' / > / .' .67' <47 5.8' >.-' 7' / '1=4.1' Q>?,=4.'>4'
<,4-.'4';.<71'5'=4 '-.<' 7'>.6.'E,1 / .1'.<71.'5''<'7 ,<'
.7'6,<' '1 / .% ,46' '-,<6' 5 .4' >.' ;1, 1.' ?'1';.' =4.'
<,46''-,<6' - 4 8'.7'> '?1>6' 5.'7>' / , J<'J.'>.6',EE ; .16'
J><>1'4@8'=4.'<,71.'.6?>1'<;.' .7'5''->71.'<.'6.1,<7?'6'
71, / ?>.6'641';.'?, <78' .7'=4.' 5< ,<'1.6?.;7'05.'>.6'
-.1746' / 5 7' 1.6' .7' >.6'-.1746'; - =4.6'1.<>1'' <- <M
; 05.' '1 / >.'E1'<J' 6.I'=4.'E 01.6' .7'E .16'>'<6'5.6''6' '
6. / 05>.6' ; - 5.68'>,;5.6'.7'6,4<>6'>'<6'5.6'J'1'< 6,<6'
.7' >'<6' 5.6.' / <6% >6% 5. / .<7' ,16 . 55. 1'>.' <>>

?.<>' ;.'>.' 5.41' ?.<6>.' ,7'>.'5.41' 6,4 / 66 ,<' ' 5''
5, 8' >.'5.41'5 0.17.' ?,5 7 =4.' .7'>.'5.41'>.?.<>.<;.'
/ 5 7' 1.8'5.6'6,5>'76' 6.<7 1,<7' =4.'>'<6' .@.1; ;.'>.'
5''?1. / .1.' .7'>'<6' '664Q.77 66. / .<7 ''5''6.;,<>.' 56'
< '41,<7'E' 7'=4.';:'<J.1'>.'J5, 1.%
;'<,46'>.-,<6'-,46',06.1-.1'=4 4<'J1'<>'<, / 01.'
> . / ?5, 6' 6,<7' -';'<76'>'<6'5.6' 1.J / .<768' .7'<,46'
;1,V,<6'=4 5' .67' <> 6?.<6'05.'=4.'0 .<7>7'-,46'?1. '
< .0'>.6' / .641.6' .EE ;';.6'?,41'5.61. / ?5 18',4=4.'
-,46' .<' 1;671. J< .0'5.' <, / 01.8';, / / .',<'-,46' ''
?1,?,6>% <;.17 74>.'>.'5''6 74'7 ,<8'5'' E54;74'7 ,<'
>.'5''?.<6>.641'6,<'-.< 18'.674<.'?. 4.'?,41' :, / / .%
'E'47'.<'>.0'11'66.1'5.6',EE ; .16'>.' '1 / ..'?,41'=4.8'
>>J'J.6'>.'7,47.' <=4 .74>.'?.16,<<.55.8' 56' 6, .<7'
7,47'.<7 .16'''5''?'71 .'.7'''5.416'>.-, 16%
5' E'47'-,46'E' 1.'1. / '1=4.1' '466' <;,<-><.<7'
=4 '<,46' '' ?'14' 1>6457.1>.' 5'' 6.?'1'7 ,<'>.6' 1.J M
/ .<76'>'<6'>.4@'> - 6 ,<6'> EE>1.<7.6'>.' '1 / ..8' .7'
6,46'> -.16' ,EE ; .16' J.<.1'4@% ' .<' 1>6457.'4<.' <M
.@';7 74>.'>'<6' 5'' > 671 047 ,<'>.6' ,1>1.68' 6,4-.<7'
/ > / .'4<.' <;.17 74>.'>'<6'5.6' / ,4-. / .<76'>.6';,1?6'
>>7';:.68'?'1;.'=4.' .7'7 / 'Q,1'>4'1>J / .<7';,11.6M
?,<>' '-.;' 5.' J.<>1'5' >'<6' 5'' > - 6 ,<' >4=4.5' 6;'
1.<>',:'1>6 >.'6,<'>;7';:. / .<7% .'5'8' 5' .67' '11 1>'
=4.' 5.6' ;, / / '<>'<76'>.' > -.16' >>7';:. / .<76' ''
-' .<7'1.J4'?'1'5.416';:.E6''4;4<.'<,4-.55.'>.'<,71.'
/ 66 ,<8' .7'5.6';:.E6'.4@ / > / .6'<.'?,4-' .<7' ; / ;<'
>,<<.1' ;,<<' 66'<;.8' ?'1;.' =4 56' J<,1' .<7' .'1'
6>Q,41'>'<6' >7.<>4.'>.'5.41';, / / '<>. / .47%
5'6.1' 7'?,66 05.'=4.'1.@';7 74>.'>.6'041.'4@'>.5''
J4.11.'E 7'?'1E4 7. / .<7';,11.6?,<>1.'7,47'1;<6. 05.%
.7;.17.6' -,46' '-.O'5.'>1, 7'>.' ;@ J;1I' / ' 6' ?,41'
;07.< 18'<.';1, 1.0 -,46'?'6' .<E 8' .66 .416%647'
7,47' >'<6';.' / , / .<7'> EE ; 5.8'>.-, 1'?,17.1'4<'1.M
J'1>'- J 5'<7'.7'6.-.1.' 641' ;.77.' ?'15 .' ,;'1'> / 4 6 '
71'7 ,<Z' .?4 6'5,<J7. / ?6 ,? < ,<?405 =4;.58'>'<6'
..' / , / .<78'5.6'>'<J.16'>.'5''?'71 .';, / / '<>.<7'>4'
7 5.6'1>E,1 / .68'> / ?,17'<76';:'<J. / .<768'>,<7'6'<6'
>,47.'-,71.';, / 7>' / 5 7' 1.'-,46'?1,?,6.1''5.6'0'6.6%
,46'<'-,<6' ''-,46'>. / '<>.1''4;4<.61>?'1'7 ,<6'
/ ?,17'<7.6''4@'> EE>1.<76'E,176'>,<7'<,46'-,46''-,<6'
?'15>I' 5'.<'.67'>.'?.<';,<6 >>1'05.6=4 '7 .<<.<7'?54'
7 7' '4' ?5';. / .<7';, / / ,>.'>.6'J'1'< 6,<6'=4 ''5''>>'
E.<6.'4.6' ?5';.68' .7' =4 ' 6,<7' <>..66' 1.6' / ' 6' ?.<'
;,>7.46.6I' % ! 1'66 <8'<,71.';,55.J .8' .<';,<E.1.1''
?'17 ;4 .1. / .<7' '-.;' 5.';, / 7>' / 5 7' 1.% .6'>7'76'
=4 '<,46',<7'>7>' 1. / 6' '<<,<;.<7'?,41' :4 7' / , 6' 2'
- -1. ' .7'E, 411'J.664EE 6'<76' '4@'71,4?.6'>.'5'6 @ . / ;'
> - 6 ,<'88.7'5.6' 1>;,57.6' 5' 66.1,<78' '?1.6' 5.6'0.6, <6'
>.6' :'0 7'<768'4<' / / .<6.'64?.1E54% .6' / 4<7 ,<6'
.<'?,4>1.' .7'0'55.6' 6,<7';,<6 >>1'05.6I' / ' 6' >'46'5''
?54?'17'>.6' E,176' '17 55.1 .'< .67?'6'>'<6'4<'0,<'>'5'
>.'6.1- ;.8' ,471.' =4 .55.' .67' ?.4'<, / 01.46.I' .55.' ''
>,<.'0.6, <'. / / > / .'7. / ?6'> '4J / .<7'7 , ' .7'>.'1.M
?'1'7 ,<6% 4<' '471.';`7>' 5' < V' '' ?1.6=4.'?, <7'>.'
;'<,<6'>.';' / ?'J<.8' .7'7,47.6'5.6' J'1'>.6' <'7 ,<'5;6'
.<' >>6 1.<7% ' -,46' > .6' E,1;.6'>.'1.?,466;1'=4;5'
=4.6 4<6'>.' ;.6'-, .4@8' 5' .67' '466 ' >.6' ?'17 .6' >;6'
>>?'17. / .<76'E1,<7 .1.6'?,41'5.6=4.55.6' -,46';1, 1.O'
47 5.8'<>..66' 1.' / > / .' >.5.6' ';;4. 55 1% #;'<, / >.'
J'1>.6'<'7 / '5.68';.'<, ';:.1''4@'' / 6'>.'5''5 0.15>8'
<,46'1'??.55.'=4.'Q46=4 '' ;.' / , / .<78' .<'-,46'1;71''
J'<7' >7'7'>.' -,6' / ,V.<6'>.>>E.46.8' .<'-,46' / ;77'<5'
6,<6'5.6'V.4@'5''6 74'7 ,<'> <<.'?'17 .'>.' '11'>;8';7'
5.6' / ,7 1.'=4 '>, -.<7'-,46'71'<=4 55 6.1'641'5.6'E1,<'
7 >1.68'<,46'<.'-,46''-,<6'?'15>'=4.';, / <;' ,<' .75'
E' 7''4'7. / ?6'>4'>.6?,7 6 / .8'6' -,46'<'- .0' ; '?,41'
>>E.<6.'=4.'>.6'E,17.1.66.6'.7'>.6'71,4?.6'>.'5 J<.%
' 3 4.'6.1' ;.'=4'<>8' ?1.<'<7' 5.' 5'<J'J.'= / ';,<'
- .<7' ''-,71.'?,6 7 ,<8' '' ;.55.'>.'5'' H1'<;.8' '' 5''>'
I< 7>.7'4';,41'J.'>.6.6' :'0 7'<76I'<,46'-,46'?'1'
5.1,<6';, / / .' '4' 6 >;5.' >.' 5'' 5 0.17>I' =4'<>' <,<G
-,46'>1,<6'=4 .<' -,46'?'15'<7'>4';,41'J.8'>4' ?''
71 ,7 6 / .'>.6'<1'1>.; ' <<E <<'5 6' << 6'6, / / .6'>' 6

: .41.<6.' / ?,66 0 5 7V' > .@'J>1.18'=' .'5.6' : , / <.6%
=4.'<,46' ' - ,<6' - 46' E,1 / .<7' '466' >.6Q,15.1.66.6'?,41'
; .7 . / ? 1.I' =4.' 5.6' : , / <.6' E .16' .7' J5,1 .4@' > >71.'
5 01.6' 6.1,<7' <.01'<5'05.6' >.-'<7' 1.<<. / ' ; , / / .'
5.6' / ,<7'J<.6' >4' : '45' >.6=4.55.6' 56' >.6; .<>1' .<7'
?,41'5.' ; , / 0'771.S' '<6'5.' 7. / ?6' , :' 56' >7' .<7' .6'
;5' - .68' =4.'5.41'.E77' / ?,17.'>.' ; : '<J.1'>.' / ' 71.6'Z
' 68' >. - .<46'5 01.6' ?'1'1,468' <.' ;1' J<.0' ?'6'=4 56'
6.' 5' 66.<5' '??,17.1' >.6' E.16' ?'1' >.6' >71' J.16I' 56'
- - .<7' .<' E1.1.6' ' - .;' 5.6' 71,4?.6' >.' 5 J<.8' .7' ; .77.'
/ '66.'>.'E,1;.6' >.6,1 / ' 6' <> - 6 05.6' .7'7,4Q,416'1.'
<' 66'<7.6' . / ?>; : .1' 0 .<' =7 .' 5.6' / 5 ; .6' >.6' >.6'
?,7.6' - , 6 <68' ,4' 5.6' >; : .6' 67 ?.<> >6' >.' =4.5=4.6'
1.0.55.6' - .<<.<7' 6,4 55.1' ?'1' 5.41'?1.6.<; .'5.' ;457.'
6' <7' >.' ' 5 0.17>% #.6' 01' - .6' J'1>.6' <'7 ,<'5.6' >.'
/ '<>.<7' >.6' '1 / .68' .55.6' .<' / '<=4.<7I'5.41' ; ,41' '
6.46.' <>4671 .' .<' ' E' 7' / > / .' >.6' <6714 / .<76' >,'
5.41'71' - ' 58' / ' 6' .55.6' ,47' >1, 7' > .<' '77.<>1.>.' - ,46'
>.' ?546' 6Q 1.6% '16.<'5' >.'K.6'<?,<'1.<E.1 / ' 7' .<M
- 1,<' U8 'E46 568' <,46' < .<' ' - ,<6' E' 7%>>5 -1.1=4.'
) '?,41'5.6' > 671 ;76'E1,<7 >1.68' ?'1; .'=4.'<,46' ' - ,<6'
?.<6.' =4.' - ,46' V' ?,41- , 1 .0' ?1, / ?7. / . 7' ?'1' 4<.'
<;641.' J><>1'5.' 8' =4.' >.6' > 6?,6 7 ,<6' ?'17 .55.6'
?.4- .<7' =4.5=4.E, 6; ,<71'1 .1% 8
34.' - ,46' > 1,776 <,46I' .66 .4168' >.' .6?1 7' ?4M
05 ;' =4' '< / .'5.6' >>?'15. / .<76' =4.'<,46' ' - ,<6' ?'1'
; ,41=6Z' =4.55.6' .@?1.66 ,<6' ?,411,<7' - ,46' 71'<6 <.7'
71.' 5.6' 6.<7 / .<76' >.' 1.6?.;7' .7' >.' ; ,<7 '<; .' >,<7'
66.: 05..'<'7 ,<'5.'.67' ,0Q.78' .7' >,<7' <,46' ' - ,<6'
1.?4' 641<,71.'1,47.' : ,<,1'05.'>>? 7Z' ' ; ,<E '<; .'
.<' .55.' .67' .<7 01.8' '06,5=.8' .7' <,46' ,6,<6' > 1.' 4<'
- .16.55.' N .55.'<.' - ,46' / '<=4.1' =<.'=4'<>' - ,46; .6'
6;1.0' > .<' ' - , 1' .<' - ,46 / . / .6I' .7' .<; ,1.' 6' ; .' / 'Q'
: .41'?,4- ' 7' - ,46' '11 - .18' ,? < ,<' ?405 =4.' - ,46'
E,1; .1' 7' ? .47 >71.' >.' 1; / ,<7.1' ' 5' : '=7.41' , :' .55.'
- ,46' ' ?5' ; >6% '1; : .0' ' - .;' E.1< .7>8' ' - .;' ; ,41'J.'
'4'0 .<' =4.' - ,46' '?.1; .-1.08' .7' >.>' J<.0: '1> / .<7'
5.6' ;5' / .416' >.6' : ,< / .6' =4'6 'J-7.<7' ' 5,41'>.' - ,46%
'1; : ;08' 5' H1'<; .' .<7 .1.' - ,46' 6 / -1'8G#.'< .65' ?'6'
=4 5' < .@ 67.' '466' >'46' 5.6' >>?'17. / .<76' =4. =4.61'%
4<6' >.%; .6' : , / / .6' 7,41 / .<7V6' >.' .6?1 7' > <<, - ' '
7 ,<8' >.' ; .6' : , / 7<.6' =4 ,<' ;1, 1' 7' > ,1.6' >4' 0.6, <'
>.' - , 1' '11 - .1' ' '1; : .' I' >V' ; .6' : , / <.6' '7 @=4.56'
,<' 6.1' 7' 7. 7>' >.' ;1, 1.' >.' 5' / '5- . 55'<; .8' 6% ,<'
< ' / ' 7' / ;4@' 5.6' <6??,6.1' >'<6' .11.418' 5.6' 1.J'1'
>.1; , / / .' >'<6' 44.6,17.>.' / '5' 6.'?,5 7 =4.8' 6. / '
'05.' '4' / '5' 6.' ? :V6 =4.' ,4' / ,1'58' =4'E' 7' =4 ,<'
<' .67' 0 .<W=4 ' 5' ?5' ; .' , :' ,<' < .67' ?'68' =4 ,<' <.'
1,4- .' >,4; .' =4.' 5' Q,4 66'<; .' =4 ,<' ' ?.1>4.' ,4'
=4 ,<' <.' ?.45' '77. <>1.% d %
#.6' : , / / .6' .66' .<7' >.' 1'66. / 05.1' '?7,41' > .4@'
; .77.' #5'66.'>.' ; 7,V.<6' > ,<7'5.' ?.4' > <6714 ;7 ,<' .67'
4<' >.6' ;1 / .6' >.' '<; .<'1.J / .8' .7'5' 66.' ?546' > ' ; ; .6'
' 5' 6V>4;7 , / 4' ' .11.41I' / ' 6' 5.4 I' <, / : 1.' .67' '
?.7 78' 5.41' ?4 66'<; .'<455.8' 5.416' 64; ; 6' / ?,66 05.6%
<.' / '66.' / ?,6'<7.'>.'0,<6' ; 7,V.<6' >>E.<>'5' #,<6M
7 747 ,<' >.' 5.416' '77'=4.68' .5' 7.55.' .67' .67 / .' .7'5'
; ,<7 '<; .' >'<6' 66. / 05..' <'7 ,<'5.8' =4.' ; .4@' =4'
- ,4>1' .<7' >J'1.1'5.' ?.4?5.'<.'5.' ?,<11' .<7' =4.'5,16'
=4 .55.'< '41' ' ?'6' ?1,<,<; .8' .7' =4.' 6.6' >> [76' E.'
1' .<7' ; . 6.1' 5' E54;74'7 ,<' >.' ,? < ,<8' 6 55' .<' .@ '
7' 7% #1,V.0' >,<.' =4.' ; .' 6.1' 6'<6' >'<J.1' =4.' ; 1;4 '
5.1,<7' >'<6' 5.6' >V?'17. / .<76' 5.6' ,? < ,<6' 5.6' ?546'
>'<J.7.46.6I' .55.6' <.' 1,4- .<7' =4.'>.6' ?'17 6'<6' ?.4'
<, [1.4@' .7' ?.4' 1.>,47'05;6% #' .67' '8' . .67' >'<6' 5.6'
>#?'17. / .<76' =4 ,<' - ,57' >.' =4.56' .5> / .<76' 6.' ; , / ?,6.'
5' -V1 7'05.' ,? < ,<' ?40 : =4.% # .67' >' = ,K1. ; ,<'
'77' ; , / 0 .<' .55.' > E5.1.' >.' ; .6' ;5' / .416' >,<7' - ,46'
' - .0' V7V' 7'47' >.'E, 6.7' 6' <47 5. / .<7' .<- 1,<<V6' ?'1'
5.6' .<<. / 6' >.'5' ; ,6.' ?405 =4.% ,46' ?'1; ,41 ,<6'
5.6' >V?'17. / .<76I' 5.6' J'1>.6'<'7 ,<'4@8' 5.6' / 4< ; '
?'5 7V6' ; ; ,41' ; <7' 641' 4,71.' ?'66'J.% .'5 71.' >.' - ,6'
.<- ,V>65.6' '??.5' 7% '8' 6'<6' 64JJ.67 ,<8' 6'<6' ; , ? '
71' <7.% '<6' .<71'7<. / .<78' 56' 5,<6' ,EE1' . ,7' ?,41

- ,46' 5.6' '6641'<; .6' > 4<.' ; ,<E '<; . 06,54.8' > 4<.'
6, ' / 66 ,<' .<7 :1.' ' 5' 5, % .41' 6.775.' .1' <7.877,46'
>. - ,<6' - ,46'5.' > 1.8' .67' <..'>4' >>6 1' =4.'<,46'6' ,<68'
.7' =4, ' <,46' ' - ,?6' > 7' =4' - ,46' '< / .8' >.' 5' 66.1'
?1, / ?7. / .?7' 5' ?5' ; .' ' - ,6'64; ; .66.416I' 56' ;1' J .?7'
=4.' - ,46' < '0'<>,<< .0' 71,?' 7>7' - ,71.' ,4-1'J.%
]6 . / ?1.66' .<7' >.'Q41.1' E >V 7.' ' 5' 5, 8' <,<'?'6'
/ 47 5..' .7' 7.55.' =4.' 5' - ,4>1' .<7' #.4@' =4'<.'?1,?, '
6.<7' >.' 5' ; : '<J.1' =4.' ?,41'5' >V714 1.8' / ' 6' 7.55.'
=4.' - ,46' ' - ;0' ' 7.I' ?'1; .' =4.'1. -V<. / .<7' /E <.'
' .'1V , J<. / .<7' >41, '?1,4 - >6' '0,<7>8' 6'6'J.66.8'
.<' >. / ,<71'<7' =4 .55.' >7' 7' ' '01' >.6' .11.416' > 4<'
/ ,<'1=4.8' .7' =4 .55.'V' 6.1' 7' / 5 / .>.' 6.6' ;1 / .68'
6 ' .<' ; , / / .77' 7%
*' *' ' ('$(.'/ * '+0 *'0 ' - (' .+* i+$'
48*8, .(' - ' '(*,$ (*,' - ((*,' -$9*$,8/ (,'3 *0+$*3 '
5 ('$ +'3 65$#8,(' - (' +' $)(.$(' +' #+$,' (.'9 $.('(,' +'
0 - ,.(/ '$ ('3 (*3((*,' - (' +' *',$, ,$ *' '#+$,'
('(,4 $.'(,' (', . (*,' - (' * ' (**($'/ ' *' +366!'
0((*,' '('4(*,'+' ' .(.' * $.(' ,.+*5 $ $,8' (,' * ,.('
) *6(.' < *' +44 + -$,?
.'>. / '<>.1' 7' / '5<7.4'<75' ?.1 / 66 ,<' >.?'75.1'>.'
/ , N =4.5=4.6' E.4 55.6' / ,<7' <,<,1V' >.' ; '5, / < .6%%%
' 'N .' >; / '<>.'1 1,?1.66 #<' >4' 1'??,17'
=4 ' - .<7' > >71.' E' 7' ?'1' 8' .J<'4578' .7' =4.' 6. '
0 >.' ?'66.' ' ,1>1.' >,'Q,41%
% H06V 4 .' - ,46?1 .8' % 5.' 1'??,17.418' >.'
- ,45, 1' 0 .<' <,46' >\-.' 6' ?'1 / ' 5.6' ; 7'>.55.6' =4 ' <V'
6,<7' ?, <7' .<' >7' 7' >.'>>E.<6.' - ,46; , / ?1.<.7' . .55.'>.'
K.6'<; ,<%
; 5 '8' >.' ' <7 .'< > 4J.5VN' ,<8' ,<M
6 .41I' .55.' .67' .<' 0,<' >7' 7%
66.1<05..' ,1>,<<.' / ?1.6 ,<' >77' 1'???17>.'
% .J<'4578' .7' ?'66.>'1,1> % .>4'Q,41% G
' ' ' ' ' ' ' ?.1 '
' ' ' '

% ! ,4? N .' 1,Q' ;67 5' <- ,5'05.Z' 7.55.' .67' 5'
=4.67 ,<' = ' - ,46' .676,4 / 6.8' =4, =4.' ,46' 'V.0'
>>Q' Q4J>.% <- ,5'0 5 7>' ' >7>' >. ;1V7VE.' ; , / / .' 4<.'
5, ' E,<>' / . 7'5.' >.' 7'5% <' ' ; : .1; :> ' 1>; '17.1'
?'1' 4<.'> 67 <;7 ,<' <6 > .7 6.% <' ' > 7' =4.'5.6' >>?47>6'
' 66. / 05..'<'7 ,<'5.'>7' .<7'466' <- ,5'05.6' .7' =4.'
; .?.<>'<7' 56' ?,4- ' .<7' >71.'Q4J>6I' / ' 6' ?.16,<<.'<.'
6 .67 .<; ,1.' ' - 6>' >.'> 1.' =4.' % ,0.6? .11.'W ' / %,'G
?'1' .@.< ? .8' 6,V,<6' >.6' ?.16,<<.66' .1>.6%& <1 7%P'
,46' ' - .0' > - 6.' .<' >.4@' 01'<; : .6' 5.' J ,4 - .14.5<.<7I'
6' - , 18' 5' - ,5,<7>' <'7 ,<'5.' .7' 5.' ?,4- , 1' =4' 5' R' 7'
.@>.47.1% ,46' <.' - ,45.0' ?'6; ,4?. '4<.'>.' ; .6' 01' , '
; : .6% ,46' 6' - .0' =4.'5' '1,V'47>' .67' 4<.'?1,?1 >5>' <' '
7 ,<'5.8' .7' - ,46' <.'6,4E 1 1.0' ?'6' =4 ,<' V' ?,17.' '4 '
;4<.' '77. <7.% #.4@' =4 '< ,<7' ?4' >V714 1.' - ,71.' ,4 '
1'J.' ' E,1; .' ,4- .17.' .66' .<7' / ' <7.<'<7' >.' 6' >>4 1.'
5.' ?.4?5.'?'1' >.6' ?1.7.<7 ,<6' ' - .4J5.68' 'E <>.'5.E' 1.'
?>1 1' >'<6' 5.6' ; ,<- 456 ,<6' >.' '<'1; : .% ,41' ; .5' 56'
E,<7' / ,4- , 1' ?'1' >.6' 1.66,176' 6. ;1.76' >.66, ; >5>6' =4 '
> '0,1>' ,<76 J<'5.'5.41'0.5.'?,41'5' ; '46.'>.'5' 5 0.17>8'
.7' 5' ;540=;1'7 .' .67' >. - .<4.' 5' / ' ; : <.' <E.1<'5.' ?'1'
5'=4.55.' ,<'7.<7.'>.'Q.7.1' 5' <'7 ,<' E1'<; ' 6.' >'<6' 5.'
71,405.' .7' 5' > 6; ,1>.% #.6' : , / / .6'6,<7' 0 .<' <6714 76'
>'<6' '17' >.6V>4 1.8% / ' 6' ; .?.<>'<7' ,<' ; ,<<'77' 5.416'
/ '<; .4-1.6% :' . 7' 1'66; / 05>%>'<64<.' - '67.6'55.7'
5' ,<' ?1,<,<; .' >.6' ,? < ,<6' ?546' , 5' / , <6' .@71' - ' '
J'<7.6% ' 1,V'47>' <.' ?.47' ? <6' 71.' ; ,<E >.' :' ,4 6'
' %%% ' ' ?.1>4' 5' ; ,<5 '<; .%%% '<,46' E'47' 4<.1> '
J.<; ; %%% .6' - , @' 6 >5. - .<7N ,<8' ?'6' >.'1>J.<.' .I' 4<'
; ,<6. % '471.6' , @I' '6' >.' ; ,<6. 5I' ?, <7' >.' 1>'
J.<; .I' 4<.' ; ,<- .<7' ,<' <'7 ,<'5.I' 4 .' ; , / / 66 ,<'
<, / / .' ?'1 .6' '>>?'17. / .<76I' ?546' >.' / ,<'1; : .%
46' 7 4<.' - <J7' <.' >.' / . / 01.6' > 671 04>6' '>1, '
7. / .<7' - ,46' ?1, / J4.<7' >.6' '??5'4> 66. / .<768' I
.?< 6' 5.C ' - , 5' 5.6' > 6; ,416' =4 ,<' 7 .<7% .'?4 6'
- , 6' ; 7.1' 4<' 71' 7' E1'??'<78' '4=4.5' Q ' ' > >' ?1>6 6<7%
%.')' >.' ; .' / , ' >'<6' <<' >.' ; .6' . 406' =W 8' 5,16=4

*F,+$,4+, *# (,$ -/+ - ** -(" 4.($.(" '$9*+ -("
-(4+,.$, ','($ *#+$'+$, (3, .(- *4. 3, - -.(''(
$ $% ''($*,$((*+,$ *+ (/ (, * 0 " 3(*' .+$, (
5 $c $0 " 6(-(0$$$(.$(U 4+'7 - +0 $. (*. 8- -("
3 $''+$.(" 4 .(3(0 $. + --3+.+,$ * - . $/ (,
-(* +0 $. 4+" +*3 - (*$ *+$5 (+)+ +
(3, .(- *(+ ''$+) $*+) (-(+*-(/ * + -(!
+*-- $ 4.(''$44 -(+-.(''((, (*0 $-+*" 3" EP
--4+.,(#$(*,'. * + + ''$ +33+4+.-5 (5 (" .*+!
',('/ # $3 +$.('/ 4+.+46 (, $.('7 *(4(.' **(
:- D5 $ $, ($$('+$" 44 .5 $/ - *(3(.,+$(
.(* * $-(--3 . \ - ** $,.(+3+--$$$$5 (/ + -$- (:
4 8#(-+*" 3(,,- 3$.3 *',+*3(/ ((4(* + 4+.+!
0+*, +0+$, (,3 % +))- +8*+/ 4 .4.(4+.(. +
3 *,.(!.-0 ,$4* * + ,.(6 (5 $ #($, + '$ *
3(.,+$*). $, + 4. * *3- + 2 A+3)$* -+*" (- (
'(*'/ * -$'(.+ - *, +''( ) -(+ 4.- *(+8(
(*,6 '$+' ($ 4.('' * * + D(*$-.+($*$4 !
-(*3(- (* #+$.(+ -$',.$) ,$ * , " (" ( ).(" -(
3(,,(''( ) -(
+) 'N :6 .**+(" (-. , - -* *3(.
' * 4$*$ *, $ *(- $, 4+" 4 . 3(+ -,.(-(* *3-/
3 4 (()*4+) ($ $/< *(*,(* 5 (5 ("+44 + -$'!
c B .<&6 -+6"5.6,.$) *('V *$*',+*,'4 4+''(-+*'

! ,4< 8%I .>, 6 1.71';.1 66. / 05>.Q<6=4 "
=4.5?, <E,<?,466.8 '4>';.>'<6..6;1 / <.56?'< +$
?:5.76% < V > 7%=<. ;.17' <6 >. ?47>6 ,47 >. 0, /1 6
d 1' 6,<6 ?,41 >. / '<>.1 4< J,4-.1<. / .<7 ,: 5 V "
4<.Q567. ; - 5.% . V,4>1' 6 0 .<=4. ><V >, Q4 `7
'466 >.0,<<.6 1' 6,<6 ?,41%<,46>.7.1 / <.1 ''. 6.,
0'1>.1 :,<7.46. / . 7 <,6 ?1, / .66.68 %.7 " <,46 >>G
J'J.1>4'66.1 / .<7 =4.Q ,46 '-,<6 E' 7 %> ';:.-.1 5"
#,<67 7'7 ,: .7 >. 5" / ' <7.< 1\5 %.67 / ' <7.<'<7 1.
.,<<48 > ,< 8 =: E% <- ,5'0 5 7>.67 4<'77.<7'7 " EE
5 0.17>?40B=4. I ,4 I 6 Q ,?< ,: ?405 =4.1.6 >.
>'<6 % K1 66,7.7 6.6 '>:>1.<76% <>;1 7=4.7,46 5.6
-,.4@69 1>4< 66.<7 ?,41 =4.5.1, 6, 7>>;:48 .7=4.
. .67 1,? 77 0:>.6>.?'17. / . 56GI .7 ;.5" .67 1>?.5.?41
>.6 ?.16,<<.6 =4 <.6'-.<7 ?'6 / > / .=<.5.6 >>?'1
7. / .<766,<7 '<%<, / .>.) % B>7,<6 <,46 > ,11>5.1
5.6 ?1,J1>6>. .11.41% '<6 ;.77. .'? 7'5.8 ;, < / .
>'<6 5.6) C'471.6 >>?'17. / .<76%5.6 / . 55.:16 ' 7,V.7 6
6,55 ; 7.<7 '>,?7 ,<> '?'17 '6'J.J= -,46.67 ?1>%Y
6.<7>?'1 -,6#,? 7>6% .'1'??,17 =4 56 -,46 0 7 E' 7
.67 0,< .< ?1 <; ?.8 / ' 6 5.41 ?1,Q.7 / '?'14 <
;, / ?5.78 .7 Q'' >. / '<>.1' =4 5 V 6, 5 E' 7 4<'17 ;5>
'>> 7 ,<<.5% .-, >S 8 j 8
$ 66. / 05>. <'7 ,<'5.>>;5'1.8 ;, / / . ?1 <; ?.
E,<>' / .<7'5 >.5" #,<67 747 ,<\ =4.%5" ?.16,<<. >4
1, .67 <- ,5'05. .76'.1>.% $& <'??5'4> 7% N
546 .416 / . / 01.6 >. / '<>.?71 1'?%1.66 ,:> > 6 %
,,416 >. % ! ,4? 5% d G
% ! ,4?48N ,< ,?< ,<E.'7 <'?1,- 6>..7 5 / .
6.1' 7 / ?,66 05.>.5"71'<';1 1. 7 E?5. / >:78% d %
/ H(3 .5 8 >->=4; >.K5, 6N .<7.<>6
> 1.'47,41>. / , =4 5 <.%;,<- .<7 ?'6 4<?1>71.
>;'71' 5.1 4<.?'1. 57.=4.67 ,<% #.5"<9>, 7 I '6 / '1
1>7.1I '4 5 .4 >. ;, / ?'1.1 / ,? ,?< ,< ' .>< ,<
>7'78 Q. >. / '<>. =4. ,< 1.E47. / .6 1 / 6,<6% ?
1.67.8 =4'<>1 66. / 05>.'41" ?1,<,<;>8 Q. / .6,<%%8
/ .571' 2 6" >>. 6 ,4% =\ 1)* *
#.5" .'7 0 .< :.41.4@8P K. ?1, .7 =4 -,46.67 ?1>
6.<7.?'1 5. ;, / 7> / . ?'1' 7 ! ?'1 <7>1>7 <'M
7 ,<'5% .67 < ?,66 05.>.6>?'1.1 5" E457.>4 1, >.6
. 1;,<67'<;.6 =4 V 6,<7'77';:>.6IA >4 E'4@?'66.?,17
>,<7 5 6 .67 / 4< 8 >4 / . / , 1. =4 5 -,46" f' 66.8 .7
>.6 ?1,Q.76 >- >. / / .<7 :,67 5.6 >. % K,4 55>%% ! < ?
> 7 =4 5 <. ?,4-' 7 > 1. / 6 .<Q4J.7<.<78 =4.8
=4'<>0 .< / > / .;.5"6.1' 7?,66 05.8 55E'4>1'77'<.8
5, ?1..@ 67'<7.'4 ;1 / .=47 ';, / / 68 -.0 -,46
>,<.,4:5 > =4.5.6,547 ?405 ;.67 5" 64?1. / .5, Z .5I%
5.6'547 ?405 ;1.;5' / .=4.5.6'77.<7'76 ;.<71. 5"
0.17>?405 =4.6, .<7 -.<J>6I < <,46" 1.?1>6.<7>

7,46 5.6 >'<J.16 =4 5 V '41' 7 " / .771.6'<6 ;.66. 4
1, .< Q4J. / .<7 641 5" 6 / ?5. >><,<; '7 ,< ><<
:, / / .?.47 >71.;'5, / < '7.41% '6 > '?1.6-,65,
5 E'4>1' 5 =?.?1>'5'05.7<.<7 5.Q41. .>7 >>;5'1.=4 5
V " 5 .4 " ';;46'7 ,<% < " 0.'4;,4? ?'15> >.5" ,>
..66 7> >. / ' <7.< 1 5" >. ?.<>'<;.>.6 ?,4-, 16 Q ,=
?,411' 7 6,47.< 1 =4.5.cP,4-, 1 .@.;47 E .67 >>?.<%
G>'<7 >4 ?,4-, 1 5.J 65'7 E8 ;'1 5 <. ?.47 'J 1=4.
> '?1.6 54 % =\ 1 Q, 'NQ $,46< V >7..
?'6>4 7,478 ,<6 .41%P
< <.;.66. >.1>?.7.1= . 5" / 'Q.65> >4 71><..5
'- 5 .86 5.1, < .67 ?'6 <- ,5'05.I . .67 ., / / .6
,< > 6' 7 =4 4< :, / / . .67 '- 5 8 ?'1;.=4.5"5,Q
5.?4 7=4'<> 5 .67 ;,4?'05.% .0,<:.41>4?.,?5.
.%@QJ.%0 .< ?547>7 =4. 5" 71'?=4 5 7> ?405 =4. 6' 5
<- ,5'05.% < "> 7'-'<7 / , 8 6 5 .67 4<6.4 ';, / / .
>'<6 5.1,V'4 / . =4 <. 6, 5 ?'6 6,4 / 6 2 5" 5, 8 ;.5
:, / / .67 4< >.6?,7;I .<.6'56 1 . =4.;. >.6?,7.
<.?4 66. .<71.?1.<>1.% < 7 "?, <7 .<;,1.1.?,<>4
% ,.4@ =4 -%,46 ,47 > 7 =4, <- ,5'0 5 7.>4 1, .@
J.' 7 1'06,Q47 ,:>.6.6 ;, / ?5 ;.6I .1, ?.47 5 <%
-,=4.1 5.0><>7 ;. > 4<. 5, =4 5 " -,454 '<.'<7 1
> 4<. ;,<67 747 ,<8 >,<7 5 6 .67 E,1 / .55. / .<7 >.;5'
.<<.7< Z ,46'-,<6>.Q >7. .@?,6.6"0 .<>.6>' /
.16I '?1.<,46 V J'1>.Q 5 ?.47 V'-, 1 4<. ;:'<;.>&
8 / '5:.4 * 6 ,,<71. 1>-,547 ,<4' 1.6 <" 6.>.;,4
1'J.<7 ?<6I '4 ;Q<7=< 1. 56 1.>,405.<7 > '1>.41% &
;,<;546 ;.= . ';7 - 7>6, 5 1.<>4.'4@;,1?6 .5.;
7,1' @8 ?,41;:, 6 1 E.6>.?4 6I .7 =4 5 6, 5 <E /<4
4<. ;,<-.<7 ,< <'74<1'5.=4 Q4J.1" ,4 6 " %%)
?'1 / '5:.41 5.?1,Q.7%>.6 ;, / 7;G .67 '>0?7>8 ?,47
>71. ;,<6.=4.<768 -,46>.-.1? : 1 / J'1>.<'7 ,<'5.
>; '1.:<.6 I 7 7,46 ;.4@ =4 ?47 ;,<;,414 " 'E1.6
7'7 ,< >4 Qh, % & .6 71 04<.6 '??5'4>166.<7%P
V $ % + 'A -'<7> .<71.1>'<6 5" > 6;466 ,<8 Q ,0
6'E-.1' &c4.=4.55%.=4,'6, 5 5" > EE.1.<;.>.6 ,?<,<68
1 .<< .67 ?5<6 >. 54;> =4. <;:'Q.41 =4. ,< / .7>
?'17 .7 > '47V;% .6 ; 1;,:67':.. 6.<7 ?.1 55.46.68 ;5
>.6 .6?1 76 >1, 76 ?.4-.45 E1'<;:. / .<7. / 01'66.1>.6
?'17 6 Q ,?514 1.6% < >.-1' 7>,<;'>;'17.1>.-'54.6
T?.16,EE4'5 7.6 .7 >.6 <;45?'7 ,:6 1 Q41 .46.6% .6?
70 6 <,46 <,46 <> / .68 6 <,46 -,45,46 =4. "<'7 ,<
NI<,46 1.6?..7.% ''466 4<. ,?< ,< E,1< >.641 5
=4.67 ,<% < ?,411'' 0 .< / ';;46.1% / .8 >.<,4;.18
/ '6 Q '' ?,41% / , 5.7> / , J<'J. >. / " ;,<6? .<;.8
; .65 66E. % 5 <.E'47 ?'6 <,46>66 / 45.1=4.=4.5=4"
?'17 =4. <,46'>,?7 ,<6 6, 5 =4. 5.1< 6, 5 1. / 76
6<1%7.'71><.8 6, 5 =4 5 .<6, 5>>.:48 ,466.1.0 J'
5. / .<7 ';;46>6%%%.<71.>'<6 " =4.67 ,<8 .7Q .V' / <.
5";,<>4 7.>4 1, % .1, '6 .67 .<E458 .5 .< 74V'<7 5"
%5' 66> E < 4 ' QE.67. ;.<71. 5" #,<67 747 ,<8 .6 .
7,V.<6 ' 1, ' .:78 ?'1;.=4 5685. ;1,V' ;<7 5.;:.E>
" 1>-,547 < =4 '-' 5Q41.>. / ' <7.< 1I 5' / ' /
=4." 6,<6.1 / .<E.8 .7 0 .<7>7 5 " .7.1.J'1>;, / / "
4< ;:.E >; E';7 .4@8% .6 5 '<.6 6.%6, P7 ';,4 / 45W*
641 6" 7>7.8 .7 5.?. ?5.%Q467; / .<7 , / 01'J.4@5,16G
=4 5 ;1' <7 ?,41 6" :0. 7.%8 54 1.E46. 6" ,,<5 '<;%
."5 .?.478 " / .6 V.4@8Q467 5 .1 5.V? > '-, 1<'<
= > '8 >6 .<J'J. <.<76%% .64 6 ..?.<>'<7 ,05 J>>.
/ .1'??.5.1 ;.6 6.>:.6 >E. %6;'<>'5.0 >.6 E,;7.<@
.:7,41' .:7 ?0 1 5.'6.>4 1. 8 8.7 ?,41 %7>;:.1 >.5?
?.164 '>.1 =:> 6" 'EE1.7. .7' 7 ;, / ?1, / 6. >'<60
;'? 7'5.% % I % R
$ #, / 0 .< .61 / '5:? 1.:6. 4<.?'1. 5 .6 74'7 ,<5.7
=4 >.<,46 ?,411'P7 c 1.N .< '41' 6 ?'6 >7> 5" >4?"
7 . 5" 6,4?5.66. >. ;.6 >.:.6 ,,417 6 / 6Z%5 6 54'1>?S
7' .<7 6'<6 ;.66.=4. '1 6 .7' 7 4<. -Q55. ;14.55.I =W
.6 >>?'17. / .<76 '<;,:71' 1. >7' .<7 0?<6 .5'1,';'7
5. 1 1, I =4 5 < 'V' 7 =4 '6. >. .5'1.1?,41 E' 1.>;5"
7.1 5'-,5,<7>J><.1'5. .7 5"1'5 .1'47,41>.54 % ,67
;.5" .67 ?,66 05.8 .7 >'<6 ;. 6V67> / .Q. ;,<E, 6;, [
1'.<7 Q .< ';;.?7' 57 -,6 >.;1.768 5 ?,4-' 7 6.?1, I
/ .771.6..1>7. / .<7 >8V / '<=4.1% ! ,4 6 " < 'G'>
?'6 7,1 / > 5. ?1,Q.7 >%. / ?5,V.15. E,1 ;,<71. -, [

3 *',$, ,$ *'/ (''(*"5 $,'(','(23 '+) (7 ('-$.+$, ,'
$.6(.(5 $'(', *.+ *',.('D'$'+(' ('-(''($*, ('
8(.' +'# .3('+'B)+44 $-(*'-$+,$#(',(/ $" '
+'4# ,(',('3 *,.(,. ' *',$, ,$ *'3,'$' (6'+' - **(
4 $$.' * ,$# 5 %$' +',. .+$,'$*(2(3 +) ('A(' '(*" +'
#+$) (''('-('('(" .+$' *'' +$"$' ('.')$(*'4 ''$) ('5-%$'
+$,'3 '3('5$$$'+' -,-'.(4-,-' ,+*,' -(' # $" -+*" ('('($*
$*(('-('3(,,(''( ) (%($ *' '+'#+$,'3. $#('5 (("
,.) (''(.+$(*,' -,(.*(''5 (, ,(' *'+ , .$,-' $
(,+$,'(* (0-(' ''( ) -(- ('+'--'3 *,@) 3.!'+' +'
4. 4+9+,$ *'-('3(,,((..(.'! M
('. $(,+*,'(*0$. **-'-(, *" ("+9(*," -(**3$(*
#(9$ (/'<$ *" +0 *" -,'# .3-" 2' .(*-.('-(" - 3.(,"
'-$'4 '$,$ *'-(+!'# .3('4)$5 (/ $$"+. 6"
#+$,' *('# ('- + ,.("+3,("('('(*,$(((*,') *'/ ('!'
'(*,$(((*,' *-3(''+$. '/ ,,,+$" (4(*-+*,' 6 .'-('
,.('3 4(,(*3(' '+'3.-'5 (' *'4 $.' $$$' (.+$'
+$ '$'(,(.*(((*,'3 *,(',(/'(,'$''+'3. '5 ('5 *'!'
,$,*,$ *'-,+$,'$*(2(3 ,+) ('< *'+44 (-$,'-+)" +' +.
$'1 7.'>.' 5" ?'17 .'J'4;:.%P' <' E' 6': '7,40,416' '06 '
';7 ,<'>.6' / ,V.<6'=4 5'?, -' 7' . / ?5,V.1' " '??4'
>.';.' / '< E.67.8' .7' .<' < V -,V'< = 4<.'6 / ?5. ?1,
7.67'7 ,<8' 0.' > 6'=4.' 0.'4;,4?%' > '<71.6' .<' ,<7' E' 7 I8'
#, / / .'54 8' =4.'7 , 6;.<76' / .< 0 '>.' ;.57.' 6 . / '
05#.', :7' ?,17.'1 4; - 6 / .'046=< " E' 1.''466'>.6' ?1,M
7.67'7 ,<6%' 3< " E' 7' 66. / 05..Z' 5.' 6G.67h> 7 1'#.6'
:, / / .6' 6,<7' .J'1.6' ?'1' 5 ,1J ; 58.785.6 PP1.04J#6 I'
5 .'-? .:7'>'<6'5" #,<67 5<7 ,<'=4.'5.6I?E - 5.J; ''046 E6'
>,<7' ,<'5.6?1 -.8' <' 60 E7 7,7 56'E' .< ,?7>' <6%6,<'
.<6. / 05.'8 7 6' -.11,<7'= . 5.6'71,405.6' < .<' 6.<7' ?'6'
67;,<6. = .<;.8' .7' 56A54' .<>1,<7'0467 ;.I' 56 ' / .G'
1,7E7' ?'1;'=4 .5'5.'5.6'?1,E.J.1'%' , 5"=4.55.".7. ,7 .%%
;,<>4 7.' 5 .J'1>'>.;.4@'=4E6,<7'466 1.->746 >'<6'
5.' 1,V'4 / .' .E4<.'J1'<>>'> J< 7>%' 7 6' #.' 6,<7 .4@'
=4',<771, / ?.' .'1, 8' 6E' -,46' ' 1.0' -?>6 / > ?.6' ! ,4''
71 04>' "6,<' . .418%' =4.1,46' <> =,.47A5=80<67 ; .g7%
5" 1' 6,<Z' & " / '0,1 7.'>,' '=?'17 .'J'47 .' '??5'4>57'
" ?5<6 .4161.?1 6.6%P 8' G' N %' 8 8
.' 6.E' ' 1 J,4V.4@' 0<6=4 '' 1.@;. 8 7' 0.'> 1' '=4.'
,4 6' " ' .67%;,4?'05.8' ?'17.' / '< E.67.'=<' ;'5' 66>% $
,< ' 7 5' '??4V. '>.'5" E,1;.'>.6' '1<0.6Z' <' ;? ?'6'
.67'4<' / ,<671.%' .'1, ' '55' 7' ,<7< >>V0%.78' 5' . '
6457.'>.6%' ?E.;.6G'=4 5' %'-' 7'>,< >' 8' % K,4 55> >.6
,1>..6' ?,41' '6641.1' 6" E4 7.I' / ' 6' ' < .67' ?'6' ?1,'V.8 '
><' / , <6' '4@' V.<@' >.604J.6 8' =4 5' .>E' ,1>,<:.' >.6'
?1>?'1'7 E6' :,67 5.68' 5' 1.6 .'>''5'%5.771.' .;; 7; ?' G'
% K,4 55.'=4.' ; .6754 '6. 5= E' 7,47>56?96>I % 1> '
6457.> 4<. '471.'5.771.'>.' % a5 <J5 <' = 5.' 8' K,4 55.'
.7' <' ,<7'7,47' ?1. ?'1.%' ?55.'? 17'5.%1, '< .67' / ,<71.'
;, / / .' ?1 <; ?'5' / ,7.?1%%' <16=4 5' .67' ?,66 05.8' =4.' %
>' 1, ' ' 7' 8>7>' 71,5<?>' ;,<;541,<6 <?46' = ' 5' .7' 78
;, / ?5 ;.'Z . / '< E.67.0' > 7 ,<' 0 ?104-.''66.0'5" ;, / '
?5 ; 5>I' 0<' 6' 1,<%?.471,45> 4<.'471.'..< 67 7'7 , 8' '
6'<6' '-, 1' ?,4 ' ;.5" >.6' ?1,0.76' :?67 5.68' 8 5<6 .4;6'
?.16,<<.68' >.6' 0,417 '5 67.6' 6417,47 8' ?405 .<7' =4.>''
<'7 ,<'<.'-8.4E'?: 6> .' ,4 6" 8=4 5' E.'7 7.';:'66>18'
,1>.1'4<' ;,<6. 7 > Z1>J.<;.''-.; %-, '>.5 0.1'7 -.8' .4'
64067 74.1' " 5" 1,V'47>' 4<', ,<6. E' ,1' / > ?'1' .Y)'
>>?'17. / ><76%' #.6' 0? < ?<6 7.<>; 770%6'<6'>,47>' ; ,<71.%
<7.<7 ,<' >''5.:1' '47. 18' %1' / .<.1 '<'1; :E.' .7''
! '5.'>.6?,7 6E E7.I' .55. '7.E5>.:7' E >-E7'05. / .<7'
"5" J4.11.%; - 5.%' #'1P' ?,771' / , 0.'>>>'1.=< ,<' / .'
?, J<'1>.1' 7' ?5 7>7' . >.'6,4EE1 1'=4.' '> / < 671' I' '
7 ,<?'66 7>'<6 .6 / ' <6>.?546 #416%' & >?1.6=4.=<' '
< / 7>'>.1 66. / 05>.' '??5'4> 7' '?5:6 .416' 1.?1 6.6%P
(")4$*$ *' *,'-,-'$ 4.$ (%(%'/ +#$$36-('7 (6'3 *Q!='
3 .(U!0 " 4 .' 3('+'5 (' $*,(*,$ *'(' ,('#+$.('+'
3 *,.(%,(0 ,$ *,' */3('6 (' ' (*('*' (')$(*/
$+$" $ +'' *,' -9-.-'' ! $ " (. $(*#5 3' (!', $/ /(%*
0 $ +*,-(" 36+*9(($$, '/ * + 4+" (4 -(" $*,(*,$ *'/
4 " +*' +$'("5 ((" (.'/'$ "6&0((*'#'4 "5 ('
* "3. 8$ *"5 $ "*('4 .'*$0-$,' -'# $'5 ('4+.' +'
3 *'-5 (* ('-(' (## *(',('8' - (*$.('+'.58+ %
$" 'K'-,-',. 4(/' $*'- '4(4 ('5 $ " $

4($9*+$(*,' (# .$(*2/'$'+'0 '#+$.(' ' ' (!'
) (%(*+,$ *+ ('-(")'(.0+,$ *'/ (,$' (4*('4-.(.$.+(
'(".+$' *" ,.$.+46(.+$(*,'A(' $" ('4+.,$'+*'-(*!
0$ +)$$,-'+)' (/'4+.3('5 '$ (('* -,+$,4+ '$*-$1
0$'$) (' (' . $ 4 ..+$,'(,.(,.+- $,''+*"3(''('-(0+*,
(',.$) *+ 2'4 .' *' --$,'-('4 $3(/ ('4 .
'+''+''$.$+,?(,''+" ((''('+,,+5 ('4+.'-("6 ("
5 $*(''('3. $(*,'9.+*-"5 +$,+*,'5 $$ "' +,,+5 (*'+'
5 (5 ('36 '(' - -$(0-'< *' +44 +,$-$,?7 (24 '('2' '
$*',+*,'P -,.('-+*" (" $(*"- *'-(% .(,'D#(' . 8+ ('
4 ..+$,' ' 36+5 ('$*',+*,' +*5*(.'-('9 0(.*+$/A(
('4.(,(-"4+"3(4(*-+*,'5,,((,,($*0$ +)$$,('4$$$'('
(,,.('+' +).$' *' . $3>$'4$.+,(./5 $'('$*(,,.+$,'P
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* &

ʿ8) ʿ - ʿd+ ʻʻ<,4-.55.ʿ;,<67 747 ,<ʹ>4ʹ ʿ <'ʿ6 'EH.1 / 7ʹ >.ʿ?546ʹ .<ʹ ?546%B'1.67.ʿ ʻʻ E,1 / .1ʹ 9ʿ 7'05 66. / .<7ʹ >.6ʹ / 4< ; ?'5 7 68ʹ .7ʹ2ʹ; ,<6,5 >.1ʹ '> ? ʿ < 671'7 ,<ʹ <7>1 .41.ʿ>.6ʹ - 55.6% ʿ <.ʿ ?'1' 7ʹ ?, <7ʹ =4.ʿ 5.6ʹ ?4 666'<;.6ʹ .71'<J.1.6ʹ 6 , ; ;4?.<7ʹ >.6ʹ 1',V.<6ʹ >.ʿ 1.<-.16.1ʹ; .7ʹ>> E ;.ʿ<'7 ,<'5% .ʿ; , / 7.ʿ 7'< 65'6ʹ ,ʿ 7, ; ʿ .67ʹ >.ʿ1.7,41ʹ >.ʿ 1.6>.% ʿʻʻ1. 4ʹ >.ʿ .5.;7.41ʹ >.ʿ '@.ʿ ,<.ʿ1 ; :.ʿ7'0'7 1.ʿ .<ʹ?1.6.<7ʹ .7ʹ ';;4. 5ʹ5.ʿ ?546ʹ '57.418ʹ=4, =4.ʿ; ;.ʿ?1 <;.ʿ<.ʿ54ʿ' 7ʹ ?, <7ʹ.<;,1.ʿ >,<< ʿ4<.ʿ1>?,<6 .ʿ>.E < 7 -.ʿ 641ʹ5ʻʻ 64;;.66 ,<ʹ -.<ʿ 74.55.ʿ'4ʹ71,<.ʿ>.ʿ ,5,J<.%

ʿ>.5'7.ʿ .<;,1.ʿ>'<6ʹ5.ʿ6. <ʹ >.ʿ5ʻʻ > .7.ʿ>.6ʹ / >.,<ʿ 7.<7. / .<76ʹE ; :.4@8ʹ / ' 6ʹ <>- 7'05.68ʹ.7ʹ '4@=4.56ʹ5ʻʻ5,ʿ Q467. / .<7ʹE'-,1'05. ʿ5ʻʻ5 0.17>> >? < ,<ʹ ';;,1>.4<.ʿ ?1,7.;7 ,<ʹ 5.J 7 / .% '<6ʹ 5ʻʻ 6.66 ,< .@71' ,1> <' 1.ʿ>4ʹ CC8ʹ 5ʹ 6 .67ʹ .5.-.ʿ>.6ʹ ,1'J.6ʹ?'1ʹ1.? ,17ʹ ʻʻ4<.ʿ?1,?,M 6 7 ,<ʹ=4ʿ7.<>' 7ʹ ʻʻ1'??.5.1ʹ5.6ʹ , <; .16ʹ'06.<768ʹ ?,41ʹ 5.41ʹE' 1.ʿ?1>7.1ʹ5.ʿ6.1 / .<7ʹ>.ʿE >.5 7.ʿ =4.ʿ5ʻʻ ; ,<67 74M 7 ,<ʹ .@ J.% .ʿ?1 <;.ʿ#0.7[.17 <6 ʿ6 Vʹ ,??,6'8ʹ.7ʹ6 . / ʿ ?,17ʻʻ '4ʹ?, <7ʹ> '??.5.1ʹ5ʻʻ ; ,<67 747 ,<ʹ! ʿ 5,16ʹ ?546 .416ʹ<,<;.6ʹ <> J<>6ʹ6 > .-.1.<7ʹ; ,<51.ʿ5.ʿ5'<J'J.ʿ ʿ <>>..<7ʹ>.ʿ ,1'7.41ʹ 56ʹ ,405 .1.<7ʹ.4@ 1'. / .6ʹ =4G4<ʹ <,<;.ʿ >, 7ʹ>71.ʿ5 01.ʿ >.ʿ ?1,<, ;.1ʹ 6,<ʹ ,? < ,<ʹ8ʹ .7ʹ =4.ʿ5.ʿ 0 / .ʿ =4 55ʹ ?.47ʹ / .1 7.1ʹ .67ʹ ?546ʹ 6' 55'<7ʹ '4ʹ / 5 .4ʹ>4ʹ6 5.<;.ʿ=4.ʿ>'<6ʹ5.ʿ 74 / 457.% 466 8 ,16=4.ʿ ,? <'<7ʹ1'??.5ʻʻ5ʻʻ 5 0.1 .ʿ=4 5ʹ '-' 7ʹ>.ʿ?.<6.18ʹ ,<ʹ 1.<> 7ʹ?'1ʹ>.6ʹ'?? '4> 66. / .<768ʹ'; .77.'66.17 ,<ʹV467.8ʹ ;.ʿ=4 ,<ʹ '-' 7ʹ >J 7 / . / .<7ʹ 1.E46>ʹ ʿ >.6ʹ6.<7 / .<76ʹ =4 ,<ʹ< '??1,4-' 7ʹ?'68

B .1ʹ5ʻʻ / > / .ʿ?1,?,6 7 ,<ʹ ʻʻ>7.ʿ1.?1.6.<7..Iʹ .55.ʿ< ʻʻ ? 46%6,45 .17ʹ>.ʿ> EE ;455>68ʹ .7ʹ ,<ʹ ʻʻ >,<<.ʿ ,1>1.ʿ ʻʻ5ʻʻ ;, / / 66 ,<ʹ / 5 7' 1.ʿ>.ʿE' 1.ʿ6,<ʹ>.-, 1ʹ ʻʻ; .7ʹ >J'1>%%% ʿʻʻ.7;ʿ>.; >>ʿ>'<6ʹ5ʻʻ / . / .ʿ6.'<;.ʿ=4.ʿ ,<ʹE,1 / .1' 7ʹ >.4@ʹ;' <?6ʹ8 4<ʹ .<ʹ B:4'< .ʿ.7ʹ '471.ʿ.<ʹ ,5,J<.% <ʹ< ʻʻ?, <7ʹ .<;,1.ʿ>>6 J<.ʿ .416ʹ. / ?5';. / .<768

ʿ< ʿ ʿQ_ʿ ʿ +8ʹ 8ʹ 5.ʿ ;, / 7.ʿ >.ʿ ;:45. / ʿ 0,41J a.:<.17ʹ?'17ʹ?,41ʹ5ʻʻ 1466.8ʹ ' <6ʹ=4.ʿ ʻʻ>>Qʻʻ E' 7ʹ5.ʿJ.<>1'5ʹ ,55.<>,1E% %H, [.<.1ʹ.<71.ʿ'471.68ʹ .7ʹ >.6ʹ 6. J<.416ʹ 1466.68ʹ '66 67.1,<7ʹ '4ʹ .,<J1.6ʹ =4 ,<ʹ -'8ʹ> 7 ,<8ʹ .7'05 1ʹ ʿK1. 7.<67. <8ʹ 641ʹ5.6ʹ ; ,<E <6ʹ >.ʿ5ʻʻ 7:4'< .8ʹ ?,41ʹ1.7'05 1ʹ5ʻʻ 0,<<.ʿ:'1 / ,<.ʿ .<71.ʿ5.6ʹ ?4 66'<;.6ʹ1.6?.;7 -.6% .6%; ,<J.6ʹ ?,41ʹ >.4@ʹ / , 68ʹ =4 0<ʹ';;,1>.ʿ ʻʻ9 ʿ,<ʹ (ʿ: , / / .6ʹ?'1ʹ; , / ?'J< .ʿ>.6ʹ 55 ,4?.6ʹ?1466 .<<.6;'<7,<<>.6ʹ?1.6ʹ>.ʿ '<70 ; ʿ.7ʹ?546ʹ 5, <ʹ<,ʿ5' 66.<7ʹ '4;4<ʹ>,47.ʿ 641ʹ5ʻʻ ; ,<7 <4'7 ,<ʹ>.ʿ5ʻʻ ʿ' @ʹ>.;.ʿ;>7.%

ʿ 0 ʿ ʿ ʿ$ ʿ ʿ - "

%%%%%% ,<6ʹ5.6ʹ1',4-. / .<76ʹ>.ʿJ4.11.ʿ6.ʿ; ,<7 <4.<78 %.6ʹ1>J / .<76ʹ=4ʿ ,47ʹ.4ʹ,1>1.ʿ>.ʿ =4 77.1ʹ5ʻʻ B,<J1 .ʿ .5ʹ5ʻʻ '5';:.ʿ ?,41ʹ6.ʿ1.<>1.ʿ 641ʹ5ʻʻE1,<7 .1.ʿ6,<7ʹ.<ʹ < '1;0.Iʹ; .?.<>'<7ʹ 5ʹ. '11 ->ʿ ;ʿ>.ʿ<,4-.55.6ʹ .6?.G

ʿ5 ʿ ʿ" ʿ*T

1'<..6ʹ>.ʿ?' @% % 5.ʿ0'1,<ʹ >.ʿB .10.17ʹ ʻʻE7?>> >ʹ4<ʹN ; ,411 .1ʹ>.ʿK4; :'1.67% #.ʿ / < 671.ʿʻʻ>;1 58ʹ> 7 ,<8ʹ=4,ʿ 5.ʿ?5>< ?,7.<7 ' 1.ʿ ,77, / '<ʹ>7' 7ʹ<,<ʹ6.45; / .<7ʹ1.67>ʹʻʻ 67,-.ʿ '?1 6ʹ5.ʿ>>?'17ʹ >.ʿ <,6ʹ>.4@ʹ / < 671.6ʹ8ʹ / '7.ʿ =4 5ʹ'-' 7ʹ / > / ʿE' 7ʹ>.?4 6ʹ>.6ʹ,4-.1741.6ʹ?,41ʹ6.ʿ1'?ʿ ?1, ; :.1ʹ>.6ʹ / ,> E ; '7 ,<6ʹ =4.ʿ <,71.ʿ ; ,41ʹ > 6 1' 7ʹ>; ʿ =,<<.1ʹ ʿ ʿ1 ʿ'06,548ʹ>.ʿ6,17.ʿ=4.ʿ; .55. ;ʿ;,<G 6.1-.1' 7ʹ 16, [ʻʻ .7ʹ=4.5=4.6ʹ ' 71.6ʹ > 671 ;76ʹ ?,41ʹ5'1 6>1.79ʹ>.ʿ6.6ʹE1,<7 .1.68ʹ .7ʹ1.<>1' 7ʹK.5J1'>.ʿ.7ʹ5.6ʹ'4 G 71.6ʹ ; ,<=4 .6ʹE' 7.6ʹ>41'<7ʹ5ʻʻ J4.11.8ʹ.@;.?7 ʿ#:, ; F 0 / 8ʹ=4.ʿ5.6ʹ71,4?.6ʹ / ? 1 '5.6ʹ#,47 <4.1' .<7ʹ> , ; ;4ʿ ?.1ʹ Q46=4 ʻʻ5ʻʻ?' @ʹ>.E < 7 -.ʿ .<71.ʿ5ʻʻ ,17.ʿ .7ʹ5ʻʻK<6ʿ 6 .% / / .> '7. / .<7ʹ'?1.6ʹ5ʻʻ1.;.?7 ,<ʹ >.ʿ;.ʿ;, 11 .18ʹ 6.6ʹ>.?.; :.6ʹE41.<7ʹ .<-,V..6ʹ ?'1ʹ4<ʹ '471.ʿ ; ,411 .1ʹʻʻ . / ?.1.418ʹ .<ʹ 7'5 .Iʹ .7ʹ>'<6ʹ <7.1-'55.ʿ>.ʿ=4.5=4.6ʹ :.41.6ʹ;.54 ,ʿE47ʹ64 -ʿ>.>.4@ʹ .67'E.77.6ʹ .@?.> 7.6ʹ>.ʿ 5ʻʻ; :'<;.55.1 .ʿ> .7'7% <ʹ 1'??,176ʹ;.6ʹE' 76ʹ;, / .ʿ5.ʿ 014 7ʹ>4ʹQ, 1ʹIʹ / ' 6ʹ;.ʿ=4 5ʹV ʻʻ>.ʿ; .17' <ʹ . .67 =4.ʿ 5.6ʹ<.J, ; '7 , 6ʹ>.ʿ?' @ʹ6,<7ʹ7,4Q,416ʹ .<ʹ ?5. <.ʿ ';7M - 7V8 .7ʹ =4.ʿ5ʻʻ J4.11.ʿ< .67ʹ?'6ʹ?1,0'05.Iʹ / , <6ʹ?,41ʿ 7'<7ʹʻʻ1' 6,<ʹ>.6ʹ> 6?,6 7 ,<6ʹ?'; E = .6ʹ>.ʿ5ʻʻ ,17.ʿ=4.ʿ >.6ʹE'; 5 7.6ʹ'4@=4.55.6ʹ5.ʿ;'0 <.7ʹ>.ʿK.15 <ʹ6 .67ʹ>.7.1M / <.8ʹ .7ʹ>,<7ʹ 5ʹʻʻE' 7ʹ?'17ʹ ʻʻ5ʻʻ ; ,41ʹ ,77, / '<.8ʹ 4dʹF ʿ ?1466 .<<.ʿ ʻʻ ; :'1J.ʿ6,<ʹ ' >.ʿ >.ʿ ; ' / ?8ʹ =ʹ; ,5,<.5ʹ>.ʿ K EE.0,E6 [.1>.18ʹ >.ʿ ?,17.1ʹ2ʹ ; .7ʹ .J'1>ʹ5.6ʹ'6641'<;.6ʹ ?,6 7 -.6ʹV . / ?.1.418ʹ .<ʹ 7'5 ;8ʹ .7ʹ > 'J 1ʹ>.ʿ; ,<;.17ʹ '-.;ʿ / 5,1>ʹ 5J <8ʹ=4 4<.ʿ / 66 ,<ʹ?'1. 55.ʿ ʻʻE' 764 - .ʿ . / ?.1;41ʹʻʻ 5'<% .ʿ-,V'J.ʿ>.ʿ; . / ,<'1=4.8ʹ V5, ʿ J<. <.<7ʹ>.ʿ 67,-.ʿ.7ʹ5ʻʻ> 67'<;.ʿ>;6ʹ; ,416ʹ <7.1.66.J68ʹ 4,7' / 1'.<7ʹ >.ʿ ; .55.6ʹ >.ʿ ,<>1.6ʹ .7ʹ >.ʿ .7. 60,41J8ʹ E,<7ʹ <.;.66' 1. / .<7ʹ 0 ' <.1ʹ5.6ʹ<.J, ; '5 ,<6ʹ .<ʹ 5,<M J4.41ʹN / ' 68ʹ .<ʹ'77.<>'<78ʹ .7.ʿ6 .; ,<5.8ʹ .7ʹ5.6ʹ?4 6M 6'<;.6ʹ ' / .6ʹ>.ʿ5ʻʻ ,17.ʿ<.ʿ6,<7ʹ?546ʹ .<ʹ / .641.ʿ >.ʿ5ʻʻ 6.;,<>.1ʹ.4ʹ'77'=4'<7ʹ5ʻʻ 466 ʻʻ>'<6ʹ6.6ʹ?1,?1.6ʹE,V.1688ʹ >V5ʹ =4 ; .17' <. / .<7< '41' 7?'6.4ʹ5 .46ʹ.55.6'-' .<7ʹ .7 466ʹ6.1 .46. / .<7> 6?,6..6ʹʻʻ1, / ?-.ʿ'-.;ʿ5.6ʹ>. ʻʻ ; ,416ʹ / ?V>'5.6ʹ8.<ʹ; ,<6 >.1'7 ,<ʹ>.6ʹ 41;68ʹ =4 ; ;6ʹ 5.ʿ?'1'Q66' .<7ʹ 5ʹV ʻʻ=4.5=4.6ʹ / , 68ʹ'-'<7ʹ5ʻʻ- -.ʿ 1.6 6M 7'<;.ʿ=4.ʿ5.ʿ / < 671.ʿ'<J5' 6ʹʻʻ.664V..ʿ .<ʹ?'15. / .<78ʹ .7ʹ5.ʿ .0'<J. / .<7ʹ641-.<4ʹ?'1ʹ5ʻʻ< , / <'7 ,<ʹ>;ʿ>.4@ʹ <,4-.'4@ʹ / < 671.6ʹ>'<6ʹ5.ʿ;'0 <.7ʹ>.ʿK.15 <%

@ ʿ 0 ʿ ʿ gʹG Lʿ ʿCʹ (

,<6 .418ʹ '>' / .ʿ .7ʹ % > 15, 6ʹ>, -.<7ʹ1. .<ʿ ; 8ʹ ʻʻ 56ʹ5,J.1,<7%>'<6ʹ5.ʿ; :'7.'4ʹ>.ʿ .0,<0,1<674678ʹ ʻʻ4<.ʿ>. / 5 .4.ʿ>.ʿ5ʻʻ - 55.%K.'4;,4?ʹ> ,EE ; .16ʹE1'4ʿ ' 6ʹ6,<7ʹ ';; ,< / 6ʹ?,41ʹE' 1.ʿ5.41ʹ; ,41% ,<6ʹ5.6ʹ 7J5ʿ 7 ʻʻ ; , ,17 6'<6'77.<>.<7ʹ=4.5'J4.11.ʿ; - 5.ʿ6.ʿ>.;5'1.ʿ .<ʹH1'<;.% 56ʹ .6?.1.<7ʹ=4.ʿ; .5ʻʻ<.ʿ?.<7ʹ?'6ʹ7'1>.1ʹ8ʹ =4.5=4.ʿ?'17ʹ =4.ʿ?1.<<.ʿ 66. / 05..ʿ<'7 ,<'5.% <ʹ , , / ?1.<>ʹ ʿ 5.416ʹ> 6; ,<16ʹ =4 06ʹ ; , / ? .<7ʹ 64.ʿ 4<ʹ J1'<>ʹ<, / 01.ʿ> V71'<J.16ʹ=4ʿ6,<7ʹʻʻ '1 68ʹ .7ʹ=4ʿE,<7ʹ 5.6ʹ?'71 ,7.68

0, 3 ʿ ʿ +ʿ ʻʻ E1VJ'7.ʿ . ?'J<,5.ʿ5' 8 !ʹ>.ʿ 9ʹ;'<,<68ʹ<,4-.55, / .<7;,<6714 5;7ʹ5ʻʻ #'1'=4,8ʹ;'7ʹ?'17 .ʿ>.ʿ#'> @ʹ5.ʿ *ʹQ4 <ʹ >.1< .1ʹ ?,41ʹ 6.ʿ1.<>1.ʿ>'<6ʹ5ʻʻ .> 7.11'<<V.8

.ʿ-' 66.'4ʹ>.ʿJ4.11.ʿ .6?'J<,7ʹ5.ʿ A' ʿ>.ʿ 9 ʿ;'<,<68ʹ.67ʹ?1 7ʹ ʿE' 1.ʿ-, 5.ʿ>.ʿ#'> @ʹ?,41ʹ5ʻʻ .1' ʿ #1408ʹ , ʿ 5ʹ 1'<6?,17.>4ʹ - E '1J.<7?,<15 .@?5, 7'5 <ʹ >.6ʹ / <.6ʹ>4ʹ .0 =4.8

% <.ʿ5.7771.ʿ>.ʿ ! 01'57'18ʹ .<ʹ>'7.ʿ>4ʹC ʿQ4 <8ʹ '<<,<;.ʿ =4 4<ʹE1.1.ʿ>4ʹ1, ʿ>.ʿ '1,;ʿ ʻʻ .@; 7V4<ʹ6,45.-. / .<7ʹ >'<6ʹ5ʻʻ ?1,-<;.ʿ>.ʿ 46ʹ8ʹ .7ʹ =4 5ʹ6 .67ʹE' 7ʹ ?1,;5' / ;Eʹ . / ?.1.41ʹʻʻ5ʻʻ797.ʿ> 4<.ʿ'1 / V.ʿ>.ʿ ʿ / 55.ʿ; , / / .68

.ʿ1, ʿʻʻ<, / / Vʹ ʿ ' / 0'66'>.ʿ>.ʿ 60,<<.ʿ5.ʿ / '1

= _W > S1' 5 / ? 1 '5 8 ;'?:' <.' >.' 5" ; , / ?'J< .' 7' '
5 .<<.' >.6 J'1>.6G>4 .,1?6%

(+ . / ?.1.41 .67?'17'>.' 5'<
5.)'Q4 <' '4 6, 1% ,< ?1,Q.7 .7' 7 > '55.1 ; ,4;: .1 "
.<O'<,8.< ?1.<'<7 5"1,47.' >.' K.1J' / .' .5>.' K1.6; 'I
5 >, 7 .1 64 5.' 6 '11.7.1 4<.' >. / Q,41<.Q.' " .1,<.8
.7 1, 6 Q, 416 " '>, 4 .I 5 <.'6.1" >.' g;7,41 " .<<.'
=4.' c.' C Q4 55 .7% #.' ?1 <;.8 ' - '<56 ,< >.?'178 ' ; , / O5.'
>.' ?1.6.<76 5.6 > EE.1.<7.6 ?.16, <<.6 =45 ,<7 6.1- 8 .7
" E' 7 '466 ' > 671 O4 .1 '4@ ?'<V1.6 >.6 '4 / ,<.6 '0 ,<'
>'<7.6% ' '6<6.; ,<; 5 .1 7, 46 5.6 ; ; .4168 .7 7, 47.6 5.6
E, 6 =4 5 " ?'14 .< ?405 ;' 5 V " 1.; 4 5.6 7. / , J<'J;6
E5'77.<16 >.6 6.<7 / .<76 =4 <6? 1' 7 6" ?1.6.<; .% .6
?1, / ,7 ,<6 =4 5 " E' 7.6 >'<6 5.6 > ;'67.1.6 >.' ; .77.'
- 55.' ,<5 '466 ' , O7.<4 '??1, O'7 ,< J <>1'5.%

' % ' 6 '*- ' +' " >?40 =4.' " >, <<> ,1'
>1.' " % 5>.1 J, 8 6, < / < 671.' " 41 <8 >.' 1.<, 4-.5.1
5" >. / '<>.' == 5 " >.Q" E' 7.' > 4<.' 1.?'1'7 , <8 .7 > V
<6 65.1 E, 15. / .<7% .6 < < 671.6 >4 1, '>.' '1>' J<.'
< ,<7 ?, <7 .<; ,1.' E' 7 >.' 1.?, <6.8 1'' 6 ,< '6641.'
=4 56 71'-' 55.<78%S 4< < . / , 1.'>, <7 5.' O4 7 .67 >.' ?1,4'
-.1>>< ,<671'7 1. / .< 8 > '?1.6 5.6 <E,1 / '7 ,<6 ?1 6.6
?'17.6 ; , / / 66' 1.6 .<-,V.6 641 5.6 5 .4@8 =4.' 'J1.6'
6 W< .7 5.6 - ,5.<; .6 =4 ' .< ,<7 .7 '5" 64 7.' 6, <7 7,47.6 "
5" ; :'1J.' >.' 5" 1 ?405 =4.% < ;1, 7 =4 ,< .<-.11"
'466 ' -;1 '5" E1, <5 .1.' 4< <, 4-.'4 ; ,1?6 >.' 71, 4?.6? '
/ ,<7' 6.6 ?, 41 '??4V.18 .< ;'6 >.' O.6, <8 ; .77.' >.;5'M
1'7 ,<8

E K %

' 6 ' 3 ' ' ' ' F ' 8 ' ' '

8 #,7 .7'7 ' ?5 ' ; , <E,1 / .' '3 ?.7 7 <, / O1.' > > .6 >.'
1O, / <.' <'741.58 .67 ' 766 5.' ?5'6 '66,17S " 6, < ; 1';7.1.' .7
8 ' 5" <'741.' >.' 6.6 6.<7 / .<76% ,16=, B5 ;O.66.8 5 <.' 71' '
-' 55.' ?, <7P 5 < .67 =4.' =4 ?'1 4<.' ?'66 ,<I ,OQ.7 =4G '
?,4164 7 7 7.1.66.8 '< <.' .7 5.' > 671' 7 >.' 5" E'7 J4.' >.'
6.6 1.: .1, : .6I 7, <7.' 5" 7.11.' ,41.17. >.-Q'<7 6.6 ?'68 5.'
.: .7 ?G>.6 5 . @% .7 >.6 / ,V.<68 =4 ' .67 7, <Q, 416 2 6" > 6?,'
6 7O, 8 54' E, <7 ;?1,4-.1 '< 6.<7 / .<7 > <>.?.<>'<; .8
7'7 > 6 =4.' 5.6 ';7.6 >.' ?4 66'<;.' =4 5 .@.1; .' 641 5.6 '< G
/ '<.' 54 '1'??.55.<1 ; .54 '>.' 6"!
% ?5'; .' '-. '1' 6, <>'<6 7'7 6, ; '55" ?546 J1'<>.'
' / / .' >.' O, <: .<1'' =4.55.' 5 : , / / .' ?, 66.' ' 7.54>1.% <
.EE.78 ;G.67 5" =4.' F6.6 EO;457.6 6." > -.5,??,<7 ?5. <. 4,<78
6 .7.<>.<7 .7 6.' ?.1E. ;7 , <<.<78 .7 7 .EE.7 >.' ; .' >.-.5,??.G
/ .1 7 .67 >.' 547 , -151 >.' <?<-.55.6 6, 41; .6 >.' O .<6 .<
'6641'<7 5" 67'O 5 7.' >.' ; .4@ =4 5 7 .<7 >.Q' >.' 5" <'741.M
; .77. , 4 / .' >.' O, <: .<18 6.5, < <G.67 ?'6 > '71 G
O4 .' .< ;J'5.6 ?,17 ,<6I 5 ' 64??, 6 ' 1.?'<>4.' '-.. '5\54Y
>.' ?1, E46 ,<>'<6 5.6 1'<J6 64?.1 .416 >.' 5" 6, ; .7.8 ?'1; .
=4G ' V -, 7 ?546 >.' / ,V.<68 6'<]' .@;541.' ;. ?.<>'<7 >.6
;5'66.> <E 1 ;41. '% " .174 8 6'J.66.8 : , <<.418 1'<J8 > J< 7.8
E,17<<.8 J5, 1.' .67 / .8 ; ,<67>.1'7 ,48 7'5.<78 ' / ,418 ' / G
7 .N -, 5.8 > 7 58 5.' E, <>U4 O, <O.41 J.<.1'5 .7 ?'17 ;45 .1I
?546 ,< ?, 66.>.' >.' ; .6 O .<68 ?546 ,< 2 >.' 5 ,V.<6 >.' O, <G
: .<1% W

,(' ;' ' ?'6 / .771.' '< ?.' " 71, ? >.' ; , <> 7 ,<6 '4 O?<G
: .<18 ;7 .67 5 O .< 641 =<.' ; .54 ' =4 ' 5.6 1.<< 1' 7 7,47.6
6.1<57 .' ?546 : .41.4@Z B ,71.' .6?1 7 ?. .77 O .<8 .<' , 4 =4'
5.<7 5.6 'O671' ;7 ,<68 ,<1'??1, .O'<7 ?'1 5" ?.<6 ' ; ' =4'
.71,4-.' 6.?'1' ?'1 5" <'741.' >.6 ; : ,6.6 8 6.' E' 1.' 4<.' E.5 G
U7.' >.' 7: ., 1 .% '76 ?.1 .<; .' ?1,4-.' =4 .< E' 7>.' O , <M
: .<1 ..54 ' =4' " 7,47 <.' ?, 66.>.' 1 .<I .7 ,G.67 ' <6Q =4.' 5G'
V,< .' 5" <'741, 8 ,4 ?547>7 <, 1.' ,1J' < 6'7 ,<8 =4 '<.' ; , / '
?, 17.' ?, <7 7 < ; '7 ,4 5G, < < " 1 .< '>.6 1 1.% '>.6 1 .67
'-.1 7'O5.' 6 '6, < . / .<7 >.' <, 6 Q, 4 66'<; . 8 .7 5 .67 /G
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5 .67-1' '=4 4<.'?,?45'7 ,< / / .<6.'<,46 ?1.66.8 =4.'>.6 -, 6 <6 ?4 66'<76 <,46 .<- 1,<<.1%E8 =4.'>.6 ?'66 ,<6 ' / 0 7 .46.6 .7 E' ;7 .46.6 <,46 'J 7.<78 5 < .67 ?'6 >,47.4@ =4.' 5.' J,4-.1<. / .<7 / ,<'1.0 =4.' .67 5.'6.'5 =4 '<,46 ; ,<- .<<.% '< .67 =4.'>.4@ / ,V.<6 % ?,41 <,71.'.@ 67.<; .'?,5 7 =4.N 6 ?'1.1 5.6 ?,4-, 168 '6641.1 4< 7 '<'7 ,<'5.% 5 E'47 .< ,471.'4< ,065 ;5.' '' 7,47.6 5.6 ' / 0 7 ,<6 .7 '4@ / ,4-. / .<76 1'? >.6 > 4<.' ?,?45'7 ,< / / .<6.%% ,46 '-.0 1.?,466 ' 5.' 6V67 / .'>4 J,4-.1<. / .<7 E >.1'5 Eľ .'< .67 =4.'?'1 5.'J,4-.1<. / .<7 / ,<'1; : =4.'=4.<,4%ľ ?,4-,<6 .71.' 5 01.68 .7-,46 '-.0 -,454 ; .'J,4-.1<. / .<7N ,<-,46 .< '' : .1 .@?,6.'5.6 0'6.6 > 4<.' / '< .1.'6'-'<7.% 5 < ?.4?5.'1.? 6.<7 ' ; ,<E .'5.6 ?,4-, 16 ''6.6 1.?1 6.<' 7'<768 .7 4.' ; ,<6.1-.'6''5 0.17 '= .<> - 6'<7 ; .6 ?,4M -, 16% 5 5.6 1. / .77' 7 7,<6 >'<6 5'' / ' < > 4< 6.458 5 ; .66.1' 7 > 71.'6,4-.1' <% 34'<>' 4< >.6 ?,4-, 1.' E' 7 5'' 5, 8 .7 =4.' '471.' .@ ;47.8 ; .55 ' =4 ' .@.;47.' >, 7 '-, 1 5.' <,V.< > ,??,6.18 ?'1 5'' 646?.<6 ,<8 4< E1. <'4@ .<71.?1 6.6>.' ; .54 '=4 'E' 7 5''5, %#.54 ; ' '11>7.8 641-. 55.'1.@ ;47 ,< ?'1 5'' 1.6?,<6'0 5 7 '>.6 'J.<76% '<6 ; .77.' ; , / 0 <' 6,< 6'-'<7.8 5 '' E'554 =4.' 5.'E1. < E>7 <- ,5'05.% ,46 '-.0 5' 66 ''4 1,7 5.6 E,<; ' 7 ,<6 .@;546 -.6 >.'>,<<.1 5.'6'<;7 ,< .7 1.@ ;47 ,<l

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; '6.' ?1. 6.<7.' '1J4 / ;<7 _ 4.' B% K<0,7 '' 7 1 '>.' .@. / ?5.' >.' <J5.7.11. .< #))% '' ; ,<67 747 ,< '<J5' 6.'< ''?'6 ?1 -4 5.6 ; '6>; '>; ; : '<; ; '=4.'5''<'7 ,< ?1,<,<; .' = '<> .55.' ; ;1, 7 < ; .66' 1;% ' < .@ 67.' .< <J5.7.11.' '<; 4<.' 5, ' ; ;1 7.8 '4.< 7 46'J.' ?.1M / '<.<7ľ 5'' ; , / 0 <' 6,< >.6 ; 1; ,<67' ; ,6 > 7.1< .' 6.45.'5.'?'17 '=4 ,< ?1.<>% # .65' <6 '=4.'5''>.; ; '<; .' '' 7.' ?1,<,<; .'?,41 >.6 / .7' 76 =4 '<,'1'-' .47 ?'6 .<; ,414.8 =4 ,< '' '??.5 '>.6 ; ,<-.<7 ,<6 4'5 ,<'5;6 ?,41 E' 1.'1.J<.1 >.6 H';7 .4@8 .7 =4# >'<6 >.6 ; '6 ,E7 5'' 5 0.17.' ?405 =4.' .@ J.' 5 5'' > ; : .'<.' ; '6 5.<; .' >.'5''<'7 ,< ''5' 66 '>.6 ; ,4?'05.6 .< ?' @% ,46 '-,<6 -,454 =E7.%7, 7.6 5.6 5, 6 E466.<7 ,;1 7.68 =4. '10 ' 71' 1.'E47 71'<J.1'' <,71.'5 J 65'7 ,<% # .67 .<71.'5'' 5, ' .7 5.' 1.66.<7 / .<7 ?,41 4< <> - >4 =4.' <,46 6, / / .6 ?5' ; .6N 64 -,<65'' 5, '?,41 5.' / ,<'1=4#8 6< [' -,<6 5''?,41 5.'?.4?5.' / / .% .>. / '<>.' '7<, / / ;8 =< ' '' ; ,<=4 >.6 1.66.<E / .<56 ; .<71.'5.'> ?,6 7' 1;'>4 ?,4-, 1 .@ ;47 E8 6 5 .67 ?546 '< / .'>.' : ' .7 >.' -.<J.'<; , ' ; .<71.'54 '=4 .77' ; : '' 5'' ; ,<67 747 ,<ľ ;5 1. / '1=4.0 ; .77.'> E5 1.<; .'< ; .66' 1.'' : , / / .'5 01.8 .<71.'1 / ?,17'<; .' >.6 5, 6 .7 / ?,17'<, .'>.6 ?.1 ' 6,<<.68 ,46 '41 .0 E' 7 4<.'J1'<>.'E'45.'6 ' -,46 '- .0 5' 66 '4<.'J1'<>.' / ?,17'<; .''4@ =4'5 7 6 >.' : 4 / / .% 4 -,46 '-.0 E' 7 4<.' ; ,<67 747 ,< - ; .46.ľ ,4 ; .5< ' =4.' 5.' : '6'1> >.'5'' < 66'<; .' -,46 >,<<.'?,41 1, 8 .7 =4.'5'' 5, '<.' ?.<7 '77. <>1.8 <#>, 7 ?'6 71.8 ?'1 6.6' ;7 ,<6 <> - >4. .68 '16.6E' ;457. 6 ?.16,<<. 5E68 / ?,17'<7 ''5''67'0 5 7 8;7''5' : ,<7 >4 J,4-.1<. / .<7% & < '??5'4> 7%P 5 .< .7' 7 '471. / .478 #.'<.6.14 5Y ?'6 >'<6 5.6 E'47.6 >.' ; 7 : , / / .8 ; .'6.1' 7 >'<6 6.6 J1'<>.6 ' ;7 ,<6 =4.'Q.' -.11' 6 5.'>'<J.1% .' / . >.5 . ' 1' 6 ?546 >.'6.6 -.1746 =4.'>.'6.6 - ; .6% .'> 1' 'E7 ; .4@ =4 ' 6 .@ : '5.<7 '-. ;'E41.41 ; .<71.' ; .54 '=4 ' '' ? ? : .N ,46 6.1 .0 >,<.' ''6.6 ? .>6 6 ' -,46 7 00 .<%; ,<7.<76 >.'54 'Z & < '??5'4> 7 '' ?54 .416 1.?1 6.6%P #.4@ =4 ' -.45.<7 ' <6 '6' ; 1 5 .1 5'' ; ,<67 747 ,< ''5. 1 1.66.<7 M / .<7 ?,41 4< : , / / .' / .' ?'14 66.<7 71,? 64Q.76 '' 6';1 5 .1 5''5 0.15 '''5.41.<7 : ,46 '6 / .?,41 4< : , / / .% 5 ?4 6=4 56 -.45.<7 5''1 ?405 =4.8 ; .655.' / , / .<7 >.' 5.41 > 1.'=4.'6 ' ' ;7.' > 4< <> - >4 =4 8 5,<J7. / ?6 '-' 5.4 '5E.;7 ,<>4?.4?5.8 ?,4-' 7 ; : '<J.1 E.J,4 ' -.1<. / .<78 ; .' / / .'?.4?5.'6.1' 7 0 .< ?546 / 4 ? [

5W6 ';7 ,<6 > 77< 1'<> 5 , / / .I #'1 5' <'7 ,< E1'<
Q' 6.6' 7 O .< <4.4@ ' EE5;1 =, . .<.6' 5 : ' 1% & .6
'??5'4> 66. / .<76 1.;, / / .<;.<7%P ,46 =4 'Q1.Z .71
,. / , / .<7 E ,<>#7'<7 > .6?#1'<;.641 5' / ,O 5 7V >4
?.<?5.8 ;, / / .<7< >1.O -,46?'6 6.<7 =4.>'<6 ;.57.
/ ,O 5 7# / / .#7' 7 5' >.6714;7 ,< >. -,71. ?1,?1.
6V67 / .Z L ,46 'V.O -,45< 4< ;,<6. 5 .@#;47 E8 E' O5.
>'<6 6,<.66.<;.8 ;,<71. ' / ,41 >. .J'5 7#8 >.-.<4.
5' ?'66 ,< >.6 H1'5 ' 6% E' O5 ?'1 5' >- 6 ,< >. 6.6
/ .1<O1.68 1#6 67.1' 7 5 5,<J7. / ?6 '< J1'<> ?: 5,
',?:.8-'< J1'<> J#<#1'5 =4 '41' 7 ,O5.<4 ' / ,41
.7 5.1.6?.;7 >4 ?.<?5.8 =4 6.1' 7 >.-.<4 ,OQ.7 >.
6,< .O7O,46 '6 / .Z ,46 < '-.O ?'6 6.<7 =4.6 8 ?'1
.EE.5 > 4<. ?'66 ,<8 5' <'7 ,< ?,4-' 7 >.714 1. 5'
1,V'47.8 .55. ?,411' 78 ?'14<. '471. ?'66 ,<8 >#
714 1. 5' 1#?4O5 =<.?,41 .7'O5 1 5' 7V1'<< .% & 6 >
5.-.>.6 '??5'4> 66. / .<76 1> 7.1>6%P .67 >,<. -1'
=4.5' #,<67 7 57 ,< >, 7 -,45, 1 =4.5.1, 6, 7 <- ,M
5'O5.8 .7 =4.7,47 :,< / . -1' 1'.<7 5 O1.>, 7 -,45, 1
.7 -.47 ;.=4 ' ?1,<,<;.5' #,<67 747 ,<8

. -' 6 ?546 5, <% . > 6 =4 5 .67 :.41.4@ ?,41 5.
/ , / .<7 ?1.6.<7 =4. 5' #,<67 747 ,< < ' 7 ?1,
<,<.>5' >>;:.'<;.% < ' > 7 =4. 5' >.6 ?4 6M
6'<;.6 >71'<J>1.6 ' >>7.1 / <. 5. ?1,Q.7 >.6 ;, / 7>6%
.>.;5'1. =4. ?'1 >.6 ; 1;,<67<<..6 =4 <. 6,<7 ?'6
71>6 :.41.46.6 ?,41 <,468 / ' 6 =4 6,<7 / .<'='<7.6
?,41 .55.68 ;. 6.1' 7 7,4Q,416 ;,<71. 5.6 1, 6 =4.6.
7.1 / <.1' 7 ;.57. 'EE' 1.% < <. ;:'<J. ?'6 5' <'741.
>.6 #:,6.68 ,< < '11>7.?'6 5' >.6714;7 ,< >.6 ?1>Q4
J>68 =4'?> 4<. J1'<>. -,5,<7> ' 1>;5' / >.% .67
-1' =4. '5.6 ?4 66'<;.6 #71'<J.1.6 -,46 5 -1' .<7 '
J4.11.8 -,46 >?1,4-.1 .O >. J1'<>6 / '4@8 / ' 6 5 6
6.1' .<7 ?'66'J.168 .7 5' - ;7, 1.8 E37 .55. 7'1> -.8
6.1' 7 '6641>.% . <. !1' <6 ?'6 <,71. E' O5.66.I .
#1' <6 <, 1.E,1#.8 <,71. 'J 7'7 ,<8 <,71.E >-1.1>-,
547 ,<<' 1.8 6 .55.6. ?1,5,<J. '4 >.5> >4 7.1 / .%
'1'??.5.5.6 <;,<-> / .<76>.>>7' 5 >.7,47 ?'17 > 7
E>1.<7 >. ;.54 =4 ,< -,46 ?1,?,6.I ,< -,46 ' >
=4.>.6 1.J.<768 ?'66>6 .< ?'V6 >71'<J.18 1. / ?5';.
1' .<7 / '7 5. 1, I =4 > , J<.1 >. 5' 1>J.<;.;.4@ '
=4 5' 5, 5' >,<<.8 '?1.6 '-, 1 .@;54 5' 1,V'47.8 ;.
6.1' 7 ,1>.1'47'<7 >. E';7 ,<68 '47'<7 >. ?'17 6 =4
V'41' 7 > :, / / .6 .@;546I =4 '-.;4<;,<6. 5 5.?, 1
8 V, 1.@>;47 E1. / 6.< >. >>O 5.6 / ' <6 6.1' 7 '<>'<7 %
5.6 / . / O1.6 >.;.;,<6. 5 >7' .<7 ?1 6 >'<6 ;.77.
66. / O5..8 6 -,46 -,46 >;'17 .O .<;. / , / .<7 >.;.6
6.<7 / .<76 >>6 <7>1.6]>6 =4 8 .<-,46 '6641'<7 1.67 / .
>4?.4?5.8 ,<7 '6641> -,71. ?,4-, 18 66. / O5>.
<'7 ,4'5. ?.1>1' 7 .67 / .8 5. ;,<6. 5 ?.1>1' 7 6'
E,1;.% ;.6 / . / O1.6 >7' .<7 ?1 6 :,16 >. -,71.6. <8
5 6.1' 7 > EE ; 5. ?.47 >51.>.71,4-.1 '66.O > :, / / .6
'V'<7 ';=4 68 ?'1 >.6 ';7.6 ?4O5 ;68.7 <, / O1.4@ >.
?'71 ,7 6 <. .7 >. >.-,> / .<7 '< O .< J><>1'58 5' ;,<
E '<;.>,<7 56 '41' .<7 O.6, <8 .7 5.?,4-, 1 1. / 6.<
5.416 / ' <6 6.1' 7 .<;,1.><.1->% . <. / '11>7.?'6
'4@>>7' 56 >.;.6 1' 6,<<. / .<76 .7 >. >.6 E' 568 Q.5.6
?1.<>6 .< / '66.% ,47 ;:'<J. / .<7 >'<6 5' #,<67 74M
7 ,< .67 E'7'58 7,47 ?1,5,<J. / .<7 >.5' 1>-,547 ,< .67
>>%6'671.4@%% .?5';. ; 5' ->1 7'O5.=4.67 ,<N 55,<6
<,46 7.1 / <.1 5' 1>-,547 ,<8 '55,<6 <,46 5' 1.;, /
/ .<;.1Z & < '??5'4> 7 >'<6 7,47.6 5.6 ?'17 .6 >. 5'
'55.%I -,46 -,46 >.E .O 4<.E, 6 >.5' #,<67 747 ,<8
=4.5 6.1' 5. ?, <7 ,4 -,46 -,46 '11>7.1.OZ =4.5' 66.
1.O -,46 ' -,6 64;;.66.416Z =4. E.1,<7 56Z ' > 7
=4.Q. <. ;1' J< 6?'6 5.6 >71'<J.168 / ' 6 Q. .1> <6
5.6 'J 7'7 ,<6 >4<.;1 6. =4 < '41' 7 ?'6 >. O,1<.6%
< <. ?.<7 <,46 E' 1. '4;4< / '5 '<>.:,168 / ' 6 ,<
?.<7 <,46 E' 1. 4< J1'<> / '5 '4>.>'?68 .< ?.1?.
7<'<7.. / ,4-. / .<71>-,547 ,<<' 1.=4 ' >>714 77,47
;.=4 >7' 7 > >.714 1.8 .7 =4 <.6.7.1 / <.1' =4.?'1
4< 1'??1, ;. . / .<7 ;, / / 4< .7?' 6 O5.>.7,47 ,.=4
;, / ?,6.5' <'7 ,<%
,46 '-.O 1.<>4 7>46 5.6 :, / / .6 >J'4@ >.-'<7 5'
5, f -,46 '-.O ,,<6'.1> >J'5 7> ; - 5. .7 ?,5 7 =4.f

-,46 '-.1 1.?1 6 ?,41 7'7 7,47 ;.= / '-' 5 >7..<.->
5' 6,4-.1' <.7. ><?.4? .I 4< ?'6 >. ?546 6.1' 7 '
';7.E4<.%67. .7 ;,4?'O5.8 4< ?'6 >. ?546 >'<6 5' 5 J<.
>.5' 5 O.17>6.1' 7 5' >.6714;7 ,< >. 5' 1,V'<7>I >'<6
5' 5 J<.% >. .J'5 7>8 5' >.6714;7 ,< >.5' ?1,?1 .7>%
,<-,45' 7 .<;,1. >.714 1.8 = '<> 7,47 ;. =4 5
E'55' 7 >>714 1. < .@ 67. ?546I 6 ,< ;1,%V' 7 < '-, 1
?'6 5,47 E' 7 ?,41 >J'5 7.8 =4'<> >J'5 7.>. 7,46 5.6
:, / / .6 .67 '6641>.8 71,4-.1' 7 ,< .<;,1. 4<. '1 6M
7,;1'7 ; ' '<>'<7 18 6 ;. O ;.55. >.6 ?1,?1 .7.6Z
< ' .<71'5<. =4.5=4.6 :, / / .6 >. ;'O <.78 =4.5=4.6
:, / / .6 6'-'<76 .< J?, / .71 .8 .7 =4 <. / ,<71.<7 ?'6
5' / >1,.6; .<;.1< ?,5 7 =4.8,< 5.6 ' .<71' <>68 > 6 Q.8
?'1 >.6 'O671';7 ,<68 / ' 6 ,< <. ?.47 .<71'E<.1 5.
?.4?5.=4.?'1 >.6 1>'5 7>6% '<4 7 >4 U ',#77' >,<<>
?546 >. O1'6 ' 5' 1>-,547 ,< =4.5.6 J1'<>.6 / '@ / .6
>. ?: ,6,?: . .7 >. 1' 6,< =4 E,<7 5' O'6. >. -,6
?546 64O5 / .6 >.;1.76N ,18 =4.55. <4 7 >4 U ',>5 -,46
1;67. 7 5 ' E' 1. (.67 >,<. -1' =4 5 .67 7. / ?6 >.
7.1 / <.1 5' 1>-,547 ,<I =4. 6 .55. ' >> > 1. ;, /
/ .<;.. .7 6,47.<4. ?,41 5' J5, 1. .7 5. O,<:.41 >. 5'
<'7 ,<8 .55. >, 7 6'11>7.1 =4'<> .55. .67 E' 7.I .7
=4 '4 / , / .<7 ,< E' <'7 ,<8 .67 Q O1.8 ,4 7,46 5.6
H1'<=' 6 6,<7>J'4@8 -,45, 1>'-'<7'J.8 . .67 -,45, 1
;, / / .<;.1 ' ;.66.1>>71.E O1.6.7 >.-.< 1 ;,4?'O5.6%
& '6'55.1.7.<7 7 ?.<>'<7 =4.5=4.6 / <47.6 > '??5'<
>566. / .<76 4<'< / .6 .7 1> 7.1.6%P 4Q,41> :4 7,47 5.
/ ,<>.6' 5 =4. <7.1>7 .67 >J'5 ' 7.1 / <.1 5' 1>-,M
547 ,<% #.4@ =4 ,47 ?.1>4 6'-.<7 =4 / ?,66 O5.
>.5' E' 1. 1>71,J1'>.1I ;.4@ =4 ,<7 E' 7. 6'-.<7
=4 .55. .67 ';:.->. .7 =4.?,41 5. 1 J5, 1. 5 E'47 5'
E @.1%

.6 1, 6 .4@ / > / .6 6,<7 <7>1.66>6 ' ;.=4 .55; '
< 66.I 56 ,<7 -4 4<.J1'<>.1.E,1 / .>'<6 44 J,4-.1
<. / .<78 56 ,<7 ;1' <7 =4 4< J1'<> ?.4? .8 =4 ?,4
-' 7 7,47 ?'1;.=4 '-' 7 1.?1 6 7,47.6 ' ?4 66'<;.8
<. . / ?5,V>7 ' ' >.6714;7 ,4 >. 5' 1,V'47>I 56
6.<7.<7 =4.6 <,46 <,46 '11>7,<6 .< ;. / , / .<7 56
6,<7.<;,1.1, 6I 56 6.<7.<7 =4.6 5' 1,V'47.64O6 67.
'?1>6 5' J1'<>.>?1.4-. =4.55. - .47 >.64O 1 ;O.
4< ?.4? . 11 7.8 '?1.6 >.6 > 6;466 ,<6 '??1,E,<> .68
5 6.1<1.;,<<4 =4.5' 1,V'47..67 <>..66' 1. '4@ J1'<>
>7'76% 'E < >. 5' 1>-,547 ,< E1' . 6. >.- .<5 ?,4
.4@ 5' 6,4 ;. >. 5' 6. .41 7.641 '47,1 7. 1,V'5.%
1.67.8 =4.55. =4.?4 66. >71. 5.41 ;,<>4 7.8 =4.5
<O71.6, 7 6'J.%

K>J><>1'7.416 >. 5' <'7 ,< E1'<=' 6;8 7.1 / <.O
;'11 .1.=4. -,46 '-.O ?'1;,414. '-.;;,41'J.% ,
'-.O / ,<71> =4. -,46 '- .O8'-.;5' E,1;. ?,41 >&
714 1.8 5' 6'J.66.?,41 1. / ?5';.1I '??1.<.O '< / , /
=4. -,46 '-.O ;,<6.1-> -,71. E,1;. .7 -,71. 6'J.6S
?,41 / ' <7.< 18 ,46 5.6 ;7,V.<6 6,<7 '1 / .6 ?,41
5 O.17>I 56 <.;1' J<.<7 ?'6 .<<. / 8 56 <. '??.55.
?'68 / ' 68 6 5 ?'14 78 5 '??1.<>1' ;.=4.?.47 5<.
J .>.6 :, / / .6 E O1.68 .7 5.6 / ,V.<6 <.?4 6'O5.
'4< J1'<>. / ? 1.1.J><.1>%34.<,6 E1,<7>1.66, .<
7.<4.6 .< >>E.<6. 8 ?1,4-,<6 7,47 5' E, 6 <,71
?4 66'<;. .7 <,71. / ,>>1'7 ,<% # .67 5' 5.7.1 / .>
-,6 >.-, 16% ,46 '-.O >?1,4-. >.6 >'<J.16 .7>.
,O67';5.6 > -.7 68 -,46 '41.O / ,<71> >.6 7'5.<76 .7>.
-.17<6 > -.16.6 8 .7 '?1>6 '-, 1 - - E > 5. J,4-.1<.
<.<78 -,46 1.7,41' .1.O >'<6 -,6 E,V.168 -,46 V,O
7 .<>1.O 5.6 O.<.> ;7 ,<6 >4 ?.4? .8 ,4 >4 / ,/6
6 5.<;.1.6?.;74.4@ >. 5' ;'5, / < .% & < '??5'4> 7
?5<6 .416 1.?1 6.6%P

6. / O5>. .1>,<<. '<'< / 7> 1 / ?1.665,7 ><>O
.,17 >. %K'1<W-W%
<>. / '<>6 '675.1',@ 1, @%
'>6. ,<.'7 E.1 / >. .61'<>. / V,15 %
'E' 7 6.7<1.>. <17 ;7. ?1,?. ' ?'1 % J'55'8
<>. / '<>6 '57.1 '4@ -' S%

% !1 N . >. / '<>6 =4. Q, J<. '/
'17 ;5.6 >. % '55.6 4<. > 6?,6 7 ,< =4 ' <>Q >O
?1>6.<7>. f .55. ,,<6 67. > 16=4 . 5.1' =4 1'E46

[illegible]

, &' - @36 '(" '(O(*.($' *'**((*,.+-$3,$,$(*,,(
('(. (*,'--(.($4 -.' +. (" ('PWA $*-(.*$(,' (,'3(*$
-*'BFA,, (,d+*' $*"5+$'(U$+,(.+$,'**('+,,(* +,$ *'4+.%
(#$(,'@+",(. (+'- '-(.*$(./5*+*,'+*''(*"-+'4.($ $(.=
,=' ,,"+0 $$"(*' $(*'-('3.+$*-.('5 &' +' (*,$ *'#+$,('-(
'4(.' *+('-+'. $&-+*"('(. (*,'-+'BF $ (,/*('' *##.$,'
-(" -$*$3,$ -" -+' +'4+.,'-+' +'$, *4('-(' $9*('(,'-("9+.-("
,,+,$ *+ (+' -+$+'+ ,.('.($+ .,7 (('5 $'+*.+$,'4*/ ,+*,'5 +'
B +'( ) ' +,$ *+ ('*+*.+'4 $*,'(*3 .('.+*-+'-5-- .(,'
+'' *'(9+.-#+0 $.' ('- +) ('$*3 *0(*$(*,' *'-('-$0$'(.'(+'
3$, 8(*+/ *'-+*,$3$4(.'' .',(+'-. .(," -*'3 .4" 9$'+,$#'
*'3 *'(5+(43('* *"+0 @"4.$" +'-($)(.+,$ *'- ,$',, "
+0 *"$) **(*.' -('0 *+'(,,0 8(.' **('(24(-$,$ *7 * ,.(
) ,'(','-(0$,(.'# *,("-$##$3* ,(+'+*,.+' (+'-$#,$.(*,(+'(+''+"=
-('3$, 8(*+'-6,*,'+-'4.$* $4(' '6+.3)$5 (/4 .'5*(', *"
+,,+*-(*,'(*'+$(*((('('-(.(,'-*'3 .4"(*',$,*+*,/(,'* *+'
+0 *" (.*'5*(/ -+*" $*',+*,' *'4 *'$(*." ('4.$#"(2+,F"
4.(36(*,' ('8',((.(4*) $3+$*/ +'# . ('- ''(. (*,'-'
BF $ (,'4 *..+$,' (,$.'- **(.',$*' 8(*'(6'('('(.0+*,'-*'
4.(,(2,('-(' +''$,*+,$ ' &*,+ ((*,'(5 $0 5 ('-*' D
*+.5 (.' D D
';.77.'5.771.' .67Q, <7.'4<.'>.5 0.1'7 ,<' >4' > 1.; '
7, 1.'><>.?'17. / .<78' =4' '11>7.' =4.'5" ;.1. <,< .'>.'
5"E.>.1'7 ,<'6.'0 ,1<.1'8 ?,41' ;.77.' '<<.. 8 " 4<' QE.'
' ;:'< .'>'<61.J5 6.';'7:.>1'5.'>.' .>'<'.7> 7 6'
5.6' '471.6' .J5 6.6'?'1, 66 '5.6'>4' >.?'17. / .<5%
66. / 05..' '??1,4-.'5" ; ,<>4 7.' >''>.?'17. / .<7
>.6' 1>.<<.6%
% #, ;0.5.7'E' 7'5.;741.'>4<.'6.; ,<>.'5.771.'>''> '
1.;7, 1.' >4' / . / .' >.?'17. / .<7% 'E' 7'?'66.1'2' 6G
6. / 0 ..'<'7 ,<'5.'<4.' >.5 0.1'7 ,<'?1 6.'2'7 ,;;'6 ,<
>.'5" ?1.4-.'>.' ?'71 ,7 6 / .' =<.'V .47'>.'>,<<.1'5.'
*UD'1.J / .<7'> :7'<7.1 .8'; >.-'<7'B.66. > 1/67'>8'
.<'J'1'< 6,<'2' .>'<8' .<' '11E 7'<7' =4.'7,<6'5.6'Q,416'
' :, / / .6'><'1.J / .<7' 6.'1.<>1' .<7' '4 5'71'-'4@'
>.6' E,17 E ;'7 ,<6'>.'5"?5';.'?,41'V 71'-' 55.1'&
66. / 0 ..'#:'1J.' ,<'?1.6 >.<7'> .;1 1.' 2' ;.'1.M
J / .<7'4<.'5.771.'>.'6'7 6E';7 ,<%
% 4?,17'?1>6.<7.'=4.5=4.6' '17 ;5.6' '>> 7 ,<<.56' "
5"5, '>.6'Q41>68' 56'6,<7'>>.1.7.6' ' <65' =4 56'64 -.<7%

8 ' (' ' '! ' ' 1 A'
' ' ' !'

& .,' *%' *,("4 +$*,(" *'-(* *3$+,$ *"(6'#+*U/(*'
)+*5*(. *,%3'#.+*-* ('(/ (*'3 *3 ''$ */ 4(3$$+,/ 0 '-('
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-$.(3,(*.'-*' .('(U(.3(.+' (" # *3,$ *"- ##3(.'-('4 $3(7'
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'(. *,'4.F'(*,F" ' -(" +.F" '4(3$+*U' -+3(*'+,$ *' (,'-('
9((,'
' ' *.'# . (.'L(' *.-''4(3$+'-+3(*'+,$ */ ('4. 3 !'
.(.!'8*-$3/ 4+. $' (" 3$, 8(4" ($$9$) ('/ (*'36 $'$.+''($U('
+8+*,' (" 3 **+$''+*3(" .(+,$0("+*'9 *.('-*'-($,/'*.' ('!'
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-$$' ,(' M
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3 . *.!9(*(.+!'8*-$3/ (5*(/ +'3('(##(,/() $'$.+'0$*9,!'
5 +,.('3$, 8(*" *8+*,' (" 5 +$,("($!-(''*"-('$9*.+'
.' ' .'3("0$*9, 5 +,.('3$, 8(*'/ *'(6',$.(.+'+*'' .,'
- *U('4 .'# . (.'**',+) (+ / (5, (' (,+'4.('(*, 'W +3D
3+'(' *'+*U'+33 '("5*$ +6. *,' ('-. $,'-C .F3*'(.'(*' , *,'
*'4+.,$!'((*U'5 $' ('3 4 '(. *,
" ' *" (" ( ).(" -*' +.Y '4(3$+'5$-'+*. *,'(,(
.(3 '(" '(. *,' .(4 +3(" 4+.' -(" $, 8(*+',$.(" +*' ' .,/
-%+) .-'4+,$+$ (" - *U('+*,.("36 $'$" 4+.' ('4, 36.(*.!'
9(*(.+!'8*-$3/ (,''*)'$-$+$.((*,'4+.'-("3$, 8(*" ,$.$"
+*'' =,%-+*" +' $',(' .-$*+$.('-(" .('
' $/ +*" , ' ,('.(,('-(' +'4. 3(-*,(/) *''(' 3 *!'
. (.+'+*U'. 9("F,+) $("4+.' (" $,.("4.(3(-(*,'' :

'!

d' 17% D.' +*", (" (" 4 +$*,(" ,<' -(* *3$+,$ *"(6'
,+*U/ ("4$(3("+.9 ("-('#+*2''(. *,'-(4 '(("+*'9.(##(/

($9* ('4+.'?('9. (.'(,'.($'('"+*' -$.((,(+.'-+' *.-/ 5*$'
(*'-.(''(.+' **'4. 3 '! (.)+'-(,+$ -/ (("'(. *,''$ (("
(,'4+.+4)(("4+,' *$%7 +$*'$'5+('4+.' +'4+.,$('4 +$9*+*,(' *'
-(* *3$+,.$ (/ ('#'4+.',('4.(0(,,,$'+*' ,+4 (*,'-(''+'(,>'4+D'
#, $ * n' ['M Z
.' ' (" 4$+$*('!'(,'-(* *3$+,$ *"(*')*U'4 +.. *,', *!'
." $.(' .(8('/'5* $5*(' (+'4$(3("5+ ' (*'' *,') (,'
+$(*,'4*' '(.0$.' -('#(-((*,' $' -(('+3,(" -$3$+$.(" 6'
3$8$$($
% .'BBB % ,'-(4 '$,+$.('4) $37 &#',*((', *,'4+.,$3* $(./
$-(4 ($,+$.('-('4$(3("+.9 (("-('#+*U/'(.+',(*+/' -"4($*('
-%+ (*-(',(','-('4.$' */'-(' (" .((,,.(' ',$.% .-.('5*$ (*'
'(,+'- **('4+,' ((.$,'4+.' +'-$.((,(+.'-+' .(7' (5 (' $7'
'(.0$0+'-('- 3)+.9('(*0(.",4 "3(+U'5*$' *,'$*,(.(,'$' +'
4$(3(' % /!' ' M /
" .0' (' % $(("56'4 +.. 6,'(,.(%# .6$("4 +.''(.0$.'
-('3 +$4+'.+$' *''(. *,''$ (("(,'4+.+4)(("$' , *,(" ("
4+9(" 4+.'$:' -$.(3,(*.!-$$' +.(/ 4+.' (' 9.(#$(./ (,'4+.',3'!
4 +$9*+*,' +' --* *3$+,(,/ +$*''$'5+('d=+.' '3(+'('++' =
(*,D-(''+'3 4+.*,$4*'K$' %
' ' (+'-(4 $+$,("4) $3" '(+ "4 *.. *,%,.('3 !'
,.+$*," '# + $.' ("4$F3("-('3 4+,+$' *'5*$'(.+$(*,'(6'
(*0'4 ''("$ * ''*.' .-,('4+.'(3.$,'-*'-$.(3,(*.'-*' +. /
5+$' ,(+.%'(.0$.+'-(' -,()+.9('(+0(," 3(U5*$'4 *..+$(*,'
+0 $.' *,(*,,'F +'4,$ ('E$'(','*(3(''''$.('-('-(4+3(.' *('
4$(('++,)(*,$5+(/$'(*' (," -.(''-' *('3 4$('3 +,$ **((/'
+5*((' * ''$9*(('4+ (' *9('-('4+$2'-*' $(*D M
.' ' .'5 ((", $*" ' (U4 $5*(. *,' '+.' *('4$(3('
-+'4. 33'/$ "'(. *,',("-(' +'4+.+4)(.
.' ,*' $/ -+*" ('3 ."- *('$*',.*3,$ *' *'- *('4. D'
3F-*.(/+*('4$(3('4. -*$,(',(','+.9*(('-('#+*U'4+.'**('-("
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F' $*',. ,$ *'(,'+*' *9((*,'0

+' .'> 1.;7, 1.'>4'>>?'E7E. / .4E' .7' 5" / 4< ; ?'5 7V'
>.' '1 6'6.'?1V6.<7. 7' "5"0'11.%
%7!' < < ! 7' 66. / 05>.'<'7 ,<'5.' " '??7 6'
'-.;' 6771 1 6>' =4.' 5.' >.;1;7 1.<>77' 0 .1' '' >7>8' ?,418'
=4.5=4.6' 6.>77 .4@8' <<' / ,V.<' >.'71 , / ?.18' > .J'1.18'
> 'J 7.1'5.'?.<?5.% <-'1 '05. / .47'77'#77>.'"5" ; ,<6 '
7 747 ,<'E1' ' 6.8'>.7.1 / <>.'"5' 1.'1.6?.;7.1'5.6'7, 6'
?1,7.;71 ; .6'>.'5"5 0.17>8'>.'5"71'<=4 55 7>'Q 405 = 7.'
.7'>.'5'%?1,?1 >7>'>.6' ; 7,V.<68' 66. <05>.<'7 ,<'5.'
<.'-.45'?'6'7.1 / .1'5.6'V.4@'641'5.6' / =4-.= .7 76' ;,41'
?'05.6' =4'>, -.<7' '??.5.1'-,71.'- J 5'<;.% 55.'-,46'
,1>,<<.'>.-,46'6.1- 1' >.'7,<6'5.6'1',V.<6' =4.'5" 5,E%
-,46' " ;,<E V6'?,41' 1>?7 / .1' 5.6' >>6,1>1. 8' .E'>> '
;,4-1 1'5.6' '47.416' .7' 5.6'E7 1>'?,4 64 -1.'I:-.;'7,47.E
5"1 J4. 1'>.6'7, >% 66. / 05..''c'<7''??1 6' =4.'>'<6'
5.6' / ,4-. / .476' =4 ' ,47 .4'5 .4'0 .18' .<' " 1. / '1=4>'
?'46 .416'?'.16,<<.6'>71'<J>1.68' "?.<6>'=4.'5"?1, / ?7.'
.@.;47 ,<'>.6' 71, 6'?1. / .16' '17 ;5.6' >4' >>.1.7'6<1'5"
?,5 ;.' / 4< ; ?'5.'>.-.<' 7' <> 6?.<6'05.N .55.'-,7 6'
,1>,4<.'> .@;;47.1';.'>>.1.7'6'<6' >>5' ' #.6' '17 ;5.6'
6,<7' ' <6' ; ,<;46N %

& ., ' +*" ("0$ ("-('0$*9,' $ (' ('(,'+*!-(''*'/
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4(3,''K
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3+.+,$ *"'(. *,'$*'3.$," ' +' ' -('9(*" +,$* *D'
,$ ** ' .' !K

,E% ' 4 ' '8 ?1.6 >.<7 > '>>?'17. / .<7N .'?4 6 '6641.1' '' 66. / O5E.' <'7 ,<'5.'=4.'5.6 ?1.M ;'47 ,<6 5.6 ?546 ?1, / ?7.6 .7 5.6 ?546 6 1.6 -,<7 71. 1 6.6 ?,41 5.' 1.7'O5 66. / .<7 >.' 5'' 71'<=4 55 7.' ?4 ' 5 =4.%

F 'K H8 / ' 1.N '' :,<<.41'> '6641.15 66. < ' 0 ..'=4.'>'<6 5.'Q,41'5'' / 4< ; ?'5 7.' -''6 ,;;4?.1'>.' .@.;47 ,<'>.' -,71.'> ;1.7% & % 5.' / ' 1.' ?'1' 7 6.'1'M 1.1% +' ' 1.- .<7%P <' - .<7 >.' / '??1.<>1.' J4.' 66. / O5>.' .67 <6714 7.' > 4<'E' 7 =4 '6 .67 ?'66>' : .1% .6 ; 7,V.<6 .<'71.6 J1'<>'<, / O1.' 6.'6,<7 ?1 6.<7.6 '<6 5''14.'>4 ,<;.'4I'<,46 <,46 V 6, / / .6 1.<>468 546 .416 ,EB; .16 / 4< ; ?'4@ .7 7<, % < <,46 ''> 7 4 5 6 'J 66' 7 > 4<.'?.7 7 ,<'' ?1.6.<7.1' '' 6 . / ' 5..' <'7 ,<'5.N <,46 '-,<6 ,O6.1-.'=4.'6 @'>.?47.6 $45.< .<7 ?,411' .<7 -.< 1' '??,17.1'5'' ?.7 7 ,<8 .7 '46 5.6 '-,<6 E' 7 .<71.1'N '5,%16 <,46 '-,<6 '??1 6 4 ,<'-.<' 7 > '11.7.1' 4<'>.6 6 @'>.?47.6 ?,41'4<'E'17 '6,54 / .<7 .71'<J.1' '' 5'' ; 1;,<67'<;.% ,46 '-,<6 .<6.=4 'V'<7'> / 6 ;.6 6 @'>.?47.68 <,46 <.'>.- ,46 '6 <,46 .@?,6.1' '' ?'1' 71#' / '<=4.1' '' 5'' E,' =4 '5.41' ;7' 7 >4.% < <,46 .<J'J>' 7'' 5.' J'1>.1' '' ' .7 '' 5.' E' 1.' '11>7.1'=4'<>' 5 6,17 1' 7 >.' ' .<;. <7.'>4 5 .4 >.'

'6.'<;.6I <,46 <,46 V 6, / / .6 .<;,1.'1.E46. 68 .7 6'' 5 0.17.'54 ' '' .7.' '6641>.'?.<>'<7 7,47.'5'' >41..'>.' 6'' / 66 ,<% < / '??1.<>'' <67'<7 =4 5 '' .7.'11.;.' >'<6 5'' <4 7% ' '' > 7 6 '??.5.1' 1;:'4@8 .7 >71.'>.' .4E;: 7.5 .< 4 66.%

B'N .'64 6 ;:'1J.'?'1'5.';, / 7.'>.'..' > J.1' <6714;7 ,4'641'5'' ?1,;.>41.'?'1'Q41>6I'Q.'>.' / '<>.' '' .71.' '47,1 6>' '' E' 1.' / ?1 / .1' / ,<'71'-' 5' '' / / '1J.8 '5 <'=4 ,<'?4 66.'V / .771.'>.6 ,O6.1-'7 ,<6 ?,41'5.6 ;, / / 4< =4.1' '4@ ;, / 7.6%

'47,1 6'7 ,<'>. / '<>.' .67 ';;,1>..% 5 ' .>. / '<>.'=4.'5.6 ;, / 7.6 ?1.6.47.<7 4<' ?1 Q.7 >.' >>;1.7 641'5.6 5 .4@'> '6 5.' ,4' 5.6 O'<' =4.1,47 .16 -,<7 O1'-.18 >'<6 ,?45.<;.8 ;;4@'>.' 5'' ;,<E '<;.'>.6=4.56 56 ,<7 'O46.%

66. / O5>.1.<-, .'4;, / 7>5''>.7<'<>.>. % '' - J<.%

8 5.'?1.6 >.<7 '<<,<;.' =4.'5.6 ;, / / 66' 1.IN 1.' >';7.4 6 >.' '>1.66.' <.' ?,411,<7 '??,17.1' 5.41' 71'-' 5'=4 ''5''6>'<;.'>.';.6, 18 .7 =4.'5.6';;46' .416 ? O5 ; 6 .7 / < 671.68 =4'< ,<7?'6 .<;,1.'?46.'1. 4< 18 6.'?1>6.<7.1,47 '' 5'' / > / .'67'<;.%

'N ''>7>';:'1J>'> '-.17 1' 66.< ' O5>.8 =4'<>' .55.' 6.1' 7 ;, / ?5.7.8 =4.' O.'4;,4?'>.' 6.6 / . / O1.6 6.' 1.<>.<7 71,?' 7'1>' '' 6.6 67'<;.6I 5.6 ;1;,<67'<;;6 ';74.55.6 5.41' E,<7 4<' >.-, 1' >.' 6.' 1,4-.1'1>J45 E.1. <.<7 '' 66. / O5>.' '' <.4E :.41.6 >4 / '7 <%

+' < >.' % 5.6 6.;1.7' 1.6 E' 7 5.;741.' > 4<.' '>1.66.' >4 > 1,;7, 1.' >4 >>?'17. / .<7 >.' . <. .7 ' '1<.I .<'-, ; '5'' 64O67'<;.N

&' (''('+.(''3 *3(.,((''+0(3' +- $*$',.+,$ *' -+' -(4+.!' ,((*,' -3' .$*3!3 +.*(/ ('-$',.$3,'-(' (+*'(,' +'$ $!' 3$4+ $,3' -(' ''.$(! ,(!O)(.,/ 4 .' (2(3*,$ *' -+' -(3.3,' -+' BH +*O$3./ * +O+$(*,'4+ '4('3 *,.$)+(/ +$*'$ 5+(' ('U((' +'' 3$3,('-('' $''-('+' *',$, ,$ */ +'.(,+) $.' .-.(' -+*'' +' O$?&D -('''.$(D *$,(&O)(.,' '*('.(',+$,'4 +'' 5 +' 4. + *3('.''+.' (''' .,' -(''+33 '('/ . 5+(' +' -(* *3$+,$ *' -3' ')('4$(..(/ 3 *,.((' O '+- $*$',.+,$#''(,'3 *,.(' 3' -3,+36((*,'-(''36+''(+.'' - '.(9$ (*,/ +' . 4+*- '-+*'' 3(,,('8$ 3' -('* +O(++2'9(. ('' -('- .-.('

S' ., 55.O O .<'1.;.-, 1'6'1'<,71.' 1.6?,<6'O 5 7.' '664' 1'<..'=4.'5.6 ;,1?6 '> / < 671'7 E6'< ,<7'1 .<'E' 7 =4 '<.'E'7 .,<E,1 / .' '5''5, I'=4.'5.'>.7';:. / .<7 >.';:'66.'168 >,<7'5.' ?'71 ,7 6 / .' 6 .67 / ,<71.' >'<6 7,47.6 5.6 ,;;'6 ,<68 6 .67 ;,<>4 7 .<';.77.';1;,<67'<;.'>.' / '< .1.'' / .157.1' .67 / .' >.'7,<6 5.6 ; 7,Q1.<6N ,46 '??1.<,<6=4.' 66. / O5..''1.<' ' 7 ''< ., / 77.'>.6 1.;:.1;O.6 4<.''471.'>.<,<; '7 ,<'>.' % ,O.6? .11.8 '<'64Q.7 >.'5'' / ,17 > 4<'>.6 ';;46.6>'<6 5.6 ?1 6. / 6% ,46'6641,5 6 .<;,1.'=4.'?'1'5.6 6, <6I>''>' 1,47, 1.5.6 ?1 6,<6 6,<7'>'<6 5.' / . 55.41' .7'7 ?,66 O5.8 .7 <,46 ?1 ,<6 5 66. / O5..'>.'1><< 1'5.6 >.4@ ;, / 7.6 '4@' =4.56 5.6 >.4@'>.<,<; '7 ,<6'>.' % ,O.6? .11.',<7 .7.'6.

?'1. / .<7 1.<-,V..6% ,46 < '-,<6 > '471.'O47 =4.'5''71'<W =4 55 7.'>.'5'' V555.'>.' K1 . #, / 7. ,O.17N 6' % a,O.6? .;1.' -.47 ?1.<>1.' ;,<<' 66'<;.'>.6 ? .;.68 5 -.11'' =4.'<,46 < '-,<6 ?, <7'' <,46 >.E.<>1.G 4'1.67.8 5'' ?1,;.>41.'?1,'' ' -.1'' =4.' 5.6 .-.<. <.<76 =4 ' ,47 .4 5 .4 >'<6 ;.77.';7.' <,<7.7.',;;'6 ,<<.6 =4.'?'1' ' / O 7 ,<'> 4<'?.7 7<, / O1.' > O, / / .6 >,<7'5'' E,174<.'>.5'O1..''-' 7 '<'O.6, <'?1.66'<7 >.' '<'1;: .8 .7 =4 ''-' .<7 71,4-.'5.'E4<.67.'6.;1.7 > .J'' 1.1'5.'?'71 ,7 6 / .'>4'?.4?5.%Y'& 66. / O5..''??5'4> 7Gf

< >.' % 5.6 6.;1.7' 1.6 6.'> 6?,6.'' 5 1.'5''?'17 .' >4'?1,;7. -.1O'5'=4';,<7 .<7 5.6 >. .1.76 1.<>46 O .1% $ 41' ,O6.1-'7 ,<'E' 7.'=4.'5.6 71, 6 '17 ;5.6 >.'>>' ;:.'<;.8 ?1,?,6.6 ?'1' % '55.68 ,<7>7.'>,?7.66'4E' 1.>';7 ,<8 66. / O5..';:'1J.'>.'5'' 1.>';7 ,<'>.' ;.' '17 ;5.6 5.6 ;, / / 66' 1.6 1.>';7.416 >.' '>1.66.' >.' .1>7..';.' / '7 <%

'' 6.'<;.'.67 5. >;''' =4'71.':.41.6 .7 >. / .%

! '& 8 ' ' # '$5 'V' 5L .-D)''$'BH&' , ' T%',.+9(-$(' 8.$5,(.-'BH/ 6! O ',.+9 (' (,' ' % .$ $ / 3 (-$('V' .-) $'BH/ ' ' ' 4' (,'& ' ! B '!O (' -(' $36($('V' .-6 $'BH/ ' ,' '- 8 4 'V' .-'BH/ ' O '3 (-$(7 '*' ' 4'(,',$ 4 .+!# $(D $ $ O' / + ' +'$'! 8+' V + +.-D) $'BH/ ' ' (,' + $ % '+ ' + +$' 8+ 'V') +.-'BH/ '8 4)' -@+8-*7)+)+8('36+*,(.'' *'+$.'-(' - / ' J ' (2 ,(.+' *'3 *3(.,'-('6+ ,) $'7 ' +$ +.-'()+*,(.+7 *' ,(. $*(.+'4+.'(' - ' -(,'- 'N (*','$,(')+ & 'V' A'BH/

2 '& J!' / ' (/ 3 4(,' ! & <$ % '+') ,(O+.-' - ' (4('V' .-'BH/ 5 4+*, $ (7 ' 4 .+7 (,' (O $) ' (' +$*,! +.,$*']' .-'BH/ ' +' -(+*-('9 * .+ (/ + ''7!' / (,'B % D &,' ' ; % ' ',8 % 'V' ,8 .-'BH/ 1 *' '& ' O + $ &' '$'' O /.+('- ' +$/ *&' BT' V' % ' O&.,' ,*''(' '' '5$$ ',((')(*.('5 $'4 +$,'F' ' ('' +) +!' *(''-8 .(',(.

.! ((7 '()'/(7 ()' '(' ,+ (,#'(#- , , ('49(' .! /) $''4.($(.'' $'' BHTB' ' ('' +8(.''' $$,' \' +' (,,.(' ' ' ' % '@ ' 'GI' ' '

',(.-+ ' ' ' FF' 7W' [E' +-.$-' ' BEB BP'' @+) *.9' ! PW *('' ' ' B\ *-.(''' % % WP' P7 G 7F' $O + (' % % C +-$2 BEB' BP +'8' 8 */ $, % 5\%

' ' BG 3

3,$ *''-('' *-(''-(' PXII' O' ' CCY 8 (.,$ *''-(' BGII' O' M+$(' PBW $O ' BI'+ ' V' -(' BII' * TB 4.**' - (,).('-('XII' $O' ' U* $,(.$('- ().(' BHEP/ +' FII' $O ' 7' ' ' ' 4.**,' -(' -(3 'BHEW/ 5 $,,+*3(' -(' #$* V' -(' BWX $ $ *'/ -(3 'DBHEF' I'P7F/ [W/ $7F/H[T)]' -(' EI' $ $ *'' +O(3') (,$*' $,,+*3('' -(')*''+*'') (,$* & '' ,/ (*' O $+9 (. (,$*' ., $' (3 **+$''+*3('' -(') (,$*'' K K K & & ' 4. *,'-'- +$*('-(' +'O$-(/ '-.$(' ' ,$(' ''' .-(.(+ 2'4. O(*+*,'-(' '(.$('* *' ',$(' ' K 3,$ *'' * *O' -('' *-('' BBGH/GE/GH/GG/GX/GI/GB/ A A +$''('-('3 4,(EEEI/EX/ TI/TII.' ($!3+$''(' 3< 77'<;.'>.6 .'<@'>.' +*'' ' ' 8 8 8'U 89 8 / ?1<<7'>.'<,-. / O1.' BHEH/ $,'G' 4' % +' & ' 'F' ?%' WID% % % 8 V' -($ *'/ -+ -,' BHE! ' K +$ '' .+*3(''3 *,.(' ('' $*3(*-$('' ' GGI/XX/ GI/FX/ +'O $(XEH/XG/

4 "

@ ' 0 ' ' ' 8 ' GFF '
' '8
1G d '

.' - ,46 > ,<<.' ' - 6 =4 5 > , 7 '11 - .1 <; .66' / .<7 >'<6 '? / 16 4< < ,4 - .5 'J.<7 >.' ; .77.' ; ,41%%%% . 5' 5.0 6'<6 ; .66.' 641 5.6 71'<J.16 =4 ' - ,46 - .<< .<7 I 7 ,<6 6.' > 6.<7 ' ' ' , & I 7 ,<6 % / .<' , .<75'' 1'<; .'>.6 '1 / ..6 >.' . , ?, 5>% ,46 5.6 .<M 7.<>1.6 7 ,<6 ? ,466.1 ? ,41 5'' 5 0.17V >.6 ;1 6 '0641>.6 8 .7 - ,46 < .<71 ,4 - .1 .0 ? .47 71.' ? '6 4< =4 'E'66.' .< E' - .41 >.' 5'' 5 0.17V 4< 1' 6 ,<< .1' .<7 64?? ,17'05.%

<? '15.' ; '> 4< .' < ,4 - .55.' '55 '<; . Q4 6.1'' / .4@ =4.' ' .<7.<> 6 7 ,<6 5.6 Q ,416 >.6 J.<6 6 / ? '7 .<5.1 >.' ; .' =4.' ; .77.' ' & ' ' <.' 6.' E' 7 ?, <7 ;< H1'<; .8 / '5J1 ' 6'' ' .4) ' > ?'17. ' / ;<76% # .67 ' <6 ' =4.' ,< 1' 6 ,<< .' >.' - ,71.' ; ,<67 74M 7 ,<%%%%%%%%% #.6 1'< ' 6 <.' 6'41 ,<7 6 6.' 0'771.' =4. ; ,<71.' .<< . / Z , 8 Q.' - ,46 > 68 6' ; .5'' .678 - ,46 7.6 0 .< E ,1768 .7 ;%

1% ,<>1.7% + .J ,4 - .1< . / .<7 ; ,<7 <4 .'?'66.1>. ; ,< ' 71'76 ' - . ;5.6E ,41< 66.416 >.' 5'' / '1 <.I 56 - ,<7 E ,41 ' < 1 .<; ,1.% <; .66' / / .<7 '4 / 'J'6 < >.' - -1.6 >.' ,176 / ,47 :' ; <= ; .<76 6' ;6 >.E'1 <.' .74< .=4'<7 7 ; ,< ' 6 > .1'05.' >.' '57% < 4< / ,78 ,< 6.' ; ,<>4 7 ; , / / .' 6' 5'' J4.11.' .7' 7 <. - 7'05.I 5'' 6.45.' / .641.' =4 6. / ' 05.' >. / .<7 1 ; .77.' >. .8 ; .67 = 5 < .67 ?546 =4.67 ,< >.' / .771.' .< ; , / / 66 ,< ' ;4< < ,4 - .'4 - ' 66.'4% '' ?1.66.' 6.' 64 7 7 ,4Q ,416 ' - .; 0.'4; ,4? > ' ;7 - 7.' I 5'' 6.45.' > EE.1.< ; .' ; .67 =4 ,4 1. / ?5' ; .'5.6 J.<6 >.' / .1 71 ,? E' 05.6 ,4 ?. ' 'J4.11 68 =4.' 5''<9 ; ;66 7.' ' - ' 7E ,1 ; .' >.' ?1.<>1.8 ?'1 >.6 / '7.5 ,76 ?5. <6 > .@?.1 .<; .' .7 >.' ; ,41'J.' I ,< '' / . / .'1. ; , / / .< ; .' ''?1.66.1 641 5'' ' ' / 6.' 5.6 .=4 ?'J.6 >.6 <' - 1.6 / '1;0'<>6 >.' 1.7 ,41 >.6 <>.6 1 .<7'5.6%

@

' : ' ' (' + ' .'6' <7 6' ;1. / .<7 '' .7.' .@M ?, 6.' ?.<>'<7 71, 6 Q ,416 8 .7 5 '' .7.' ; : '<7.'4< < ' ' >'<6 .J5 6.' >.6 ,5 ,<' 68 .< ' ; 7 ,<6 >.' J1' ; .6 >.6 ' - '<7'J.6 =4.' 5'' < ,4 - .55.' ; ,<67 747 ,< >.' ,5, ' J<.' '6641.' ''5'' 1.5 J ,< ; '7 : ,5 =4.% .' ?'?.' '' '66 67.' '' 5'' ; #1. / ,< .8 ' ; ; ,1>'<7 >.' J1'<>.6 <>45J.< ; .6 ''7 ,<6 ; .4@ =4 ' ,<7 ; ,<71 04.' '' ; .' J1'<> .- #<. / .<7% .' ; '1M > <'5 <7 ; 8 'J.<7 >41, ' .7 >.'5'1.?405 =4.' >.' ,5, J<.8 ''>4 .71.' E ,17 .7 ,<< .' >.' 5''5'0#1'5 7.' >, '6' <7 ?.1.8 '77.<>4 =4.' 5'' ; ,<67 747 ,< ?, 5 ,<' 6.' .7'05 7 ,<.' 7 ,5.1'<; .' 55 ' / 7#.% ' 6 =4 .< > 1, <7 5.6 H1'< ' 68 .4@ =4 ' ,<7 >.M ;5'1.' =4.' 5.' ; 455.' >.' 5'' / / .' 1.5 J ,< 6.1' 7 5.' 6; 45 ?'V.' '4@ E1' 6 >.' 5'' '<'7 ,< 8 .7 =4.' 5.' ?'?.' ''?1. .<>4 '<'7 : . / '7 6.1Z .67 5 ?'6 . - > .<7 =4.' 5.' 6 ,4 - .1' < ?, <7 E.' .>7 ' ; ; .?7.' 5'' ; ,<67 747 ,< ; - 5.' >4 ;7 ;1J.' >.' H1'<; .8 6' <71 J4.' .7 5'' / '4 - ' 6.' E, '>.6 1. - ,57.6 .7 >.6 / . ; ,<7.<76 < .466.<7 .<J'J.' % % '' 6. / .1 ?547 7 '4 / 5 .4 >.6 1'< ; ' 6 >.6 J.1 / .6 >.7.67'05.6 > 44.' > 6; ,1>.' ; - 5.' Z

*$ ' ' ' $"

$ "A AG ' '- ' (* % + ' '<6 5.' <D > ' g Q4 55.7 > 4< .' E.4 .' '??. >.' ; >. - '<7 '- ' ' ' .7 '4Q ,41> :4 ' , ' 1 ' ,< 5 7 =4.' 8 'J'1>.6 <'7 ,<'4@ 6.' 6 ,<7 ?, ;7>6 *41 5.' > 57.'4 >.' % .0'1> >1.8 .7 ,<7 / 766' ;1>71.<7.' ; \
h' ' + ' < ' '.

7, V.<6 =4 ' ,<7 / ?5 ,1.' .< - ' <' 5'' ? 7E> >.' 5.416 0 ,41 ' 1.'4@% \

546 5.6 .<< . / 6 >.' 5'' # ,<67 747 ,< 6 .EE ,1; .<7 >.' 5'' 6 ,4 55.1 >.' 5.416 - 5.6 ; '5, / < .68 / , <6 5.6 0 ,46 ; ' 7, V.<6 >, - .<7 <.J5 J.1 >.' >> - , 5.15.416 / '<, .4-1.6% ,<6.45. / .<771.<7.?'17 ;45 .16 < ,<7 ?'6 >7> / '6M 6' ;1.68 / '76 5 < V '' ?'6 .4 4< .' 6.45.' J ,477.' >.' 6'<J - .16>.% '5.' E.4 '' > .' / 6 ''5'' / ' 6 ,< >.' % .0'1> >1.8 ; .' >. 7 < '' ; .17' <. / .<7 .7.' ; , / / 6=4.' ?'1 <4 6.<7 > - >4% c < .' >, 7 >71.' / ?47> < ' ''5'' J'1>.' <'7 ,< '5.' >.6 '05.6 > 5, <<.8 8< ' '<' >>7' ; : . / .<7 >.6 71 ,4?.6 >.' 5 J<.' .< J'1< 6 ,<>'<6 ; .77.' V 55.8 ?4 6=4.' ; .671 ,4M ?.6 ,<7 E' 7 7 ,46 5.6 .EE ,176 ? ,66 05.6 ?, 41 ' '11>7.1 < ' ; .<> .% '> / < 671'7 ,< >, ' > 671 ;7 >.6 '05.6 > '$ 5, <<.' 5.6 ' - ' 5 1.=4 6.6 >.' 6.' 71'<6?, 17.1 W 5'' / ' 6 ,< >.' % .0'1> >1.8 ,> 5'' 1>4< ,< >.?546 .416 ; >.M - '<7 J.<7 56 : , / / .68 5 ,16 >.' 5'' < ,4 - .55.' >.' 1> - '6 ,<8 ' - ' 7 >, <<> >.6 <=4 >74>.6 '4@ ; 7?V.<6%

> 7B ' 5 ' # %

' *Q77 <% + ' .' ; 6 =4 4< ; ,4? > , . 5 641 E'' 6 74'7 ,< ' ;74.55.' >.' 5'' # ,16.' <.' ?. <7 =4.' E' 1.' ?5' 6 1 '' <, 6 0 ,<6 E1.1.6 >.' 5'' H1'<; .' .7 '' 7 ,46 5.6 ' / 6>.' 5'' 5 0.17.%

.' ?.4?5.' '' >7> 71' - ' 55> ; ' ' - . ;<<' ' ; : '1< . / .<7.7 4< .' '674 ; .' 1' / .<7 / , =' ; '5.% < >J'7 < ,46 '' >7> .< - , V.I 4< 01.E ?'17 ;45 .1 <, 46 ''>7> '>1.66>8 .7 >.6 5.771.6 / V67 =4.68 1. / '1=4'05.6 ?'1 5.41 .@71. / .' 1 M > ;45.' .7 5.41 ' / ?: J ,41 8 ,<7 >7>6. / . .6 ?'17 ,47I ,6 '1 67 ,;1'7.6 >.' '1 6 <.' 6.' 6 <7 ?'6 < ,< ?0 6 ,4 ' 05 >6I 56 ,<7 ?, 17> '77.<7 ,< Q46=4 '' E' 1.' 71'>4 1.' .< 7'5 .< 5.416 ?546 ?5'7.6 01, ; :41.68 .7 5.6 E' 1.' ; 1 ' ;45.1 6 ,46 5.'7 / 01.' / > / .' >.' 66. / 05>.' <'7 ,<'5.%%% ' 6 5.6 ?'71 ,7.68 =4 '6 ,<7 ; ' .< 71E.6 J1'<> <, <01.' 8 .7 =4 ' ,<7>.654 / .1.68 ,47 1.<>4 5.416 / .<. .6 <E14; ' 74.46.6% <.' 6 , ; .7.' >.6 / 6 >.' 5'' # ,<67 747 ,<8 6>'<7? '' Q' ; ; ,8 ?5. <.' >.' 0E.5.' .7 > <671= ;7 ,<8 / >1 7.' 641 ' 7 ,47 4< .' / .<7 ,< ?'17 ;45 .1.%

#.' E47 '' ?.< ?1.6 >'<6 ; .7 .7'7 >.' ; : ,6.6 =4 '11 - '' H>? , =4.' E @>.' ?, 41 5'' < , / <'7 ,< >.' .->=4.' >4 > ' ?'17. / .<7I 1'66. / 05.. .5. ;7 ,1'5.' E'7 ; ,<V ,=4. .' '' K' 7 '% # .77.' 55.8 =4 ' < .67 =4 '' (5 .4 .6 > 4'E .8 ?' ' 1' 66' 7 > 6? ,6>.' '' 6.' 5' 66.1 .J'1.1 ?'1 5'' 7 ,410.' 6' ' ; .1> ,7'5.% # .67 >, <.' 641 .55.' =4.' 5.6 E' ;7 .4''' 6.' ?1, ' ?, 6 1.<7 >.' > 1 J.1 '77'=4.% '< ; .< .->=4.8 % .1 ;5 ,E8 .47 / > / .' '4>' ; .' >.' .< 1 . : '1J> >.6 / 6M 6 - .6 >, ' ?'?.' I 5 E47 ' ; #4. 55 8 ; ,<>4 7 '' 5 ZJ5 6.8 , 5 5 ?1> ; : ''5''1.0.55 ,< .< .@: ,17'<75.?.4?5. ''E' 1.' 6; 6M 6 ,< ' - .' 5'' H1'<; .' ?, 41 ; ,<6.1 - .1 5'' E, % % ' ,5 ' - 7 '5 ,16 =4.' ; .2'' ?, 4 - ' 7 >. - .< 1 6>1 .4@8 .7 ?1, E 7'<7 >.' '6 ; .<>'<7 =4 .54 '> , ?< .<76.6 - .1746 .76 ,< >5, =4.< ; .8 5 1' / .<''5.6 . ?1 76 >J'1.6 .7 ; '5 / '' ; .77.' 'J 7'7 ,<% .'717. 6' <7 ?91.' . 47 ?, 41 6.6 ?:1'6.68 .7 % .1M ;5, E ?, 41 6 ,< - , V'J.' I 5 6 .< 1.7, ,1<''1.<>1.' ; , / ?7.' '4 / ,<'1=4.>.66.?7; ,55 <.6 > ' / '5:.41. @6<..E.6 >.' 6.6 ; , / ?5, 76%

'E'55' 7. / ? ; : .1 ; .?.<>'<7 =4.' '66. / 05.. ' <.' .' 71, ->7 ''5'' > 6?, 6 7 ,< >4 ?.4?5.8 =4 ' >7' 7 54 / > / .' ''5'' / .1 ; ' >4<.' ?, J<>.' >.' E' ;7 .4@% .' >>?'17. / .<7 E 7 >.6 ; .<>1.' N 8 ' J'1>.6 <'7 ,<'4@ >.' 5<7.1 .41 N > - 7.' ; ,<67 747 ,<<.5 E47 < , / / >8 '' 5'' 6'7 6E' ;7 ,< J><.1'5.%

.' / , 6 >.' / ' '6.' ?'66' I ,< ;1, V' G% 5.' ?.4?5.' 1. ' .<4 >.' 6 ,< .11.41 8 .7 5.6 / ?, 67.416 =4 ' >J'1' .<7 E'7 J4.6>.' <47 5 7.' >.' .416 / '<, .4-1.6% % ' ,5 ' E47 ,05 J> >.' .'1.<>1.' '4@ 6 ,55 ; 7'7 <6 >.' 5'' ?'17 .' / >1 1 > ,<'5.' >.' 55.8 , 5 5 < >7' 7 ?'6 .< ; ,1.' 'E .%%%% .6 ' E' ;7 .4@ ?1, E 7 .<7> .' ; .' / , / .<78 =4 56 >.6 J< .<7 ?, 41 >71.' ; .54 ' >.' 5.416 71 , / ? : .6N 56 V 1>466 1.<7%

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7% 1 67 >.'>, .757 :,,'16$'V'<7,<-.17 7/.'6,,6;1?
75><'?,,E K.1/./.,7?'17 ;<55.18>,<7 ,0 0.7>,57,71.'>.
1.> .1;:.1;, 0, <7. ,.<7'-.;5.6-' 66.',6 .@? > .6?'1'5.
J,,-.1<./.<77, ,7;,'=,'?.<7'-, 1'6'1- .4'4'<'4#1'J.'>.
% '?.V1, '6.8 .7>.'E' 1.'.<64 7.'5.',,//.1;.'>.6 E,41;41.
5" ;97; 5,1>G,,67>. /.15;1';8 '-.17 7 5.'?405 ;'=4
;,/?7;'?'177'6.66,46;1?07.416?/6..16,E5 .16>.'5" /'M
1<.'0 .<;'?';05.P >.04J.1'>.'6" ;'?';7# .7>.'5" 64E756'<;
>,6.6 5,,V;<60=4 5 "?1>6.<7 5 7 '6./0 .<'7 ,<'5.4<.
?.77 ,< 7.<>'<7.'5;.'=,,<'54'?.1/7>' /.1'4@E1' ">6
5" 6,4 ,15?7 ,< 4<>.6'0 7/.<76>. 7'7= '<.'E,<715.<
>'<6 5. ?,176 I=4.'6">./'<>.' 7.'1.<-,V>.'4@';,/ 7.6
>. /'1<.'.7>.',,//.1..'1>4< 68>,<7 .6?1.'4<.'1>?,<6.
E'-,1'05.%
8 75?.<7 '66,1.1=4.;E7.'E'-.,1>,<<.1" '5"E5<>. .@?
>7,<4<.'>,405.'-'5.41'4@'; ,<6%
#.6';7,<66,<7>.'K' 55-%8 5.6=477'<,."6,<7>.'5" /,5E5
>.'#.77.'6, / /.8 'E5< >.'6'76< 1. ;.,@ =4 .'-,<>1".<7
;,<71 0<.1=4.'?,41 (.<71.?1 %

7 '6,776.17 '>. '1 68 6, 7>.'5"?1,-<;.8;:.7 %>.
5"0,1>.8 ?5;,>4 #'11,46.58 .7 ,< 1.J,7;.0 <' 4
=4. .0.0 % >" .77 ; .4'168 14, .7 .7.5 '<7 !.,J.68
7,46=.61.<6. J<. /.476 1.5'7 E6 ;?1,0.7%
<1.<>1" '1J.<7>'< '71, 6 /, 6 ;,/?7.1'>4' 04 55.7
6 '1/./.<7< "?'6 5 .48

N%

.6?'V.,B'>..'1.<7.6'.7>.. <7>1#76>.'5">.77.'?<05 '.8
;,<E,1/ /.<7'4@> ;1.7.'>.'1<66./05 '<'7 ,<' .'>.6 0U04 "
>.1< .1' .7 'U4'?1 6.<7 /, 6>.'0, 55.78 <.'> -1.1,<7'<G
;'<6>.6 >.<116=4 '5.771 6,<7> 671 0' ?,'1'5.41'6.1- ;.8
',@H1'<?' 6?1,?1 7'1.6 >.6> 7.6 1.<7.6,4 <7 1 768=4 'G
?1.6=4 576',1,<7 0467 E7.
'K<'?' ./.<7>.'5.476 /?,67 ,<6>. '<<.. (* I
CG0<'?' ./.<7>.6>.4@'7 .16 ;:46>.'5.41;,<71 047 .<
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p ' .'77.67'7 ,<>.'7.'1'1 65>.<;.':'0 74.55.'.7';7<.5
.4 1'<;.8=4'7.'1'6.1">.55-1 .'?'1'5" /'<;?'57 '>4'56"
>.'5.41'>,/ ;5.%
'5.6 611 <J66 1.=4 6 7' .07?,41'>.6 '<< .6'/.1 .,1.6
" (* 8 .7 ?1,-.<' [7>.'64;;.66 ,<6 .04.6 '4@'H1'<J' 6
16=4 1'<7..6?' ./.<768>'<" .6.'6 56'04'7 E .1,<7 = 6 66
> 61',4'5.416 6,;;.' <68 ,<7'?'V '5.6 /?,67 ,<6>.
'<< .'<7 1 .41.''4@'> ;.6% %
%]'5.6>./'<>.6>.'?' ./.<76,<7E' 7.6?'1'>.6;.66 ,<<'G
1.68=,<75.7 71.'>.'; .66 ,< 1 '?,67 7 .41'U5">'7">" U0<8
> <6;.' ;'6 5.6?'V.416>.61.<7.6 .@ J.1,<75.'0<6 E5.'7 ,<6
; >.]6<6?1.6;17.68<,<6.<5./.<7>.'5"?'17><;.''7, <'1.8
/ '76 .<;,1.'>.'5"?'17> . >'<7%8
.6'77.67'7 ,<6>.'1.6 >.<;. .7=4 77'<;.6,<><?5;'7">.
=4 77'<;.6 6.1,<7 ?1.6.<7 6 '< /,/.<7 7.6 ?' ./.<76 .7
1.<>46 " c"?'17 .'?1.<'<7.%'?1 6- 1 .'7 ,<I 5 .7.<0. <7
'4@';,<71 5.416>. '1.<7.6>.'E' 1. / .<7 ,<'><-''>.6?7;.6
'4';,<71 5.'>.6?' ./.<76>.6?'V.476%
,41'5" ?546 7/';7.'- 1E5.'7 ,4>.6? ;.68 Y1 7 .16'6.G
1,<77.<46> > ;5'1.18,<E' 16> ;5'1.1'?'1'5.416?1,;41.<<8
55'<6 5.6=477'<;.6>.'5.416 1.<7.6?.1?;74. 5.6 .7 - 'J 1.6856
5 .4 >.'5.41>./6 1. :'0 74.5 .%
.6?'V.416>.6</7/'??411,47< '</,<6?'V.1'6'<65.6
0,67E .67 ,<" .@J .6?'1' 6> ;1.7>4'CU 0< <8 ' <6'=,6 5"
E';457 '5.41'.<" 7'>,<< .'?'1'5.'> ;1.7>4' /55.7?1 6.'7
/, '85."1.<7.6,< <7 1 7">. -%<4''<G>.66,<6%
B'56 6 5. / ./.'?1,?1 7'1.'0,4 7 >.'?5<6 .< 61.<7.6 ,<
?'17 .6> 47 1 768=4 87 << 68.@;.>.1,<75'6,//.'>.' 8
>'<6;.' ;'6 5.6?'V.416>.61.<7.6 .@ J.1,<75.60,65 5.'7 ,<6
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0'<6, '! & ' % '/,<7 ."0 -'577 KG
71 =4 4<'?.77<,/01.'> <7.<7 ,776>1' / '7 = '.6'6,47/'6'
>4<'67V5.'J1 '05.'.7>4<.'-.16 E;'7 ,<?=4'<7.% ,<'7'7,7
'-'7 /, <6?'14'>'<6'5"7, 5.77.'>.'E<5 .' ;.6 > 7'0 ;
67V5.'<,/' .<7=4 / ,'<. '6'<'?.<'71,?'46 I / '6>'6;
8=<,<'">,<< '> / '<.0.''4 / /.'7: 71.8,66'
<.' ;,47 ?546 :.4;.4@8 ?546 7: 71'58 ?546 646;.?7 05.' ;
> -.,??./.4768 <' ">,<< '7 ,..'6 ,<>.'> ?5,V.1'>'-'<G
7'J.'6.61 66,41;.68 .7;,'7.'? ;,' ,07.<4'4<'6<;; 6#,<75.5
#.'6,<7>.4@0.4 .6 ?,<@8 :'0 7'<7>4<'-55'J.8=,'6
/.<70.'4;,478 /'55=<5 .'=4.1.55.<7 6,4-.?7 6
.,//.'>.'1'6,<8 <.'-.<70'/'6; >.1 5. /'15 .67
>,;5.8 /'6 56 .<'5'66.%7 <'-,6<=4'" - ;< '5"-55..7
'<?1 ">.6J1'<>6 ;<'"?1 65.6 /;.416 ./?,6,<< .6% <6'G
1.<@>.'5"0.<<.'E. //.8 5'6'77';:. .<71.7.<1'5" / 6'7.5
5J.<;.'>'<6'5. / <'J.% <E<7'<7.<1'6<??,6.'5.'> ;1.764
5.'> -,1;.'?1,<,<; 88 .6>. @ ?,4@8 '5"?1./ 1.='. 55.8
6' 6 66.<7;. /,V.<>.'6.'6 ?'1.1% .7 V 6,<7 .<;,</J/?615.
-, 6 <8 '5.41'54 <. <04J.'>.'?' @8 :, //.':,<4 7.8J48
'?1 6'-, 1'7,477.<7 '?,<1'5. '1';.,4<4,>.18 E. <7>.'6.'?'G
7.1' '5.41'E <7'56 .8 .6 0.4<.6 J.<6 ,47%<<' .<7,<51 5.'40.
?1 -, 7=4.'7,<6>.4@'-?4>1,<7?,66 >.1 .7 ,00.7>.'5..1
'/,41I .67, '5'5.6'77.<>% .<< <7 .67> ?47 ?'5.'&0.
.75" / 1.I ,,<6457 ,540/ /.'641;.54'4=4.5'5-.<76?Y1
7.< 18 5'1 ?,<>7 ! #.'/,75.61 .,<;5.%5.6 "
7 7 ,<6><'-,56 48 > -,5 .6?'1'5.'04J.8 E5< 66.'7?'7 <
;5'1.1% '-,4.'545 / /.'"E'47.'.7,<'54'?'1>,<'.%
'/,1'57 '>,';.77.'? ,'.'7= .'5.'>-,1;';:?.,7 74
?.1/6'4@ ?,<@=4',<7>.6 .<E'<7'% '47.41'<.'6,>7 .<7
?.".;.77.'70 6.'-.;',<.'5,J=<.'0 .<E,17.8 /'5" 5V./?0.
'4'/, <"0.'4;,4?>.'6.<7/.<7.7>.'-.16:.'1.>@%
.'7E,17 0 .<0,4 .% %

" / e

K E ZW 8

8 ! R8 6*' '= A

5 '3)

5%

W' "% W<6'7.';'6 ,E7 Y?'17 .'> ,5'1.1' 7=' '55.'.< >' *
6.1- 1' '5"? .;'8 <)71<Z7 , '64-'5.'E'7 6'6.1"6< - ' ' - 5.'
/ .<7>.-'<7'5.'71 0<<'5'6' 6'>.' 'E ' 1.'?1 <;5?'5.%
4 "% E' 6'6' 5" ?'17 .'=<' " ' >'>.'E'7 @'5" ? ;.'6.<7 .<7
=<.' ;.57 '=<' " ?1,>< 7.' .67 '<7.<1'>" 0<@8' ';;<6'7 ,<
6.1" 6< - .' ,1 / <.55. / .<7>'<6'5.6' E,1 / .G .5 >.6646'?1.6,15'
7.6% '6.1" '<16 6' '<Q<J. / .<7><'?1, . . '8'Q<6=< .?1 6'2.U<J.\
/ .<7>.' ';;,6'7 ,< .<'5'<@%
" "5% .6'?1,; 1.=16 J><G1'=" I<> W68' 5.6' ?1?.<1.< 6'
6V<> ;68'P.6' ?1. .<1.476'>.6' ;, / < =<.68' 5.6' Q4J.68' ' <6 =<.'
5.6' ,EE ;, .16' >.' ?,5 ; .8' 6.1.<7'7.?=6'>.'?.<16< V. .' .7 >.'> '
<,<;.1'7,<6' 5.6' '<7.<16' .7 ;, / ?5 ; .6' >W E7<@8' =4 '? .411,=7
.< 1'G5.<1' ; ,<<' 66'<;.8' >'<6'5"E,1 / .' ; a .6677'6' ?1.6;1 7.%
:' / %$$3$(.' 4) $3'4 *.' $0+*,/ +$*' '5*('$('4 +$9*+*,'
*' - - * *3$+,(5./ 4 . . *,'4.('(*,(.'+*' +$.-' - +33*'+,$ *'(,'
D'3($'-(' *9((*,', *,(" '4$(3("(,'4.(*0("-('#+ 27 +$"
+3('-'*(' 4 '-,.(' (*,.+$*,-(*'4. - $.(*'(*'#+).$!'
5*(.'+ 3**($
" " < 8' '4<' 71 04<'5'71,<V.'>'<6'7" - 6 7.' & 4='<1,?. 8'
/ > / .' ; - 58'>.6' <> ; .6' =<' ;,<>4 6.<7>' ; ,<<' 71.' 1'<7.=1'
> <<'E'4@8'5.'?1.6 >.<7'?,411" >?EE5; .8'6 55' V' "5 .<8'>>5 - . .E'
5.' / '<>'7'> ' / .<.18' .7'1. / ?5 1'>'=.7>J'V>'5.6>,<;75, 6'> , '
E ; .1'>.'?,5 ; .% Y
Y " % ,16=4.'>.6' '.7.6' '47: .<7 =<.6' '<1,<7>7>'>. .5'1.6'
E' '@8' .K 7,<7,<' .<' ?'17 .8' 5.<1'1>7'05 66 / <.<78'E,41'1'> 'M
7 ,< ,4'1>1,1 / '5 .<6.1" ,1>,<<>.' ?'1'5.'71 04<'5'=<' '<1"
<J>' '??.5% .6'?5';.6'>.'. , / ?'1' 6,<6.1,<7'1.<-,V>.''<1\'
5.8;0' / ?'>'<6'5.6'>>?> 7'>,?7' 5E' ,47'>7?'7 1>68'
" " R '<6'7,47'5.'1.67.'>.'5"?1, ;>>41.'5."1.J .6'?1.'.1 -'
7.6'>.<6'5.6' J71.6' . >.66="6?1.?7'<0' .1V. .6IY

" !B 'W K/' ' K%

<7'55.;741.' >4 ?1'E.' .10'5 UZ ' E<'<;.' _*
-. >1.>' / '7'<%

% K, 6 '4 K .'<.'V, 6'?'6'=< '6, 5'==.6G'
5 ,<' 7E4<J' 5" ??, ;.6 V.15 '5' >4<.'>Q6?36 713<' '>,?7>.'
6'<E'1.>';7 ,<8' .7'=4 '.]71.5?7 V;' J4';'6'? ' T1, ';,<6G
? 1. ' 7 ; ,<71;' 5'78

< "?, <7'.7.'>.;1;7. .8
' I' 'V' ' B 'J1'<>'<, / 01.'> '<71.6' .'6' >.'
>.;:>'<;.' "?1. - , 1NQ.>. / '<>.'=4.'5.J' .?5Q 7 J'?1.1'
J.<7.<7'641' '64Q.7'<<.'c, ';, <?5 5.%
" ?1,?,6 7 ,<' >.' % K':.V' .67' 1.<-=V>.''4@'X3
EE5 7 6%
.6' / < 671.6'6,?7'?1.6.<768' = '$ '?V>J >. 17'$ '
>>1.66.'5"?'1,5.%
' ' I' 8 66. / 05>.' " > 6 1.' =<.'V,46'
?'1466 .J'>.V'<7'.55.'?,41'=< .55.'V,46'1. , , [/ '<>>7
87,<6'> . / ?5,V.1'7,<6'5.6'? ,V.<6'=4.'5" #,<67 747 ,<'
-,46' " ;,<5 .6' ^ ?41' .6.; 5 , '>.6' > '.7'5.' / ' <7 .<'
>.' ,1>1.'?4: ;8' .'? ";5 '1J>6<17,47' >.' >,<<.1'
5.;741.' " 1'5.<7 < 671.'>.'5" 467 ;.'>4' >>#H.7=< .75.'
"1.<>4'. ' ['7 = ' " . .'6<Q.7%
'$ '(, & '$ ' '&
' ' 7E46 K' '5 74 ' ' 66.? 05>.'?.47'
Q, / ?7.1'641'<,71.'LF '.7'=4.'<,46'. / ?5, . ,?6'5,46'
5.J' / ,V.<J' ; ,<67 747 ,<<. 6'?341' '6641.1'1,1>1.' ?4M
05 ;' .7'5"71'<=4 5> >4'1,V'4 / ,%
8'K ' 8'>.' < < .<< > <J.5V' ' .'?1,?,6.'
>.' >; ?'<>.1' " 5.'< < 671.'>.'5"Q467 ;.'?,41'=4.5'
5 ,7 E'7,<6' 5.J' ';#46'7.'1J' ?405 ;6' <=?>>6'?'1' ' 61'
6. <05#,'<.'6;'?1>6.<7.<7'=< '4'<. 40?.'>.'71, '% .416'
E,<.5 ,<J'6,<7'>.' <'741.' 55' ?,4-, 1' >71.' .@.1, . " '
;:'=4;' <67'<7I' 56<' '>, -.<7'?' '8' '417 37' >'<" 5.6'
< , / .<76'> 'J 7'7 ,?8' ' .5, J<.1'>.'5.<1'?,67.' ' ?,41 '
= , '>.?4 6; .7<'7 <' ' 7 ,<'?4'5.6'1>44 1'?,41'=4 56'
6,'1.<>.<7'4' ' ,1>1.'Z
3> ? * @' A % !@' B$& ' %4!

>. / '<>>' 5.6' ' ;;46'7.<16' ?405 _W ?,=1'5" 6>'<;.' >4'
/ '7 <% .'5.<1' ' - ' 6'.<1,V>' 5.'>>;1.78' .7'; <=' > .<71;'
.<@' ' - ' .<7'>>'1>4< 68' ' U' 0.41.68' -,46' 'V. " '51>7 '
=4 56' 6.1' .<7'1. 46' '5" 6>'<;.' >4'6, 1'QQ.5.6' 'E' 5'
>-.15 1'?,41'('0.41.6N ' .67'?1,0'05.'=>.'71, 6'>.';.6'
/ .66 .416'< ,<7'?'6'>7>'1.?;,<71>68' 56'6.'6.1< .<7'. B'
?1.66>6'>.'6.'1.<>1.' '4@' ,1>1.6'>.'1 66. / 05. .8' '
% ' '8' 6 '>1.66'<7' '4"' ';; 6'7.416'
?405 ;6' ' " #,<67 747 ,?' " 1. / 6' . ' 1?6' 1' ' 6' 0
! , & ,&&$, ! B$ '$%' % $$ '(C'
$ ' . , $%' ,% '&% ,, ,*! & @ , D &2!('
(! , '$%' !$! & & & $$ ' '$%'$! ' -(, , ! '&'$%'
!$! &' A& & %$ ' ! *,(-' (-' ' , ' %&'% $'
! (%B$,' (, ' ! &* '(B$ ' ' '$%' ,&4 && ,'
$! , ' ! E! '(& ' ' , '&&($! ' , ! ' ' * '(! '
$ A' (% % ,' ! ' '(! '$,'F % &% ,' *&&$,' ' '"
A% % '& 'B!) G' '& ' (!,'&! '$,' &! 4 '8! '
,! ,' 2 ('& ' 2% ! &'H
% 5.'?1>6 >.<7'5 7' .'>>;1.7'1.<> ';.'? '7 4%
' @ !(' " ! ,' %4 .' ! &!((' $%' &&% ! '
&2 '%& , , '% -' F % % ,'3 ,' ! ,,% ,' &% #
,'%4% '% % &' ' %4% $'$! , '(&*$ - !('$,'
%'% & &,'E$,' ! '%((E,' '$ ' %((! '& ' ' A $'
$,'& , (,'& '8 * $' (! ' ' %$$,' '@% % ' , #
!! ' %((&#,' ' , ! ' 32% & G ' (' !($& % ' '
$ ' , && ,*% ,' '& '$%') ! ' ' %!(E (' ' ,'
! %A ,' ! $ ' ,'&! 4 ' *%(A' ! ,' ! & ,'
& ' 4! &,' ' ! ,'$ A'&&(% ,'4! ,'(! &,'! '
(, ' , ' %&4 , , '(! 4% ' ! ,' (% %$ (' %$! , '
' , $
'* ?! A' 2% I A'(%,'& % & '& ' '
'% A (,' (' &(! , ' , $$ A , (,'$,'!(! ,'
(% %&!-%$,'A! B% ,'&% A'$,'& , ! ,'&'B '? % '
! ,'%4((A' ! $ ' $,((A ! B%B$,' '
$%'E , ' ' (B % $%B$ ' * '& ' 2 , , ! B$& '
% ! %$,' * A, ' ! ,' & ' (($ ' 3%' ,#J % '
2! ' ! ,' !((!, ' ' ' ! ' % , '('& '
$' (, ,% ! ' & ,' ! , ,% ,' (! ' & A '

' . ' ' ?5' ?1,?,6.'.# / '7 <'5"1.>' ;7 ,<'>.'
;.77.' '>1.66.I'Q ' ' >,<<.'?,41'1' 6,<'5" <. , .66 7>'>.'
E' 1.' . ,<<'571.'5.6' / ,7 E6'>.'<,71.'>.; 6 ,<8' .7'Q 'V,4.'
>.'0,<<.'E, '=4.'Q '-' 6'?.4'1.E5. ; : "1' "?1,?,6 7 ,<I'
'?.'?,<- .J' '-, 1'=4.'>.4@',0Q.76'Q'E' 1.' , <<,E51.'
5" 5,Q8' <6714 1.'5.'?.4?5.'>.'6.6' / ,7 E6% "5,7 .67'>'<6'
5.'>.#1.7I' 5.6' / ,7 E6'6,<7'>'<6'5.'1'??,17' .7'>'<6' 5.6'
71, 6' ,< < ,<6'>,<7' -,46' '-.6' ,1>,<<>' / ?1.66 ,<8'
.7'=4 ' '>-.5.??.<7';, ?5>7. / .<7'5.6'E' 56' .7'5.6' ?1 <Y'
; ?.6% <7.<7 ,4' >.' 6J. / 05>.'6.1" >,<.'1. / <5 .'
?'1 .<-,'>.' , .6'> 6. ,4168'>,<7 / ?1.66 '4'-" .71.'
7.1 / <>.%
%' &3 ' I' .6' / '4-' 6.6' 1' 6,<6' =4.' 8'
'<>1.'>,<<.' ;.' 6, 1' <.' >>714Q6.<7 ?'6' 5.6' 0,<<.6'
1' 6,<6'=77 5' " >,<<. .6' ,' / '7 <N 5' '47'=4.' <6714. '
7 ,<' ?'17.' ' - . .'5.' >>;1.7I' 75'E'47' 1.6?. ;7.1'5" >. ; 6 ,<'
>4' / '7 <I' ' .67 >71'<J.'=<.'5.6' , , / / 66' 1.6'<.'6 V
6, . 7?'6' ; ,<E,1 / >6%
' ' '$ < / . / 01.'>.'H 66. / 0 >.8' %K'11 .8'
"1>> J.'4<.' '>1.66.I'Q.'>. / '<>6'=4 .5 . / 05>.' .<'
.<7.<>.'5" 5. ;741.%
.J<'457' <6 67.'641' . .77.'?1,?,6 7 ,<%
'N ' .67'71>6'<'747.5'=4 4<.' / .6771.'=4 '> ' '
0,1'>'6. / 05' 7' '-'<7'J.46.'>.- .<<. .<64 7.' <47 5.8' ,<'
>4' / , <6'5.'?'1' 66.% #.'< %67'?'6'=4'<>' 66. / 05>.'
6 .65'>>; >>.' , ,<E,1 / > / .<7' '<'-W.4'>.6'0,<6' . 7,V.<68'
=4 5' '<>. .66' 1.>.' , : .1. : .1' ' '6641.1' ,0> 66'<,.'
'4<'>>;1.7 =4 ' / ' <7 .<7' 5" #,<67 747 ,<' N <,46'<.'
>.-,46' ?'6' >,47.1'>.' ,0> 66'<;.'>4' ?.4?5.8' ' '
.4a' 66. / 05>.8' =4 '?'1'7'47'> '>1.66.6' " 1.J4' >.6'
7> / , J<'J.6'><.1J =4.6'>.'5" ,<7 '<;.' >.' 5" '<'7 ,<8'
>, 7'7,4Q,416', , / ?5.1'641' . .77.' , ,<E5'<;.%
8' >?K ' ' .6'5,<J6'> 6. ,416'<.'6.1,<7' : 6' =4.'
?41' 5" .5'66.' <6714 7.E' 7' E'47' 4<.' <6714;7 ,<'=4'
4 $' '>71.'546'?'1'7,47'5.' / ,4>.' ' 5'#+ ,'$ '$*,$.(' >

' '(' ') ' * +,- ! ')(' . ' /0. 12 3 ' 1 4. !1 ' * '
5 ((.1 '),- ,4 '- 2 5) - 6 * + -- ' 7') '5-. , '
4 !(- ' 4)(,8 ' * ,'9) ') (1 (4,! 2 (* +)! ' .'
1(. ;-, ' 5 ' * ' 3. 1(' 1+ ! ' !,. !, , ' 19,1 !- ' 1. ! '
/ 5 ((' 4 ;- 2 5) 4 4 !(! ' . (,'1,88 !(1 ' 115 (
. '9) ' .$< !1 ' .,(1 (5(, ;- ' 1 ' ; . '8) ! '
. . 4 '(.- ' 1 ' -.') ! (,((,) !
< ' = < ,4,> '?# '5) 4 4, ., 2 4 .-0 ' -.' @
8- 7,) ! * ,' - ' .9.,(8 . ' ' / 2 ') !( )55 '1 ' 1 -+) ;A (
1 '8 ! ' 4, ./) ! ' - , ' 4 4; ' 1 ' (/ 4 ;- '
) (.! ; 8.,(1 ' ')A (' 1+,! (15(,) ! ' 3 ' 1 4. !1 '
* +,- ' / !, !(()! ' ') ' !) ' ' !('2 1. !5 '
(! .!(2- ' 1 !-.(1 '(. '(.9.,-
' + ' '3 ' , '5B. 0 '1 '9) '-, ' .,(!) 4 1 '
5) 4 4, ., ' -.' 1.5(,) ! 1 '( ), ' . (,5- ' * ' + 7 '
4 ;-1 ' . .1) '(' ') '1(' '-.51 ' !(1(' 1 ') ! 1 '
5 (1+B,
< ' .-- ' -,(5 ' . (,5- 2 1) !(-.' 1.5(,) ! (11 '
5 (1 ' ! '5 ' (4 ? /

Y '5. '1, 8 ' '?1.6 ' '1, 1 '?1>7> '6 ,< .1 / .<7 ' 5 ' ' # ,<6 ' 7 747 ,<8 '5. '1.71 ' ;7.8 5 '6.1 ' ' ; .<6> ' - , 1 ' '0> =4> 8

CD '5. '1, '6. ' / .7 ' ' 5 ' ' 7>7. '> 4<. ' '1 / . . '? ,41 ' .= ' > ' 1 J.1 '7.6 E,1; .6 ; ,<71. '5 ' ' < '7 ,<8 ,4 '6 5 ,1>,<<. ' '6.6 J.<>1 '4@ > .@>;47.1 4< 7.5 ?1,Q.78 ,4 .<E < 6 5 <. ' 4<# ' ;7 ,< >. ' ; .77. ' .6?>; . '=4 '6 .@> ' ;47.1 ' 7 .< 6 ,< <, / 8 5 '6.1 ' ; .<6> ' - , 1 ' '0> =4>

D ' < 1, ' =4 ' '41 ' ' '0> =4> ,4 '=4 '6.1 ' ; .<6> ' ' - 1 'E ' 7 1.>. - .<>1 ' '6 / ?5. '; 7,V.<Y .7 6.1 ' ' ; ;46 '05. ' ?'1 5.6 E,1 / .6 ,1> < ' 1.6 ? ,41 7,46 5.6 ' ' ;7.6 ?, 7> ' 1 .416 ' '6 ,< '0> ; '7 ,< ' 1 - ' <7 : .18 ' '4 / 5 .4 >. '5 ' ' > 6M ;466 ,<8 Q ' ' .@?5 =4> =4. ' <7;<7 ,< >.6 ; , / 7>6 < ' - ' 7 Q ' / ' 6 >7> >. '5. - .1 5. '>>;1.7 ? ,17 '<7 6 6?.< ' 6 ,< >.6 E,<;7 ?<6 1,V '5.6 .7 >< ?,<- , 1 .@>;47 E> '<6 7.6 / ' <6 >4 1, < < ' '? '6 >>;1.7. ' 4<. ' > 6?,6 7 ,< ; ,<E,1 / . ' ' ' <7.47 ,< >.6 ; , / 7>68 ?'1; . '=4 ,< ,1 ' ' J< ' 7 '5,16 >. '?1>Q4 J.1 ' ' <6 ' 5 ' '=4.67 ,< ?1 <; ?'5. .'>. / ' <>. '=4. ' ; .77. ' .@?5 ; '7 ,< >. - .<<. ' ' ' <67 '<7 5 ' ' / '741. '> :< >>;1.7 & < '??5 '4> 7 P 5 .67 47 5. '>. ' <. '?'6 5 ' 66.1 ,? < ,< ?40 =4. '6 >J '1E.1 641 ; . '?, <7N 0<'6; '6 / 17>. '1 <; .17 74>. =4 '1.67. ' .<; ,1. ' ' #.7 .J '1> ? ,41 5 ' '&1, / ?.1 , ; ' '17 ;5.8d ' <6 '=4. 'Q .< ; ,< , 6 5 ' ' 1>> ' .7 ,4N

. E.7 >4>>;1.7>4 C 'Q4 <8 =4 '646?.<> '1.@.;47 ,75 >.6 E,<;7 ,<6 1,V '5.6 .7 >4 ?,<- , 1 .@>;47 E> '<6 5.6 / ' <6 >4 1, 78 6406 67.14 'Q46=4 ' . '=4. ' '07. ' ; ,<67 ' 747 ,<<.5 6, 5 ?1>6.<7> '77 1, ' .7 ' ; ; .?7> ?'1 54 & < '??5 '4> 7 .7 ,< >. / ' <>. ' ' '57.1 '4@ - , @ P

B / 76 N ' < .67 ?'6 >'<6 5.6 ?1 <; ?.6 >. ' 66. / 05. . '>. '>>5 0>1.15. '6, 1 641 >.6 ,0Q.76 >. ' ; .77. ' < '741. & 5 6 >5>-. ' 0. '4; ,4? >. ' / 41 / 41.6 P . '>.M / ' <>. ' 5 ' '=4.67 ,< ?1> '5 '05. ' 6<1 ; . ' >>;1.7 =4 ' .67 ; ,<71 ' 1. ' '4@ ?1 <; ?.6 >. '5 ' ' / ,< '1;0 .

66. / 05>. ' . ,< 4 >. ' >. ; >.8 ' ' 4<. ' 71>6 J1 ' <>. ' / ' 'Q,1 7>8 =4 5 V ' '5 .4 ' ' >>5 0>1.1 641 '17 ;5.

66. / 05>. ' >>;1>7.8 ' 4<. ' 71.6 J1 ' <>. ' / ' 'Q,1 7>8 1 '17 ;E. '?1,?,6> ?'1 .6 / . < .16

'55.6 E ' 7 5. ;741.> 4< ?1,Q.7> '>1.66. ' '4@H1 '< ' J ' 6 + ' < ?1,?,6. '>. '1.<- ,V.1 ; . '?1,Q.7 '4@ ; , / M / 66 ' 1.6 1.> ' ;7.416

< >. / ' <>. ' 5 ' ' 5. ;741. ' >. ' '>1.66. ' 1>> J>. ' ? '1 K '11>1.

% , 'N - ' <7 >. '1><- ,V.1 5. '?1,Q.7> '>1.66. ' >. 'E75 '55.6 '4@ ; , / / 66 ' 1.68 5 E '47 .@ ' / <.1 6 '5. ' >. ;1.7 >. ' ; . ' / '7 < 6.1 ' ' 1 '??,17. # .54 '=4. ' - ,46 - . ' <.0 >. ' 1.<>1. ' E.1 ' ' ?546 > .EE.7 =4. ' - ,71. ' '>1.66. 2 ' E '47 - ,46 5. '> 1.8 ; . '?.7 7 / ,V.< <. '? ,411 ' 7 / ,<71.1 =4. '>. '5 ' ' E ' 05.66. J 8

B 'N . ' ;1,V ' 6 =4. ' 5. '>>;1.7 1.<>4 >.1 ' 5 71. ' .@.;47>I / ' 6 Q. ' .,<- .<6 =4. ' ; .67 4< >>;1.7 > ,1>1.8 >. ' ; 1; ,<67 '<; .I =4. ' 5 ' ' ; 1; ,<67 '<; . ' .67 ; : '<J>. '? '1 5. '>>;1.7 6406>=4. 78 .7 =4 ,4 ?.<78 6 '<6 <; ?<- ; / .<78 1. - . 1 641 6.6 ?'6

4?, K N ' / ' 6 >'<6 4<. ' '>1.66. ' ; ,417.

1.<>1 ' ' '1 ' 6 ,<6 =4 ' ,<7 0.6, < > >71. '>>- .5 ,??>.68 5. '>>;1.7 =4. ' - ,46 L '>. '1.<>1. '>,< <. ' ;5 ' 1. / . ,7 .@?5 ; 7 ,<>. ' '=4. ' - ,46 ' - .0E ' 7 .7 >. ' ; . '=4. ' - ,46 - ,45.0 E ' 1. ' 55.416 5.6 ,06.1- '7 ,<68 5.6 > 6;46M 6 ,<6 ?, ?<5 ' 1.68 =4 '6. '6 ,<7 ?1,5,<J. .6 ' < >.7. ' >4 7.1 <. ' ,4 .55.6 >. - ' .<7 6 '11>7.18 . .67 > 1. ' '?1.6 5. '>>;1.78 <. '>, - .<7 ?'6 >71. ?1 6.6 .< ; ,<6 >.1 '7 ,< ?'1 - ,46 ,46 / ' <=4.1 .0 ' ' - ,71. '> J< 7>8 ' - ,71. ' ?,4- , 1 / > / .8 .< >,47 '<7 >. '5 ' ' 5, ' =4 ' <> .55. .67 ? ,17>.8 .7 - ,46 ?'1 '571 .0 .< >,47;1 .< ,4-1 '<5 4< ' '1J4 / .<7 '7 ,< ' - . ; 5.6 ; 7, - .<6 =4. ' - ,46 <. ' ?,41.0 64??,6.1 - ,45, 1 <. '?<6 ,0. 1 ' ' 5 ' ' 5,

66. / 05. . ' '11 7. ' =4 '4;4<. ' '>1.66. ' <. ' 6.1 ' ' 1> > J>.8 .7 =4 ,< 6. ' 0,1<.1 ' ' ' .<- , ' >4 1 '??,17 ;7 >.6 > 6; ,416 ' '7,46 5.6 >>?'17. / .<76

66. / 05>.8 '?1.6 =4.5=4.6 > 6;466 ,<6 641 =1>1. ' >4 Q,418 '11.7. ' =4. ' 'EE ' 1. ' >4 ; , / 7> >. ' ' <; .11. ' 6.1 ' ' ?5 ' ; >. '5 ' ' ?1. / >1. ' ' ,1>1. '>4 Q,41 >. '5 ' ' 6> '<; . ' >. '6 ' / .> '6, 18 C ' >4 / , 6

' '6> '<; . '.67 5.->. ' ' ' ' : . ' - .6

' ' #B ' (' 5 %

GGGN ' ' < ,4- .55. ' 6. ' 1>?'<> .< ; . ' / , / .<7 =4. ' >.4@ 0 ,<6 ; 7,V.<6 - .<<.<7 > >71. ' - ;7 / .6 >. ' 5.4, ' 0.5. 6 .7 ' .<7 '4 ; : ' / ? >. '5 ' ' H>>>1 '7 ,<8 .7 > 6 ' .<7 '4 ?.4?7. ' 1 '66. / 05> =4 5 E '55 ' 7 .@>;47.1 5 ' ' 5, 556 ,<7 >7> ?.<>46 641 5. ; : ' / ? & < / ,4- . / .<7 > < ' > J< '7 ,< 6. ' / ' < E.67. P

' ;4 ' 'N . 'E ' 7 < .67 ?, <7 7.5 =4. ' - ,46 ' - .0 1 '??,17. .'>. / ' <>. '6 ' - ,46 ' - .0 >7> 7. / , < ' ; 5 ' >. ' ' <7 .'< > <J.5VN ' ' '466 ' .<7.<>4 > 1. ' =4 56 ' - ' . 7 >7> ?.<>46 ?,41 ' - , 1 ?1>; : > .@>;47 ,< >. ' 5 ' ' 5, I / ' 66, 7 =4. ' ; .5 ' ' ' ' <6 ' ,4 ' '<71. / .<78 5.41 / ,17 .67 7,4Q,416 4< '77.<7 '7 =4 ' >, 7 >71. '? ,4164 - ' 6.5 ,< 5 ' ' 1 J4.41 >.6 5, 6IQ. ' >. / ' <>. ' =4. ' 5. ' ?1>6 >.<7 6 '6641. ' >.6 E ' 568 '< ' ' =4. ' ,< ?4 66. '?1.<>1. '7 ,47.6 5.6 / .641.6 < ; .66 '1.6 8 '>466> Q. ' >71. ' / , / > / . ' - ;7 / .8 6 ' 7. ' >>6,1>1. ' # ,<7 <4.8 Q. ' >. / ' <>.1 ' ' 5 ' ' ?1, ;5 ' / '7 ,< >. ' 5 ' ' 5, ' / '17 '5. & ' ' 71>6 J1 ' <>. ' / ' 'Q,1 7> >. ' 66. / 05>. ' '?M ?5 '4> 7 + '# <= ' 6 @ / . / 01.6 ?5 ' ;>6 >'<6 .@71. ' / 7. ' >. ' 5 ' ' ?'17 ; ' J '4; : . ' / 41 / 41.<7 P ,46 ' - .0 ,1>,<<> '4@ ' ; ;46 '7.416 ?405 ;6 >. ' 7. 1. ' .@>;47.1 5. 6 5, 6I 5 .67 4< >> 7 =4 '6. '1.?1,>4 7 6,4- .<78 ; .67 ,??,6 , ' ' >. ' 5 ' ' - ,5, 7. ' 4> - >4.55. ' ' ' 5 ' ' - ,5,<7. ' J><> '7. 5 < V ' ' ? , <7 .< ; ,1. '>. ' 5, 6 ?1>; 6.6 ' ' . .7 >J '1>I / ' 6 ; .67 ; ' 5. ' / , / .<7 >. ' - ,46 .@?5 = ' .1 . '>. / ' <>. ' =4. ' 66. / 05>. '>>;5 '1. ' =4. '7 ,47.6 5.6 ?.16,<<.6 =4 8 ? '1 >;1 76 8 6, 7 <> - ><.568 6, 7; ,5 ' 5. ;7 E68 / ' < E.67.1, :5 5 ' ' 1>6,547 ,< > . / ?>. : .1 .@. ' ' ;47 ,4>.5 ' '5, ' .7 ?,17.1, <75. '?. ,?5. ' ' '1>6 6 .1 '4@ '. 7,1 7>6 ; ,<67S74 >.686, .<71.J '1>>.6; , / / . >> 7 .46. ' =4 .55.6 6, .<7 '11>7>.6 .7 ?,4164 - .6 ; , / / . ' ;1< <.55.6>. ' 06. <'7 ,< & ' ' / 'Q,1 7> >. '5 ' ' ?'17 . 'J ' ' ; ' '??5 '4> 7 P # .?.<> '<78 ?,41<. / .771. '4;4<# '?1. ; ? 7 '7 ,< > '<6 4<. ' '466 ' / ?,17 '<7. ' / .641.8Q. '>.4 '< =4. ' / ' '?1,?,6 7 ,<6, 7 1.<- ,V>. ' '4@ ; , / 7>6 >. ; ,< 7 747 ,< .7 >. ' Q41 6?14>.<; . ' ;1 / / .55.8=4 '<,46 ?1 6.<7.1, <78 6> '<; . '7.< '<768 4< ?1,Q.7 >. '>>;1.7 '

66. / 05>. ' 1.< , . ' ' 6.6 ; , / 7>6 >. ' ; ,<67 40 ; .7 >. ' Q41 6?14>.<; . ' ;1 / <.55. ' 5 ' ' ?1,?,6 7 ,< ' _ .J< ' 57

< E ' 7 5. ;741. ' > 4<. ' 5.771. '>;1 7. '? '1 5. ' / '5 >. ' '1 8 '4 <, / '>4 ; ,1?6 / 4< ; ?'58 =4 '> - , ' '66.15 ,< E ' 7. '> '<6 5 ' '6> '<; . '> : .1 ?'1 < / .1 =4 4< >. '6.6 / . / 01.6 . 7 ' 7 / ,<7. '641 '7. '7 :>>71. '>.5 / . 'H.V>. '48 ?,41 .<J 'J.1 ' ' E '1 / .1 5. '6?. ;7 ' ;5.I . ' 4< ; , / / 66 ' 1. '>. '? ,5 ; . '=4 ' ' ; , / / 6 ; .77. ' / ?< >.<; .8 .7 ,< ' ' >7> 71, / ?> ?'1 5. ' ; : '?.1,< '4@71, ; , 5.<16 = E 5 ?,17. ' 1 1>?'45.

5 6 . 16 ; 7,V.<6 E,<7 ?'66.1 ' ' 66; / 05>.7E - .16.6 6, / / .6 ?,41 .<71;7 ; < >.6 : ,777 / .6>; J<. / ' <1 5. ' 1 '??,17 E ' 7 ? '1 .014<8 '4 <, / '>4.7

'(+ 4;- '!.()!!,'15 ('* +2 ')1)!' !.!5 ( ) '-. ' ,)! ;;-(' 1' 4,!, ('1'3,!(1' , 2 ,- '8) (,' . C ( ) , '!.()!.-' . 1 '. (4 !(1 ')!(' (5B.! '2 . 7 1')* ,55 ,9 '* ')!(1/(,.1 ' !(' , 4,!,(,+ (- '5),!4, ., '1'-.' (1) ,2 -.)44'1 (1, !,,;,)=' ') - (8.9. 7' ;-,5 2.''),!(4 !(2 .-, (8 ., '1'5)!1 ,(2* ')!('-.'5B. 0'1' -.'!,()!

% " ;' 66.'>.' .@71',1> <'1.'1 / ?5';.1" ' 5" 71>6,1.1 .'<'7 ,<'5.'5.6'6, / <.6 =4 8'6,46 5.6,1>1.6 >4'>.?'17. / .<78 ,<7 .7.'?1 6.6]41'5.6 E <>]'>.' (* % ?,41 1.'. / ?5,V..6 '4 ?' . / .<7 >.' ;.'=:' >7' 7 >4 '4@'> -.16'>.?'17. / .<56'>.6 71'-'4@'?405 ;68?,41'5.6 ,4-1'J.6 .@. ;47.6 .<' (* 8 '?1 6 7,47.E, 6 =4.'5.' < ,<7'<7 >4> 7 ?' . / .<7 '41" .7>'->15>'?'1'5.' ;, / ' / 66'1.'J.<.1'5 >.'5" 5 =4 >'7 ,<8 .7 E@.'?'1'4<>. ' ;1.7 >.' 66. / 05>.'<'7 ,<'5.%

% H.1 / ,<7 ?1.6.47.8 '4'<, / '>4'; , / 7>'>.'5" / 'M 1<.'8 4<' ?1,Q.7 >.'>. ;1.7 641' '> / < 671'7 ,<'>.'5" / '1 <.%

.6 '17 ;5.6 64 -'<76 6,<7>.;1.7.6N

' .,' DD' (' $*$',.('(.+'(+'36+$ '-(' +,$ *'-(" .-$D("-+'. $/ .(+,$#"+' ' *'-(4+.,((*,/ (,'.('4 *'+) ('-(' ' *'+- $*$',.+,$ *

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J1.EE.6>.6 71 04<'4@8 ' ?'1 >.;5'1'7 ,<6 =4 ,<7 .7.'54.6>'<6 66. / 05.I 5 .< .67=4 '6,<7>.'<, 7,1 .7> ?405 =4.8'5.6'471.6 ,<7>> '57.67.6?'1 ;. @ >.6 / . / 01.6>.' ;.77.' '`6. / 05>.' =4 '.< ,<7 ; ,<<' 6 6'<;.I .7 >.'7,']' ; .6 E' 56 -, ;'5.'1>6457'7N ,46 4< ?, <7>.' / . 875'6.'?1>6.<7.'>'<6'5.'>>?'17. / .<7 >4 K'6 57: < >.4@'?'17 6710'?1,<,<;>6 .7 .@ 71> / . / .<7 ,??,6>68>,<7 4<'7 .47'5,17. / .<7 '7,47.6 5.6?'17 .6>. ''#,<67 747 ,<>>;1>7>5.6?'1 66. / 05>.' <'7 ,<'5.8 .7 '471.' E' 7 5.6 ?546 J1'<>6 .EE,176?,41 .< . / ? <.1 >7'05 66. / .<7%

< 64 1'<7 ; .'>>?'17. / .<7 '>>7' 58 ,< 1. ; ,<<' 7 = .'5''?546 J1'=>.'?'17 .'>.6 - 55.68 .7 7 .6 > / <. / ' / .<7 ; .55.' [' 71'60,41J8 '< / >.6 >4 ?546 01>5'<7 ?'71 ,7 6 / .8 ,<7' ; ;4. 55 ' '- .,'71'<6?,17 5'' #,<67 74M 7 ,<8.76,<7>>7.1 / <. .6 ''5''6,47.< 1Q4 '5'' / ,17I 4<0,< <,7<01.'>.' - 55'J.6 6,<7 >'<6 5.6 / > <.6 > 6M ?,6 7 ,<6I / ' 6>'<6=4.5=4.6 - 55.68 .7>'<6'5'' / 'Q,1' 1 7>'>.'5'' ;' / ?'J<.8 ,< <.'1.<; ,<71.'?1.6=4.'?'6 4< ?'17 6'<'>.' : .41.46.'1>J><>1'7 ,<'>.'5''H1'<; .8 '4 ; ,<71' 1.' ,< V >. ; , -1.' 4< J1'<>'<, / 01.' >.' 6.6 ?546 / ,17.56 .<<. / 6 N 5.6 / '5 <7.<7 ,<<>6 6,<7 .< ?'17 .' ; , / ?,6.6 >.' ?. 6,<<.6 =4 ' - - ' .<7>.6 '046 ><,1 / .6>,<7 ;>77.' ; ,<71>.'>7' 7 ?21 / >.'?546'?'1 ' 7 . 5 .1. / .<7=4 '4;4<.''471.'?1, - <; .' '1,V'74<.I / ' 6'5.6 .;>>6 '67 =<.68 7'<7 6 ` <5 .16 =4.'1>J45 .168 '=4.5=4.6 .@; .?7 ,<6'?1.68 6,<7 5.6 ?546'<, / 01.4@8 5.6 ?546 '1>.<76 >.71' ;7.4168 5.6 .<<. / 6 5.6 ?546 ' ; :'1<.6 >.' 5'' #,<67 747 ,<% .6 .@; .6 '4@=4.56 56]; 5 -1.<7 - .<4.<7 >.' >.4@ ; '46.6I J<,1'<; .' .@ 71> / .'>4 ?546 J1'<>'<, / 01.' .7 1'77' ; : . / .<7 >4 641M ?546''<@ ?1 <. ?.677571' / ,<7' <6 .7 '4@?1 <; .6>71'<' J.16%

'5'' ?1. / .1.'>.' ; .6>.4@ ; '46.6 >7' 7 5'' 6.45.8 5.6 / .641.6 '' ?1.<>1.'>'<6 ; .'>>?'17. / .<7 <.'6.1' .<7 ?'6 > EE>1.<7.6 >.' ; .>.6 ' 64 11.'>'<6=4.5=4.6 '471.6 ?'15 .6>.' . / ? 1.8 ,4 .11.41 . / ?>; : .'5.'?1,J1.6 >.6 54 / >1.6 .7>.5''1' 6,<8 ?,41'5''?1,?'J'7 ,<'>.6 ' =4.55.6 5.'7. / ?6 .7 5'' ?'7 .<; .' 64E5 6.<7I / 'Q6'5''6.' ; ,<>.' ; '46.'<.'?.<<.7 ?'6 >.'> EE>1.1 4< 6.45 <67'<7 '' J'1'<7 1 ; .' >>?'17. / .<7 >4 >'<J.1 / / <.<7 =4 5.' / .<' ; .%

#.' >'<J.1'1.6457.'>.'5'' ; ,11.6?,<>'<; .'7'<7 7 ,< ' - .17.8 7'<7 7 ; ' ; : ..5 =4.'5.6 .;;5>6 '67 =<.6 7'<7 6> >45 .16 =4.'1>J<E .16 .<71.7 .<<;47 6, 5 J><>1'5. / .<7 '- .;'5.6 H1'4J' 6 E4J17 E6 .7 >; - .<46 <> J .1>.' ;.' <, / 8 6, 5 ?'17 ;45 .1. / .<7 '- .;' ; .4@> .<71.' .4@ =4' >'<6 4<.'1.0.55 ,<'>>;5'1..'6,<7>.Q''E1'??>6>.'5G'' 7:> / .>.'5''?'71 . .7Q467. / .<7 -1>6 '4@71 04<'4@I 6, 5 '1. ; ' ; .<@ >.6 .71'<J.16 ?,66.66 ,<<.6 >'<6 ; .77.' ; ,<71>.8 .7>,<7 5.6 7.11.6 .< 6,<7 7 / 71,?: .68 =4 8 6,46 >.6 ?1>7.@7.6 ,> .4@ ; ,<71' 7 .6 ' :7 / '<7>'.7 '77@ >1, 76 <'> / Q66 05;6 >.6 <'7 ,<68 E,<7 5.6 ?546 J1'<>6 .EE,176?,771 646; 7.1 >.6 .<<. / 6 ''5'' H1'<; .8 =4 ' <.'54 ' E,<7 ?'6 4<.'J4.11.' ,4 - .17.8 ?'1; .' =4 56 < . / ,<7 ?'6 5.' ?,< - , 1I / ' 6 =4 8 ?'1 5.416 6,41>.6 / .<>.68 6,<7 ?.47 >71.'?1>76 '5'' E' 1.' >;5'7.1% K' 76 ; .77.' ?,6 7 ,< =4 '?1>6.<7.'5.6 / > / .6 ;14 <7.6 =4.'6' ,<>7' 7 .<'>7'7>.'J4.11.8 >'<6 ; .'>>?'17. / .<7 ; ,<M - .17 >.' ?5' ; .6 E,17.6 =4 '6,<7 5'' 6 51.7>'>.' . / ? 1.8 .7 >'<6 . : ' ;4<.'>.6=4.55.6 5.6 .<<. / 6 ,<7 .< J1'<>' %<, / 01.>.6 <7.5 J.<; .66 1.6?'1 / 5.6.;;5.6 '67 =4.6 =4 ' ; ,11.6?,<>.<7 ' - .;' .4@8 5 .67 > 4<.' <> 6?.<6'05.' <>; .66 7>'>.'?1.<>1.'6'<6'5.' / , <>1.>.5' '4<. / .641.' =4 '?4 66.' <7.1; .?7.1 641 . ; : ' / ? ; .77. ; ,11.6?,<' >'<; .%

,41 '11 - .1 ' ;> 0478 5.'6.45 =4 '?4 66.'6'4 - .1 . / ? 1.' >4 >'<J.1 =4 ' 5.' / .<'; .8 5 < V '' =4 4< / ,V.<I 5 .,<6 67.' ''1. ,< 1 7,<6 5.6 .;;5.6 '67 =4.68 7'<7 6>;45 .16 =4.'1>J45 .168 .< 4< 6.45 .7 / > / . .48 >'<6 5.=4.5 ,<6, 5 ' / > / .'>.'6 '6641.1>.'5'' ; ,<>4 7.' >.6 / '5 <7.<7 ,<<>68 ,4 >.'5.6 >; '17.1 >.6 E1,<7 1.6 ' 4<.' > 67'<; .'7.55.8 =4 56 <.' ?4 66.<7 ?'6 >71.'<4 G 6 05.6% ' ; .77.' / .641.'6. / 05.' ; ,<71' 1.' '4@'5,76 .7 '

5'' 5 0.17>'?,41'5'=4.55.'5.6 >J 65'7.416 >.'5'' H1'<; .' .7 5.6 '> / < 671'7.416 ,<7 4<'6 ?1,E,<>'1.6?. ; 78 .55.% .67 ; , / / ><>. .'?'1 5.6 ; 1; ,<67'<; .6 ?,41'5.'6'547>.' 7,46I .55.' .67 / . / .',1>,<<. .'?,41'5''6 51.7>'?'17 ;4 ' 5 >1.' >.' ; .4@ >.6 . ; ;5>6 '67 J4.6Y .< J1'<> <, / 01.' 6'<6 >,47.8 =4 '5, < >.'71' : 1'5'' ?'71 .' ,<7 7,4Q,416 / ,<71.' ' / ,41 >.'5''?' @8'5'' 6,4 / 66 ,< '4@'5,08 .7 5.6 -1' 6; '1' ; 7>1.6 >.6 / < 671.6 >.6 '47.56%

' ; .6 . ; ;5.6 '67 =4.6'6'J.6 .70 .4E' 6'<76 6,<7 >6>6 ?'1'4<.' ?1 - '7 ,< ,4 4<.'J><.'=4 '<.'6.1'' =4.'?'6' 6'J>1.' .7> 4 .' ; ,417.'>41. .8 56 .< 6.1,<7' / ?5. / '.<7 >.>, / / 'J>6 ?'1 5''>,4; .' , 66'<; .'> ' - , 1 E' 7 7 / ' 6'; 1 E ; .' '5''6 51.7> #, / / 4<.'.7''5'' ; ,<6.1 - '7 ,< >.' 5'' 5 0.17>I ; .'6'; 1 E ; .'> ' 55.416.67> '47'<7 ?546 <W > 6?.<6'05.' =4 ' V '41' 7 7,47 ' ;1' <>1.' =4 ' 5'' / , <>E.' >7 <; .5 .' > 4<.' <- '6 ,< >4 7.11 7, 1.'>.' ; .' >>?'17. / .<78 4<.'J1'<>.'?'17 .'>.6 ?.4?5.6 >.6 ; ' / ' ?'J<.68 7 , / ?>6 ?'1 ; .4@ >.6 . ; ;5>6 '6 =4.6 / '5 <M 7.<7 ,<<>6 =4 '5.6 ?'1.<78 <.'7,41<'66.<7 5.6 '1 / .6 / 6.6 >'<6'5.416 / ' <6 ?,41'5''>>E.<6.'>.'5''?'71 .8 ; .<71.'5.4 6 E1.1.6 ?546 >;5'176 = .4@8 .7 < '554 ' / '66. 7 4< <; .<> .'=4 ,< <.'?,411' 7 ?.47 >71.'?546 >7. <>1.% ' ' ' E

; ' ' 66. / 05..' '' '?21,4 - .' .7; ,<E 1 / .' '11>7> >4'> 1.;7, 1.'>4'>>?'17. / .<7>4K'6 : <8 .7>>;1 7.N Ď 34.'5.' ; , / 7> .3;5>6 '67 =4.' <> =4.1'' >.6 / ' ' 6,<68 >'<6 <7>1 .41 >4 1,V'4 / .8 >'<6 5.6=4.55.6 6.1,<7 7.<46 >.'6.'1.7 1.1 ; .4@ =4 '?1>E>1.1,<7 - -1.' .< ; , / / 4<I

ŒD 34.' ; .4@ =4 ' <.' - ,4>1,<7 ?'6 >.'5'' - .' ; , / M / 4<.8 .7 =4 '?1> 1.1,<7'5'' - .'?'17 ;45 >1.8 6.1,<7 7.<46 >.' 6.'1.7 1.1 '' 71.<7.'5 .4.6 >.6 >>?'17. / .<768 >'<6 <7>1 .41 >4'1,V'4 / .I

Ď 34.' ; : '=4.'?1>51.' 1>E1' ;7' 1.'6.1' 7 ,05 J>'>.' E' 1.' 6'' >>;5'1'7 ,< >4'5 .4 =4 ' ; : , 6 1' 7 ?,41'6'' 1.71' 7.%

8 'V ' ;6 54,4 - . / .<76 .@; 7>6>'<6 ; .77.' - 55.' ?'1'5.6 E' ;7 .4@ .7 5.6 .<<. / 6 >.'5'' #,<67 747 ,< ,<7 '_ '4J / .<7>>'<6'5''Q,41<; .> : .1% '6 @ : .41.6 >4 6, 18 % 5.' / ' .' .7 ?546 .416 ,E ; .16 / 4< ; ?'4@ 6,<7 6,17 6 >.' 5'' / ' 6,< ; , / / 4<.8 64 - 6 >4 >1'?.'4 1,4J.' .7> 4<.'<, / 01.46.' .6; ,17.'>.'5'' J'1>.'<'7 ,M <'5.% 56 6.'6,<7 1.<><6 '< ; : ' / ? >.'5''H.>.1'7 ,<8 ,48 >.? 6 ?546 .416 Q,4168 6.'1.4< 66' . 75.6 / '5' <7.<7 ,<<>6% '?. <.' ,<7 56 >7.' .<71>6 =4 56 ,47 >7.' '66' 55 6''; ,4?6>.'? .11.6I'5'' J'1>.'<'7 , 5.' ''1 ?,67> ?'1 >.6 ; ,4?6 >.'E46 58 .7 ?546 .416 ?.16, 4 . 6 ,<7.7> 74>.6% 466 7 5 '?1.6 #.7 > - ><. / .<78 >.?4 6 6 5,<J ' 7. / ?6 4< =4.' ,0Q.7>.6 - ,.4@ .7>.6 / .<. .6>.'<,6 .<<. / 68 ?546 .416 6>> 7 .4@ 6.'6,<7 1>?'<>46 >'<6'5'' - 55.8 .7; : .1 ; : ' .<78 ?'1'>.?.1E >.6'1. ; 768 '' ' / .4' 7.15.'?.4?5.' ; .<71.'5''J'1>.'<'7 ,<'5.8 .7<,7' / / .<7 ; ,<71.' 6,< ; : .E% >.' / <4 78 J1>.. ' '' 5.41'0.5.' <E'7 ' J'05.8 5.'?546 J1'<>' ; '5 / .'1.J<4 7>'<67,47.6 5.6 14.]%

,46 >,<<.1,<6 >.6 >.7' 56 5,16=4.' <,>6 '41,'6 >.6 <E,1 / '7 ,<6 ?546 .7.<>4.6%

%

* F +' {," ' 8 'B , 'V * +. - 6$$$ \ /H:'$ '

- - ; % +' <Q,'1>%)8 , ' '! ` .7'),

- ('H 7 6814.'>.' ; : .5 .'% +' ,Q,4 >% *- ' A< '71'J.> .I .7 'F ' (

- ' ' ' '1 ' +' ' ,<1> K4')8 : ' F 1.?1.6.< 7 ,<'>.' ' ,?.1''E1' ,E' 6 (*'P +(,('

) ' + 9' '14.' >4 ' 58 <Y *% +' 55.67,, - .7 7,<6 5.6 Q, 16'Q'6=< 'G.55.' : . ,1.'=' 5 ?5' 7 ' B8'5.6''0,<' <.6 > V'1,67.18

! b ʻ ʻW̱ʻ ʻB 5ʻ %

!EII F ʻ46ʻ2 ʻ4564ʻ V̄ʻ< ʻ H ʻ ʻ ʻ(*

Z:

%

ʻ ʻR.ʻC Q' / %ʻ +ʻ .ʻ; ,5,<.5ʻ 455.1ʻ.67ʻ'559
- 6 7.1ʻ5.6ʻ?5';.6ʻE,17.6ʻ>'<6ʻ5" ?1,- <;.ʻ>.ʻK,: 8ʻ.7ʻ5.ʻ
; ,5,<.5ʻ>.ʻa5.< .1ʻ..55.6ʻ>'<6ʻ5" H <5'<>.%
.ʻ;, /7.ʻ>.ʻ 7' .50.1Jʻ " 1.;4ʻ4<ʻ;,411 .1ʻU.ʻ .ʻ
7.160?41Jʻ </.> '7. /.<7ʻ '?1.6ʻ 5ʻ " .4ʻ44.ʻ5,<J4.ʻ
; ,<E.1.<;.ʻ'-.;ʻ5.ʻ / < 671.ʻ0<7'<< =4.%

#a%

ʻG & ʻ2 A* ʻ/ '<,.4-1.6ʻ>.6ʻ71,4M
?.6ʻ1'66. / 05..6ʻ ;ʻ ,<7ʻ .7.ʻE < .6ʻ0 .1ʻ5.ʻ?1 <;.ʻ1, ʻ5ʻ
.<ʻ "97.ʻ71.6ʻ6'7 6E' 7ʻ'-'<7>.ʻ5.6ʻ;,<J9> .18 5ʻ">,<7 .ʻ
4<ʻ>.Q.4<.1ʻ '4@ʻ,EE ; .168.74<.ʻJ1'7 E ;'7 ,<ʻ.<ʻ'1J.<7ʻ
'4@ 6,46 ,5E ; .16ʻ .5ʻ6,5>'76%
.6ʻ E1.J'7.6ʻ5.ʻ % A ʻ.7ʻ5" G &ʻB4T
1,<7ʻ '1 / ..6ʻ.<ʻ> 5 J.<;.%
<<'- 1.ʻ>.ʻ 5.ʻ>.ʻ ' <7. #1,5@8ʻ;:'1J9ʻ>.ʻ64;1.ʻ
.7ʻ >.ʻ14<78ʻ - .<7ʻ> '11 -.1ʻ ; N 5ʻ'??,17.ʻ5"<,4-.55.ʻ
; :.46.ʻ =4.ʻ5" 1 ;,55.ʻ>.ʻ5";:'<<.ʻ" 64;1.ʻ" 7ʻ71 ʻ
/ .> ,;1.ʻ;.77.ʻ'<<..ʻ>'<6ʻ5.6ʻ5 .6ʻ>'7 , 6.6%
ʻ .ʻ<, / 01.ʻ>.ʻ0'7 / .<76ʻ >.ʻ> -.16.6ʻ <'7 ,<6ʻ=4 8ʻ
>.?4 6ʻ5.ʻC ʻ>.ʻ;.ʻ/ , 686,<7ʻ?'66 ʻ?'1ʻ5.ʻ 4<>8ʻ6 .ʻ
5.-.ʻ" C*ʻ8ʻ >,<7ʻ ʻ,<7ʻE' 7ʻ -, 5.ʻ?,41ʻ5" / .1ʻ>4ʻ
,1>% $ G

! %

ʻ ʻ ʻ ʻ+ .ʻ>4.ʻH1.>.1 ; 4J.<.ʻ>.ʻ
417. / 0.1J8ʻ J1'<> ?.1.ʻ / '7.1<.5ʻ>.ʻ '1;: >4;0.66.ʻ
'1 . ,4 6.8ʻ / ,17.ʻE5.1< / . / .<78ʻ .7ʻ5.ʻ?1 <;.ʻH.1M
> <'<>8ʻ6,<E 568ʻ0 1 7.<7ʻ>.ʻ5" <, 7 .ʻ>.ʻ5"64;.66 ,<
>.ʻ;.77.ʻ?1 <;.66.% 55.ʻ6 .5.-.ʻ" ʻ / 55.ʻE5,1 <6ʻ>.ʻ
1.<7.%
ʻ %.ʻ ;,5,<.5ʻ?1466 .<ʻ K E6;:,E6 [.1>.18ʻ=4ʻ" .7ʻ
71,4-.1ʻ . / ?.1.41ʻ.<57'5 .8- .<>1' ;ʻ'-..ʻ 8ʻ %ʻ <ʻ
V '77.<>ʻ'466ʻ5,1>ʻ 5J <%
.6ʻ / < 671.6ʻ / .> '7.416ʻ.7' .<7ʻ.<;,1.ʻ2ʻ 67,-.ʻ5.ʻ
CCQ4 <ʻ 56ʻ -ʻ1.67.1,<7Q46=4>ʻ '11 -..>.ʻ<,4-.55.6ʻ
<6714;7 ,<6ʻ>.ʻ5.416ʻ;,4168ʻ1.5'7 -.6ʻ'4@ʻ; 1;,<67'<;.6ʻ
';74.55.6%
" <,4-.55.ʻ>4ʻ>.?'17ʻ>.ʻ '1 6ʻ>4ʻ1, ʻ>.ʻH1'<;.8ʻ
>.ʻ5"1. <.ʻ.7ʻ>4ʻ>'4?: <8ʻ.7ʻ;.55.ʻ>.ʻ5.41ʻ'11.67'7 ,<8ʻ
6,<7ʻ'11 -..6ʻ ;ʻ5.ʻ ʻQ4 <%ʻ <ʻ" .@?>> .ʻ641 5. ;:'/?ʻ
4<ʻ ;,411 .1ʻ.@71',1><' 1.ʻ" . / ?.1.41ʻ8ʻ=4ʻ?1,0'ʻ
05. / .<7ʻ'41" '7.ʻ <E,1 / .ʻ>.ʻ;.7ʻ - <. / .<7ʻ?'1ʻ>.6ʻ
; ,411 .16ʻ=4.ʻ ,<ʻ'41"E' 7ʻ?'17 1ʻ>.ʻK,<<%

ʻ$! ʻ ʻW ʻ+ʻ < / '<>.ʻ>.ʻ .<<.8ʻ5.ʻ
ʻQ4 <8ʻ=4.ʻ5" -. 55.ʻ 5ʻV .67ʻ'11 -.ʻ71, 6ʻ;,411 .168ʻ 4<
>.ʻ 67,-.8ʻ '471.ʻ>.ʻK.15 <8ʻ.7ʻ5.ʻ71, 6 . / .ʻ>.ʻ 5'<ʻ
7.416ʻ>.? ;:.68ʻ> 7 ,<8ʻ>, <.<7ʻ5.6ʻ?546ʻE,17.6ʻ.6?.ʻ
1'<;.6ʻ?,41ʻ5"6 J<'741.ʻ71 ʻ?1,;:' <.ʻ>.ʻ5"?' @%
<ʻ?'15.ʻ>.?4 6ʻ=4.5=4.6ʻQ,416ʻ> 4<.ʻ=4'>14?5.ʻ'5M
5 '<;.ʻ .<71.ʻ . / ?.1.418ʻ5"K466 .8ʻ5" 1466.ʻ .7ʻ5"
4.>.8ʻ=4ʻ6.J'1'<7 1,<7ʻ5.416ʻ.7'76ʻ1.6?.;7 E6ʻ> '?1.6ʻ
'11'<J. / .<7ʻ?1.'5'05.ʻ]4 -'<7ʻN
" 1466.ʻ';=4.11" '<70 ;ʻ .7ʻ :,1<ʻ5" / ' 6,<
> 471 ;:>ʻ'41"5.6ʻ5 / 7.6ʻ1 J5>.6ʻ> '?1 ʻ5.ʻ71' 7.ʻ>.ʻ
% '66'1, [70ʻ5" 4 6 .ʻ'41" ;0' , [ʻ .7ʻ5.ʻ> 671 ;7ʻ.<M
71.ʻ5.ʻK,J .7ʻ5.ʻ < .67.18ʻ.7ʻ,<ʻ>,<<.1" "5" 4.>.ʻ4<.ʻ
<,4-.55.ʻ?'17 .ʻ>.ʻ5"H <5'<>.% <ʻ 'Q,47.ʻ=4.ʻ5. ʻ'EM
E' 1.6ʻ>.ʻ / ?1.ʻ'-.;ʻ5"H1'<;.ʻ.<71.<7ʻ?,41=4.5=4.ʻ
;:,6.ʻ>'E76;.ʻ?5'<%
5ʻE'47ʻ.<ʻ;1, 1.ʻ5.6ʻ5.771.6ʻ>.ʻ 1.6>.8ʻ5 95.;71 ;.ʻ.67ʻ
.<;. <7.% +ʻ .6ʻ / / .6ʻ5.771.6ʻ> 6.?7ʻ'466ʻ=4.ʻ .5.,ʻ
7.41ʻ;,<-,=4.1" <#.66' / / .<7ʻ5.6ʻ .7'76%
<ʻ>;1 7ʻ>.ʻ #,5,J<.ʻ=4.ʻ ,<6 .41ʻ .7ʻ %ʻ> 17, 6ʻ
6,<7ʻ?'66.6ʻ5.ʻ9ʻ>.ʻ;.ʻ / , 6ʻ?'1ʻ;.77.ʻ- 55.ʻ?,41ʻ'55.1%ʻ"
K,<<% <.ʻ6,17.ʻ>.ʻ> 6;1.> 7ʻ?'1' 7ʻ5.6ʻJ'J<.1%

Gʻ ʻ+ʻ< ʻ'.

ʻG & ʻ!ʻ ʻ+ʻ <ʻ;,411 .1ʻ>.ʻ .<<.ʻ'5ʻ
5'<7ʻ"K14@.55.6ʻ .67ʻ?'66 ʻ;.ʻ / '7 <ʻ?'1ʻ;.77.ʻ- 55.ʻ 5ʻ'8ʻ
> 7 ,<8ʻ'??,17.ʻ" 5.;7.41ʻ5"<,4-.55.ʻ=4.5"?';E ;'M
7 ,<ʻ>4ʻ ,1>ʻ.7' 7ʻ641ʻ5.ʻ?, <7ʻ> 51.ʻ7.1 / < ;%

ʻ) ʻ2 + .5.;7.41ʻ.67ʻ?'17ʻ;.4 '7 <ʻ?,41ʻ
@ 5'%#:'?.55.8ʻ,4ʻ6 .67ʻ'466ʻ1.<>4ʻ5.ʻ;, / 7.ʻ>.ʻ .7ʻ
7.1< ;:Pʻ / < 671.ʻ /? 1 '5% <ʻ;,<J1.6ʻ6 V 1'66. / : .8

ʻF 3 ʻ ʻ(Q W(E.7% + .5.;7.41ʻ.67ʻ'55 ʻ: .1ʻ"6,<
;:'7.ʻ4ʻ> 6;:'77.=0,4 Jʻ 5ʻ" .<ʻ5" -. 55.ʻ5" - 6 7.>.ʻ
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>.? ;:.6ʻ?, 1ʻ .<<.ʻ .7ʻ 4<ʻ ;:'66.41ʻ?,41ʻ ʻJ>.ʻ
0,41J% <ʻ;,411 .1ʻ'<J5' 6ʻ.67ʻ'11 - ;ʻ>.ʻ .5.160,41J%
.ʻ;,<7.<4ʻ>.ʻ6.6ʻ> ? ;:.6ʻ.67ʻ.<;,1.ʻ4<ʻ6.;1.7%
<.ʻ<,4-.55.ʻ;, / ?'J< .ʻ> '15 55.1 .ʻ.67ʻ?'17 .ʻ> ;ʻ
5.ʻCUʻ?,41ʻ5" 1466.% .6ʻ'471.6ʻ;, / ?'J< .6ʻ6.ʻ?1 ?'ʻ
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1 .<ʻ/ , <6ʻ=4.ʻE'-,1'05.ʻ'4ʻ64;;.6ʻ>.ʻ5"<.J,; '7 ,<ʻ
.<ʻ.EE.78ʻ5.ʻ / < 67.1.ʻ6 ,067<.ʻ"5";ʻ;:.18ʻ;ʻ=4ʻ?,41ʻ
1' 7ʻ 0 ; ʻ <,46ʻ ?1, .<.1ʻ;, / / .ʻ >'<6ʻ '4' 1.ʻ >.ʻ
,,7 ' <>ʻ) .<ʻ ʻ?.<>'<7ʻ
7,47ʻ .7 % 5ʻ < .67ʻ?546ʻ J4.1.ʻ?,66 05.ʻ>.ʻ6,<J.1ʻ" .<ʻ
-,V.1ʻ4<.ʻE5,77.ʻ>'>6ʻ ,1'J.46.ʻK'55 =4.1ʻ .5ʻ 6.1' 7ʻ
,05 J .ʻ>.%1.-.< 1ʻ?546 .416ʻQ,416ʻ'-''75 =4<,@.ʻ>.ʻ
6.?7. / 01.% .67Dʻ"?'17'J.1ʻ;.77.ʻE5,77.ʻ.<ʻ>.4@ʻ.6;'ʻ
>1.6ʻ 4<.ʻ?,41ʻ 1;:?.58ʻ '471.ʻ?,41ʻ <>.8ʻ;'1ʻ6.%
;,<7.<7;1ʻ> .<ʻE' 1.ʻ4<.ʻ0.55.ʻ / , 71.8ʻ4<.ʻ1.-4.ʻ0.55ʻ
5'<7.ʻ?,41ʻ& ' / 46. / .<7ʻ>.ʻ5"E' / 55.ʻ1,V'5.8ʻ5ʻ<V "
?'6ʻ / ,V.<ʻQ5.ʻ?.4?5.ʻ'<J5' 6ʻ < .<7.<>1' 5ʻ?'6ʻ=4 ,<
> ?.<6ʻ7 ' <6ʻ6,< '1J.<7% +ʻ ,46ʻ< '-,<6ʻ?'6ʻ.<;,1.ʻ1
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7 ,<ʻ>.ʻ 1'<;.% .ʻ?1,;:'<ʻ ;,411 .1ʻ6.1" ?1,0'05.ʻ
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> 7ʻ" ;:.-'5ʻ .7ʻ.<ʻ4<E,1 / .ʻ>.ʻ;,5,<.5ʻ>.ʻ6.6ʻJ'1>.6%
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64?.10.ʻ7.<7.% .ʻ1.7,41ʻ>.ʻ5".,41ʻ>'<6ʻ;.77.ʻ;'?7'7.ʻ
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.7ʻ5"?' .ʻ>.ʻ7,47.ʻ '1 / ..%
.6ʻ '41.6ʻ <;, / / ,>.<57,4Q,416ʻ5"J'1< 6,<ʻ> ʻ
1'<?'15.ʻE.4;,<7 <4.5ʻ>.ʻ / ,46=4.7.1 .8ʻ>,<7ʻ?546 .4 /ʻ
6,5>'76ʻ.7ʻ=4.5=4.6ʻ,EE ; .16ʻ,<7ʻ7 ʻ05.66 '%
.ʻ>.E'47ʻ>.ʻ5,J. / .<7ʻ,05 J.ʻ5" / 'Q.41.ʻ?'17 .ʻ>.6ʻ
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7 ,<'5.68ˢ.7ˢ.<7,41..ˢ>.ˢJ .6ˢE,45'<7ˢ'4@ˢ? .>6ˢ5.6ˢ
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<, /ˢ>4ˢ;, / 7.ˢ>.6ˢ>, / '<.68ˢ -,46ˢ'-.0ˢ-4ˢ>.6ˢ/ %
< 671.67'<7 7ˢE' 05.68ˢ7'<7#7ˢ?1.-'1 ;'7.41.8ˢ,<ˢ'47, G
1 6.1ˢ?'1ˢ5.41ˢ7,5.1'<;.8ˢ,<ˢE'-,1 6.1ˢ?'1ˢ5.41ˢ;1.>78ˢ
=4.5=4.6 4<6ˢ>.ˢ;.6ˢ';7.6ˢ;,5546, 1.68ˢ =4 8ˢ6,46ˢ5.ˢ
<, /ˢ> .;:'E J.8ˢ>.ˢ-.<7.ˢ,4ˢ>.ˢ>,<'7 ,<8ˢ,<7' / .<.ˢ
1'? >. / .<7ˢ5" / <.ˢ>.ˢ<,6ˢ><'E7;.6ˢ.7ˢ5">5'? >'7 ,<ˢ
>.6ˢ>, / '<.6ˢ>.ˢ5" ;,41,<<.I' / '6ˢ,<ˢ<.ˢ-,46ˢ.<"
?'6ˢ.<;,1.ˢ / ,<71.ˢ'046'<7ˢ'66.0ˢ>.ˢ5"E'-.41ˢ>.6ˢ1, 68ˢ
?,416 '??1,?1 .1ˢ?.16,<<.55. / .<78ˢ?'1ˢ>.6ˢ>,<'7 ,<6ˢ
> 1.;7.68ˢ 4<.ˢ?,17 ,<ˢ;,<6 >.1'05.ˢ>4ˢ?'71 / , <.ˢ>.ˢ
55 7'7Iˢ . .67ˢ;.<71.ˢ<<ˢ'<; .<ˢ'046ˢ>.ˢ;.ˢJ.<1.8ˢ71,?ˢ
6,4-.<7ˢ / E.ˢ>.?4 68ˢ=4.ˢ5.6ˢ'> / < 671'7.416ˢ>4ˢ>.ˢ
?'17. / .<7ˢ>4ˢB'47 B0 <8ˢ.7ˢ;.4@ˢ>.6ˢ> 671 ;76ˢ>.ˢK>ˢ
5, 17.7> 55 1;:8ˢ <-,=4.<7ˢ->71.ˢQ467 ;.%
">,<'7 ,<ˢ=4 56ˢ-,46ˢ>><,<;.<78ˢ .7ˢ>,517ˢ<,46ˢ
-,46ˢ.<71.7 .<>1,<6ˢ>'<6ˢ;.ˢ1'??,17% .67ˢ;.55.E' 7.ˢ
'4ˢ;'1> <'5ˢ 'O'1<8ˢ?1. / .1ˢ / < 671.ˢ>.ˢ ,4 6" 8ˢ
.<ˢ 9 *8ˢ / / .> '7. / .<7ˢ'?E.6ˢ5"6 J<'741.ˢ>4ˢ71' 7.ˢ
>.6>GV1.<..68ˢ>4;, <7.ˢ>. H.11.77.%.7ˢ>.6ˢ6. J<.41 .6ˢ
>.K.E,178ˢ .55.8ˢ :'<<8ˢ 57 1;:ˢ.756.<:. / 8ˢ6 777Wˢ
>'<6ˢ5"; >.-'<7ˢ?1,-<;.> 56';.8ˢ.7ˢ1.4< 6' ';,4%ˢ
1,<<.ˢ. ˢ 9U*ˢ?'1ˢ5.ˢ71' 7>ˢ>.ˢ .67?:'5 .%
#.6ˢ6. J<.41 .6ˢ.7ˢ;.ˢ;, / 7.ˢ;, / ?,6'<7ˢ.<ˢ?'17 .ˢ;.ˢ
=4 ,<ˢ'??.5' 7ˢ'471.E, 6ˢ5.ˢ 4<>J' [ˢ ,<7ˢ.7. ;.>>6ˢ"
5"H1'<;.ˢ.<ˢ <> / .ˢ7. / ?6ˢ=4.ˢ5" B'47.ˢ .7ˢK'66. ˢ
6';.8ˢ?'1ˢ5.ˢ71' 7.ˢ>.ˢ 4<67.18ˢ=4ˢ'6641"" / ?1.ˢ
4<.ˢ;,<67 747 ,<8ˢ.7ˢ"5"H1'<;.ˢ4<.ˢ?1,-<;.%
ˢ .?,=4.ˢ>.ˢ5";,<=4>7.8ˢ?,66.>>6ˢQ [1ˢ4<.ˢ01'<;:.ˢ
/ ?>1 ˢ5. "7 71.ˢ?'71 / ,< ˢ5ˢ .7:.1>> 7' 1.8ˢ 56E,1ˢ
/ ' .<7ˢ '?'<'J.ˢ>.ˢ>.4@ˢ?1<;.6ˢ>.ˢ;.77.ˢ01'<;:.8ˢ
H.1> <'<> #:415.6ˢ.7ˢ J6 / ,<> H1'<;, 68ˢ >>6 J<.6ˢ
>'<6ˢ5.ˢ71' 7>ˢ6,46ˢ5.ˢ<, /ˢ> '1;: >4;6ˢ' <6?14; %#.6ˢ
?1<;.68ˢ.<ˢ1.<,<?'<7ˢ>.ˢ;,<;.17'-.;ˢ . / ?;1.41ˢ.7ˢ
5.6>7'76ˢ>.5 / ?1.8ˢ"7,47.6ˢ5.6ˢ?'17 .6ˢ> 671' 7.6>.ˢ
'66,; '7 ,<ˢJ.1 / '<=4.ˢ'4ˢ?1,E7ˢ>.ˢ5";,41,<<.8ˢ
1.;5' / .1.<58ˢ;,1' / .ˢ?1,?1>7' 1.6ˢE,<; .16ˢ.7ˢ.<ˢ=4"
5 7.ˢ>.ˢ?,66.66.416ˢ7.11 5,1 '4@8ˢ4<.ˢ <>. / < 7>Iˢ .7ˢ
;.77.ˢ <>. / < 7>ˢ E47ˢ @>.ˢ> 4<.ˢ?'17ˢ"5"6, / / .ˢ>.ˢ
71, 6ˢ / 55 ,<6ˢ7,41<, 68ˢ?'V'05.6ˢ?.<>'<7ˢ5.ˢ;,416ˢ>1"
'/ >.6ˢ 9U*8 9 ˢ.5ˢ 9 8ˢ4<ˢ7 .16ˢ?'1ˢ;:'=4.'<<.ˢ
>'<6ˢ5"- 55.ˢ>.ˢK>5.% .ˢ1'451.85''H1'<;.ˢ] .<J'J."
'';=4 77.18ˢ "5" >>;:'1J.ˢ>.6ˢ'1;: >4;68ˢ5.6ˢ>.4@
7 .16ˢ>.6ˢ>.77.6ˢ,4ˢ . / ?14<76ˢ>.ˢ5" .0' / 01.ˢ>56.<ˢ
0. / 8ˢ.6?>..ˢ>.ˢ71 04<'"ˢ>.ˢ?,5 ;.8ˢQ467 ;.ˢ.7ˢE<'<;.68ˢ
>,<7ˢ5"Q 1 > ;7 ,<ˢ6 .7.4>' 7ˢ<,<ˢ6.45. / .<7ˢ641ˢ5.6ˢ
0 .<6?'71 / ,< '4@ˢ>. " / '6,<ˢ> 471 ;..<ˢ 56';.8ˢ
/ ' 6ˢ.<;,1.ˢ641ˢ=4.5=4.6ˢ?'17 .6ˢ>.6ˢ?1,-<;.6ˢ-, ˢ
6<.6% #.6ˢ>.7' 56ˢ64 7 6.<7ˢ?,41ˢ6.ˢE' 1.ˢ4<.ˢ>.ˢ>.ˢ
/ ?,17'<;.ˢ>.6ˢE.E6ˢ?,41ˢ5.6=4.56ˢ,<ˢ<.ˢ;1' J<'7ˢ
?'68ˢ>'<6ˢ4<ˢ / , / .<7ˢ>.ˢ>>71.66.8ˢ>.ˢ6';15 .1ˢ
6, / / .6ˢ'466ˢ;, 6 >>1'05.6ˢ=4.ˢ; <=ˢ"6 @ˢ/ 55 ,<6%
'1J.<7 .7' 7'5,16ˢ"C9ˢ5 -%5.ˢ/ '1;Iˢ' <6ˢ;.ˢ< .67?'6ˢ
71,?ˢ>-'54.1ˢ <>. / < 5>ˢ=4.ˢ>.ˢ5"?,17.1ˢ'">@ / 7ˢ
1,<6ˢ>.ˢ<,6ˢ5 -1.6ˢ ';74.55.68ˢ .6ˢ'1;: >4;6ˢ ,<7 .7>
.@';7. / .<7ˢ?'V.6% \
.6ˢE .E6ˢ>4ˢ 4<>J' ['-' .<7ˢ'??'17.<4ˢ2ˢ4<.<' ˢ
6,<ˢ6,4-.1' <.Iˢ 56ˢ>7' 1<7ˢ>.-.<46ˢ5"?'17 .ˢ5"?<6ˢ
?1.; .46.ˢ>.6ˢ>, / '<.6ˢ>.ˢ5" ;,41,<<.ˢN ; ;<ˢ
'66.0ˢ?,41ˢ=4.ˢ5.ˢ;'1> <'5 / < 671.ˢ.<>.6 1>7ˢ?'66 ,<ˢ
<. / .<7ˢ5" ?,66.66 ,<% ˢ E,1 / " >,<.ˢ6,<ˢ?5'<ˢ>.ˢ
;,<=4>7.Iˢ . 78ˢ?,41ˢ'6641.1ˢ5.ˢ64;;>68ˢ5ˢ;, / / .<7ˢ
?'1ˢ.;'17.1ˢ4<ˢ641-. 55'<7ˢ <;, / / ,>.8ˢ .<ˢ>7'<75;ˢ
J,4-.1<. / .<7ˢ>.ˢ 56';..75"?1.E.;741.ˢ>B'J4.<'"
'4ˢ;, / 7.ˢ>B'1;,4178ˢ.7ˢ6,<ˢ64;;.66.418ˢ>'<6ˢ;.6ˢ>.ˢ5ˢ
. / ?5, 68ˢE47ˢ5.ˢ;'1> <'5ˢ 'O'1<ˢ54 / > / .% #.ˢ?1.M
/ .1ˢ?'6ˢE' 78ˢ / 5ˢ,067';5.ˢ<.ˢ?'1' 66' 7ˢ?546ˢ>.-, 1ˢ
'11>7.1ˢ;.ˢ / < 671.ˢ>'<6ˢ6.6ˢ>.66. < I '10 71.ˢ'06,54ˢ
>.6ˢJ1>..68ˢ>6?,6'<7ˢ>.ˢ7,47ˢ6,41.1' <. / .<7ˢ?'1ˢH'6ˢ
#.<>'<7ˢ=4 5ˢ'-' 5ˢ';=4 6ˢ641ˢ .6?1 7ˢ>4<ˢ1, ˢQ.<?.ˢ
.76'<6ˢ .@?.1 .<;.8ˢ 5ˢ 64EE 6' 7ˢ =4 5ˢ>. / '<>>7?.'1ˢ
,07.< 1Iˢ / ' 6ˢ 5ˢ.67ˢ:,16ˢ>4ˢ;.E;5.ˢ>.6ˢ;,416ˢ4,.ˢ
'47,1 7.ˢ=4.ˢ5.6ˢ1, 6ˢ.7ˢ5.6ˢ< < 671.6ˢ<.ˢ1<>?7 6.<7

'6 7,4Q?416 /?<<>/.K78 .7 ..77.'?4 66'<;.' 1.' ,47'05.' ; .67 -,?<,< ?<05=4.% .' ;'1> <'58 =4, =4.'>.6?,7.8 =4, =4.'7,47 ?4 66'<78 6.<7 7 5.' 0.6, < >.' 5'' /'<'J.18 .7 5 1>6,547 > '77.<>1.' '4 4<.',;;'6 ,<E'1,1'05.'1.<>57 .<-': 6 . / .:7>.6 ', / ' <.6 <'7 ,<'4@ > 56';.' / , <6 ,> .4@I .55.'6.' ?1>6.<7'' =4.5=4.'7. / ?6 '?1 6>'<6 5'' ;,<;546 ,<>.' 5''?' @'-.,' 6?'J<.% %
'' >,<'7 ,<= 5 5 7 E' 1.' .67 >4 / , 6 >.'>>;. / 01.' >.' '<<>.' 9 *% 55.' .67 >'7>.'>.' ,45,46.8 =4.'5'' ;,41'<.'=4 77''=4.'5.'C('?,41 6.'1.<>1.' .< 1,- <;.%
.@?,6>'>.6 5.771.6 >.'>,<;,<7 .<78 ;, / / .'; .67 46'J.'>'<6 ;.6; .<67'<;.68 7 < >5,J.'?, / ?.4@'>4 >,<'7' 1.% .55.'E47 7,4Q,416 .<H1'<;.'1:.41.46.'>.6' 7 <>.'>.6 :, / <.6 ?4 66,<768 =4 56 <,<7 ?4 Q 71.'.<' 1;: 6 6'<6 >71.'.< / <-.'7. / ?6 5, .6%
@ :4 7 > - <J7 / , 6 6 >7' .<7 ''?. <.'>;,45.68 >. ' ?4 6%=4.'5.';'1> <'5 6 >7' 7 / 6 .<'?,66.66 ,<>.6 E .E6 , 56';.8 5,16=4.'5'% / ,171 <7 / .771.'4< 7.1 / .'' 6.6 ?1,6?.1 7>6;7 ''6.6 Q,4 66'<;.6% .6 1.1',1>68 '-'<7' ;,41.416 >.'6''E <?1,;:' / .'Q 71,405.1.<7 6.6 >.1< .16 / , / .<768 %.7 .<J'J.1.<7 ''>,<<.1 6.6 0 . 6 '4 1, % 55 E'55' 7 5.6 1.67 74.1''4 ?.,?5.8 .7 5.'?.,?5.'.>7 0><' 6'' / > / , 1.I < .74 7 6'<6 >,47.'5.' / . 55.41 / ,V. '>.' ;'5 / .1 6.6 6;14?45.6I / ' 65.'?.,?5.'<.E57 ?'6 1.' ?,466>'5''>,<'7 ,<8 .7 5.' / ,<'1=4.'5.'E 7% '?.1 / 7 '4 ;'1> <'5 >.'>6?,6.1 >.'6'' E,174<.I .7 5.' / < 671.' 6;14?45.4@ ,.' / '<=4''?'6 >V ;, / ?1.<>1.'.7 5.6 J, ' -.1<. / .<76 .7 ,EE ;.6 -';'<768 .7 ;.4@ >,<7 5 >7' 7 ?,41 % 5 5.6> 671 0 '' 7 6.6 :, / 01.4@'?'1.<76I 5 ';:.-'' '<6 ' >.' ?1,41.1 =4 4< ?1. / .1 / < 671..< H1'<;.'<.'?.47 ?'6 / , <6 ?,41 .@'57'7 ,<>.'6''E'M / <.8 =4.'5.'6,<1.1' < ?,<7 E.'5.'?546 .<7>7>'>.6 >..6 >.'<>?,7 61'.%
#.7 / / .<6.':>1 7'J.'E 55 J1.->8 '-.;' 'J1> / .<7 >4 1, 8 =4 ''??1,4-''5.'7.67' / .<7 >'<6 >.4@ ,;;'%6 ,<6 > EE. 1.<7.68 6, 7 '-'<78 6, 5 '?17.'5'' / ,17>4 ;'1> <'58 > 4<.' 64067 747 ,< <>.5 < .8 =4 ' . / 01'66.'7,<6 5.6 6.@.6 .77,47.6 5.6 01'<;:.68 Q46=4 ' .@7 <;7 ,<7,7'5.' >.'7,46 5.J <> - >46 >.'5''E' / 55.' 'O'1 <.% # .67 .< -.174 >.';.57.'>6?,6 7 ,<=4''??.55.'5.6 E 55.6 '4 >. ' E'47>.' / '5.68 =4.'5.6 0 .<6> 56';.'&;'1'<,46 <.'>. ' -,<6 <,46 ,;;4?.1 =4.'>. @P'?1E.''-, 1; 1;45.8 ?'1 5.' / '<'J.'>.' :>1 7 E.1.'>4 >.1< .1 >4.'>.'5'' . 55.' 1' .8 >'<6 5.6 E' / 5 .6 >.' 41'6.7 > 4 / ,<78 6,<7 ?'66.6 '' % >.' '5.<7 <, 68 >4 ;:.E >.'6,<>?,46.8 5 55.'4< =4.'> 5 6'0.7:'>.' 41'68 .7 >. %%%%%%%8 . _>. -'<7 >4.%> 4 / ,<7%
/ .<.' ?'1 5.'1.; 7 >.6 E'76\ ;, / / ;' .< ?1.6.<;.' >.6 ?'17 .6 <7> .66>.68 ; .67 >.-' 7 > .6 =4.'Q.-' 6 >7'05 18
Ď34.'5'' >,<'7 ,<>.' 9 *8 =4.' 5.' ;, / 7.'-,46 ?1,?,6.'>.'1>1,=4 .18 '' .7>641?1 6.'641 4<'E'4@ .@M ?,6.I
CĎ34 .55.'.67;,<71' 1.''4@ 5,76 E,<>' / .<7'51''>.' 7'7I) ')
Ď34 .55.'E478 >.'5''?'17>4 ;'1> <'58 5.'E14 7 > 4<.' ;4? > 7> <> 6.1>.'>'<66.6 / ,7 E68 .7>'<J.1.46.'>'<6 ' !!
.67 >'<6 5''>,<'7 ,<.55. / / .8 ; .67 >'<6 5''>,M <'7 ,<6.45.'=4.' .'?4 6.1' '5''?1.4-.'?? / ?5.5.'>.'5'' E.5,< .'>4 ;'1> <'58 .7 >.'5''641?1 6.'?41 54 'E' 7.' '' 5'' 1.5 J ,<>4 / ,<'1=4.%
#.77.'641?1 6.' .7 ;.77.'E>5,< .'1.6457.<7 >.';.'=4.'5.' ?1<; ?'5 / < 671.'''E' 7 <6>1.1 >'<6 5.6 5.771.6 >.'>,< >.6 .<,4; '7 ,<6 E'466.6 =4 '<.'?,4-' .<7=4.';, / ?1, ' < .771.'5'' / 'Q.67>1,V'5.8 .< / .77'<7 .< ,??,6 7 ,<5.' 5'<J'J.>4 ?1<;.' '-.;'>.6 ';7.6 '470.<7 = .6 .7 5.6 5, 6 E,<>' / .<7'5.6 >.' 7'78
5 .6 1.6457.<7 >.';.'=4.';.6 ><,<. '7 ,<6 / .<6,<' J>1.6 < '-' .<7 ?,41,0Q.7 =4.'>.'E';5 7.1 5.'>,<8 .< >>714 6'<7 5.6,067';5.6 =4.'5.'>1, 7?405 ;'>4 1,V'4 / .' '??,17' 7 ''6.6 -4.6 ' / 0 7 .46.6%
5 5 .61>6457; 7 >>' #.'=7 5 '-' 7 ' ;. / / .' :< 671.']

4<.';,<<' 66'<;.'?.16,<<.55.8 <7 / .'.7 ? / 7 ;<5 >1.' >.'5''E'466.7>'>.%6 E' 76 =4 5 <.';1' J<' 7 ?'6 >.'?5';.1 >'<6 5''0,4;:.'>4 / ,<'1=4.%
<E< ;.77.'641?1 6.'.7 ;.77.'E>5,< .'1>6 .<7 >.';.' =4.8 >.?,6 7' 1.'4< =4.'.7 .@;546 E>.'6,<'45,1 7>'.7 >.' 6'' ;,<E '<;.8 5 <.'6 .< .67 6.1-' =4.'?,41 5.' 71, / ?.1''-.;'?546 >.'E'. 5 7>'?,41 6,< ?1,E 7 ?'17 ;4 ' 5 .18 .7 '4 J1'<>'15>71 / .<7 >.'5'' ;:,6.'?405 =4.%
5'' 71, / ?.' 5.' ?1 <;.8 .< 54 '> 66 / 4E'<7=4.%5.6 E .E6 > 56';.''-' .<7 >7>1.4< 6 '' 5'' ;, 1,<<.'?'1 5.' 71' 7>'>.' .6?5 '5 ;' .< 9U)8 .7 =4 56 >7' .<7 ?'1 5'' >.-. 46 <'5 .<'05.6% 5 '' 71, / ?>'5.'?1 <;.'8 .< 54 ' ?1>6.<7'<7 ;.6 / > / .6 E .E6 <,<6.45. / .<7 ;, / / .'<,< 1>4< 68 / ' 6 / > / .';, / / .'> 6?,< 05.68 5 6''-,5,<7>% .';,<;546 >.' .@ 67.<;.'>.';.6 .11.416 =4 .55.6 ,<7 ,4-1'J.' >4 / < 671.% ''Q46=4 ;'1' 6,<<>'>'<6 ;.77.':V?,7:>6.8 5 6 'J 7 >.' >7'05 1%
< ,1, 78 7,47.'> 66 / 45'7 ,<E1' >< .<6.'.< 4< ';7.'.67 ;.<6>.' ;.4-1.>.';.54 5=4 ?1,7 7.>4 >,5% #.77.' ?1>6, / ?7 ,<>.'5''5, '';;46.'5.';'1> <'5 ''5''E, 6 >, ' <'7.41 .7 >,<'7' 1.% : 67, 1.'.7 5.6 E' 76 ?'15.<7 ?546 :'45 .<;,1.%
>?,=4.', 5 5.6 5.771.6 >.'>,< E4 .<7 .@?.>>.68 ,<<.';,<<' 66' 7 .< H1'<;.'>'47,1 7>'=4.'5''6 .<<.'8 > '471.'5, '=4.'6''-,5,<>I 7,476.'E' 6' 78 6.'>,<<' 7 ,46 4;:.7' 7 ?'1 6,< <E54. ..I 5 '-' 7 '0,5 ' 46'J.' >.6 ;,<6. 568 .5 6.45 5 : <' 7 5.6 1><.6 >.' . / ? 1.% #.' <>7' 7 ?54685.'7. / ?6 ,:8 <;.17' < >.'6''>.67: >.'.7 >.6 0,1<.6 >.'6,< #1.> 78 5 ;0.1;:' 7 4< '6 5.'.<7.11.' >71'<J.1.'8 ;.<71.'>. ' '11>76 >.'?1,6;1 ?7 ,<I 6''?'M 7 .<;.''-' 5 5'66.'5.6 :' <.6I - ;7,1 .4@ >.'7,47.6 5.6% E ;7 ,B 8 '1>J<' 7 641 5''H1'<;.'.<>.6?,7.8 '4 <, / ' > 5 <1, '>.67 <>'5 5 >.'J '<>.6;:,6.68 / ' 6 Q.4<.8 .7 >,<7 5 ;'1.66' 5 5.6 ?'66 ,<6 ?,41 5.'7.< 1 '17>'>.6 'EE' 1.6I 5''6.45;''' 5'=4>5.' 5 <.'54 '?.1 / 7 ?'6 >.6.' 5 -1.1 >5' 5 5.' 0.6, < =4 5 >?1,4-' 7 >.'E' 1.'>.6 0.<1.4@% .'?1<;.'';;,1>' 7 5 =4.5=4.'J1>..8 =4.Q ' =<.'. / ?5, 8 5.' / < 671.'.<> 6?,6' 7 '471. / #<78.7 ;.<' 641' 7 5.' / ,<'1=4.'. '54 '> 6'<7I $ ' ß ' L' ' LA ! 5 .7 =4.'E' 6' 7 5.' / < 671.Z 5 -.<>' 7 ;.'=4.'5.'1, ' '-' 5 >,<<>% 8
,71.' >1, 7 ; - 5 ?1,6;1 7 ;.77.'>,<'7 ,< ;, / / .' .EE.7 <>..66' 1.'>'' >.5 .7 >.'> 66 / 45'7 ,<6 '17 7 ' ; .46.6I ; .67 ;.'=4.'Q.'- .<6 >.'?1,4-.1%
,71.' >1, 7 ; - 5 5 ' '?1,6;1 7 ;, / / .' ;,<71' 1.' '< >,J< .'>.'1 <'5 ;<'0 5E7.'>.6 >, / ' <.6 >.'5'' ;,41,<<.8 # .67 ;.'=4.Q.'>, 6 >.< ,<71.1 / ' <7.<'<7
< / '7 >1.'>.'>, / ' '5 7.'.7 >.'1.4< ,<8 5.6 ?1<\' ;?.6 6,<7 6 ';,<<46 .7 ,<7 ;7.'6 '6,4-.<7 .@?,6.6 >'<6 66. / 0 .8 =4.';.'6.1' 7 '046.1 >.'6.6 / , / .<76 =4.' >.' / 457 ?5 .1 5.'' ; 7'7 ,<6 ?,41 ?1,4-.1 =4.'5.'?1 <;.' .P H1'<;.'< ''Q' / ' 6 ?4 8 6'<6 .@;.>.1 5.6,,1<.6 >.6'' ?1.1,J'7 -.8 > 6?,6.1 >.6 >, / ' <.6 >.'5'' ;,41,<<.' ?'1 1.<7.',<'47 . / .<7% #.'?, <7>.'>1, 7 ?405 ;8 1.67.' ?1. . .4@ .74< =4.'>.'<,6 '<; #<<.6 <67 747 ,<68 .7'<7 ;,<67'<78 5.6 E' 76 6.456 >. / '<>.<7 '' >71.' .@?5 =4.6% 56 >7'05 66.<7=4 '1'<7 5'>,<'7 ,< >.' 9 *' 5.6 5.5 ' >4 4<>J' [8 .>>.6 '4 ;'1> <'5 'O'1 <8 '-' .<7 >7> 1>4< 6 >.4 'E,Q6 6,5.<<.55. / .<7 ' ' 1,V'4 / .' .7 '' 5'' ;,41,<<.'>.'H1'<;.8 .7 =4 56 E,1 / ' .<7 ' <6 '?'E7 .' <7>J1'<7.' >4 >, / ' <;' ?4K ;' 5 .?,=4.'>4 >,7 8 ';7.'=4 '' > 671' 7 ;.6 E .E6 >.'5'' / '66.';, / / 4<.', 5 56 1.?,6' .<7 6,46 5''6'4-. J'1>.'>.'5''5, '747>5' 1.'>.' 1 / '5 ><'0 7 7>8 E>7 5 > ' 55.416 .@. / ?78 '45'<5=4 5 .67 ?.48 >.'7,46 6,4? ,<6 >.'E1'4>.'.7 >.'<';: '->' 5 6 / .8 .67 >,<.'<45 .7 .66.<7 .55; / .<71.-,;'05.%
,47.6 5.6 ?1.4-.6 =4.'?.<7 .7 >, 7 >>6 1.1 641 ;.' ?, <7 66. / 05;.'<'7 ,<'5.'6.' 71,4-.<7 >'<6 5.6 ?'1M 7 .6 >4 7.@7.' >4 71' 7>' >.' 4<67.18 .7 >'<6 '17 ;5.' '' '>4 71' 7>'>.6 V1><>.68 =4 ';,<7 . / .<7 5'';5'46.' >.'1> < ,<>.' 56';.'.7 >4 4<>J' [8 >.6>, / ' <.6 ;7 E .E6 .<>.?.<>'<768 '4 1,V'4 / .'.7 U'5'' ;,41,<<.' _2.'H1'<;.% 8 8 '
#; ;'>,<'7 ,<' ' 41?5 6.'641 < E'4%_' 4-477,>'% :6E

,<>' .';,1.' ;,<71' 1.' '4@ 5, 6 E,<>' / .47'5.6 >.' 7'7%

'Q,47.'=4 .55.'E4 58 >.'5"'?'15'>4';'1> <'58 5.'E14 7 > 44.' ;4? > 7> '> 6;1 .'>'<6 6.6 / ,7 E68 .7 >'<J.' 1.46.'>'<6 6.6 64 7.6%

<.EE.78 5,16=4.'5.';'1> <'5 'O'1 < 6 . / ?'1"'>.6 E .E6 > 76' ;' B>7' 7 >>Q" ; ,<-.17 >.6 J1 ; .6 >.'5" ;,41% ,41-4'>.'?546 > 'OO'V.6 .7 >.' 0.<>E ;.6 =4.' < .<' '-' 5'Q' / ']' ?,66>>> 5.' ;'1> <'5 >.' ,11' <.8 >,<7 5.'E'67.' .J'5' 7 ;.5<'>.6 1, 6-' ?546 1 ;:.' =4.' > / 0, 6.8 =< 6.E5'77' 7 > . / ?,17.1 5"'7: '1.'' .<' ;'48 5 1.4< 66' 7 " ;.6 / ,V.<6 >.' ?4 66'<;.8 7,46 > / '<.6>.5"' 5 0>1'557> >.' ,4 6 " 55 8 > <<.' > 4G 71 ;0.'.7 >.' ,4 6 "5 8 >.'J1'<>.6 ;:'1J.6 .7 >.'J1'<>6 J,41.1<. / .<76% ?17.' 7'<7 >.' 0 .<E' 768 =4.56 =4.% 5466.<76. 6.1- ;.68 ?, -' 7 58 6'<6 <Q467 ;.8 ?1>' 7.<>1.' " ' <,4-.55.6 1.;, / ?.<6.6Z 5 '-' 5 0 .< E' 7 5.6 'EE' 1.6 ># 7'78 5 '-' 5 .<;,1.' / .4@ E, 5 5.6 6 .<<.6 '-.;'5.' ?1 <;.%

'<6 >, 7;' 5 E'55' 7 0 .<8 6,46 '<; .<'1.J / .8 =4' '-' 7' / .<>'5.6 :, / / ;6 E 7,47 ?.6.1'4'?, >6 >.' E,18'';;,1>.1'>;]'.<;,41'J. / .<76 ?>.<< ' 1.6 '4@;G 7,V.<6 =4' 6;' > 67 <J4' .<7 >'<6 5"' ;'11 .1.' >.6 . <' ?5, 6 ?40 .6I .78 ?4 6=4 ,<'<.'?,4-' 7 '-, 1'"5" 7>7.' >.6 'EE' 1.6 >.6 K.J45<6 ;7 >.6 #'7,<68 ?'V.1'>.6 >' 1 ; >6 .7 >.6 5; OQ'>;6I / ' 6 >'<6 ;.7 ,1>1.' / .< .'>.' ;5 ,6.68 5 .67 >.' ;.17' <.6 5 / 7.6 =4.'5"' ?14>.<;.'.7 5"1' 6,<' >.' '7 < ,47Q' / ' 6 > '?.1 / .771.' >.'>>' ?'66.1%

'1';@; / ?5.8Q.'.1> 6=4.'?,41'1>;, / ?.<6.1'5.';'1M > <'5 'O'1 /' 5 < .7' 7 ?'6 <.;.66' 1.' =4.'6.6 < .;.6 E466.<7 >,7;.6 '66.O 1 ;:. / .<7 ?,41'5 1.'1.;:.1;:>.6 =4.5=7 .E, 6 447 5. / .<7 ?'1' >.6 1,]% .' ;1, 6=4 5 < >7' 7 ?'6 <>..66' 1.'Q>';;4 / 45.1 641'54' 7'<7 >.' E'-. 16 8 =4.'6.6 71.6,16 > 6?.16.68 ?'1' 4<;' ?1>' -,V'<;.'6,4? ,4<.'6.I'>'<6 ?' .416 ?5';.6 E,'17.6 >4' 1,V'4 / .8 >.- 4 66.<7 ?,41'54'4<' ,0Q.7 > <=4 >74>.6 ;,<5 <4;55.6% ';1, 6 =4G 5< >7' 7 ?F'6<.;.66' 1.'=4 E5 ?E57Q,4.1'?'1' '<..'=4'71.' / 55.'? 67,5.68 7'<> 6 =4.' 5"1. <.8 6"O .<E' 71 ;.8 ?,4-' 72 ?. <.'7 1.1'>4'71.6,1' ?405 ;'5"6,7 / .'>.' / 55.' .;46 ?'1' / , 6% .;1, 6=4 5 .7' 7 ?'6 <>..66' 1.'> .<E1. <>1.'5.6 5, 6 >4'1,V'4 / .8 ?,41'.<1 .0 1'4<' / < 671.' =4' -.=>' 7 ?405 =4. / .<7 5.6 ;:'1J.6 >.' . / ? 1.'8'.7 6.'5 ' 7 > 'EE' 1.6 '-.;'7,46 5.6 -' / ? 1.6 >4'?.7 ?5.%

.';1, 6 .<E ' =4 5< .7' 7< <.;.66' 1.8 <'?,5 7 =4.' >.'54'>,<<>1'.<' 56';.' ?546 >.'>.4@;.<76 - 55'J.68 - 55.6 ,4'.:>7.'4@ E,1768 47 5.6 "5"'>>E.<6.'> .5 7'78 .7 =4'?,4-' .<78 ?'1' 5"64 7.8 ?'66.1' .<'>.6 / ' <6 646?.;7.6%

,47.6;.6;,<6 >>1'7 ,<6=4.Q.<.'E' 6 =4 .6=4 66.1' '-' .<7 >>7.1 / <>8 641'5"E <'>4'1.J<.'>.' ,4 6 " 8 % H1>7.'48 <6?.;7.41'>.6 >, / ' <.68 / 'J 671'5'466' 1.;, / / '<>'0 .'?'1'6,<' <7>J1.?1,0 7> =4.' ?'1' 6.6 54 / >1.68 ">. / '<>.18 " ,;;'6 ,<'> 4<'?1,..6 .@ 6' 7'<7 '4';,<6. 5 .<71.'5.6 O>1 7 .16 >/';'1> <'5 'O'1 /' .7 .416;.<6 7' 1.6 > 56';.8 5.'1.71' 7 > .6 E .E6 ;,<G ;.>.6 .<' 9 *%

Q<.'1.;47 ?, <7 '5,16 5.'?1 @>.6,<';,41'J.8 >'<6 ';:, / ?5 66. / .<7 >4' 0 .<=4 5 -,45' 7E' 1.'" 7 7%

,46 ';:.-.1.O 6,4',77-1'J.'.< 1. -,=4'<7 5.'>,<I .7 .<- 1,<<>6 >.6 0.<.> ;7 ,<6 >.6 ?;4?5;6 >.6 >>?'1' 7. / .<76 >4' B'45 .7 >4' K'6GK: <8 =4' 6,55 ; 7.<7 '-.;' <67'<;.';.'>.;1.78 ?'1'5" -,5.'>.'5.416 '> / < 671'' 7.4168 -,46 < .?1 6.1.O 5.6 ;5' / .416 / ?4 66'<7.6 >.' ;.6 :, / / .6 =4''??.5 ;<7'77.<7'7 "5" ?1,?1 ; 7.'>.6 $>E,1 / .6Q467.6 .7 7 5.68 .@. ;47.;68 <,<'. ' -.174'>.' '?1,?1.6 > 6?,6 7 ,<68 / ' 6 > '?1.6 5.' -, .4 >.' U 5, '5" ?546 '<; .<<.'>.'5"' / ,<'1;: .8 ;.55.'>.' <'' 5 .<'O 5 7.%

.';, / 7.' ,46 ?1,?,6.'>,<.'5.'?1,Q.7 >.'>>;1.5 64 -<<7I 8

$ 66. / O ..'<'7 ,<'5.8 ,4 R 5.'1'?Q ,17 >;'6,<';,' / 7;' 7 ;6 >, <' a 68 '< / 5..7 1. -,=4.'5"'>,<'7 ,<

E'7.''4';'1> <'5 'O'1 <'>.6; >.-'7 7;, / 7?>.'H 1.7 .'.7 6. J<.41 .6 >.' EE,178 .55.8 :' / 8 ' 1;:'.7 6.<:. / 8 ?'1'5.771.6?'7.<7.6 >4' / , 6 >.'' .. / 01.' 9 *8 5.6=4.55.6 >. / .41.<7 '466' 1.-,=4 7 ;, / / .'7,47;.'=4'6 . '.67.<64'- % 8

<;,<6.=4.<;.'>.;1.7.=4.'5.6 >, / ' <.6;,1?,1' .7 <;, ?,1.56 8 >1, 76 .7 ,OQ.56 =4.5;,<=4.6 >.?.' >'<76 >.6 ; >.-'<7;,<Q7.' .7 6. J<.41 .6 646 / ;' 7 ,<<.68 6.1,<78 .<';,<E,1< 7.'>.' '17 ;5.'"'>4'>.;' >4'CC <,-. / O1.>.7< .18 641'5" 5.J 65'7 ,<>,1'' < '' 1.J 68 '> / < 671. 6 .7 ?.1=46 64 -'<7 5.41'<'741.8 Q 5.6 ?1. ?,6.6 >.6 1. J .'.7 '> / < 671'7 ,<'4'7 ,<' .6% #.'?1,Q.7 >.'>. .1.7 .67 '>,?5.%

% G6. '4;.'.67 5.-.'"'>@ :.41.6%

' ' 5)' # %

% 5 K 'G '<6 7,47.6 5.6 - 55.6 >4' / ,<>.8 5,' =4.'5"'J><.1'5.'6.'O '78 7,46 5.6 ; 7,V.<6 6.'1.<>.1' 5.41'?,67.I 5.'?,67.'>.6 >.?47.6 .67 ; 8 .7Q.'>.< '5 =<R 56 6 V'1.<>.<77,46 5,16=4 ,<'O'771'5"'J.<.1'5;) T ' 6 '8 .->=4.'> J.< N .'<.' / '<>.'?, <7 =4.'5.6 >.?47.6 6, .<7 7.<46 >.'6.'7 6., O5.1' " ;.'6 J<'5 / 5 5' 1.I / ' 6 5 E'47;.?.<E <> =4.1' 4<' / ,>.'>.';,<-.<7 ,<' ?,41'5.6 .'6,' 1'66. / O5; / ;<7 ?, 11' 7.51.'<.;.66' 1.8 .5Q.'>. / '" =4.'5.' ;0 / 7.'>.' ;,<67 747 ,<'6, 5;:'1J.'>.'<,< ?1.6.<7.1% +' #.77.'?1,?,6 7 ,<'.67 '>,?7..%

&' ' ' 'N .'1.6457'7>4'6;147 <'?,4 <, / <'7 ,<'>.' / ,<'64;;.66.41' " >,<<.8 641'C ' 7'<76 8 C9'-, @ " % H.1 / ,<78 .7 C" % K1,J' C '-, @ ?.1>4.6I ' <6'?.16,%<<.'< " ,O7.<4'5" / N 1 7.''06,54.%

.6 <,4-.'4@ 6.;1.7' 1.6 6,<7 % #:>7.'4<' K'<>,<W '/.'.7 '- J<.%

+' 41'5.'1'??,17 E' 7 ?'1' % #' / 468 '4<, /' .,/ 7.6 >.6 E <'<;.6 .7 > '5 .<'5 ,<8 66.1'O5..'>,' 5.'>.;1.7 64 -'47N

W 66. / O ..' <'7 ,<'5.'8%,4 '5.'1'??,17 >.'6.6 / 7 6 > '5 .<'7 , '.7 >.6 E <'<;.68 >.;1.7.N

S 17% '> / < 671'7,416 >.' > 671 ;7 E.1.<7 >1. >.6 .7'76 >.6 E1' [illegible]

[illegible]

[illegible]

Y % .6 > 1.;7, 1.6 >.' > 671 ;7 >1.66.7,<7 >;4 1.7 .7'76 >.'7,46 5.6 E1' 6 .7 '-'<;.6 =4 56 ,<7 ;7 '<;.66 7' [illegible]

[illegible]

S 66. >.'1W@851',1> <';.'E.1"5.'1. / ?5';.-.<7 6, / / .6 E?41<5.6 ?'1'5" 71,6,1.1 '<'7 .'<'5.8 >.'5" / '1 =4' 41 "7 ' 1> ,<4. '?'1 '17 5. ?1. > <7% Y % 7 ;#? <>'<7 >.;1,7 '=4 <;.66 / ' .<7 .7 ?'1 - 6 ,<'5.6 ;, / / 66';7 6 >.'5" 71 ,1.1 .'E.1,<7 -.16.1.

[illegible]

' & ' ' ' ' O'N .' - ' 6' > ,<4 .1'5 . ;747.' > <<.'
'>1.66.' >.6' , ' >.' 5'' # ,<67 747 ,<' >.' 5'' - 55.' >.'
GK,4.<8' '' 66., 0 .'<'7 ,<'5.%

$' ''6,; >7'>.6' / 6'>.'5''#,<67 747 ,<' 'K,4.<< ''
?'6' ?1 6' 4<' 7 71.' - ' <l' ; .' 6'57'=4.'5 0. 66'<; .' '4@'
5, 6' .67' '?1. / .1'>.- , 1'>4' ; 7,V.<' 5 01.% '' H1'<; .8'
?'1'6,<' ; ,41'J.8' '' ; ,<=4 6'5'' 5 0.17VI' .55.' <.'5'' ?.1'
>1'' ?, <7' QE.1' '<'1; : .% 7,<68' 5.6' -1' 6' ' / 6' >.' 5''
#,<67 747 ,<' 6.' 1'55 .1,<7' '47,41'>.' 66. / 05. .'4' '
7 ,<'5.8' ; , / / .' '<' 6.45' E'<'5' =4 '?4 66.'5.6' J4 >.1%
.67' ?'1' 5'' -,5,<7.' >4' ?.4?5.' =4.' - ,4 ' 5.'1.?1>'
6.<7.08' .7' 5'>, 7'6' - , 1' 1.6?. ;7.1'5'' ?4 66'<; .' =4 5' ''
5.J 7 / . / .<7' .7'05 .% ,6' ?,4- , 16' - ,46' 6,<7'1. / 68'
.7- ,46'<.'6,4EE1 1.0'?'6=4.' - ,6' >.5 0.1'7 ,<6' 6, .<QQ / '
E54.<; ..6'?'1'>.6' ;1 6'E' ;7 .4@' ,<'?'1'>.6' ?'66 ,<6' .71'<'
J.1.6% #.'< .67' ?, <7' '' - ,46' = .<' / ?,6.1, 7' ; .4@'
=4' ,6.<7'6.'>,<<.1'?,41'5.6' ? >;416.416' ,4' 5.6' ,; : ,6'
>.' ,?4 ,<' J.<.1'7.% ' <,46' ?,4- ,<6' Q4J.1'>.' .6'
?1 7' ?405 ;' ?'1' .@?1.66 ,<' 6 / ?5.' .7' 6?,<7'<. .'>;6'
6.<7 / .<76' >.' <,6' ; ,<; 7,V.<68' <,46' - ,46' '77.67,<6'
=4.' / / .<6.' / 'Q,1 7.' =4' ''E,1 / .' - ,6' >. ;1.76' 641'
5.6' 64 7.6' >.' .- '6 ,<' >4' 1, ' <.'6.1'' ?'6' / , <U1.'
>'<6' 7,47.' .7.<>4.' >.' . / ? 1.%

''6,; >7.'>.6' / 6'>.'5''#,<67 747 ,<' ' ,4.<8' .<'
?'17 ;<5 .18' '' 4<'< / . / .<7' '??5'4>' '' 5'' ?14>.<; .'
>.6' / .641.6' =4.' - ,46' '-.0'?1 6.68' .7' .55.'Q41.' =4 .55.'
< .@ 67.1'' =4.' ?,41' - -1.' ,4' / ,41 1'.6;5' .' >. ' 5, 6%
& <' '??5'4> 7'?546 .416'1.?1 6.6' >'<6' 7,47.6' 5.6' ?'1M
7 .6' >.'5'' 6'55.%P' ' %

66. / 05..' ,1>,<<.' / ?1.66 ,<' >.' '>1.66.' .7'
<6.17 ,<' '4' ?1, ; 6 -.10'5%
' + % .; ,45.45@' E' 7' .<64 7.' 5. ;741.' > 4<.'5.771.'
>. % / .5,78' =4' .<- , .' ' 66. / 05..' .7'7' >.6'
>,<6' ?'71 ,7 =4.68' 5.'1.64 7 7' >4' <, / 01.'>.6' 1>5.6' >.'
5'' ; ,<71 047 ,<' ?'71 ,7 =4.8' / 6' .<' 1. ; ,4-1. / .<7' '4'
/ , 6' >.' / '16' >.1< .18' >.'CC89U98' / ,<7'<7' '5'6, / / .'
>.' C8)8) '5 -% U' ')' >.<%l .7' '4Q,41> :4 '5D'
Q4 55.7' (* 8' 5.'<, / 01.'>. ; .61 5.6' .67' >.C)8C(8?1, '
>4 6'<7' 4<.'6, / / .>.' C 8 *(8 9C'5 -% *'6% (' >.<%

41' ; .77.'6, / / .' 5' '' H ' 1. ; ,4-1 8' 7'<7' ?'1' 5.6'
1. ; .-.416' ?'17 ;<5 .16' >.6' E<'<; .6' =4.' ?'1' 5.6' 1. ; . '
-.416' >.' > 671 ;78' Q4 =4 '4'5W1' >.' ; .' / , 68' UU8C 98 (U'
5 -% '6,46' '>.<%

5' 1 6457.' .<E <' >.' ; .7' 7'5' >.' 6 74'7 ,<' =4 5' 1.67.'
.<; ,1.' U8 *U' 1 5.6' '' -.1 E .1%

+' % #.1<,<' ?1 6.<7.' '4' <, / ' >4' ; , / 7 '>.6' E<'<M
; .6' 5.' ?1,Q.7' ; .'>. ;1.7' 64 -'<7N

[illegible]

#.'>. ;1.7' .67' '>, ?7.%

+' % 7 ' 'N % 5.' / ' 1.'>.' '1 6' .7' 5.6' ,E'
; .16' / 4< ; ?'4@' >. / '<>.<7' '971.' '> / 6' '5'' 0'11.'
?,<1'1.<>1.' ., / ?7.' >.6' .-.4. / .<76' =4' ,<7' .4' 5 .4'
>'<6' 5''Q,41<>; ' > < .1%

.6' ,E3 ; .16' / 4< ; ?'54; '64<7' <51,>4 76%
% K K ' K ' ' a ' . # 1? ' / 4<M
; ?'5' 9 ?1 6.<7.' >.- '<7- , 68' ?1,E,<>> / .<7' 'E' J>'
>.6' .-><. / .<76' =4' - .<<.<7' >.'6.' ?'66.1% .6' ;1 / .6'
,<7' >7>' ; , / / 6' .7' 5'' Q467 ; .' >.' 5'' 5, ' '' >7>' .@.1; ..%
,46' ,6,<6' - ,46' '6641.1' =4 .55.' .7' 7<. ; .66' 1.% ,1'
>1.' ?405 ;' >7' 7' >.714 7l' >.6' 5 J<.6' .7' >.6' ; ,<Q41'7 ,<6'
'-' .<7' >7.' E,1 / >#6' N <,46' '- ,<6' ?405 ; '5'' 5, ' -.<J. '
1.66.l' 5.6' 6>> 7 .<@' ,<7' ?1, - ,=4>'5''E,1; .l' 56' ,<7' E' 7'
E.4' 641' 5.6' / 'J 671'76' .7641'5'' J'1>.' <'7 ,<'5.l' / ' 6'
5.' ; :>7 / .<7' >4' ;1 / .' .67' 1.7, / 0>641'7.'16' 7>7.6; ,4'
?'05.6%

' 66. / 05>.'5.'Q4J.'<>; 66' 1.8' <,46' <' >,<,. '
1,<6' 5.6' >>7' 56' >.' ; .' =4'6 .67' C ' %

''( ) ((' -(+*-('5 $' $' $,' .(*- '3 4,('
-('' --,+$'

% (' +$.(#+$,' (3, .(- 4. 3 'b(.)+/ - *,0 3'
(2,.+$,; '

.' ; ,1?6' / 4< ; ?'5' >7'<7 '66. / 05V' ?,41' ?,41- , 1'
'4@' / ,V.7 6' > '6641.1'5''71'<=4 5 7>' ?405 =4.8' 5' '' .7>'
; ,<67'7.' =4 '4Q?41> :4' (' Q4 55.7' 5' >.- ' 7' 6.' E' 1; '
4<' 1'66. / 05. .<7' ; ,776 >>1'05.' 641' 5.'7.11' <' >.' 5''
'K'67 55.8' > ,0' ,<' >.- ' 7' 6.'1.<>1.' '4' ; : ' / ?' >.' 5''H.G
>>1'7 ,<% '' ?1> .' <'7 ,<'5.' '' 1. .4' ,1>1.' >.86 V 1.<'
>1.8' .7' > '?1 ` ' 5.6' / .641.6' ?1 6.6' 5' V' ' - ' 5' 5 .<' >.'
;1, 1.' =4.'5''71'<= 55 7.' ?405 =4.'<.' .1' 7' ?, <7' 71,4'
05. .% .' ; ,1?6' / 4< ; ?'5' '' ?1 6' .7' E' 7' 'EE ; : .1' 641 5. '
; : ' / ?' '11>7>' 4 - '<7N

.' ; ,1?6' / 4< ; ?'58' <E,1 / >' =<.'>.6' E' ;7 .4@8' =4.'
>.6' .71'<J.16?'V>6' ?,41'6. / .1'5.'>>6,1>1.8' ?,41' ?1)'
; : .1'5'' 1.0.55 ,<8' 6.' ?1,?,6.<7' >.' E,1 / .1' >.' J1'4>6'
1'66; / 05. / .<76' >'<6' 5.' ; ,4?'05.' .6?,71' U >J'1.15.'
?.4?5.8' .7>.' 5.' ?, 17.1' '' >.6' .@; .6' 1>?1. : . 6 05.6l'
,4 '5.' 6. ; ,<>' 64067 747 '>Q, <7' >4' ?1, ;41.41' >.' 5''
; , / / 4<.8' >. ;5'1.' =4.' 7,47' '771,4?. / .<78' '-. ; ' ,<'
6'<6' '1 / .68' 6?1'5.6' ?5' ; .6' ?405 =4.68G' >'<6' 5.6' 14.6'
.7' 5.6' ; '11.E,4168l' 7' ; ,<71' 1#' ' 5'' 5, ' l' >>E.<>' ''
7,47.6' ?.16,<<.6' >.'6.'1.4< 18' >.'6.'E,1 / .1' .<'J1'?.6' '
>'<6' '4;4<' 5 .4' ?405 ; l' ,1>,<<.' '7,46' ; .4@' =4 '6,<7'
' <6' E,1 / . ' >.' 6.'6>?'1.1' ' <67' 7l' .<Q, / 7' '4@'
; , / / 66' 1.6' >.' ?,5 ; .' >.'6.' 1.<>1.'6'<6' '>5' ' >'<6'
7,46' 5.]' .4@' >.'5.'5' '11,<> 66. / . 78' ,E'5''71'<=4 '
5 7.' ?405 =<.' ?,411' 7' >E1.' / .<' ; . .8' .7' > . / ?5,V.18'
?,41' / ' <7.< 1' 5.' #'5 / .8' 7,46' 5.6' / ,V.<6' =4' 5.41'
6,<7' >,<<.6?'1'5g5, l' / '<>.' '4' ; , / / '<>'<7' J><>1'7'
>.5'' J'1>.'Q, '7 ,<'5.' >.' >,<<.1' '' <67' 7'_P;6 ,1>1.6'
5.6?546' ?1> ; 68' ?,41'=4.'7,<6' 5.6' '771,4?. : .<766, .<7'
> 66 ?>6%% .' ; ,1?6' / 4< ; ?'5' 6.'1.6.1- '<7' >.' ?1.<>1.'
>.6' / .641. '457.1 .41.6' 6 '5.' ; '68V' >.0, 7%

.16' 5.6' ,<0.' : .41.6' 5.' ; ,1?6' / 4< ; ?'5' '' >7>' <M
E,1 / .' =4.'>.4@' ?.16,<<.6' - .<' .<7' > >51.' '66'66 <>; 6'
'4'_51 6 #' 55,4% 1, 6' / . / 01.6' >4' ; ,1?6' / 4< ; ?'5'
,<7' >7>>. ?47>6' ?,41'1>7'05 15 ,1>1.8.72 , ;5' / .1' '4'
0.6, '5''5,7' / '17 '5.8' .'<, / 01.4@' >>7' ; : . / .<76' >; '
5''J'1>.'<'7 ,<'5.' ,<7' ' ; ; , / ?'J3>' 5.6 ,EE ; .16' / 4< '
; ?'<@% .16' 5.6' >.4@' : .=1.6' 5.' ; ,1?6' / 4< ; ?'5' '' > >'
Q E,1 <>' =4.'5'' J'1>.'<'7 ,<'5.' '-' 5' >7>' < 457>.8' =4.'
% 5.' ; , / / '<>'<7' J><.1'5' '-' 5' 7' '11>7.1' =4'71.'
?'17 ;<5 .16' ?,41' - , 1'5'<; >>.6' ? .11.6' 641'5'' J'1>.l'
=4.' 4<' >' .4@' '-' 5' .7; ' 71,4->' / 4<' > 4<' ? 67,5.7'
; : '1J .8' .7' =77 5' '-' 5' '- ,4.' '- , 1'Q.7.' 4<.' / >77.' >.'
7.11.' 641' 5.' ; , / / '<>'<7' >.5'' J'1>.' ' ; : . - '5% .'
; ,1?6' / 4< ; ?'58' ; ,<6 >;1'<7'5,16=4.'5''E,1; .''1 / . ; '
.'?,4- ' 7' .551'V.1' >6' 0,<6' ; 5,V.<68' '' '11>7>=4 ; '5''
5, ' / '17 '5.'6.1' 7' ??05 ..% 466 7 771, 6' ,EE ; .16' / 4'
< ; ?'4@' 6,<7' >.6; .<>46' >.5'' / ' 6,<' ; , / / 4<.?,41 '
5''?1, ;5' / .1N 5.' > '?.'4' 1,4J.' '' >7>' .@?,6>' '4<.'
>.6' ?1< ; ?'5.6' E. >71.6% ' ; <= : .41.6' .7' >. / ,>4'
6, 5 8' '4' / , / .<7' , 5' 5'' / 4< ; ?'5 7.' '55' 76.' / .771.' .4'
/ '1 ; : . ?,41' 6.'1.<>1.' '4' ; : ' / ?' >.' 5'' H>>>1'7 ,<8'
, 5' ; 7' 71 771,4?.< .<78' 5.6' ; , / / 66' 1.6' .<- ,V>6' '4'
!1,6 #' 55,4' 6, 7' '11 - .6.7, 5'<<,<; .=4.14<>.6'
/ .4171 .16' '-' 5' .7.' '11 7>8' / ' 6' =4 5' 6 >7' 7' '466 7 7'
>; : '??>' >.6' / ' <6' >.'5'' J'1>.l' =4 ,<' '-' 5' 7 1>641

[illegible]

[illegible]

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! b ʿ ʿ ,iʿ %

ʿWIBʿ ʿ F ʿWIʿ6D ʿBHTBʿ +ʿ< * ʿ ʿ ʿ ʿ 3

H I ʿ /

! %

.ʿ9 ʿ ʿ (ʿ +ʿ ,41ʿ05.< '??1.; .1ʿ5" / ,>.1'7 ,<ʿ>'<6ʿ5'=4.55.ʿ6.ʿ1.<E.1 / .ʿ5.ʿ1' / 67.1.ʿ'4ʿ 71 ;0 .<8ʿ1.5'7 . / .<7ʿ' 4@ 1.;5' / '7 ,<6ʿ>.6ʿ?1 <;.6ʿ'5ʿ 5. / '<>6ʿ?,66.66 ,<<.6ʿ.<ʿ 56';.8ʿ ʿ64E5 7ʿ>.ʿ5 1.ʿ .@ʿ 71' 7ʿ>4ʿ64EE1'J.ʿ>.ʿK,:. / .ʿ='.ʿ %5.ʿ; , / 7.ʿ . 5.1<ʿ" E' 7ʿ <6.1.1ʿ'4ʿ?1,7,;,5.ʿ5.ʿ (ʿ>4ʿ?1.6.<7ʿ / , 6%#.ʿ / ʿ < 671.ʿ; , / / .<;.8ʿ6. ,<ʿ 46'J.ʿ8ʿ?'1ʿ>.6ʿ1. / .1; / .<76ʿ '4ʿ !ʿ>.'5 / ? 1.ʿ641ʿ5.6ʿ / '1=4.6ʿ>.ʿ?1,7.;7 ,<ʿ=4 5ʿ ">.Q">,<<..68ʿ.7ʿ5ʿ; ,<7 <4.ʿ>'<6ʿ5.6ʿ7.1 / .6ʿ64 -'<76N K 8ʿ <% %8ʿ;,<<<.ʿ.7'7ʿ> 1'? 1.8ʿ< "?'6ʿ<.J5 J.ʿ>.ʿ E' 1.ʿ5.6ʿ1.?1.6.<7'7 ,<6ʿ5.6ʿ?546ʿ?1.66'<7.6ʿ'4?1 ʿ>.ʿ5" ;,41ʿ$>.ʿ H1'<;.ʿ8ʿ .7ʿ .55.ʿ" .<;,1.ʿ5" ;,<E '<;.ʿ =4.ʿ % % %#% E.1" 1.<>1.ʿQ467 ;.ʿ'4@ʿ?1 <;.6ʿ> / ? 1.8ʿ .7ʿ=<.ʿ6ʿ;.5"< "?'6ʿ>.Q" HʿE' 78ʿ.55.ʿ>, 7ʿ.71.ʿ.@.46 .ʿ ?'1ʿ 5.6ʿ 71,4575.6ʿ <7.1 .416ʿ =4ʿ ,<7ʿ .4ʿ5 .4ʿ >'<6ʿ;.ʿ 1,V'4 / .%

S % % %?.<6.ʿ>,<.ʿ=4 5ʿ64EE 1' 7ʿ=4.ʿ . / ? 1.ʿ5" 1.=4 7ʿ> .;1 1.ʿ 4<.ʿ 5.771.ʿ 457 1 .41.ʿ" % % % #%8ʿ ?,41ʿ1 ;5' / .1ʿE.1 / . / .<7ʿ5" 1.67 747 ,<8ʿ>.6ʿ>1, 76ʿ.<ʿ ʿ5.-.6%

Y 55.ʿ<.ʿ?.<7ʿ?'68ʿ'4ʿ1.67.8ʿ> 665 / 45.1ʿ5.>.6 1ʿ=4 .55.ʿ " =4.ʿ;.77.ʿ / ?>17.<7.ʿ 'EE' 1.ʿ6, 7ʿ7.1 / <..ʿ?'1ʿ>.6ʿ -, .6ʿ' / 'O5.6ʿ.7ʿ?' 6 O5.68ʿ.7ʿ;.ʿ>.6 1ʿ .67ʿE,<>.ʿ641ʿ>.6ʿ / ,7 E6ʿ <7.1.66'<76ʿ =4.ʿ 5.6ʿ :'456ʿ .7'76ʿ > / ? 1.ʿ <.ʿ ?,411 <7ʿ?'6ʿ6'<6ʿ>,47.ʿ / .;,<<' 71.

6 <'7E.<>'<74<.1.?,<6.ʿE'-,1'05.8,<ʿ?.47ʿ7,ʿ4Q,416ʿ 7.< 1ʿ5.ʿ?1,7,;,5.ʿ,4-.178ʿ?,41ʿVʿE' 1.ʿ>'<6ʿ7,46ʿ5.6ʿ;'6ʿ 5.6ʿ'>> 7 ,<6ʿ<.;.66' 1.6% S

<ʿ .Z7ʿ?.164'>.ʿ=4.ʿ5.ʿ ʿ>4ʿ;,55.J.ʿ>5.;ʿ 7,1'5ʿ6.1"5,1 / .ʿ6,46ʿ?.4ʿ>.ʿQ,4168ʿ L , ;7ʿ5.ʿ?1,Q.7ʿ>.ʿ ;.ʿ ʿ8ʿ =4ʿ6.1" -1' 6. / O5'O . / .<7ʿ '>,?7>8ʿ 6'4E=4.5=4.6ʿ >J.1.6ʿ / ,> E ;'7 ,<68ʿ?'1ʿ5.6ʿ>.4@ʿ'471.6ʿ ;,55.J.6%

8 ʿ ʿ ʿ

<ʿ;,<6.=4.<;.ʿ>4ʿ>>.1.7ʿ>.ʿ; , / / 66 ,<ʿ / ?.1 ʿ5.ʿ 7,4;:'<7ʿ5.6ʿ> '56ʿ> / ? 1.ʿ?,66.66 ,<<>6ʿ.<ʿ 56';.ʿ.7ʿ .<ʿ ,11' <.8ʿ5.'>6ʿ?'1ʿ5.6ʿ>>;1.76ʿ>.ʿ 66. / O7..ʿ<'5 ,\ʿ <'5.ʿ>.ʿH1'<;.8ʿ?,17.ʿ "5"> .7.ʿ5.ʿC9ʿ'-1 7ʿ>.ʿ '<<..ʿ ;,41'<7.8ʿ,<ʿ6 .67ʿ'66. / O >ʿ .<ʿ5" / '< >1.ʿ';;,474 / >.ʿ >'<6 5.ʿ;,55.J.ʿ.5.;7,1'58ʿ .7ʿ5ʿ">>ʿ'J1>>ʿ?1.6=4.ʿ4<'ʿ < / . / .<7ʿN

D34.ʿ>'<6ʿ4<ʿ'- 6ʿ>.ʿ / ? 1.8 =4 .1">1.66.ʿ?'1ʿ 5.ʿ> 1.;5, 1.ʿ>.ʿ 'V.<;.8ʿ % 8ʿ %6.1"1.1' . / ..8ʿ'<ʿ <,<%ʿ>.ʿ / ? 1.ʿ'66. / O >8ʿ>.ʿ6,<ʿ <7.1?,6 7 ,<ʿ'4?1.6ʿ >.ʿ % % %#%8ʿ6. ,<ʿ5.ʿ>.6 1ʿ>4 ;,<J1.6ʿ.5.;7,1'5ʿ7.<4ʿ / / >> '7. / .<7ʿ '?1.6ʿ 6,<ʿ J5,1 .4@ʿ '-><. / .<78ʿ .7ʿ>.ʿ . / ?1.66. / .<7ʿ'-.;ʿ5.=4.5ʿ.55.ʿ6 .67ʿ?,17..ʿ"?1.<>1.ʿ ;,< ' 66'<;.ʿ>.6ʿ6.<7 / .<76ʿ>.ʿ7,46ʿ5.6ʿ .7'76ʿ1.6?.;5 E6ʿ >'<6ʿ4<.ʿ'EE' 1.ʿ'466ʿ / ?,17'<7.ʿ?,41ʿ5"<'7 ,<ʿJ.1 / 'ʿ < =4.%

,41ʿ;.ʿ =4ʿ .67ʿ>.ʿ 'EE' 1.ʿ / . / .8ʿ5.6ʿ6.1>< 66 / .6ʿ .5.;7.416ʿ,<7ʿ> ʿ .51.ʿ<'741.55. / .<7ʿ641?1 6ʿ=4.ʿ5"1>ʿ ?,<6;ʿ>.ʿ % % % #% " 5"5.771.ʿ>.ʿ % 8ʿ 8ʿ >4ʿ U >.;. / O1.ʿ>=ʿ '<<..ʿ ?'66..ʿ< ' 7ʿ?'6ʿ.5>ʿ>, <..ʿ.<ʿ 5ʿ5<ʿ8 6. ,<ʿ5.6ʿ71' 7.6ʿ8ʿ / ' 6ʿ .<ʿ E '<='6% <ʿ .67ʿ .<ʿ / . / .ʿ7. / ?6ʿO .<ʿE';.:>ʿ=4.ʿ;.77.ʿ1.?,<6.ʿ<' 7ʿ> .ʿ<45ʿ ; / .<7ʿ6'7 6E' 6'<7.8ʿ?4 6=4 5ʿ'??.17ʿ=4.ʿ5"H1'<;.ʿ< " <4B.ʿ.<- .ʿ>.ʿE' 1.ʿ7 .6ʿ1.67 747 ,<6Iʿ,4ʿ > ,EE1 1ʿ / . / .ʿ 4<ʿ>>>, / / 'J. / .<7ʿ64EK6'<7ʿ .<ʿ7.11 7, 1.ʿ.7.<64Q.7 8ʿ =4 .<ʿ ;,<6.=4.<.>ʿ .55.ʿ1,Q.77.ʿ?5. <. / .<7ʿ7,47.ʿ-,>ʿ >.ʿ ; , / ?,6 7 ,<% #.?.<>'<78ʿ ?,41ʿ .?4 6.1ʿ7,46ʿ5.6ʿ 7<,V.<68ʿ,<ʿ">.ʿ?546ʿ71,4->ʿO,<ʿ.7ʿ1.6,E4ʿ=4.ʿ$

D % % 8ʿ 6.1"1.=4 6.ʿ71.6ʿ1.6?;;74.<6. / .<7ʿ?'7G 1 1,? 1.ʿ'66. / O >ʿ>.ʿE' 1.ʿ>.ʿ7 ,4-.E5.6ʿ1.? >6.<7'7 ,<6ʿ " % % % #%8ʿ 7'<7ʿ .<ʿ6,<ʿ<, / ʿ=4 .<ʿ ;.54ʿ>.ʿ7,47 < ? >ʿ.5ʿ>.ʿ>.;5'1.1ʿ =4 5ʿ<.ʿ6.ʿ>>?'17 1"Q' / ' 6ʿ

$ FʿC ʿ +ʿ< ʿ'. O

>.6ʿ ;,<-.<7 ,<6ʿ J>7 >1'5.6ʿ .7ʿ>.6ʿ71' 7>6ʿ >.ʿ?' @ʿ 640ʿ 6 67'<56ʿ.<71.ʿ 55. / 'J<.ʿ.7ʿ 5" H1'<;.ʿIʿ.<E <ʿ > <6 6ʿ 7.1ʿ641ʿ5.ʿ1>7'O5 66. / .<7ʿ>.6ʿ .7'76ʿ 6?,5 >6ʿ641ʿ5.ʿ? .>ʿ 56ʿ6.ʿ6,<7ʿ71,4-.6ʿ '-'<7ʿ5.ʿ>>;1.76ʿ>.ʿ 66. / O5..ʿ <'7 ,<'5.Iʿ / ' 68?,41ʿ=4.ʿ5.ʿO47ʿ>.ʿ;.6ʿ1.?1.6.<7'7 ,<6ʿ ?4 66.ʿ>71.ʿ'57. <7ʿ'-.;ʿ641.7>8ʿ 5ʿ">7>ʿ1>6,54ʿ=4.ʿN

pʿ ,46ʿ5.6ʿJ'1'<76ʿ7'<7ʿ'<; .<6ʿ=4.ʿ< 4-.ʿ4@ʿ>.ʿ5" ?' @>.ʿ .6?:'5 ..7ʿ>.6ʿ71' 7.6ʿ6406.=4.< 68ʿ>.ʿ / > / .ʿ =4.ʿ7,46ʿ5.6ʿ>7'76ʿ? 7 66'456ʿ> / ? 1.ʿ'V'<7ʿ>.6ʿ ' / O'6ʿ 6ʿ>.416ʿ" 1ʿ; ,41ʿ>.ʿH1'<;.8ʿ6.1,<7ʿ6, / / >6ʿ.7 1.=4 6ʿ \'1ʿ / ? 1.ʿ .<ʿ;,1?6ʿ>.ʿ <ʿ< E.67.1ʿ5.41ʿ?'17 ; ?'7 ,<8ʿ Jʿ;.77.ʿ / ?,17'<7.ʿ'EE' 1.8ʿ.7ʿ>.ʿE' 1.ʿ'??4V.1ʿ ' / O'6ʿ 6ʿ>.41ʿ>.ʿ . / ?.1.41ʿ ?'1ʿ5.<16ʿ .<-,V>6ʿ1>6 >'<761ʿ" '1 68

D <ʿ64??5 .1"71.6:4 / O5> / .<7 % % %8ʿ>'<6ʿ 'ʿ - 6ʿ>.ʿ 1'? 1.8ʿ=4 5ʿ54ʿ?5' 6.ʿ> .<Q, <>1.ʿ" 7,46ʿ5.6ʿ ;.1;5.6ʿ.7ʿ>7'76ʿ>.ʿ; , / ?5.7.1ʿ> / .<7ʿ5.416ʿ71,4?.68ʿ'E<ʿ >.ʿ?,4- , 1%E,41< 1ʿ <;.66' / / .<7ʿ5.41ʿ ;,<7 <J.<7ʿ ʿ ?,41ʿ>>E.<>1.ʿ .EE ;';. / .<55"> J< 7>ʿ>.ʿ . / G ? 1.ʿ J.1 / '< =4.8ʿ6,<ʿ'47,1 7.ʿ .7ʿ6.6ʿ>1, 768ʿ.<ʿ. / ʿ ?5,V'<77,<7.6ʿ ;6 / .J41.6ʿ'47,1 6>.6ʿ?'1ʿ5.ʿ>1, 7ʿ>.ʿ5" <'741.ʿ.7ʿ>.6ʿJ.<6%

%

@ ʿ O ʿ ʿ ʿ: ʿ ʿ)ʿ

%%%%%%%%%%% ,46ʿ'471.6ʿE4J 7 E6ʿ<,46ʿ< '-,<6ʿ?, <7ʿ641ʿ5.6 O,1>6ʿ>4ʿ O1. 5" 6,77 6.ʿ>.ʿ<,46ʿ ;1, 1;ʿ>.6ʿ6-$% / ;,1' / .ʿ<,6ʿE1.1.6ʿ>.6ʿO,1>6ʿ>4ʿK: <% .ʿ;:'J1 <ʿ<,46ʿ J'J<.% ʿ<,46ʿ'11 -.ʿ?'1E, 6ʿ>.ʿ ?.<6.1ʿ=4.ʿ5"H1'<;.ʿ .67ʿ.<ʿ.7'7ʿ>.ʿ6.ʿ / ==4.1ʿ> 4<ʿ / '< E.67.ʿ; , / / .ʿ>4<ʿ O1.E% <ʿ '6641.ʿ=4.ʿ5.ʿ?'?.ʿ.67ʿ1.?.<7'<7ʿ>.ʿ >;,5>ʿ =4 ,<ʿ <ʿ"E' 7ʿE' 1.% .6>' / .6ʿ7'<7.6ʿ6,<7ʿQ<=4 .7.6ʿ >4ʿ6,17ʿ>.ʿ5.41ʿE' / 55.% 5 .6ʿ6.ʿ> 66 ?.<7ʿ?'1ʿ>.6ʿ?1, ʿ d / .<'>.6ʿ>.ʿ ;41 ,6 7.% <ʿ;.5";.77 - 55.ʿ.67ʿ4<ʿ / . 5ʿ 5.41ʿ1. / .>.ʿ"5.41ʿ / '5ʿ=4.ʿ< . 7ʿ>7>ʿ4<ʿ -,V'J.ʿ'4@ʿ .ʿ4@%%%% .6ʿ>.1< >1.6ʿ5.571.6ʿ>.ʿH '4,.ʿE5'77.<7ʿ.<;,1.ʿ 5.6ʿ1''5 <7.<7 ,<<>6% 5ʿ?'1' 7ʿ=4.ʿ ,<ʿ.6?.1.ʿ -,46ʿ >ʿ - 6.1ʿ>'<6ʿ -,6ʿ >.?'17. / .<76% .ʿ< / 'J<.ʿ ?'6ʿ71,?ʿ ;, / / .<78ʿ " / , <6ʿ=4.ʿ;.ʿ<.ʿ6, 7ʿ?'1ʿ4<.ʿJ4.11.ʿ; M - 5.8ʿ ʿ ʿ: V) J 4ʿ>. .Oʿ'-, 1ʿ / ' <7.<'<7ʿ O;'4;,4? > >71'<J.16ʿ .<ʿH1'<;.8ʿ 71,4?.ʿ1 ;:. / .<7ʿ 6,5>>.ʿ?,41ʿ;.ʿJ1'<>ʿ,.4-1.8ʿ>.6ʿ '5 .<68ʿ>.6ʿ >1',<ʿ 5ʿ68ʿ.7;%

#.5" .67ʿO .<ʿ?546ʿ>'<J.1.4@ʿ?,41ʿ-,46ʿ=4 4<.ʿ'1ʿ / ..% .64 6ʿ6 1ʿ=4.ʿ>.6ʿO, / / .6ʿ71.6ʿO'O 5.6ʿ.<ʿ / ,4ʿ -. / .<76ʿ?,?47' 1.6ʿ4571' / ,<7' <6ʿ -,46ʿ 6,<7ʿ .<-,V>6ʿ ;, / / .ʿ>.6ʿ / 66 ,<<' 1.6ʿ>.ʿ> - 6 ,<ʿ.7ʿ>.ʿ;14' 5.%%%%% ʿ'ʿ?.7 7ʿ<, / O1.ʿ> .;;5.6 '67 =4.6ʿE1' =' 6ʿ> / J1>6ʿ=4.ʿ <,46ʿ'-,<6ʿ ;ʿ?'66.<7ʿ5.41ʿ7. / ?6ʿ" .;1 1.ʿ .<ʿH1'<;.% #.ʿ6,<7ʿ> ' 55.416ʿ>.6ʿ 'J<.'4@ʿ >'< ʿ5"ʿ; ,<-.16'7 ,<8ʿ 6417,47ʿ>.?< 6ʿ4<ʿ / , 6ʿ,4ʿ%>.4@8ʿ.7;%

ʿ d L K %

.K14'\.RR.68R'5 V47RE.7% + .5U''6, 18Q,41>. ' <5ʿ K,<'-.<7 1.ʿ.7ʿ-. 55.ʿ>.ʿ ' <7 B.<1 8ʿ<<.ʿ6,;>7>ʿ6 .6ʿ '- 6.;ʿ>.ʿ..5.O1.1ʿ ;ʿ5" E.7.ʿ>.ʿB.<1ʿ '< >.1 , , 7ʿ @ʿ?1.7E.6ʿ <,7'O5.6%.7ʿ =4.5=4.6ʿO,41J., 6ʿ '-.;ʿ>.ʿ E. / / .6ʿ; , / ?,6' .<7ʿ;.77.ʿ; , / ?'J< .% ! .5' 7ʿ.<71.ʿ5.ʿ O,45. 7 ;6ʿ .7ʿ5" O,<<.ʿ ;O.1.% " 4<ʿ6,4?. Qʿ=4.;.ʿ;,ʿ / 7>ʿ;5ʿ4>.67<ʿ E.7' 7ʿ '< >.1 , , 7% ,<ʿ O467.ʿ;,4ʿ 7,<<.ʿ>.ʿ5ʿ41 .1ʿ>7' 7641ʿ5"7'O5.8ʿ.7ʿ.O'=4.ʿ5 O'7, ʿ O';: =4.ʿ.7' 7ʿ ';;, / ?'J<..ʿ>.ʿ--.ʿ '< >.1 , , 7ʿ.ʿ >.ʿ; ,4?5.76ʿE'<'7 =4.6% 34 .67 5ʿ'11 -.ʿZ ,46ʿ;.6ʿJ. 1ʿ >.ʿ .4ʿ,<7ʿ> >ʿ'11>7.6ʿ.7ʿ;,<>4 76ʿ.<ʿ?1 6,<% <ʿ5.4ʿ "71,4->ʿ>.6ʿ-.16ʿ,4ʿO 55.76ʿ<7.<> ' 1.6ʿ / ?1 <>6% ,46ʿ -,V.Oʿ=4.ʿ .ʿE'<' 6 / .ʿ.67ʿO .<ʿ5, <ʿ> .71.>7. <7N.% .66 1 V>1.ʿ >.ʿ .1<.% ʿE'47ʿ;,4?.1ʿ7,< ;6%5.6ʿ7.5.6ʿ>4ʿ / ,<671.8ʿ6 <,<ʿ5.6ʿ71,4O5.6ʿ1.<' 71,7 7ʿ7,4Q ,416%

$ ʿ <-.16ʿ5.6ʿ:'O 7'<76ʿE,<7ʿ.<;,1.ʿ>.>ʿ .4168ʿ; , / /

,< > 7ſ '466' ' 7 ,< 1.<1'=4.' 5.6 ;'<,<68 ;.'=4' -' E' &Q.7;1'5.6 :'456 ;1 68 ''11 -.'Q,41<.55. / .<7>.6 ,EE5 ' ; .16 E1'<;' 6 ; 8 0.'4;,4?>.'Q.4<.6 6417,47% 'V'41'' ; .17' <. / .<5 =4.5=4.' '77'=4.' ,4 <;416 ,< ; ,<71.'5'' H1'<;.8 ' ,< .< ;1, ';.6 : 1,6%

/

'8 ' +' / '<;:.'>.1< .1'4< J1.<'> .1'>.'5'' J'1>.'<'7 ,<'5.'?'1 6 .<<.' <'1;:' 7 '< ;:' / ?'>.'5'' H.>.1'7 ,<'-.;6'' ; , / ?'J< .ſ 6,< 568 J.'>.' ,<0.' '<68 6,5>'7>4' 0'7' 55,< >.6 .<E'<768 '-' 5 -,454'5.' 64 -1.% 4 ?1. / .1';:,;8 5.'?.1.'.67 74.'' ;97.'>4' E' 6% #.5 .<E'<7 .57.'4< / ,4;:, 1'641'5''5 7.' >.'6,< / '5' :.41.4@ ?.1.8 ;:'1J.' 6,< E46 58 E' 7 ?546 .416 >. ' ;:'1J.6 '-.;' 4<.' 1'? > 7>' 64?>1 .41.' '4@ E,1;.6 >.' 6,< J.ſ .7 5,16=4.'5.6 01 J'<>6 =4 77.:7 5.';:' / ?'>.' 0'7' .8 5 5.6 ?,4164 7 6.45 5''0' ,<<.77.' '4'0,47>< E46 5% ?1:6'-, 1'6'7 6E' 7 7,47''5''E, 6'';.'=4 .@ J.' .<7 5.'6'547>.'5'' ?'71 .' .7 5'' -.<J.'<;.'E 5 '5.8 5 1.- .<78 6.'Q.77.'641'5.';,1?6 >.'6,< ?.1.8 E' 7 1.7.<7 1%5 ' 1'>.' 6.6 ;1 68 0' J<.'5.';'>'-1.'>.'6.6 5'1 / .68 .7<.'-.45 ?546 6 .< 6.?'1.1% < '' 1.?,17.' '' 4<.' / .1.8 ''4 .' .?,46.'>.6,5..8 5.6;,1?68 7,4Q,416 1.4< 6 ?'1'>.'>,4Y 5,41.46.6 >71. <7.68 > 4< ?>1.' / ,17 .7 > 4:' E 56 =4' -,45' 7 Q<,41F

'' ' '' ' %

% 7.6 ';7 ,4<' 1.6 >.'5'' ;' 66.'> .6;, / ?7.'6.<7 Q-.17 6 =4 .< .@.;47 ,<>.' 5'' >.5 0.1'7 ,< .1' '6' . / 05..' J.<.1'7.' 7.<4.' 5.' * >4 ?1.6.<7 < , 6 >.' 4 55.78 % >.' '1 J<V8 ;' 66 .1'>.'5''1.;.77.'J.<.1'5.8 ?' ;1'' ''041.'4 ,4-.17 8 ;' / '7 < 6.45; / .<78 5.'> - ' .<>.'> ';7 ,<6 >.6 6 @ ?1. / .16 / , 6 >.' (* 8 ''1' M 6,< >.';.<7 5 -% ?'1'';7 ,< .7 '5 -ſ ?'1'>. / ';7 ,<8 .6 ?,17.416 >.6 > - >.<>.6 6,<7 ?1.-.<46 =4.' '6' 6. / 05..' J.<.1'7.'>.6 ';7 ,4<' 1.6 '' >.7.1 / <.8 >'<6 <67'<;.' >45C' >4 ;,41'<78=4.' 5.' ?' .1<.<7 >4 > ' - >.<>.<.'6.1''E' 7 =4 .< '66 J<'76 >.' '5 -1.6.7 '4' >.66468 , 5 .< 0 55.76 >.';,< '<;.'>.'5'' ;' 66.'> .6M ;, / ?7.' >.' ;.<7 5 -1.68 '4 ;:, @ >.6 ?1,?1 .7' 1.6ſ =4 .< ;,<6. =4.<;.' ;.4@ >.6 ?,17.416 >.'> - >.<>.6 6.?'1>68 >,<7 5.' / ,<7<<7 7,7'5 < ;=< -'4>1'' ?'6 '' '5 -1.68 .7 =4' -,4>1,<7 7,4; :.1 .< '66 J<'768 6.' 1,<7 ,05 J. 6 >.'1'??,17.1';.57.'> EE.1.<;.' .< '66 J<'76 ,4 .< 0 55.76 >.';,< '<;.'>.'5'' ;' 66.'> .6;, / ?7.% ' 7.1 / .'>4 >.?,7>.6 ';7 ,<68 ?,41' '-, 1'.<71..' .7 -0 @ >.5 0.1'7 -.'>'<6 5.6 '66. / 05.6 J><.1'5.68 _Q4 '41,<7 5 .4 .<'Q'<- .1' ?1,;:' <8 .67 E @.' '4 '>.';.' / , 6%

'(.! / ((7 ' '(+ 2 (

< '+' '- '+' .' '>.';.' / , 6 5.' / ' 1.'>4 ! 1'<> ,1;V8 .< ?1.6.<7'<7 '4 > 671 ;7> 1; 6 4<.' ;, / ?'J< .'7 .' J'1>.6 <'7 ,<'4@ ;, / ?,6..'>.'7,<6 5.6 J'1 ,<6 .7 :, / / .6 -.4E6 >.' 5'' ?'1, 66.' .< .7'7>.' ?,17.1'5.6'1 <.68 #4 -.<' 7 E' 1.' 6''6,4 / 66 ,< ?,41 '1 / ..' >.6E1,<7 .1.68 '' > 7N W .66 .4168 5'' ?'71 . .47 '-, 1'0.6, < >.'<,46 8 <,46'-,<6 >.-'<;.' ,1>1.' .'<,461'66. / 05.1'?,41'E,414 1<,6J'1>.6 <'7 ,<'4@% ,46 <.'<,46 6, / / .6 ?% 6 >. / '<>>N 34.56 6,<7 ?'1 / ' <,46 5.6 :, / / .6 >.'0,<<.'-,5,<7.Z' # .E 7. 7.<4 / ' 5 .1' ;7 / .;,<<' 71.'<,6 ;,<; 7,V.<68 <;'?'05.6 > 4< ?'71 ,7 6 <.'7 .'?'1'>.% .1.6 .5 .<E'<768 <,46 <,46 6, / / %.6 > 6?47.' 5.' ?5' 6 1' >.' 1. / ?5 1 <, 1.'>.-, 1% ' 6 ,6 E 568 =4' 6.'1.?,6.<7641'<,46 >.'5'' >.E.<6.' >.'<,6 E,V.168 <,46 ,<7 ;,<Q41.6 >.' / .771.'5.41';,4M 1'J.'' .?1.4-.% B6 <,46 ,<7 ?1, / 6 =4 56 6.1' .<7 A> J<.6 >.'<,46 6 <,46 5.416 5' 66 ,<6 :,<<.41 >.' '<,46 6.1- 1'>.'1. / ?'17 641'<,6 E1,<5 .1.6% $ '66. / 05..' '>/ < 671'7 -.' >4 >>?'17. / .<7 - .<7 '?405 .1'5.'?1,;.6 -.10'5 >.'6.6 67'<;.68 7.<4.6 ;

>'<6 5.6 / , 6 >.'<,-. / 01.' .7 >.' >7 ;. / 01.' (* % #.' <1,; 6 -.10'5 E,1 / .'4< -,54 / .' < UY >. 7)' ?'J.6% 5 1.<E.1 / .'7,47 .<6. / 05.'>.6 ?5'<6 ?1,?,6.68 .7>.6 71'-'4@ .@.;47.6 ?'1' '> / < 671'7 ,< >.?4 6 .?,=4.' >.'6,< .7'05 66. / .<7% #.'?1,;.6 -.10'58 ''5''7 7.'>4' =4.5 6.'71,4-.' 4< .@;.55.<7 1'??,17 >.6 71'-'4@ >,' > 1.;7, 1.8 E' 7 ?'1' % K.4J<,78 ?1,;41.41 J.<.1'5' 6V<> ;8 .674<' / ,<4 / .<7 >4 ?'71 ,7 6 / .8 >4 0.5..7 >.6 54 / .1.6 >.'<,6 '> / < 671'5.416% ' .67 ?5. <'> ' >. .6 47 5.6 .7 >.' / ,V. 56 >.@>;47 ,< 641' 7,46 5.6 ,0Q.76 >.' '> / < 671'7 ,< ?<05 =4.% 5 .67 U >.6 1.1' =4.';.7.@. / '? .'6, 5 64 -'>'<6 5.6'471.6 >.?'17. / .<76% ,46 '41,<6 ?'1';.' / ,V.<8 .< 71.6 ?.4 >.'7. / ?68 E.' 7'05.'4 5.'?546 .@';7 .7 5.'?546 >.7' 55.'>.'5'' 6 74'7 ,< >.'5'' H1'<;.% ' $'

< 71,4-.'>'<6 ;.'?1,;E.6 -.10'5 =<.'5''?,?45'7 ,< >4 >>?'17. / .<7>.' 40.8 ;, / ?,6.'>.' 6 @ > 671 ;768 .67 '' ?.4 ?1.6 >.'C9 8)U ' <> - >46%

''>.?.<6.' '<<4.55.'>4 >.?'15. / .<78 ?,41' '> / ' < 671'5 ,< .7 5.6 71 04<'4@8 .67 >.'C* 8 '5 -%

<6 ' . .67 4< ?.4 ?546 >.' - <J7 >.4@ 6,46 ?'1' '< =4 5 .<;,>7.' '' ;:'=4.' <> - >4 4< ?,17'<7 '471.8 ?,41'>71.''> / < 671.' .7 Q4J>%

.';.77.'6, / / .'>.' C* 8 ' 5 -%8 ?1U6 >.6 _''H ,4 C (8 ' 5 -%8 6,<7 E @..6 ?'1'5.6 >.;1.76 ?,41 5.'71' ' 7. / .<7 >.6 Q4J.6 >.'> 671 ;78 >.6 '> / < 671'7.<168 Q4J.6 >.'?' @ .7 5.416 J1.EE .16% .6 9 / 55;'5 -% 1.6' 7'<7.6 6,<7 'EE..77 .6 '4@ E1' 6 >4 6.1- ;.%

!

, E
' ('' 3 $''+$.('' - 4 , '' -(' ''( ) ' *+,$ *+' -+*'' (''-(4+.,((*,''--')$*/' , **(''-('+' +*$.(' - $ 0 ''+0(U'.(*-' (. (,,,(/' * ''(*' *,'- ** '3 *$3 ,$ */' (('(',+$*'$'3 '** (';
' & ' ('4.('$-(*,/' * '' (''+..$0(''$$,,.+') .9 (';
-*' $''4+'' / (,'-('' (' (*-($*+$*'* ''* ''.' (''+) $ 3) ''+0(3 ('' # 3(.''9 * .+ 2 (,' (''36(#''-(''3 .4'/ 4 $ 3 *3(.7(.' (*'( ) (' ('' .+(' .('',(+,$0('D' + ' ,'(. , (*,' 5$ * ''(,$ *''36+.9('' -(' ,(3(0 $.' ' (5 (' *'' ,'
3 - $* '' 4+.' -D+*3$(*'' 4. 9 / '( ) +$(*,' -D+) $
4('-$'4 ,('2'4.(,(' (''(, (*,/ (,' *(' 4+.,$(' -('' $#$3$(*'
' ' (.,' .-$(' / 4+.,+9(+$(*,'3(''(*,$ (*,' :%
''0 8(U/ *'$(,/ 5 (' (' ' *('4 .'
*+'' ' ,' ('' ## 3$(.'' 9(* .+ 2 3 +*-+*,' \ ,.+') * .$ ''+0$ *'/ +$*'$5 (,(,+,! + ,/ ##(,'* .('(.' (*,'+' 3 .4''+-$*$*$',.+,$#'' - ''+'D#,)$*/<. $'' .'+0+'' '.+..$0$
-(' ' ('' 3 $''+$.(''-(4 ,(''-(' ''( ) (' *+,$ *+'?
* '' 4, *''5 ,('0 '' .(0(.(U'3(,,(' (..(*.' -+*''0 ,'
4. 36+$*' $$* . % J J
' $(,(*+*, (* .+ /O @/R!7 0' +.(()'
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8 ' 'F 'GZ '

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%) 'N #, / / .'Q.'?.:6.'=4.'5''1.?,46.'' _ % 5.'?1.6 >.<7 '' .7.' .@?1.66 ,< >4 -,.4 >.5 66.< 05..8 Q.'>. / '<>.'=4 .55.'1.;, -.'5'' ?546 J1'<>.'? 05 ; 7>% .';,41'J.8 5''E >.5 5.'>.'5'' J'1>.'<'7 ,<'5' 6,<7> '47'<7 ?546 .67 / '05.68 =4.'>.?4 6 5.6 71,40' ,< 7.<7.' >.'5'' 6.>4 1.% 55.'>, 7 ,07.< 1'>.' 66.< 05..' '??1,0'7 ?<'5''?546 ;5'5'<7.% ' .67 7. / ?6 .<5 =4.'5'' 5, ' .@.1;.'4< ?,4-, 1''06,54ſ 5 .67 7. / ?6 = ,< 6';:.'=4.'5.';'1';7.1.'>.'H:, / / .'5 0 .' .67>'' 5.' ;457.>.' 5''1.5 J ,<>.'5'' 5, % .' / , / .<7 .67 1.' ,4'>.6 :, / / .68 '?1; ` '-, 1'.7.'5,<J7. / ?65.'7,4 / .<7>.'5.41'?'71 .8 >, -.<7 .< < 71.'-,4.6'4 / ?1 6 << -.16.5ſ 5.' / , / .<7 .67 1.<4 ,4;.4@ =4 8 >'' 5.6 ; 1;,<67'<;;68 < '41' .<7 ;:.1;5 > =4.'>.6 -.' J.'<;.6 / 5 - >4.55.68 >, -.<7 >.-.< 1'5.6 -;7 /' >.'5''5, 8 =4 ' / .771'' ''>.;,4-.17 5.416 <E> / .6 /' <>;6% '>. / '<>.'>,<.'=4.'5''1.?,<6.'>.' % 5.'?1W

'.<7̂6,4ʾ4<?1 7< .ʾ .7̂ '5 ;0 .ʾ>'<6̂5,47.6̂5.6%14.6ľ
=4.ʾ5.6̂71 04<'<@ʾ?,<16 -W 7̂5.6̂'47.416ʾ>.6̂ / ,4 ʾ
. / .<76̂ .7̂5.6̂;:.E6̂>.6̂. / .47.6% '<6̂>.6̂ / , / .<76̂
?546ʾ ;'5 / .68ʾ5,16=4;ʾ5.6̂>-><. / .<76̂ 6.;,<7̂ / .4@ʾ
;,<<468ʾ <,46ʾ<,46ʾ ,;;4?.1,<6ʾ>4ʾ6,17̂>.6̂E' / 5 .6̂
>.ʾ;.4@ʾ=4ʾ6,<7̂ / ,176̂ʾʾ5.<1ʾ?,67.ʾ=1.;ʾ :'0 7̂>.ʾ5ʾʾ
5, %ʾ ,46̂5.41ʾ>Q1,<6̂=4.ʾ5ʾʾ<'7 ,<ʾ'>,?7.ʾ5.<16ʾ.< ʾ
E'<568ʾ .7̂ =4.ʾ5. 16̂-.4-.6̂54 ʾ'??'17 .<<.<7̂?'1ʾ5ʾʾ
1.;,<<' 66'<;.%
66. / 05>.ʾ,1>,<<.ʾʾʾ 4<'< / 7>ʾ / ?1.66 ,<ʾ.7̂
ʾ'E E;:.ʾ>4ʾ> 6;,416ʾ>.ʾ6,<ʾ?1.6 >.<7
.ʾ;,1?6̂ / 4< ; ?'5̂6.ʾ1.7 1.%
ʾ 5 ʾÑ .67 5̂?.1 / 6̂>.ʾ1.?1,;:.18ʾ.<ʾ;.ʾ
<, / .<7 <4ʾ; , / / '<>'<7̂>.ʾ5ʾʾJ'1>.ʾ<'7 ,<'5.86,<'. ʾ
,<ʾ .<.1.46.Z ʾʾ-'5.41ʾ54ʾʾE' 7̂,405 .1ʾ6.6>.-, 16%
<>.5 7'.7.;, / / 6̂;.<71.ʾ6ʾʾ?.16,<<.%;.ʾ< .67?, <7̂
ʾ 54ʾ=4 5̂'??'17.<' 7̂>'06,4>1.% .ʾ>. / '<>.ʾ=4.ʾ
66. / 05..ʾ';;1.7.ʾ=4.ʾ5.ʾ;,4?'05.ʾ6.1ʾʾ?,4164 - %
ʾ - ʾÑ ,46̂'> / 1,<6̂7,4 ʾ5 ';Ñ ,<ʾ>4ʾ
5, / / '<>'<7̂ >.ʾ5ʾʾ J'1>.ʾ<'7 ,<'5.8ʾ .7̂ 6ʾ 5ʾʾ5,ʾ
P,4-' 7̂'-, 1ʾ>.6̂.J'1>68ʾ;.ʾ6.1' 7̂4<ʾ / ,7 Eʾ>.ʾ?546ʾ
?,41ʾ?,4164 -1.ʾ5.ʾ;,4?'05.%
ʾ 5 ʾ>.ʾ ' <7 .'< > <J.5V%Ñ ʾʾ / .641.ʾ
=4.ʾ ,<ʾ?1,?,6.ʾʾʾ 66. / 05..ʾ.67̂:,16ʾ>.ʾ6ʾʾ;, / ?.GÑ
7.<;.8ʾ. .67̂'4@ʾ7<04<'4@ʾʾʾ?,4164 -1.ʾ5.6̂>.076%
66. / 05..ʾ;:'1J.ʾ5.6̂7<04<'4@ʾ>.ʾE' 1.ʾ '11.7.1ʾ
.7̂>.ʾ?,4164 -1.ʾ;.54ʾ=4 ʾʾ-,454ʾ'77.<7.1ʾ' @Q,41.ʾ
>.ʾ % 'E'V.77.%
66. / 05..ʾ>.;>.ʾ=4.ʾ5.ʾ;, / 7>ʾ>.6̂1'??,176ʾ.67̂
>.<7 .ʾ'-.;ʾ;.541>.6̂1.;:.1;:.6%
ʾ; 5 ʾ>.ʾ ' <7 .'< > <J.5VʾÑ ,46'-.0ʾ
,1>,<<.ʾʾʾ-,6̂;, / 7.6̂>.ʾ;,<67 747 ,<ʾ.7̂>.ʾQ41 6?14M
>.<;.ʾ> .@' / <.1ʾ5.ʾ ?1,Q.7̂>.ʾ>..1.7̂=4.ʾQ.ʾ-,46̂ʾʾ
6,4 / 6̂>'<6̂5ʾʾ 6.'<;.ʾ> 0 .1%;,<71.ʾ;.4@ʾ=4ʾ?1, ʾ
-,=4.<7̂5.6̂'77.<7'76̂ .7̂5ʾʾ1.6 67'<;.ʾʾʾ5ʾʾ5, % , ;ʾ
5.6̂'17 ;5.6̂=4 56̂ / ,<7̂;:'1J.ʾ>.ʾ-,46̂?1.6.<7.1ʾÑ $
Wʾ 66. / 05..ʾ<'7 ,<'5.8ʾ '?1.6̂'-, 1ʾ.1 7.<>4ʾ6.6%
;, 7.6̂>.ʾ;,<67 747 ,<.7̂>.ʾQ41 6?14>.<;.ʾ;1 / <.55.8ʾ
>. .1.7.Ñ%ʾ
Y 17%5W1%ʾ ,4 .6̂?.16,<<.6=4 '41 <7̂?1,-,=4>ʾ5.ʾ
/ .4171.8ʾ <;.<> .8ʾ5.ʾ? 55'J.8ʾ,4ʾ5ʾʾ>.6,0. 66'<;.ʾʾʾ
5ʾʾ5, 8ʾ6, 7̂?'1ʾ>.6̂?5';'1>68ʾ>.6̂'E5 ;:.68ʾ6, 5̂?'1'>.6̂
#;1 76̂?405 ;6̂.7̂;,5?,17.68ʾ6, 7̂?'1ʾ>.6̂> 6;,416ʾ7.<46̂
>'<6̂5.6̂5 .4@ʾ,<ʾ'66. / 05. .6?405 =4.68ʾ6.1,<7̂1.J41ʾ
>. .6;, / / .6.> 7 .46.6.7̂?;17410'71 ;.6ľ.7.<ʾ;,<6.M
=4.<;.ʾ5.6̂ ,E5 ; .16ʾ>.ʾ?,5 ;.ʾ6,<7̂7.<46̂>.ʾ5.6̂E' 1.ʾ
'11>7.1ʾ641 5. ;:' / ?ʾ .7̂>.ʾ5.6̂1. / .771.ʾ'4@ʾ71 04 ʾ
<'4@ʾ?,41ʾ>71.ʾ?4< .6̂64 -'<7̂5ʾʾ5, %
Y % ,47̂:, / / .ʾ=4 8ʾ>'<6̂4<ʾ'771,4?. / .<7̂,4ʾ
. / .47.ʾ8ʾ'41ʾʾE' 7̂.<7.<>1.ʾ4<ʾ;1ʾ>.ʾ?1, ,;'7 ,<'4ʾ
/ .5 171.8ʾ6.1ʾʾ?4<ʾ>.ʾ71, 6̂'<6̂>.ʾ5ʾʾ ;:' <.8ʾ6ʾ5.ʾ
/ .4171.ʾ<.ʾ6 .67̂?'6̂;, / / 68ʾ.7̂;, / / .ʾ;, / ?5 ;.ʾ>4ʾ
;1 / .8ʾ6 5̂ ʾʾ.4ʾ5 .4% ,47̂;7,V.<ʾ?1.6.<7̂.67̂7.<4ʾ>.ʾ
6. / ?5,V.1%,4ʾ>.ʾ?1.E.1ʾ / ' < E,17.ʾ?,41ʾ '11E 7.1%
555%ʾ ,47̂;1ʾ;,471.ʾ5ʾʾJ'1>.ʾ<'7 ,<'5.ʾ,4ʾ5ʾʾE,1;.ʾ
?405 =4. .<ʾE,<;7 ,<68ʾ7.<>'<7;ʾ54ʾE' 1.ʾ0' 66.1ʾ,4ʾ
>.?,6.1ʾ5.6̂'1 / .68ʾ6.1ʾʾ1.J'1>.ʾ;, / < .ʾ6.> 7 . @8ʾ.7̂
6.1ʾʾ?4<ʾ> 4<ʾ. / ?1 6,<<. / .<7̂=4ʾ<.ʾ?,411ʾʾ;@;. ʾ
>.1ʾ>.4@ʾ'<<..6%Y
% .7 ,<ʾ?'1' 5̂>ʾ5ʾʾ 1 0 / .%& . / 05>.ʾ.67̂- ʾ
-. / .<7̂'J 5. .%Pʾ
% Ñ .ʾ>` 1.1' 6ʾ6.45. / .<7̂ .<7.<>1.ʾ4<.ʾ
.;,<>.ʾ5.;741.ʾ>4ʾ?1,Q.78ʾ'5 <ʾ>.ʾ;,<<' 7E.ʾ?,6 7 ʾ
-. / .<7̂;.ʾ=4 5ʾ;,<75.<7% , 5ʾʾ5.ʾ6.45ʾ / ,7 Eʾ=41ʾ / ' 7̂
E' 7̂ / ,<7.1ʾʾʾ;.77.ʾ71 04<.%
% .J<'457̂E' 7̂4<.ʾ6.;,<>.ʾ5.;741.ʾ>4ʾ?1,Q.7%
ʾ (,$ *ʾ-(+*-(ʾ +ʾ4+. (
<ʾ>. / '<>.ʾ ʾʾJ1'<>6ʾ;1 68ʾ>'<6̂7,45.%6̂5.6̂?'17 .6̂
ʾ5ʾʾ6'55.8ʾ ʾ'57.1ʾ'4@ʾ-, @%
ʾ ʾÑ .ʾ / , / .<7̂>'<6̂5.=4.5̂Q.ʾ?'15.ʾ.67̂?.<ʾ
E'-,1'05.ʾʾʾ ,?< ,<ʾ=4.ʾQ.ʾ-.4@ʾ>.E.<>1.ľ / ' 6̂Q.ʾ5ʾʾ
>.E.<>1ʾʾ ;.?.<>'<7̂'-.;ʾ1 <7 / .ʾ;,<- ;7 ,<ʾ=4 / .ʾ
?'17 .ʾ>4ʾ?1. / .1ʾ'17 ;5.ʾ>4ʾ?1,Q.7̂=4ʾ-,46̂.67̂?1.ʾ
6.<7.ʾ.67̂E4<.67.ʾ ʾ5ʾʾ5 0;17.ʾ>.ʾ5ʾʾ?1.66.%& <ʾ.<7.<>

>'<6̂5ʾʾ ?'17 .ʾ J'4;:.ʾ >.ʾ5ʾʾ 6'55.ʾ;.6̂ / ,768ʾ1 ? 7E.ʾ
?'1ʾ> -.16ʾ / . / 01.6Ñ 4 8ʾE4<.67.ʾ ʾʾ '1'78ʾK1 66,78ʾ
';5,68 '<7, %Qʾ '17 ;5.ʾ;,<7 .<7̂>.6̂.@?1.66 ,<6̂ ʾ
ʾ 5.ʾ>.6=4.55;6̂,<ʾ?,<11' 7̂1.<> .ʾ>.6̂Q4J. / .<76̂71 6̂
'10 71' 1.6%& <ʾ.<7.<>ʾ>.6̂'??5'<> 66. / .<76̂>'<6̂5ʾʾ
?'17 .ʾ J'4;:.ʾ .7̂>'<6̂5ʾʾ J'5.1 .ʾ?5', .ʾ .<ʾE';.ʾ>.ʾ
%5.ʾ?1.6 >.<7%Pʾ <ʾ<ʾ'ʾ?'6̂;14ʾ=4.ʾQ.ʾ / 5.-.1' 6̂
;,<71.ʾ5ʾʾ7,7'7 7.ʾ>.ʾ '17 .5.8> / , <6ʾ,<ʾ<ʾʾ?'6̂>>ʾ
.ʾ;1, 1.%ʾ '17 ;5.ʾ<,17.Ñ W ,47.6̂Q .16,<<.6̂=4ʾ'4 ʾ
1,<7̂?1,-,=4>5ʾʾ75.6,0.566'<;.ʾ ʾʾ5ʾʾ5, % Ÿ .16,<?.ʾ
?546ʾ=4.ʾ / , ʾ<.ʾ1.6?.;7;ʾ5ʾʾ5, %& .6̂ / 47 / 41;6ʾ6,<7̂
.7,4E7.6̂?'1ʾ5.6̂'??5'4>566. / .<76%Pʾ .6̂ / 41< / 1.6̂<.ʾ
/ . / ?>.:.1,<7̂?'6̂>.ʾ;,<7 <4 .18ʾ;'1ʾQ;ʾ>.E.ʾ=4 ,<ʾ
/ .1.?1,;:.ʾ <.6.45.ʾ';7 ,<>,<7̂44:, < 7.ʾ:, / / .ʾ
?4 66.ʾ1, J 1%& .ʾ?546ʾ , / 01.4@ʾ'??5'4> 66. / .<76̂
1.;, / / .<;.<7%Qʾ .ʾ1.6?.;7.ʾ5ʾʾ5. 8ʾ.7̂Q .<J'J.ʾ ʾʾ5ʾʾ
1.6?.;7.1%&34;5=4.6̂ / 41 / 41.68ʾ=4.5=4.6̂'PY?H'4>6ʾ
6. / .<76%Pʾ ʾ .67̂<,<ʾ> ,06.1-.1ʾ=4.ʾ '17 ;5.ʾ?,4 [' 7̂
>,<<.1ʾ5 .4ʾ ʾʾ4<.ʾ / 457 74>.ʾ>.ʾ?.16>.4ʾ7,<6%ʾ ,1<G
=4 4<.ʾ5, ʾ.67̂1.<>4.8ʾ;.17' <.1'.<7̂5̂E'47Vʾ,0. 1ľ
<' 6ʾ5̂.67̂?.1 / 6̂ʾʾ7,47̂;7,V.<ʾ>.ʾ .@'7< <.18ʾ> >7'ʾ
05 1=< .5E.ʾ< .67̂?'6̂;,<E,1 / .ʾ '4@ʾ?1E<; ?.6̂>.ʾ5ʾʾ
1' 6,<ʾ.7̂>.ʾ5ʾʾQ467 ;.8ʾ&?4; =4.6̂ / 41 / 41.6%Pʾ ʾʾ
>;1 7̂'-.;5 0.17.ʾ641ʾ4<.ʾ5, ľ,< / .ʾ> / ʾŤ=4.Q'E' E' ʾď
05ʾ5.ʾ1.6?.;7̂=4ʾ ʾ.7' 7̂>75IYʾ ʾ ʾ> 1'Ñ U ʾ-,46̂
4 '- .0ʾ?'6̂ >;1 78ʾ ,<ʾ < '41' 7̂ ?'6̂ > ,0>ľ . .67̂
>,<.ʾ-,46̂=4ʾ'-.0ʾ?1,-,=<;ʾ5ʾʾ>>6,0. R66'<;.%G , ʾʾ
;, / / .ʾ ,<ʾ?'1- .<7̂ ʾʾ 74.1ʾ5ʾʾ 5 5 .17.ʾ >.ʾ5ʾʾ?1.66.%ʾ
& <.ʾ-, @ʾ .5 -.ʾÑ # .67̂?,41ʾK1 66,7̂=4.ʾ-,46̂ ?'15;0ʾ
5 %Pʾ .ʾ / >5.-.ʾ>.ʾ7,47.6̂1,.ʾE,1;.6̂;.<71.ʾ;.4@ʾ=4ʾʾ
<1,-,=4.<7̂'4ʾ / .4 1.% #.54ʾ=4ʾ> 7Ñ > ,5< 66.0ʾ
ʾʾ5ʾʾ5, ʾ.67̂;,4?'05.%ʾ ' 6%%%
ʾ / ʾ>.ʾ ' <7 .'< > <J.5VʾÑ .ʾ?1,?,6.ʾ
>.ʾ / .751.ʾ '?1.6̂;.6̂ / ,76Ñʾ W ,47.6̂?.16,<<.6̂=4ʾ
'41,<7̂?1,-,= .ʾ5. / . 171.8ʾ <;.<> .8ʾ5.ʾ? 55'J.8ʾ$
;;4@ ;ʾÑ ʾ ʾ! ʾ ʾ VF Iʾ
% Ÿ +ʾ#.77.ʾ?1,?,6 7 ,<ʾ.67̂'>,?7..%
.6̂'17 ;5.6̂?1,?,6.6̂?'1ʾ % .J<'457̂6,<7̂>>;1>5.6%
ʾ3 ʾ 9 ʾÑ .6̂5, 6̂>.ʾ7,47.6̂5.6̂<'7 ,<6̂=4ʾ
,47̂-,454ʾ?,41-, 1ʾ ʾ5ʾʾ6:1.7>ʾ?405 =4.ʾ ,47̂.4ʾ6, ʾʾ
>.ʾ ?1>-, 1ʾ5.6̂ / .641.6̂ <> 1.;7.6̂?'1ʾ5.6=4.57.6̂ ,<ʾ
?,<11' 7Vʾ?,17.1ʾ'77. <7.%# .67̂;,<71.ʾ;.6̂?1,-,;'7 ,<6̂
<> 1.;7.6̂=4 5̂E'47̂6.ʾ?1> / < 1%& <ʾ>. / '<>.ʾ ,1>1.ʾ
>4ʾQ,41%Pʾ '<6̂> 1.Ñ ʾ ʾ ʾ 8ʾ,<ʾ?.478
.<ʾ?'15'<7̂'-.;ʾ71,?ʾ>.ʾ5 0.17>8ʾ'-.;ʾ5 ;.<;.%%%%%%& .6
;1 6̂1.>,405.<7Ñ .1>.;ʾ_RʾAR,77R %Pʾ
ʾ ʾÑ .ʾ / , / .<7̂, ʾ 7 66. / 0 ;;ʾ <> = .ʾ
'4@ʾ ; 7,V.<6̂5.ʾ1.6?.;7̂=< 56̂>, -.<7̂'-, 1ʾ?,41ʾ5ʾʾ
5, 8ʾ.67̂'466ʾ;.54ʾ,0ʾ.55.ʾ / '1=4.1ʾʾ6,?̂?1,E,<>ʾ1.6M
?.;7̂?,41ʾ5ʾʾ5 0.17>8ʾ.71 ʾʾ:ʾ <.ʾ?,41ʾ7,47;ʾ / .641.ʾ
=4ʾ?,<11' 7̂' / .<.15 '10 71' 1.%%%%%%
66. / 05>.8ʾ <7.11, / ?'<7̂ % K'1<'-.8ʾ?'66.ʾ ʾ
,1>1.ʾ>4ʾQ,41%
41ʾ5ʾʾ?1,?,6 7 ,<ʾ> 4< / . / 01.ʾ>4ʾ;, / 7>ʾ>;6E ʾ
<'<;.68ʾ5.ʾ>>;1.7̂64 -'<7̂.67̂1.<>4I
$ 66. / 05>.ʾ<'7 ,<'5.ʾ>. .1.7.ʾ=4.ʾ5ʾʾ;' 66.ʾ>.ʾ .@ʾ
71',1> ' 1.ʾ -.16.1ʾʾ ʾ 5ʾʾ 71>6,1;1 .ʾ ʾʾ 6, / / .ʾ >;ʾ
89% C8*)ʾ5 -8ʾ .<ʾ1. / ?5';. / .<5ʾ>;ʾ?'1. 55.ʾ6, / / .ʾ
?'1ʾ.55.ʾ';=4 77>.ʾ>'<6̂5.ʾ / , 6̂>.1< .1ʾ?,41ʾ5.6̂>>ʾ
?.<6.6?'10;45 .1.6 1'<<..5(* %Yʾ ʾ A
8ʾ ?1 6̂> 5E.1.<7.6̂,06.1-'7 ,<6̂E' 7.6̂?'1ʾ %K.5ʾ
0' 6 !,41 / .< 78ʾ#.1<'<.7̂ .1- <=4 1.68ʾ 66. / 05..ʾ
'>,?7.ʾ 5.6̂ > 6?,6 7 ,<6̂ 64 -'<5.68ʾ?1,?,6>.6ʾ ?'1ʾ
%#' / 46% 8ʾ 8
$ 66. / 05..ʾ<'7 ,<'5.ʾ>>;1.7.Ñ
17%5.1%ʾ .ʾ ;4 -1.ʾ 1>6457' 7̂ >.6̂ .@?.1 .<;.6̂
E' 7.6̂641ʾ5.ʾ<>7'5̂>.6̂;5, ; :.68ʾ.<ʾ?1.6.<;.ʾ>.6̂; , / ʾ
< 66' 1.6̂>.6̂ / ,<<' .6̂.7̂>.6̂ E<'<;.68ʾ6.1ʾʾ 4;.6ʾ
6' / / .<7̂?,17>ʾ ʾ :>7.5̂>.6̂ / ,<<' .6̂?,41ʾV> 1.ʾE'G
01 =4>ʾ.7̂5$>>4 7̂ .<ʾ< ,<<' .% ʾ %
8ʾ$ % ʾ6.1ʾʾ?1,.>>>ʾ'4@ʾ:,4-.'4@ʾ71'1'4@ʾ'>?4ʾ
1'7 ,<ʾ>4ʾ / .7'5̂>.6̂;5, ; :.68ʾ6,46̂5ʾʾ641-. 55'<;.ʾ>.6̂
/ ; / .6̂;, / 7>68ʾ ;6=4;0ʾ7 . >1,<7̂<,7.ʾ .@';7.ʾ>.6̂
>.?.<6E 6̂;7̂>.6̂1>6457'76%

Y B %' .'> ?'17. / .<7'>.' '1 6'>>5 -1.1'' '66';5, ; : .6' < 6.66' 1.6' '' ; .77.' ,?.1'7 ,<%Y

%H.1 / .<7'?1,?,6.' ;6>.1< .16''17 ;5.6'6 1' ,1J' ' < 6'7 ,<'>.'5'' / '1 <.I' 56'6,<7 '>,?5.6' ; , / / .' 5'64 7N

" " " %' '6.1'' . / 0'<Q<.'641'7,<6'5.6' 0'7 / .<76'>,' 7'7 4<' 6,46 ; :1E' > '>/ 671'7 ,<' ?,41' 7.< 1' '' ; , / ?7'0 5 7>I' .7641' 5,47.6' 5.6' .6;'>1.68' '' 0,1>'

' 66.'<; , / 7<'<>'J78'>.4@'; : .E6' ,<'6,46 ; : .E6'> '>' 7< < 671'7 ,<8' 4<' ?1 6'>'<6'5.6' ; : .E6'>.' ; , / ?7'0 5 7. %' =4 6.1'' ; : '1J>>.'1'; , / ?7'0 5 7>J. <>1'5.'>.6' '??1,' - 6 ,<<. / .<76' .7'>7E?. :6.6'>.' .6;'> .8' .7> <6?.;7.1' 5'; , / ?7'0 5 7.?'17 ;4 : \1.>. ; : '=4.-' 66.<4I' '471.' ?1 6'>'<6'5.6' ; : .E.'>.671'-'4@8'=4 '6.1'' ; : '1J>'>.'7,47.' E'' ?'17 .' > .<71.7 .<' .7' >.' 1>?'1'7 . /' >.6' -' 66.'4@%

" " " %' .6' ' ; : '7.8' '??1,- 6 ,<<. / .<E6' .7' '471.6' >>?.<6.68'6.1,<7'E' 56' ?'1'5.6' ,1>1.6'>4'J. <>1'58' : ,16' >.6'?,176'> , :' 5' .67' ?'17'8' > '?106'5.6' >. / '<>.6'>.' ; : '=4.'-' 66.'48'641'5.6,4.55.6'5.' ; : .E' ; : ' J.'>.'5'' ; , / ?7<0 5 7>' .7' ; .54 ' ; : '1J>' >.6' 71'-'4@' 6.1,<7' 7.<<6'>.'>,4<.1'5.41' '- 6' ?'1'>;1 78' ;0';4<'?,41' 6'' ?'17 .%

" " " %' .6' ,1>1.6'>4' J><>1'58'>'<6' 4<.' .6;'>1.8' ,4'>4' ; '? 7' <.'> 4<' -' 66.'4' ?'17 ;45 .18'6.1,<7'7,4 dQ,416' >,<<.6' ?'1'>;1 78 . ' / '7 .1.'> '>/ < 671'7 ,<' .7>.' ; ,< ?7'0 7. 8' .7' .@. .47.6' <,?,067'<7'7,47' '- 6' ; ,<71' 1.N >'<6' ; .' ; '68' 5.'J><. 1'5' 77' ; ' ; '? 7' <.' .<' 6.1'' ?'15 ;B5 71. 1 .<7' 1.6?,<6'05.8' ; , / / .' 5.6' ,EE ' ; .16' > '>/ < 671'7 ,<'5.'6.1,<7'>.'5.416' ,?>1'7 , 68

" " " %' ''>.67 <'7 ,<' >.6' ,E5 ; .16' ; - 56'>'<6'5.6' ?,176' .7' '1..<'4@8'>'<6' 5.6' =4'15 .16' >.6' ;5'66.6' '7' ; ,5,< .68' '??'17 .<>1'' '<1, 8' .<' ,06.1-'<7'5.6'1.J .6' >7'05 .6'?,=1'5.41' '-'<; .1<.<7' > 4<' J1'>.' '' '471.' I 5.41'<, / 01.' .7' > 671 047 ,<'6.1,<7'1>J5 6'?'1'5.'; ,1?6' 5 J6 '7 E'64 -'<7'5.6'0.6, <6'>4'6.1- ; .%

" " " %' .6' =4'17 .16'>.6' ;5'66.6'6.1,<7'> 671 04>6' 6< 1'<7'5.41'5, .'5 7.8'>'<6'5'' >>?.<>'<; .'>.' ,1>,< ' <'7.41'>4' ?,17'5.'?546' -, 6 <8' .7' ; ,<E, 1<> / .<7' '' 5'' <,4-.5 .'> - 6 ,<' J>,J1'?: =<.'>4' 1,V'4 / .8' .7'64 M -'<7'5.'1.J5.7<.<7' =4 ' 6.1'' ?1. 6.<7>' ?'-' 5.' / < 671.8' .7'>.;1.7>' ?'1'5.'; ,1?6' >J 6 '7 E%

" " " ' B' 6.1'' >1.66.' >.'1<> / .' 4<' .7'7' >.6' ?' ' 1, 66.6' / =1 7 / ;68' ?,41' 1.J5; I' 5.41'>>?.<>'<; .' >.' ; : '=4.'=4'17 .1'>.6' ;5'66.68W '5.6'6.1- ; .6'>.6'6V<> ;6%

' " " " %' .6' ; : .E6' .7' 6,46 ; : .E6' > '><' < 671'7 ,<' >.6' ;5'66.6' 6.1,<7' 640,1>,<<.6' '' ,1>,<<'7.41'>4' ?,17'>'<6'5''>>?.<>'<; .'><=<.5' 56'6.1,<7'>7'05 6%

556'41,<7'> EE>1.<7.6' ?' .68'6< -'<75 <'?,17'<; .' .5' >7;<>5 .'>.'5.416'=4'17 .16'1.6?. ;7 E68' ' <6' =4 5'6.1'' '11>7.' ?'1'4<'1.J5. / .<7' '' ; .7' .5H.7%

" " " %' .66-<> ;6>.6<Q'1 <6>7'0 6>'<6; : '=4.' 6V<> ; '7' '41,<7' &5.6'>1' ,54 / .<76' ,4' J'J.6'1>J5>6' ?'1' 5''5, 8' .7?1,?,17 ,<<.6' '' / ?,17'<; .>.'5.41'6.1- ; .%

8 ' ' ' ' !! '

" " " "8' .6' ,EE ; .16' ; - 56'>.' 5'' / '1 <.' ,07 .< ' >1 <7' >.6'?.<6 ,<6'>.' 1.71' 7.' .7'> <-'5 >.68' ?'1'5.6' < < .6'1E.J5.6 =4.'5.6' ,E5 ; .16' / 5 7' 1.6'>.5'' / '1 <.8' .7'5.416'6.1- ; .6'6.1,<7' ; '5;45>6' >.' / > / . '' 5'' / .18' >'<6'5.6' ; ,5,< .68' .<' ?' @' .7' .<' J4.11.%

#.7' '17 ;5.' .67'1.<-,V.' '<' ; , 7>%' %

: & '& ' ' ' ' !! ' '

" %' ,47' ,EE ; .1' ; - 58' ?,41-4'>4< J1'>.' , ' ; / ' 5, 8' ?1.7.1''8' .<' 1.' ; .-'<7'6,<'01.-.7' ,4' .<71'<7' .<' E,<; : ,<68' 5.'6.1 / .<7'>.'E,<;7 ,<<' 1.' ?405 ;%

" %' ,47.6'5.6E, 6'=4 4<'640,1>,<<>'1.6?,<6'05.' 1. ; .-1''>.6' ,1>1.6' =4 5' ;1, 1'' ; ,<71' 1.6' '' 5'' 5, 8' 5' ?,<11'' >. / '<>.1'=4 ,<'5.6' 54 '>,<<.'?'1'>;1 78'6'<6' ?,4-, 1'6.'> 6?.<6.1'>;'5.6' .@>;47.1%' 5'6.1''7.<4'> .<' Q, ,>1.'4<.' ; ,? .' '4@'? . ; .6'>.'6'' ; , / ?740 5 7.%

" %' ,47' ,EE ; .1' ' ' ' ' '

1. / ?<1' 4<.' / 66 ,<8'5,<;7 ,<' ,4' . / ? 8' 6.1''7.<4' 8'>.'1.<>1.' ; ,< ?7.'>.'6.6' ,?.1'7 ,<6%

" 555%' ,47' ,EE ; .1' ; - 5' ?,411'' > 1.' ?1,- 6, 1.' / .<7' 646?.<>4' 7 ;'6.6' E,<;7 ,<6' ?'1' 1,1>,<<'7. / 8' / '5.' <.' ?,411'' >71.' >.67 74.' 6'<6' 4<.' >>; 6 ,<' >< ; ,<6. 5'> '>/ a71'7 ,<' > 4<'>.6' J1'<>6'?,176'>.5 '1' / >.' <'-'5.8' '4=4.5'5.' / < 671.'1.<-.11'' 5.6' ?5' <5.6%

%' " %' .' ; ,<6. 5'> '>/ < 671'7 ,<' .1'' ; , / ?,67S >.' 1,1>,<<'7.418' >4' ; : .E' >.6' 71'-'4@8' >W' '.4@ ; : .E6' .7' 4<'6,46 ;0.E'>.' ; , / ?7'0 5 7. 8' > 4<'6,46; : .E' .7'> 4B' .5E.-.'>.6' 71'-'4@'1' ; .6' ; <=' >.1< .16'V 6.1,<7' '??.5. 6' '' 7,41'>.'145.I' .5 '>0<'>'<6'6,<'J1'>.%

' .' ; ,< 9'.41' ,4' 5.' 6,46 ; , 71>5.418' '66 67.1'' '4@ ; ,<6. 56' > '>/ 671'7 ,<8' .5' V' '41'' -, @' 1.?1>6.<%' 7 7 -.%' A % % %' % $

%' ' '
=' K %

" %' .' 1, ' ; : '1J.1'' 7,<6' 506' '<6' 4<' ; ,<71>5.41' ,<' 6,46 ; ,<71 5.41' >.' 6.' 1#<> ;' >'<6' 5.6' >E.1.<76' =4'17 .16' >.6' ;5'66.6' >.' 6,<' '11,<> 66. <.<78'>V->' 1 E .1'5'' ;' 66.' .7' 5.61.J 671.6' >.6' ; : .E68' 6,46 ; : .E68' ?1.?,6.6' '4@' ;5'66.68' 7 .6' ; ' 667.16' >.6' <-'5 >.6' .7' 6V<> ;6'>.6' J.<6'>.' / .1%

G ' ' ' ' ' ' '

" 8' # : '=4.' ,EE ; .1 ; -Q5' ; : '1J>' > 4<' >.7'5' 6.1'' ;? / ?7'05.' .7'1.6?,<6'05.%' ' 6.1'' 7.<4'>=11.7.1' 6,<'1.J 671.' '' 5'' E <'>.' ; : '=4.' / , 68.7>.E' 1.6 ,<0,1' >.1.'<' >4' ; , / ?7.'>4' / , 6% #.6' ; , / ?7.6' 6.17< 7->' 1 55. 6' ?'1' 5.' ; ,<71>5.41' >.' 5'' / 'E <.' .7' '11>7.6' ?'1' 1,1>, <'7. .%' %'

" %' '5'' E <' >.' ; : '=4.' ; ,<651 ; ,<8'1'>, 08' ,4'>.' 7,47' '471.' ,4-1'J.' .@. ;47.' >'<6' '16.<'5% 5' 6.1'' E' 7' 4<' ; , / ?7.' ?'17 ;45 .1'>.' 5''>.?.<6,' '' 5' ' =4.55.' 6 .5.-.1'' ; : '=4.' <'741.' > ,4-1'J.8' .<' / ' ' 7 >1.' .7'< ' < > , .4-1.N 5.' ; , / ?7.'6.1'' E' 7' ?'1'5.'; : .E' >.' '16.<'58' ; ,17 5 .' ?'1' 5.' ; : .E'>.6' ; ,<6714;7 ,<6' .7' 71'-'4@8' -.1 5 .' ?'1'5.' ; ,<71E 5.418' .7' '11>7.' ?'1' ,1' >,< '7.41%

" %' 4'>>6'1 / . / .<7%>.' ; : '=4.' 0>7 / .<7% 5' 6.1'' >1.66.'4<' ; , / ?7.'Q '17 ;45 .1'>.5''>.?.<6.>4>7' 0>7 / .<7' . :'6,5>.8' '??, <7. / .<76I6406 67'<; .68'E1' 6' >.' 1.5>; : .8' .7' 1. / ?5'; . / .<7' >.' ; ,<6, / / '7 ,<' >.' 7,47'J.<1.% #.' ; , / ?7.' 6.1'' ! '?'1') ! ' > '>< ' < 671 7 ,<' ; : '1J>' ' '' ; , / ?7'0 5 7>' >&' -' 66.'48' ; .17 5 >' ?'1'5.' ; '? 7' <.' >4' -' 66.'48' ->1 E .' ?'1'5.' ; ,<71 5.4E8' .7'11>7.' ?'1' ,1>,<<'7.41%

%M' .6' ; , / ?7. .' ; : '=4.'?,176.1,<5'?1.6.<7>6' ; : '=4.' '<<>.' '' .@' / .4' ;E4<.' ; , / / 66 ,<' > <6' ?. .7 ,<8' =4 '?1.<>1''7,47.6' ; , / / 4< ; '7 ,<6' =4 .55.' ;1, 1'' <. ; .66' 1.68' .7' 46?. ;7.1''>J'5. / .<7' .7'5'>.6' / 'J'6 <6' .7'>.671'-'4@'>.6'?,176%

%' '' ; , / / 66 ,<'6.1'' .J'cJ / .<7' ; : '1J. .'>.' ; ,<6' 7'7.1'6'5.6'1.67'<76' .<' / 'J'6 <6' .7' .<' ; ' 66.'6,<7' ; ,<' E,1 / .6' ''5''0'5'<; .'>.6' .7'76'>.'1. ; .77.' .7'>.'>>?.<6.8' .7' .7'7'>'<6'5.=4.5' 56' '41,<7'>7>'7.<<6%

%' '' ; , / / 66 ,<'6.1'' ; , / ?,6>.'>.'71, 6' ,E5 ; .16 / 5 7' 1.68' > 4<' ; : .E'>.' ; , / ?7'0 5 7>8' > 4<%; : .E>.6' 71'-'4@' .7'>.'>.4@' ?.16,<<.6' .71'<J.1.6' '4'>>?'17.' / .<7'>.' 5'' / '1 <.8' .7' .@.1.>.6'?'1'>7'7' '' 5'' . , / ' 7'0 5 7>I' 56' 6.1,<7' 7 46' <, / / `' ?'1'5.' 1, ' >' . ' ?,= .'>.' ; : '=4.' <6?. ;7 ,<I' .7'5.6' ; : .E6'>.' ; , / ?' 7'0 5 7.' .7' >.6' 71'-'4@' 6.1,<7' ?1 6' >'<6' 4<' ',51.' >.?'17. / .<7'=4.' ; .54 ' ,<' 56'>.-1' .<5'E' 1.' <6?. ; ' 7 ,<%' 8' % ' %

7%' .6' ; , / ?7.6' .@' / <.6' .7' ->1 E .6' 6.1,<7' .<G -,V>6' '4' / < 671.8' =<' 5.6' ->1 E .1'' >.' <,4-.'4N 5 6, / .771'' '4' 041.'4' >.' ; , / ?7'0 5 7>' =4 '6.1''>7'05' ?'1'1 66. / 05>.<'7 ,<'5.8'5''5,7'5 7>'>.6' ; , / ?7.6'>.' 5'' >>?.<6.'>.'6,<'>>?'17. / .<7%

' ' ' ' ' ' ' ' '
' ! ' 'F ' G '' ' ' ' ' '! #
' ' 8
' ' '' ( ) -($,+,$ $$+A(/#3J$$ 0(+#, (' (# F'

?,1 .6'?'1'5.'>>;E.7'>< '>>.. / 01.' (* 8';,<71.'7,47' . / ?5, ' >.6' '66 J<'76' .7'<71.6E,<>6'=4 '1.<51#<7'>'<6' ;6';' 66.6'>.'> 671 ;78''471.'=4'' ;.54'=4 ' .671>J5;'?'1' 5.6' >.;1.76'>.' 66. / O5. .8' >.;1.7.'=4.'5.6> 56' '66 1' J<'76' 6.1,<7' .<-,V.6 , 7'4' 71>6,1 .1'>.' .@71',1 ' 4 <' 1.8' 6, 5'U' 5'' 71>6,1.1 .'<'7 ,<'7.8' 6.5,<'5'' >.67 M <'7 ,<' =4 ' .<' .67' E' 7.' ?'1' 5.6' > EE.1.<76' >&S;1.761' >.' 66. / , ..8' '' ?. <.8' ;,<71.'5.6'> / < 671'7.41.'=4' <7.17 .17 1' .<7' 5'' >.67 <'7 ,<' .7' .<-, ' >.6' '66 J<'76' .5' >.6' E4<>6' ?405 ;68' > .<' 1>?, :>1.' .<' 5, 41?1, ?1.' , / 8'

'' '<;.' .67' 5.->.'U' 71,E6' :.41. 8'

' 0 ' * 7 ' é ' 8' 8

5.'?1.6 >.<7' '<<,<;.' =4.'5.' 1>6457'7'>?' 5..?<>' 6;1<7 <' ?,41' 5'' <, / <'7 ,<' >.' 6,<' 64;; .41' '' >,<<>5'' / 'Q,1 7V' '' I H.1 / ,<7I'

41' 5.' 1'??,17' E' 7' ?'1' 14J<,<8' 5.6' >>;1.76' 64 -':76' 6,<7' 1.<>46'E' d

8)2 !' 7 '7 ><'5.'8' 47' 5.' 1'??,17' >.6,<';, / 7>' >. / ?5';. <.<78' ;,<6 >.1'<7' 4 5'< .@ 67.=4.'5''<' ,<'>.6' >;,55.768' >'<6' 5'' - 55.' '.' #5' / .;V8' Q J>.'<.;.66' 1.' ?,41' V' >71.' 71'<6E,1 ' / >.' .<' :>7.5 > .48' '47,1 6.'5.'> 1.;7, 1.' >4' > 671 ;7' >.' #5' / .;V8' >.?'17. / .<7' >. 5'' U-1.'8 'G';=4>1 18' '4@' E1' 6' >.6' '> / < 671 8' >. -.1<, 68' / ,V.<' $1 '<7' 5'' , / / .' >.' 8 '5 -8' ?1 @';,<-.<4' .<71.'54' .7' 5.> 1.;7, 1.8' 1'<; .<G =7:7, 1.'>.' 5'' ; >.-'<7' Q467 ;.' . J< 41 ' .>.' #5' / .;V' .7' O>5 / .<76' .<' >> ?.<>'<768' ?,41' V' 2\ ';.1' 5.6' ;,1?6' '> / < 671'7 E6' >.' > 671 ;7' .7' 5.'71 O4<'5

'47,1 6.?'1. 55. / .<7'' E' 1.'?1,;.>.1'U' '>Q4> ' ;'7 ,<' '4' ;'O' 6' >.6',4-1'J.6' .7' '11'<J. / .<76' <7>' 1 .416' <>;.66' 1.6' '?.7' .7'O5 66.1'.<78' 641' 5.6' >.- 6' .6' 7 / '7 E6' =4 ' .<' ,47' .7>' >1.66>6' ?'1' ' 55'1>8' 5.6' .7')' E.-1 .1' >.1< .18' ?,41' 5.'1<,<7'<7' >.' 5'> 7.' '>Q4 ' ;'7 ,<' o71.''466 ' 64??,17.'?'1' 5.6> 76' '> / <Q671>6

'# 66. / O5>.'<'7 ,<'5.8' ,47' 5.'1'?M ?,17' >.'6,<';, / 7.'> . / ?5';. / .<78' '47,1 6.' Z' > 1.;' 5, 1.'>4' > 671 ;7' >.' ,4:'<6' 8' >>?'17. / .<5' >.' '><.' .7' , 1.8' U';=4>1 18' '4@' E1' 6' >.6' '> < < 671>6' .7' >'<6' 5.6' E,1 .6' ?1.6;1 7.68' 5''?'17 .'>.6 '1> <6' >.' : ? 7'5' >.';.57.' - 55.' .<,<;>.' >'<6' '- 6' ><' > 1.;7, 1.' >4' > 671 ;7' >4' 'Q4 <' >.1< .18' ?,41V' E' 1.85.6' ;,<6714;M 7 ,<6' / ;.66' 1.6' '' 1>7'O5 66.< ;<7' >.6' ;,1?6' '> / < 6 ' 71'7 E68' >4' 71 O4<'5' .7' >4' O41. '4' >.';,<; 5 '7 ,<

'47,1 6.' >J'5. / .<7''. / ?5,V.1' ' @' E1' 6' >.';;77.' ;,<6714;7 ,<' -,5,<7' 1.' 5.6' >.< .16' ?1,-.4'<56' >.' 5'' ;,<71 O47 ?<' -,5,<7' 5.' >.6' ; 7,V.<6' >4' > 671 ;7' >.' 8 ,4:'<6' 8' >,<7' 1 66. / O5..'<'7 ,<'5.' 5,4.' 5.'O.5.' .7' ;'?'71 ,7 6 / .

< 66. / O .'<'7 ,<'5.8' ,47' 5.' 1'??,17' >.' 6,<' ;, / 7>' > . / ?5';. / .<78' ' 7,1 6.' 5.' > 1.;7, 1.' >4' > 671 ;7' >.' . / 68' >.?'17. / .<7' >.' 5'' '1<.8' '';=4.1 1' 8' '4' <, / ' >.6' '> / < 671#6' .7' >'<6' 5.6' E,1 / .6' ?1.6;1 7.68' 5'' / ' 6,<'>.' 'OO'V.'>.' ' <7' .<6' .7' 7.11' <6' .<' >.?.<>'<768' 1.<E.11' '>'<6' 5.6' 5 / 7.6' >>6 J<>.6' 641' 5.'71'; >4' 5,;'5'=4 '6.1- 1'?,41' V' ?5';.1' 5.';,1?6' '> / < 671'7 E' >4' > 671 ;78' 5.'71 O4<'58' 5.6' ?1 6,<68' 5.'O41.'4' >.' ;,<; 5 '7 ,<' .7' 5'' J.<>'1M / .1 .'<'7 ,<'5.

'47,1 6.' ?'1. 55.< ;<7' '' E' 1.' E' 1.' '4@> 76' O 7 ' / .<768' '' '>Q4> ;'7 ,<'4'1'O' 68' 7?47.6' 5.6' 1.?'1'7 ,<6' .7'11'<J. / .<76' <7>1 .416' <.;.66' 1.6' '4@=4.56' 5' 6.1'' ?1.;.>.' 41' 5.'>.- 6' .67 < '7 E'=4 ' .<' '' .7.' >1.66.'?'1G B41'4578' <6?.;7.41' >.6' ?,<76' .7';:'466..68' ?,41' 5.'1<,<7'<7' >.'1'>Q4> ;'7 ,<' >71.'64??,17.'?'1' 5.6> 76' '> / < 671.6

+' 41'5''?1,?.6 7 ,<' E' 7.'?'1' 5.@'<>1.'K.'4' :'1<' 68' 5.'>.;1.7 64 -'<7' .67' 1.<>4' N

W 66. <O ..'<'7 ,<'5.'>.;1E.5.'=4.' 5=4 .18 K 1,<' .7' K,45 .8' / . / O1.6' >.' 66. / O5. .'<'7 ,<'5.8' ;, < < 66' 1.6' <, / / .6' ?'1' > .'?,41' 6.'1.<>-.'>'<6

5.6' >>?'17. / .<76' >4' ,1>' .7' >4' '6 >. #'5' 68' 1. / ' ?5 1,<7' '466 ' 5.41 6E,<;7 ,<6' >'<6' 5.' >.?'17. / .<7' >.' 6<.

+' <' >.' 8' 5.6' 6.;1.7' 1.6' E' 7' 5.;741.'>.'>.4@' '>1.66.68' 4<.'>4' ;,<6. 5' J.<.1'5' >.'5'' ;, / / 4<.' >.' ,4.<8' .7 '471.>.' 5'' J'1>.'<'7 ,<'5.' >.' 5'' / > / .' - 55.

)', * ' ' '& ' ' ' ' '
)' :

.6 ?.1K>.68' >.6' 71'571.6' ,<5' 6>>4 7' 5.'1, ' .7' 54 ' ,47' ;O<6. 5 .'> 'O'<>,<<.1' 5.' / . 55.41' >.6' ?.4?5.6

.' / ,<'1=4.' '' > 6?'14' >'<6' 4<' <67'<7' , 5' 6'' 5 7.' ?,4-' 7' ?.1>1.' 7'7I' 6 5' '' ?1. -4' 5.6' E <.67.6' ;,<6.M =4.<;.6' >.';.77.' .71'<J.'>. / '1;:.8' 5' >, 76.' E' 1.' 5.6' ?546' J1'<>6' 1.?1,;:.6I / ' 6' ?'1' 5'' #5,<67 747 ,<'6'' ?.16,<<.' .676' ;1>.' .7' <- ,5'O5.8' .7' .55.'< ''?4' ;.66.1' >.5 .71;I

.' / ,<'1=4.'7 .<5' 7, 6' 6.6' ?,4-, 16' >.' 5'' <'7 ,<I' 6 5' .67' <- ,5'O5.8' ;.' < .67' ?'6' ?,41' 6,<' O,<:.418' ; .67' ?,41' 5.'<>71.I 6 5' .67' <- ,5'O5.8' 5' <.'?.47' >,<.' .71.' ';;46.8' '471. / .<7' 6,4' <- ,5'O 5 7.'6.1' 7' 574 ' 6, 1.' I 5' .7' 7;.?.<>'<76 ,4 / 6'' 4<;' ?. <. 8' 6,17' >4' 1,V'4 / .8' 5' 1.E46' 7' >V' 1.<71.1 5' ?.1>' 7' 5.'71 <.8' ''6.45.'?. <.'5.J'5.' .7' 7' >'<6' 5''>..<>'<;.I' / ' 6' 5' < ''?'6' / >1 7.';.' / '5:.418' ?4 6=4 ' .67' .<;,1.''4' / M 5 .4' >.6' H1'<J' 6' .'?. 5 5.' '' ?4' O7> / .1'6'' ;,<>4 7.8' / ' 6' =4 ' =4.' ;.' 6, 7' <.' ?.<7' <;45?.1'6'' ?.E6, <;

'5:.41' U' #.4@' = ' -,4>1' .<7' 6,4 / .771.'5.';:.E' >.' 1 7'7' '4@' '77.<7'76' >.' '4>';.' ,4' >.'5'' 6;> .1'7.66.S' , 5'8' .66 .4168' ;.'=4.' -,46' -.<.O' >.';,<6';1.1' .<M ;,1.' ?'1' 4<' >.' -,6' >.;1.76

#.?.<>'<7' 4<' ?.7 7' 4, / O1.'>.' E';7 .4@8' =4.'<,46' 6, / / .6' O ;<' . , J<>6' >.' ;,<E,<>1.' '-.;' 5'' 71U6' J1'<>.' / V,1 7;'>.'<,6' E1.1. 8' 5.6' O1'-.6' .7' 6' J.6' ' ' 1 6 .<68' ,6.'?1,7.67.1' .<';.' / , / .<7' ;,<71.'5.'>>;1.5' ?'1' 7.=4.5' -,46' -.<.O' > 'EE.1 / 1' <- ,5'O 5 7.' >.6' / ,<'1=4.6' E1'< ' 6

,46' < .@' / <,<6' ?'6' =4.56' 6,<7' 5.6' ;:.E68' 5.6' <6 ' 7 J'7.416' >;;.6' 1>-, >6I' <,46' <.'1.5.-.1,<6' ?'6' 5.6' 6,?: 6 / .6' >'<J.1.4@' >,<7' 7 6' 6 .EE,1;.<7' >.' V, 5.1' 5.<16' ?1,Q.76';< / <.56' 8' <,46' <.' ;,<6 >.1,< '=4.'5'' 5, I' .55.' .67' 1.<>4.8' .7' >>6 5,16' ;.4@ U' >, -. 7' > 1.'$?4< 68' =4 8' / .;,<<' 66' '<7 5 '47,1 7.'64?1> / .'>4' ?,4 ' 1, ;,<67 74' ,78' ,6.<7' '??.5.1' >.'6.6' >.;1.76' U' >.6' '6 ' 6. / <5..6' 7<1O45.<7.6' .7' 55>J'5.6

56' U.' <,<71.1' .<7' / , <6' :'1> 68' ;.6' :, / <5.6' ?.1 ' -.16' >,<7' '<'1;: .' .67' 1>5. / .<78' 6' ?'1' 4<' 6.<7 / .<7' <'741.5' '4@' J1'<>.6' U / .6' -,46' < '- .O' ?1.6=4.'7,4 ' Q,41646>>.;5> / .<;.8' 5,16=4.'1'1 67, ;1'7 .' .7' 5.'E'<' ' 7 6 / .8' 11 7#6' >.' 5.41' ;:47.8' ?1,-,=4' .<76'<6;.66.' -,71.'6.->1 7.

' 6' 5.'7. / ?6' .67' -.<4' >.'>,<<.1' 4<' J1'<>' .@. : ' ?5.I' .7' <7.1>7' >.8 '1 68' .7' <7#1>7' >.'7,<6' 5.6' >.?'1G' 7. / .<768' E'7 J4>6' >.'7'<7' >.' / '<,.4-1.6' ;1 / <.57.6' 8' .@ J.<7' =4.'7,47.' 5'' - J4;41' >.6' 5, 6' 6, 7' >. ? ,V>.' ;,<71.'7,<6' ;.4@8' =4.56' =4 566, .<78' =4 '.<E1. <>1,<7' 5.6' 5, 6' ;,<67 747 ,4<.55.6' .7' 71,4O5.1,<7' ,1>1.'?4M O5 ;

, <' >.'<,46' 5.6' ?1,Q.76' ;,<>' / <'O5.6' >.';.77.'5 ' J<.' '<6.<6>.'>.'E';7 .4@7Q4 -,4>1' 7' 6,4 / .771.'<,71.' / / ,17.55.';,<67 747 ,<' '' 5'' ;.<641.' / 6>1'O5.'> 4K' ?.7 7' 4, / O1.'>.'O1 J'<>6' 6,4>,VE.5'A

,46' Q41,<68' .7';.6.<7 .<7' .67' ;.54 '>.'7,46' <,6';,<' ; 7,V.<68' <,46' Q<1,<6' >.' / ' <7.< 1A;,<71.'5.6' .<<. / 6' >4' >.:,16' .7' >4' >.>'<6' 5'' #,<67 747 ,<' =4.'V,46' '-.O' >,<<..U' 5'' H1'<;.

,46' Q41,<6' >.'- -1.' .7' / ,41 1' 6,46' 5.' J,4-. / . ' < .<75 O1..7 / ,<'1;: =<.'=4.' -,46' '-.O' >` 1>7>

.:.-.O8' .66 .4168' >.' E @.1' 5.6' O'6.6' >.';.'J,4 ' -.1<. / .<7I' ;,<6.1-.O' ;.77.' / / 4'O5.8' ;.77.' / ?.1M 741O'O5.'E.1 / .7>' ;,<71.' 5'=4.55.' 6,<7 -.<46' >;:,4.1' 7,46' 5.6' .EE,176' >.6' / '5-. 55'< 68' .7'<.'1.7>41<.O' >'<6' ' E,V.16' =4 '<7>6' '-, 1' >, ' '>' H7'<6E7 , , >77

WW

(

;, / ?7.@'.'6''; ,<67 747 ,<8 '?? '<' 7''? 6 .476 1.?1 6.68P

, ' ' '& ' ' ': *

''J'1>.<'7 ,7 '5.' .7 ; 7,V.<<.'E5.' ,4.<8 4E,1/ .' >.6 1',4-. / .<76 >.6 E';7 .4@@.<>' 76 ' >>714 1.5'' / ,<'1; : .'?,41 .7'05 1 641 6.6 14 <.6 5.' J,4-. / . ' / .<7 1>?405 ;' <8 V .<7G .66 .4168 -,46 ,EE1 1 6,< '??4 ' ?,41 / ' <7.< 1 4<.' E,1 / .' >.' J,4-.1<. / .<7 =4.' -,46 '-.0 ; ,<6';1 .'?'1' '>. ;1.76

,46 -,46 > ;5'1,7 6 >,<.'=4 ' ';<>6 ''#.77.'E,1 / .' >.' J,4-.1<. / .<78 <,46 <.6,4EE51 1,<6Q' / ' 6 =4G 554 ' 6,E7 ?,17>' '57. <7. ,46 Q41,<6 >.'5'' / ' <7.< 1 >.'7,47 <,71.' ?,4V, 18 .7 > . / ?5,V.1 5.6 '1 / .6 =4 ' 77,46 <<7 >7> ; ,<E7..6 ?,41 5'' 6,47.<51 '-.;'5''?546 J1'<>.' ><.1J .8 ' <6 '=4.' 5.' ?,4-, 1 >4< / ,<'1=4.'=4 '<.' >, 7 .7 <.'?.<7 1#J<.1 >#6,1/' ' =4.8 ?'1'5'' #,<67 74G 7 ,< & < '??5'4> 7 2 ?546 .416 1.?B 6.6P A $

66. / 05.' ,1>,<<.' / ?1.66 ,< .7 1 <6.17 ,< '4 ?1,.E.6 -.10'5 >.6 >.4@'>1.66.6

q E; ' ; ('N <.'>.?47'7 ,<>.']- 5.'>.' 1: '171.6 >. / '<>.' 2 >71.''> / 6.' 2 5'' 0'11.

''>.?47'7 ,< .67 <71,>4 7.

' '' ' ' '' / ' f 77 .7 5'' #,<67 74M 7 ,<8 5'' >#E.<>1.' .7 / ,41 1 ?,41 .55.8 ; .67 5''>.- 6.' 6';1..'>4 > 1.;7, 1.'>4 >#?'17, / .<7 > 41.' .7 , 1 G . .67 '466 ' 5'' >.- 6.'>.6 ; ,1?6 '> / 4 671'7 E6 =4 ' 6. ' ; ,<>.47 .7 ?' 7'J.<7 6.6 71'-'4@8

.6 J1'<>6 ?<<; ?.6;k77 ' ,47 > ; 5.66'J.6 > 6?,6 M 7 ,<6 >55 >>;1.7 =4.'-,46 -.<.0 >.'1.4>1.' .7' .<7 >'1' 7'<;.'J1'-.6 >'<6 <,6 ; ,.4165 ,46 ,6,<6 > 1.' ?546 .66 .4168 56 .7' .<7 J1'-E.'>'<6 W; ,.41 >.' 7,<6 5.6 :'0 7'<76 >.'5'' 0 .55.' ; ,<7 #.'=4.' <,46 '> / < 671,<6

,46 <.' -.<,<6 ?'68 .66 .4168 -,46 ;'1.66.1 ?'1' >.'-' <.6 '>45'7 ,<6 . J'5. / .<7 <> J<.6 >.' -,46 .7 >.'<,46 G<,46 -.<,<6 -,46 ?1,7.67.7'4 <, / '> 4< >. ' ?'17. / .<78 '<'<, / ' > 4< > 671 ;78 '4 <, / '> 4<.'- 55.' ?'66 ,<<. / .<7 ' / 6 >.'5''1.-,547 ,<8 =5 56 <.Q, .<7 >.'-.1 7'05.'5 0 .17V8 >.' 0,<:;41 <'57.1'05.'?,41 5'' <'7 ,< E1'<;' 6.'=4.'>'<6 5.6 '17 ;5.6 ; ,<67 747 ,<4.56 =4 ' ,<7 6.1-' >.'0'6.' '' -,71. >#;1;7 >4 '>.'; .' / , 6 ,46 -.<,<6 -,46 '6641.18 >'<6 5''?546 .@';7.'V.1 7>8 =4.' ;.'>.;1.78 = 'E' 7 5''>.67 <#.'>.' . / ? 1.'8 '' .7> 1; ; ' '-.;'Q, ..5 1.; ,<<' 66'<;.'?'15,46 5.6 '> / < 6 ' 71.6>4 >.?'17. / .<7I=< 58< ''E' 5 =4 'Q,45.1 ''5''; ,<' E '<;.8 '' '> / 1'7 4< =4 ' -,46 6,<7 >4.6 '' 7'47 >.' 5 71.6 ,46 -.<,<6 .<E < 1.<,4-.5.1 .< ,6 / ' <68 '' 5''E'; .'>.'5''<'7 ,<8 5.'6.1 / .<7 6,5.<4.5 >.'-.16.1 Q46 ' =4 > 5''>.1< .1.'J,477.'>.'<, 1.'6'<J 4 . .@>;47 ,< >.6 5, 6 .7 5.' / ' <7 .<>.' 5'' #,<67 747 ,<8 & < '?M ?5'4> 7P

' ' 'N .6 ; ,1?6 '> / < 671'7 E6 6,<7 .1>>6 ?'1'5'' #,<67 747 ,< ?,41 5'E'51.'' / .1 .5 .@>;4 ' 7.17 '' ; ,<E '<;.'>4 ?.4?5.'5.41 / ?,6.'5.'>.-, 1 >.' .;5' 1.1 .7 >.' 54 ' '??1.<>1.=4.5'6,4 / 66 ,< '4@ 5, 6 .67 5.'641 J'1'<7 >.'5''5 0.1 .'?W5PP = . ,46 -.M <.08 .66 .4168 '6641.1 66. / 05..'>.' -,71.' 0 . '' 1. / ?5 1 ; .'>.-, 1I . .67 : , / / 'J.'5.'?546 E5'75.41 =4.'-,46 ?4 66 .0 54 'E' 1.8 .55.' ';;.?7.''-..6'7 6E'; ' 7 ,< 66.1'05#.'-,46 ';.?1>.' 5.6 : ,<<.416 >.' 6'' 6.'<;.

66. / 05>.' '??5'4> 78 ,1>,<<.' / ?1.66 ,< .7 <6.17 ,< '4 ?1,;#6 -.10'5 >.' '>1.66.'>.6 > 1.; ' 7, 1.6 > 41.' .7 , 18 >4 > 671 ;7 >.'#:'171.6 .7 >. 5'' / 4< ; ?'5 7V >.'5' / / .'- 55.

+ #:'?.5 .1?1V6. 7.''4 <,<'>4 =, / 7.'>.' ; ,<6M 7 747 ,< 4< ?1,Q.7 >.'>.;1.7 7.<>'<7N ED 2 E' 1.'?1, ' <,<;.1'5''64??1.66 ,<>.'5''-.<'5 7V >.6 EE ;.6 >.'E. ' ;.-.416 >.; ,<6 J<'7 ,<.7 >.6 ; , / / I6' 1.6 '4@ 6' 6 .6 1V.55.6 I CD ''5' 66.1 ?1,- 6, 1. / .<7 .< E,<;7 ,<6 5.6 7 745' 1.68 Q46=4 > ; .'=4 5 .< ' 7 V7V '471. / .<7 ,11 >,<<VI D '' E.>4 1.' '' 71, 6 >.< .16 ?,41 5 -1.'5.6 >1, 76 >.6 1.; .-.416 >.6 ; ,<6 J<'7 ,<68 .7 '>,<0.'>. ' *$,' 0 >.6 ; , / / 66' - ''> ''6' 6 .6 1V.55.6 'UD

+..-,(.' .(.( ) .'((*,', ,+ / + 5 '+ ,-'5 ((/ ,>.'>.'5 =4 >'7 ,< ' 7 V7V E @V8 .<'> / .77'<7 7,47.E, 6 2 ';=4 6 7 ,< 641 >.6 >, / ' <.6 <'7 ,<'4@ 5'' / , 7 > >4 ?1 @ >.'5'' E <'<;.' 641 5.6 1.; ,<<' 66'<;.6 ?1,- ' 6, 1.6 >.'5 =4 >'7 ,<8 .7 5''7,7'5 7.' '?1 6 5''5 =4 >'7 ,< >VE < 7 -.' .7 '?41. / .<5 >.6 ; , / ?7.68

66. / 0 V.' ,1>,<<.'1 1,?1.66 ,< .7 'Q,41<. / .<7 >4 ?1,Q.7 >.'>V;1.7 8

G 41 + ?1,?,6 7 ,<'E' 7.'?'1' ' ,<<.1,<8 'f . / 05..' 1.<-, .'2 6,< ; , / 7V ; .<71'5 >.'5 =4 >'7 ,< 5.6 1V.5' / '7 ,<6 >.6 ; ,5,<6 <> .<6 =4 ' ,<7 E' 7 >.6 '-'<;.6 5 '<; .<<.; , / ?'J< .>.6 <>.68 .7 5.' ; :'1J.' >.'?1 V6.<7.1 5.6 / ,V.<6 5.6 ?546 ?1, / ?76 .7 5.6 ?546 V; ,<, / =4.6 >.'5 =4 >.1 5.6 ; , / ?7.6 >.' ; .77.' ; , / ?' ' J< .8

.6 / .4< .16 E' 7 5.;741.'>.'7,<6 5.6 '17 ;5.6 >V ' ;1.7.6 6 1 5''?,5 ; .' ; ,11.;7 ,<<.55.

66. / 05..' .< '>,?7.'5''1.>';7 ,< >VE < 7 -.

' < >.' 5.6 6.;1.7' 1.6 E' 7 5.;741.'> / .'5.7 ' 71.'>.' '10.8 / < 671.'>.6 ; ,<7 047 ,<6 ?405 =4.68 1.5'7 -. / .<7 ''1>7'7 ';74.5 >.'5''E'01 ;'7 ,<>.'5''?.M 7 7.' / ,<<' .

77 V .< '' / ' <7.<'<7 >.'E'01 =4V.'?,41 U))8)'5 -8 >'<6 5.6 : ,7.56 >.86 / ,<<' .6 >.' '1 68 ,4.<8 G / ,J.68 .7;

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W E'<6'4<'0' 5' ` @''<< .6' ,''< >.66,468'E' 7'? ' '
?405 ;'7 ,<' >''?1.6.7' >.;1.78' =''<>' 5' '41'' ?'6'>.'
;5'46.'641' 5.''>1, 7'>''<,4-.5'';=<.1.'18' ''5 71.'6<J4 .18'
>.;,<J.> .1'5.'<,'-.''E.NG/ .18'5''1.6 5 '7 ,<'>4'0' 5' '41''
5 .4'=''.'>.'J1.' 'J1.%
% 3''<>' '<V' '41''?'6' >.';5'46.'6'1';.'>1, 7'>'<6'
5.6'0'4@%>.' ?5'6' >.'6 @''<<..68' 5.' <,4-.5' ';=4.1.,18' 6'
7 1.'6 <J775 .18' ?,411''.@7J.1'5''1.6 5 '7 ,<8'6,46'5'';,<>G'
7 ,<'>.';457 -.1'54 1' .'6''?1,?1 .7.8'1'' 6' '6 J<E'<7'
5.';,<J.' '<' / ,<6'4<''<' '' '-'<;.8' ?,41'6,17 1''?'-.56'G
/ , 6' .7' ,41'=4.' ;.4@''4@=4.56'5.'<' 5' '41' 7'E < 8' .7' ;<
>.>, / <'J.'<7' '4'?1.'5'05.' .' .1/ .18' '' > 1.'> .@?. 76%
>.6''-'<7'J.6'=4R 5'<1' 7'1.7 1.' >.'6,<' .@?5, 7'7 ,<' ,''
;45741.8;0<7 <4..Q46='G''5''E<'>.'6,<'0' 5I'' '?1.6'5.'?1'@'
>.'5''E.1 <.'.7'> '?1.6'5.6''-'<;.6'.7'5.6'' / .5 ,1'7 ,<6'=< '
'41' 7'E' 7.6'' .?,=4.'>.'5''1.6 5 '7 ,<G'

+ <'>.' / .66 .416'5.6'6.;1.7' 1.6'E' 7'5.;741.'> 4<.'
5.771.'>.' % ,> .18' ; >.-'<7'1.;.-.41' J.<.1'5'' -M
J<,<% 5' '<<,<;.'=4.'5.6'?' . /#<76'=4' 6.' E4 6' .47'
?'15.'J,4-./. . 5' ''5'';<' / 01.''?,67,5 =4.'> -M
J<,<' .7' .<7' >.'>.4@';.<7' 71.<7.' / 55.'5 -1.6% '.@M
?1 / .' '' 66. / 05..'6,<' -EE 4' ?'17 ;45 .1'.7';.54'>.6'
:'0 7'<76'>.';.77.'- 55.8'?,41'5''1.4< ,<'5'5''H1'<;.8'
.7' 5'.<-, .'4<.'6, / / ',.' '5 -% >.67<.' '' .<71.7.'
< 1'.7'6,5>.1'4<' J'1>.'<'7 ,<'5' ?,41'5'' >.E.<6.' >.6'
E1,<7 .1.6'>4'1,V'4/ .% & <' '??5'4> 7' '' ?546 .416' 1.M
?1 6.68P' +' ''6.'<;.'.67'5.-..''71, 6':.41.6%

- ' ' '=C J ' ' 4Q,41> 04'C 8' '% 5'
.7' ' ! ' 3
- , '% , $+' ,Q,41>G:'7'C 8'! '(5'.7' '
D
'1 ' / .'>.' , ;:.5 .4% +' 4Q,41>5/ 'C 8'
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G
! '' #$ % ''4'0,45.-'1>'>4' . / ?5.% ' 4Q,41>% 8'
'- '$ 4' 'F A'
F 'E' 7': 67,1 =4.I' 'G! 2 ' ' I'
J' ' J'.7' 'F A A &
- ' '14.' ' <7 '17 <% +' / ,41>% C 8
' : ' 'D 2 ',<' 'F & ' '! 5'
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V' 0$(' ' HBI/ BX/WI/WX/PI/'+''PI/BG

! b B ',Y ' # ' 5 %

GG C% - 'WB A $" 'BHTB% V'< 'V ' '' '(

7

8 &' 'i %+'\ % ' [.<.18.<-,VE'?'Y' .';'0<.7>.' '<7 '<.68 "1. / 65" ;,? .'>.'6.65.7' 71.6>.';1 '<;.Q .7>, 7 '-, 185.'C9>.';.' <, 68 6" ?1.M / .1.' '4> .<;.' >.' / ?.1'51 ;.% ?1 <;.6 >.' '6M 6'4 .7 ,7. / <8 =4'>.-' .<7 7,<6>.4@ ?'17 18 ,<7 ,1>1.'> > EE.1.1' 5.41 >.?'17% < ?1.7.<>' .< ;.' / ,M / .<7 =4.' .6 '??'1.<;.6 ?,41 5" ?' "6,<7 71.6E'-,' 1'05'6%

/ ?.1'71 0.'>.' 466 .'6.' ;,<7.<7 ' 7,40,416 > ' ' 05 1'5.' .67.1 ;, / / .'5" 6.?'1'7 ,< 5" ?546 <'741.55.' .7% 5" 0,1<.'5" ?546 641.' .<51.' .6 >.4@ .7'768 Q <6 =4 .55.' "E' 7 6'-, 1 '4@ 71, 6 ; ,416 '55 ..6% B.' < '77.<>' ?546 4.'5.6 ?1,?,6 7 ,<6>.6 ; ,416 =4' 6B<701.66.<5 '4 6,17 W4'J1'<> 6. J<.418

' ' +' % .6;,1;:.68 / < 671.' ?5.< ?,7.<7 ' 1.'>.' 1'<;.'?1.6 5.'1, ' .7 5" 1.?405 =4.' >.' ,5,J<.' 8 .67 '11 -.' ;' '-'<7 0 .1 .7 " .4 ; .'<7'5 < 6" ?1. / .1.' '4> .<;.'>.' F ' 5.' ;, / 7.'>.' < 6.0.;:8 J1'<>' / '1.;0'5 >.'5" ;,<1,<<.8 " =4' 5" 1. / 6 5" 5.7' 71.' >77 1, ' .7 5" ;,? .'>.' 6.6 5.771.6 >.' ;1.'<;.8 ' '41" '4> .<;.'>.' % % ?,5,<' 6.' 54<>' ?1,;:' <U>4 ?1.6.<7 / , 6%

' / 0'66'>.41 >.'5"1.?405 =4.' "#,<67'<7 <,?5.' " 1. 4 >.6 ,1>1.6>.'<.'1 .<E' 1.8 <.'1 .< 6 J<.1 =4' ?>7 ?,17.1 5.' / , <>1.'?1.Q4> ;.''5"<,4-.55.' ;,<67 747 ,<% 5\" ,5,J<.' .7 5.'J1'<> >4;:0 >.' 704 '< .'E>1 / .<7 >.4@ > '76 > 67 <;768 / ' 6 5>6 ?'1 4< ?' ;7.'>.' ;,<E.' >>1'7 ,< I 5 >, 7>71.'?1,?,6>' >.'5.6 4< 1 .<7 .1. / .<7 ?,41 < .< E' 1.'=4 4< 6.45 .7'7%

.'>1, 7 > <> J><' 7 " >7> >,<<>' " % <J,167,<<8 .<-,V>' >.' 4.>.8 =4' " >?,<6> 4<.' H,5;E7 ' 6.\

@ ') ' ' ' ' 'C

%%%%%' 34'<7 " -,6 ?'? .16 '1 67,;1'7 =4.68 <,46 <,46 .< 1.66.<7,<6 ;' ?,41 <,71.' ;, / ?7.% .6 .<<. / 6 >.' 5" 5 0.17.'<.'5.'6,<7 56 ?'6 >.'7,47 ;< =4 '6.'E' 7 > :,<88 <>7.' .7>.'Q467.'>'<65.' / ,<>. G ' -4 '-.; 4<.'E,17.' 641?1 6.'?,417'<7>'<6 =4.5=4.6 <<.6 >.6 J'0.77.6 E1'<' J' 6.6 >.' ;.' J.01.'=4.8 1.5'7 -. / .<7 "<,6 'EE' 1.6 8 5.' / ,7 ' < >7' 7 ?'6 ?1,<,<;.% < V 71' 7.' ;.' =4.'<,46 '-,<6 E' 7 >.' 1 1 ' (! ' ' & '#.'< .67?'6 7,47% .1'5.6 E' 76 <.'64E5 7 ?'6I ,< 6 .5 ,1;.'>.';'5, / < .1'5.6 <7.<M 7 ,<6 >.' 7'< 65'6 4J467.% ' <, / '>.' - 55.6 1,V'5.6 5.41 E,<1< 7 5.' ?1>7.@7.'>.' / .771.' " 5" ?5'; '>4 ?'71 ,' 7 6 / .' -1' ' >4 1, ' 5.' ?5'7 >J, 6 / .'1,V'5 =4' ; ,417 5.' / ,<>.8 ;, / / .' 6 56 J<,1' .<7 =4.' ;.' <,<7>.' - 55.6 1,V'5.6 '??'17 .<7 "7,45.6 5.6 - 55.6 =4'>,<<.<7 5.'5.41 ,4 " 4<.'?1,-<;.' ,4 / . / .'4<'> 671 ;7% #.7 '-'<7'J.' 6 >7.<>1" 0 .<7>7 '4@ '471.6 - 55.6 =4' 6,<7 5.'>, / ' 0.' >.6 ?'15 ;45 .16 ,< =4' E,<7 ?'17 .'>.'5. 16 ?1,?1 >7.6% 'V E'47 6.45. / .<7 >4 7. / ?6% >'< / , <68 J1';.' " 5" <, -.55.' ;,<67 747 ,<8 ;W' - 55.6 V ?'17 ; ?.<7>>Q" <> ' 1.;7. / .<7%

#.6Q,41<'5 67.68 >,<7Q.'<.' / .'?5' <6 ?'68 / ' 6 =4.' V.??1>; .8 ,<7 4<.' '471.'?1.7.<7 ,< / '5 J<.' I . 67 >.' 1.;1, 1.'=4.'5.'1, ' "J1'<>. / .<76.1- '6.6 ?1>1,J'7 -.6 .5 E,17 .<1 ;: '6";'66.77.% #.77.' / >;:'<;.7.' .67< ' 6.8 .6 E<'<;.6 >.' % % 6,<7 ?546 ,0>1>.6 =< .55.6 <.' >' 7' .<7 '-'<7 5" 1.-,547 ,< N ?.16,<0.'>'<6 5" > .7.'< " > .-.'5" -, @?,41 >1.'5.' ;,<71' 1.% .'1, ' 77 " ?'6 >7 ?o / ,7 ?,41 =4.' ,<6,<J.'7 "1>?'1.1'6,< >.E ; 7% 7 ?,417'<7 -,46 '471.6 H1'<; 68 .7 6417,47 #.6 / .66 .416 '7Q.'?'15.8 -,46 6'-.0 =4 5 E'47 =4.' ,< ?1,> J4.'

S $' ' ^'< ''.

,1 >'<6 5.6 1.-,547 ,<6 N ,< "1>?'<>4 .< H1'<;. P 1E' 1.' 5.' / '5% ' .67 >- >.<7 =4.' 7'< 65'6 4J467.' " / ><'J>' :'05. / .<7 ?,41 =4.'5.'0 .< 6.'E 78 .7 5 6 .67 E' 7I .7 ?.07G>71.'5" > .7.'<.'7'1>.1' 7 .55.' ? 6 " 6 ,.' ;4?.1>.6 '-'<;.6 =4.' % % E' 7 >.?4 6 5,<J7. / ?6 " 7" E,174<.'?405 =4.% ' 6;1,V.0 =4.';.5'<.'6.'?1,?,6.1" .7<.'6.'>>;1.7.1" =4 '-.'5" / > / .'>>5 ;'7.6 .' =4' E' 5 5.';:'1 / .'>.'5" - .'>'<6 5.' ;, / / .1;.' <7 / .' .7 ?1 -> >.6:, / / .6 .<71..4@% ,405 .'>.'1.5.-.1 .<;,1.'4<.' .11.41 6 <J45 .1.' =4.' '1 67,;1'7 .' :.0>, / '>' 1.' ,4% Q,41?'5 .1.'>.'=4.5=4.6 .;1 -' <6 " ; , / / 6.' "?5'071% 34 .67 ;.'=4.';.77.'?1.7.<>4.'5.77V.'>4'1, '>.' ,5,J<.' ' 66. / 05>.'<'7 ,<'5.'Z ! 7'< 65'6 4J467.' .67 5 >'<6 4<.'?,6 7 ,< " .;1 1.'5.'?1. / .1'" 66. / 05.'<'7 ,M <'5.'Z #.17.68 ?'1 / '5.6 ?1 <;.6 >.' 41,?.8 6 5 .< .67 4< =4' 6, 7 ;'?'05.'>.' 1.;,<?' 71.' 5.6 ?1 <; ?.6>.' 66. / 05>.'<'7 ,<'5.'>.'H1'<;.8..67 5.1, '>. , ,J<.I / ' 6 5.'7. / ?6 .< A ' -.<4Z%%8 .'C)'Q4 <8 '?1.6 '-, 1 E' 7 7,47 ;.'=4'>7' 7 5.' ?546 ?1.66>' .<';,<6.=4.<;.' >.' 5"<,4-.55.'., <'7 747 ,< >4 ' / ' 8 5" > .7.' " >7.'?1,1, ' J..'Q46=4 '4 ' 6.?7. / 01.

' ?'1'57 ;,<67'<7 =4.' 5.6 ; ,416 >.' ,<>1.6 .7 >? K.15 < 6.'?1>7.<7.<E < " 4< / ,V.<7.1 / .' =4''>,4; 1" 5" 1 J4.41 >4 ' 1 ' '06,54% % H' [.<.1 " >>' >#?5,V.1 6,< ;'1';7.1.'> .<-,V.' .@71',1> <' 1.' .7 >.' / < 671.'?5 < ?,5.<7 ' 1.'>. % % 01 7'<< =4.8 +' .6 71,4?.6 ?1466 .<4.6 1'66. / 05 .6E 6415.6 E1,<7 1.6 -,<78 " ;.' =4 ,< > 78 6.' 6.? 1.1I ;.'=4'>,<<.' ..?.<>'<7 =4.5=<.' <=4 .74>.' . .67 =4 4<.' ?'17 .'>.';.';,1?6 ,#' ;4?.1" .< E,1;.'5.6 .<-4 ,,6 >.' :,1< .7 >.' '< 0 ; %

!) ' ' ' ' < .67 ?,17.' " ;1, 1.' =4.' 5.6 >.? .0.6 >.' ' ;,411 .16 '11 -.6 ;' / .1;1.>'>.' 67,-.8 >.' K.15 < .7 >.' 5'< '6641.<7 4<'< / . / .<7 5'?' @% ? " >.Q'8 > 7 ,<8 .@?.> '5.6 ?5. <6 ?,4-, 16 '4@ / ' < 671.6 1.6?.;7 E6 " 67,-.8 ?,41 c" 6 J<.1% 4 < '77.<' >1' 7 ?5468 6.5,< ;.77.'<,4-.55.8 =4.'5" 1 ?,<6.'>4 / ' < 67.1.' 01 7'<< =4.' ?,41 / .771.' 5" >.1< .1.' / ' < " 4<.'1.;,<; 5 '7 ,< J.<.1'7.% .6 >.1< .1.6 5.771.6 >? #,<67'<7 <,?5.'?,17.<7 =4.>.' ?.4?5.' .< E41.41 " .7>' Q46=4 '05,=4.1 5.'6457'<'>'<6 5" / ,6=4 .'8%?,41 ,G 05 J.1 " E' 1.'5"?' @I =4 5 " .7 ' E,1; '> . / ?5,V.1 5.6 ?546 :4 / 05.6 .@?.> .<76 ?,41 6.' 7 1.1 > .<71.' 6.6 / ' <6%$

.'J < 1'5 a4740,E 8 <6714 7 =4.'5.6 41;6 '-' .<7 ?'66 '5.' '<40.'6,46 5.6 ,1>1.6 > < 6 1'6 .18 .7 =4 56 7' .<7 ;'/? 6 ?1.6 >.'K'0'>'J8 5.41 5 -1" 0'7' 5 .' .7 5.6 > E 7% 8 ' / 1.<7 74.6 8 .7 >'<6 5.'?.7 7 <, / 01.'>.' ?1 6,<< .16 7 V '-' 5 4<'?';:'">.' > 67 <;7 ,<% .045 / ' 747 ;,<6 >.1'05.%)'? .;,6 >.';'<,<8 5.6 / 4< 7 ,<68 5.6 ?1,- 6 ,<6 ?,41 '1 / ' .7 4<.?1 ;7 J .46.=4'<7 7 '>.' E'1 ?.8 >,<7 4<.'?'17 .' 7'7 6'<6 >,47.'>.67 < .' ?,41 5" J'1'< 6,< >.'K1' 5, [8 1.67.1.<7'4'?,4-, 1 >4 -' <' =4.<1% < ';:46.'5.'J1'<>' - 6 1 > '-, I E' 7 '-'<;.1 %71,? ?1 ; ? 7' / / .<7 ;' ;,1?6 > '1 / ..8 6'<6 71. " ?,1 ' 7 '>.' 5.' 6.;,41 1I ;.' =4' ?,411" .@?,6.1'6" 7 7.% .' ;, / 7.'> 67.1:' V .7 >%5.'0'1,<>.'B.10.17 ,<7,1>1.8 ;.' =< ,< ?1 7.<>8 >.<.'?'6 6 5, J<.1>.' K4; :'1.67% .6 ,EE ; .16 =4' 6,<7 " .<<.' .75.61 J <.,76 >.'5" B'47. B,<J1 .'- .<<.<7 >.'1.;.-, 1 4< ;,<71. ,1>1.' ?,41 5" / '1;:.%

!

' +' << -.16' 1.'>.'5" 1 -,547E,< >.'H1'<;.8' ;.5.01.' " 7'-.1<.'>.' #1, [<'<>' <;:,18 >'<6 5.' 71'<>%

#.77.' '4J467.'5.7.8A';'5, / < .'> '-'<;.' 5 6 .<<.' / 6 >.'5" 5 0.17 8 =4' ?1 7.<>' .<7 =4.'>.6 E'; .4@ 5'

[illegible]

[illegible]

?1 <; ?.6=4.'-, [6'-.0'1.;,<<46.7;,<6';1 %& 6'
6./05>.''??5'<> 7'"?546 .416'7.?1 6.6%P
%5.'?1.6 >.<7 1.?,<>'"5">.?47'7 ,<.7 <- 5.'"
666 67.1'"5"67'<;.% $
' & '3 '8 >.?47.'>.'K,45,J<.8 '4'<, /'>4';,M
/ 7V >.6 >, / ' <.6N " E,1 7 >.'K.'4E,17 .67 6 74 .'
>'<6 5.'>.?'17. / .157 >.' '<. . ,1.% < 9()'6"
;,<7.<'<;.'E47 >>7.1 / <..'" 8 '1?.<76% '1''11 7
<' ;,<6. 5' 'W' ,E57 ((8 1.<>4' " <64'>4'J1'<>G
/ ' 71.'>.6 .'4@ .7E,1>768 .7;.<71.' "- 6'>.' % ,1.'<
5.' K.'4 / ,<78 5.' 6,5 >.' ;.77.'E,1 7 E47 ;,<; > ' "
% K'1'<> .1 .664 5.8 " 7 71.'%> <E>,>'7 ,<8 " 5"
6:'1J.'>.'?'V.1'4<.'1.>.-'<;.' '<<4.55.'>.'C '5 -%
'6,46'?'1''1?.<78>.4@'<6'?1.6 6,<.<71.'.<Q,4 6G
'<,.% .'<1 .''1197 1>,<<"5"-.<7.'>.'5"64?.1'
;.'>.';.77.'E,1>78 ?,41'.71.' .@?5, V.'>'<6 .6?';.'
5.' 6 @ '<6% .' / > / .''11 7 .@ J."8 ?,41' 6-51.7.'>4'
6.1- ;.'.@';7>.'5"1.>.-'<;.'8 .7;,<E,1 / > / .<7 '4@
\EE1.6 >.' % .664 5.8 =4 5'>.?,6 7 '<'71.6,1'1,V'58
5'<65 .6?';.>.'5,'<68 4<.'%6, / / .>.' 9 8 ' %8>,<7
54' .5 6.6 1.?1 6.<7'<76 1.7 .<>1' .<7 <7.1>7 6415.'
/ ,<7'<7'<<4.5>.'5'1.<7.I'.7<4 '4;'6>.> 4.1? 66.'
/ .<7,4'>.'1;<71>.>.'6" / 'Q.67..<?,66.66 ,<>4'7.11' <
'5 .<>8E'47.'>.?' .7<.<7>.5"1.>.-'<;.'5'>7;'6, / < .'
>.' 8 '5 % 6.1' 7 11.-,.6 05. / .<7 ';= 6.' '4'
71.6,1'1,V'5'6'<6 .6?, 1'>.'1;65 547 ,<% 5'E47 ?.1 / 6''
% .664 5.'> '5 .<.1'?'1'-.<7.8 '6;.<6. / .<7 ,4' <'
1>,>'7 ,<8 7.55.6'?'17 .6 >4' 7.11' <'=4 5'Q4J.1' 5' "
?1,?,68 .7 >.'6.'1.6.1-.1'5" > 1.;7.' 641' 5.6 ?,17 ,<6
=4 5'5 <.1' 7% 34, =4...7'11 7< ' 7> .'1.<>4'=4.'
5.'*' ,>7 ((8 5.6 ,EE1.6>.' % .664 5.' '-' .<7 >79
J1...6>665.' ' .?7. / 01.' ((I' .7;, / / .'>'<6 <'
N.1-'55.8 5"E,1>7>.'K.'4E,17'-' 5'>7.';, / ?1 6.',< ''
<'<'J.'>.' ,<6 .418 .664 5.'6,55 ; 7'' .7 ,07 <7>.'
,<6 .41'5" ;,<E 1 / '7 ,<'>.6";,<;.66 ,<8 5.'C)' '<M
- .1' ((% '1'477 '471.''11>7 >4'*'-1 5 ()U8 % .6'
%64 5.'" .7>''47,1 6.''1.7 1.1'5"6, / / .'>.' 8 '5 -%
;,<6 J<..''4'71>6,1'1,V'5I'5.'?1.7.@7.'>.';.77.'1.67 M
747 ,<' " .7.'=4.'5.'6,5 >.'5" 5,1.7 >.'K.'4E,17'-' 5'
';=4 6'?'1'5" ;45741.'4<.'-' .4 '0 .<'64?.1 .41.'"5"
1.>.-'<;.'>,<7 5'>7' 7;:'1J.%
,41' .7'05 1'=4.' <E.,>'7 ,<'>4'6,5>.'5"E,1 7>.'
K.'4E,17>, 7>71.' '<<45>.8 5'64E 1">.'1'??.5.1' 5.6
5, 6'=4'.@ 67' .<7 .7;.55.6'=4.'-,46'-.0'1.<>4.6%
,71.'>>.1.7 >4' [illegible] <,-. / 01.'>.1< .1'";,<6';1.'5"
/ '@ < .'=4.'5.6>, / ' <.6'<'7 ,<'4@'6,<7 <'5 ><'05.68
'6'<6 5.';,<6.<7. / .<7 .7 5.';,<;,416 >.' 5" <'7 ,<I

?.4-.<7 ;, -1 1' 11>J45'1 7>'
E' 7.6'6'<65.';,<6.<7. / .<7>.'5"<'7 ,<I'=4.'5.6'-.<7.6
.7'5 .<'7 ,<6>.6 >, / ' <.6'<'7 ,<'4@'?,67>1 .41.6 "
,1>,<<> ;.'>.' ,45 <6>.' 99' 6,<7 1>?47>.6 6 / M
?5.6 .<J'J. / .<76 .7 ?.1?>74.55. / .<7 1';:.7>05.68
=<, =4.'5"67 ?45'7 ,<.<' 7>7>, / 6.''<;.<71'58 ,4'
/ / .'=4 5' ;,?7 .<<.' 4<.'> 6?,6 7 ,< ;,<71' 1.% #.'
>>;1.7 < '?'6' <71,>4 7 <<'>1, 7<, 5-.'48 .<'>.;5'M
1'<7 1>-,,'05.6 5.6 '5 ><'7 ,<6 >.6 >, / ' <.6YE' 7.6
>.?4 6 99% 5' < "E' 7 .< ;.5" =4.'1'??.5.1' .@>;4'
5 ,<'>.' ,1>,<<'<;.'>.' ,45 <6 =4 %'-' 5'.55. 1,5 / .'
1' 6. / 0 >8>'<6'4<'1>J5. / .<7 J><>1'58';.'=4.'5.6'<'
; .<<.6 ,1>,<<'<;.6 >4'1,V'4 / .''-' .<7 67'74.'?,41'
5" ;,<6.1-'7 ,<'>.6 0 .<6 >3 / '< '4@% '17% Dd >.'
,1>,<<'<;.'>.' ,45 <6 <.' ?.1 / .77' 7 > '5 ><.1'5.'
>, / ' <.'=4.'?,41''?'<'J.',4'?'1'<>;.66 7>'>.'J4.11.%
.6 <E>,>'7 ,<68 6, 5'"7. / ?68 6, 5'"?.5?.74 7>8 ,47
.5>';, / ?1 6.6'?'1' '17% " ' '4' <, / 01.'>.6 '5 ><'M
7 ,<6 ?1,: 0>.6% ' 55.<16'5.6 '17 ;5.6 ' .7 ' >.'5"
/ > / .' ,1>,<<'<;.'.@ J.' .<7 / ?>1 .,6. / .<78 ?,41'
5" -'5 > 7.'>.6 ;,<;.6',<68 =4 .55.6 E4 6.<7 1.-.74.6
>.' 5.771.6 ?'7.<7.6 4>1.66>.6 '4' ?'15. / .<7 .7 "5"
;:' / 01.'>.6 ;, / ?7.68 .5'=4.'5.6 E' 56 =4''-' . 7>>'
7>1 / <>5 '5 .<'7 ,<'E466.<7 >> / ><7->1 E >6% #.6E,1'
/ '5 7>68 6'J. / .<7 ?1.6;1 7.6 ?,41'?1>-.< 1' 5.6 641M

?1 6.68 >7' ;E;7 7.<. / .<7 >.'1 J4.<1'=4 '4@ 7.1 / .6
>.' '17% '>.' ,1>,<<'<;.'>.' 998 .41' , / 66 ,<
E' 6' 7 1>?47.1'P.';,<;.66 ,4<'1.'>.'< '4 4 6.E, 8 .7
,055J.' 78 <,<6.45. / .<7 "1.<>1.'5.' E,<>68 <'6
/ / .'" .<'1.67 74.1'5.6 E14 76% <5 <8;, / / .'5.6 0, 6
>.':'47.'E47' .',<7 7,4Q,416'>7>' / 6'4'1'<J'>.6 ?1,'
?1 >7>6 5.6 ?546 ?1>; .46.6 " 7'78 ,1>,<<'<;.'>.'
,45 <6 >>E.<>' 7 .@?1.66> / .<7 >.' 5.6 >,<<.1' ,5
'0'771.6'<6'5.771.6 ?'7.<7.6 ->1 E >.68 " / , <6> 4<.'
> 6?.<6.' .@?1.66.'E,<>5.'641' .@715 / .' / ,> ; 7>8 >.'
,0Q.7%
,1>,< '<;.'>.' 99*" 1. 7>1>'5" ?1,: 0 7 ,<'>;'
E' 1.''4;4<.''5 > '7 ,<'>'<6 5.6 E,1576 >48>, / ' <.8
" ?. <.8;,<71.' 5.6 ,E5 ; .168>.' ?1 -'7 ,< >.' 5.416
;:'1J.6 .7>.' 8 '5 -%> ' / .<>.';,<71.'5.6';=4>'
1.4168 ,471.'5" ;,<E 6;'7 ,<'>.'5.416 ?5'<7'7 ,<68 1>'
;,57.6 .7;,<6714;7 ,<6% <6'5,16=4.' % .664 5.'6 .67
E' 7';;,1>.1'5.'6, >.'5"E,1 7>.'K.'4E,178 5'<.'?,4'$
-' 5' J<,1.1'=7 .';.77.';,<;.66 ,<'6.1' 7 7,4Q,416 1>'
-,;'05.8 =< ;55.' >5' 7 / / .' 1'> ;'5. / .<7 <455.8
E'47.'>.'5.771.6 ?'7.<7.6 >E 1'.<7 ->1 E ..6% .6'55.J'M
7 ,<6 =4' <7 6.1-'>.'0'6.'" '5 .<'7 ,<'>.'5" E,155'
>.'K.'4E,17 <.'6'41' .<7 5"Q 65 5 .1% 55.'1.<E.1 / .8
'4'641?5468 4<.' > 6 ,< .- >.<5.8';'18 =4, =4.'5"1.M
>.-'<;.'>.'C '5 -% U'6,46'?'1''1?.<78 ?'1' 66.';,<6 M
>.1'05.'8 ,<'>, 7;1, 1.'=4.'5.'6,5>.'5" E41.7 -'5' 7
1..55. / .<7 U*'5 -% '1?.<7 ?4 6&2 .' . .67 5.'?1 @'=4.'
5.6 ;.<6 7' 1.6 6.' 6,<7 ,05 J>6 >.' ?'V.18 .<'1.67'<7
/ / .';:'1J.6>.6 E1' 6>.'>.E1 ;: . / .<7% % .664 5.'
1.?1>6.<7.'=4 '?1.6 71.<5. >;4@'<6>.' 6.1- ;.6 / '
5 7' 1.68 E,17 / '5'1.;, / ?.<6.68 5'">7>' ; <?5=E>?'1'
5.' J3 V.1<. / .<7 " ?546 .416 ;, / / 66 ,<6 / ?,7'
7'<7.68 ,4' 5" / ,<71.''47'<7>.'>.6 <7. 1.66. / .<7=4.'
>.'0.5.% B 1>?.7.'" ;.'64Q.7 ?546 >.') 8 '5 -%8 .7'
?1.7.<>'=4 5'54 '1.- .<7 .<;,1.'4<.'6, / / .'71.6';,<M
6 >.1'05.'?,41' ;,< ?5> / .<7'> <>. << 7.' 1.6457'<7.'
>.'5"1>6 5 '7 ,<'> 4<'71' 7.'1.5'7 E'4@ E,1J.6 .7 >,M
/ ' <.6>.'#: 5.'41,4@% % .664 5.',06.1-.'=4.'5"
;,<;.66 ,<'>4'6,5>.'5"E,1 7>.'K.'4E,17 .7'<7 5.'6.45
?1@ =4 5' 7 1.7 1.'>.'6.6'<,< 01.4@'6.1- ;.68 ,<'<.'
?.47 .<'>>? 4 55.1'6'<6 54''55,4.1'5.6 1.?>5 7 =<6 .7
<>. / <7>6 >,<7 .55.'%54' 7 .<7 5 .4% ,71.' ;, / 7.'6.
*'1>.1" 0 .<'>'E5' 05 1'5.6 6.<7 / .<76 > :4 / '< 7..7
.'0 .<E' 6'<;.'=4.' 4E,174<.'>.' 8 .664 5.'?.47
.@; 7.1'.<'-,46% .'>>6 1.8 '4';,<71' 1.8 =4.' % .6M
64 5.'6, 5'>'<65.';'6'>.'Q467 E .1>.'5" >J 7 / 7.'>.'6.6
1>?>5 7 ,<6 '4' ,, / 7>' >.' 5 =4 >'7 ,<8 'E < >.' -,46
/ .771.' .<' > '5' > V E' 1.'>1, 7% ' ;,<- .<>1" / / .'
=4.' '5 ><'7 ,< ' 7.'" % .664 5.'< .67 ?'6 ";,<'
E,<>1.''-.;'7'<7> '471.68 ,07.<4.6 6,46>.6;,<> 7 ,<6
>>1 6, 1.6 ?'1'>.6 J.<6 6'<6 ?4>.41I' / ' 6 5.67>4'
>.-, 1'1 J,41.4@'>.'-,71.';,1, 7>'>.6>, / ' <.6> ,0'
Q6.1-.1'=4.'5"?54?'17 >.6 1>;5' / '7 ,<6 >.' F' .6M
64 5.'6,<7 ?,67>1 .41.6 ' <E>,>'7 ,<'>4'*'?E 7 ((I'
=4.' ;.77.' <E>,>'7 ,< < "?'6 >7>'E' 7.'" 7 71.'>.'1>'
;, / ?.?6.I'=4 .55.'<.';,<7 .<7 / / .''4;4<.' / .<7 ,<
>.6 6.1- ;.6>.' % .664 5.8=4 '<6';.'6.1' 7 ">>'
<'741.1'=4.'>.'54''771 04.1'4<';'1'.7>1.'=4 .55.'<'
?'6%
.'-..4'>.6 ;,1?6 '> / < 671'7 E6 .67 .<7>1.<. 7
;.<E,1 / .'" '-6'>.' -,71.';, / 7>'641'5" <455 7>'>.'
<E. ,>'7 ,<%8 .'64 6';:'1J>'>.'-,46 ?1,?,6.1'5.>> 8
;1.764 -'<7N
W 66. / 05>.<'7 ,<'5.8 ,4'5.'1'??,17>.'6,<;,M
/ 7>'>.6 >, / ' <.68;,<6 >>1'<7=4.' <E>,>'7 ,<'>4
6,5>.'5"E,1 7>.'K.'4E,178 E' 7.'" %K'1'<> .1G .6'
64 5.'?'1' '11 7>4';,<6. 5'>4'*' ,E 7 ((8<,<6.''
5. / .<7 < "?' '>7>'1.-574.'>.6 E,1 / .6 >J'5.68 / '6
/ / .'>7' 7 ?1,: 0>.' ?'1' 5.6 5, 6I' =4.'> '5 .,1'
;.77.' '5 .<'7 ,< < 'V'<7 > '471.' .5E.7 =<;';.54'>'<
6 / ?5.' .<J'J. / .<7 .67 7,4Q,416 1.-, ;'05.'>W 6"<"
541.''.<'=4. =4.6 / ' <6 =4.' #6 ,0Q.76'5 ><>6'.<7
?'66>8> 1>7.;.'=4'64 7N
W 17% DD 66. / 05>.'<'7 ,<'5.'>.;5'1.'<455.' <

E.,''4,<4<Y,>.5''7,1.7'4,;'4 ,178E'7.2 %K'
1'<> .1 .664 5.8?'1'11 7>4;,<6.5>4*',K7 ((8
$ 1% .6-.<7.6E'7.6?'1 % .664 5.8'' %K,1.'Q
>.5''K.1<'1> .1. !4 ;:'1>8 5.6 ('Q'<- .1 () 8
9E>-1Q.1 ()98 '<6 =4.7,47.6 '471.6 -.<5.6=4 5
'41' 7?4E'1.>.61.>.-'<;.6 .7>1, 76>.>1.;7641
5.6 ?O15 ,<6>.7.11.6>. ?.<>'<7.6>.5'>7.E,1 7>.
K.'4E,178 6.<7 1 -,=4..6 .7 1.J'1>..6;,/ /.<,<
'-.<4.6%

$ % /O5>.<'5 ,<'5./ ' <5 .<7>'<65.41?1,
?1 .7. 5.6 >-.16 ?'17 ;45 .16 '' =4 % .664 5. ''
',<<.'';.<6?'17 .>46,5>.5'>7.E,1>7>.K.'4E,178
''5'';O'1J.?'1 .4@>.?'-.1'471>6,1?4O5 ;8 .<71.
5.6 /'<6 >4 ?1.?>6>>. '>/ < 671'7 ,<8 5'' 1.>.
1'<..E @>.?'1 '11>5> ;,<6. 5>4 W ',>7 ((8
'<6 =4.5.61.<7.6E,<; .1.6=4. % .664 5.6 .7'7
1. 6.1-..68 .<646>.5'>7.1.>.-'<;.8?'1;:'=4.'1
?.<7>4> 77.11' <I;, / /.'466>.?'V.1'4@>, /'<.
5.6 5,>68 -.<7.6.7 '471.6 >1, 76 ;'6 5.568 5.6 ;'6
>;:.'<768Q46=4 '' ;.=4 56' .<7E'7 5.1';:'7>.6
>7.61.>.-'<;.6 .7>1, 76 ;'64.568 .<5''E,1/. .7'4@
7'4@1>J5.6?'15.6?1>;>>.<76>>;1.76%

$ 5L% % !4 ;:'1>.67?'1. 55. / .<7 '47,@ 6.'';,<
6.1-.1 5''?1,?1 >7O>.6 '1?.<76 >4 / /.7.11' <8
=4 5 '' ';=4 6>. % .664 5.8 .<6.6,4 / .77'<7 ''5.6
7.< 1 > 1.;7. / .<7 >4 >, /'<. 8 .7 2 ?'V.1 5''1.>.M
-'<;.>. U5 -8 96,46?'1 '1?.<78 ,471.;.55.> 4?
6.7 .1 >. O5> ;,<E,1/. / .<7 '' ;.=4 '' .7> 1>J5.
?'1 '17 ;5.?1.;.>.<7?,41 5.6 '471.6 >>7.<7.416I ;.
4 5 6.1''7.<4>.>.;5'1.1>'<6 5.>>5'>.71, 6 /, 68
'' ;, /?7.1>.5'' ?4O5 ;'7 ,< >4 ?1.6. @7>>;1.78?'66>
5.=4.5 7. / ?6 5 >.< .41.1'' >. ;O4 >.7,47 >1, 7>.
?1,?1 .7V8 .7 5.6> 76 =4 <O. '1?.<76 >. 7.11.6.1,<7
-.<>46 '4 ?1,E 7>.5'' <'7 ,<>.5'' /', 1.?1.6;1 7;
?,41 5.6 '471.6 O .<6<'7 ,<'4@% Y
#.?1,Q.7>.>. ;-.7 .67 '>,?7.%
'6>'<;..67 5.-..'' > @E .4-.68

/ C 8

% B.417'4 ' / .1- 55.1.?1.<>5'' 64 7.>4 ?1,Q.7
>.>.;1.7>.6 ., / 7.6>.;, / /. ;..7> 'J1 ;45741.8
641 5.6 5,76141'5.6%

B N <<,46.<71.7 .<7 ;> 4<>;;1.71.
J5. / .<7' 1.8 =4 >.-1' 7>71.1.<-,V. '' 5'' ?1. / .1.
5.J 65'741.% ,46'-,<6?546 .416,OQ.76>.5''>.1< .1.
% /?,17' ;.8>,<7 5 .67 <67'<7>.6 ,;;4?.18.'1.<E<
5 7'47 E < 1%

% % K4O, N '??4 . ,O6.1-'7 ,< >. % K '4O'7%
66. / O5..<.>, 7 6 ,;;4?.1=4.>.6 5, 6 ;,<67 74
7 ,<<.55.68 .7 5''?,5 ;.>.6;:' / ?6>, 7>71.1.<-,V..
''5''5.J 65'741.% .?4 6 5,<J7; / ?6 5.;, / 7. / 5 7' 1.
;'7;:'1J.>.<,46?1.6.<7.1 4<>.;1.7641 . / ?5, >.
7'' E,1;.8 / 5 7' 1.% .6 ., / 7.6>.;,<67 747 ,< .7>.
1.- 6 ,<6,,7'466;:'1J.6> 47 71'-' 5=4.<,46,77.<
$>,<6 '-.,4<.J1'<>. / ?'7 .<;.% .6. 1;.<67'<;.6
-,46,<7>.7.1/ <.6 6 6 <>1. ',7 - 7.>.6'66. /
O ...6. ..7,1'5.68 5.6; 1;,<67'<;.6>, -.<7 -,<6.
J'J.1 2 5'' 5.41 1.<>1.%
% " M N ,O6.1-.=4.5.6., / 7.6>.;,<67 M
747 ,< .7 >.1.- 6 ,< 6 '66. / O5.<7 7,<6 5.6Q,4168 .7
=4. % K4O,7 .67 5.6.4 =4 <.6 V71,<-.?'6% G
% B 4' N .-' 6?'66.1 9 5''
6.;7 ,< =4 .,<;. / . . ;,>. ?><'5141'5% #.77. / ?
7 .1. .67>.5'' ?546 :'47. / ?,17'<;.%
& ,46>,<<.1,<6>. / ' < 5.6 '17 ;5.G>..1>7.6%P
$+ < >. % 5.6 6.;1.7' 1.6 E' 7 5.;741.>.>.4@
EE5>1.66.6I 5'' ?1. / O1.8 >4>.?'17. / .<7>. .<. .7
'1<.I 5.6..,<>.8 >4.,<6. J.<.1'5>.5'';, / / 4<.
> / .<6%

, / !!)* AF

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*$',.+,(,,.'/< * +44 + -$, ?

& % ; -*797

, & , , A

,46 '-.O 4 '(> 4<. / ' <6'J. .7 :'1> .8 .7;,4
1,<<. .> 5 ;.>. ,71.<,4 .55.;,467 7471,4% <>-.<.
1' .<7 '466 <= 1.-4=4 <,458 =4 6. / O5' 7 5. / .<';.1
> 4<O,45.-.16. / .<7.<7 .18- .<7> .<E' 1.1.;,4<'571.
<.O1'<5'O5.6,5 > 7.I -,71.E.1 / .7. / ?,6'<7. ''1'J
641.7,45.5'' H1'<;.8-,71.6'J.66. '' / '7<7.<4 ,1>1.
.7 5'' ?' @>'<6 7,47.6 5.6?'17 .6 >. . / ? 1.% ,46
-.<.O>.-,46 / ,<71.1'466 J'J.68 '466 E.1 / .68 5,16
=4. 6'<6 ,46 5' 66.1 .7,<<.1 ?'1 5. >.O,1>. / .<7
>.6 >>.61.?4O5 ;' <.68 >.6E,5/ 'J 7'7 ,<68 >.6E4
1.416?,?45' 1.68 -,46 '-.O / ' <7.44;.6?, <76 E,<
>' / .<7'4@>.5'' <,<'1;: .6 6,5.<<.55. / .<7>.;5'1.6
5.7 6.?7. / O1. ()*% ,46 5.6O,<6; 7,V.<6 6'< .@;.?
7 ,< > ,? < ,< -,46 O>4 66.<78 -,46 '>1' E.<7 .7-,46
1.<>.<7>.6 ';7 ,<6>.J1';.6% .;.-.O'4<, />.<,71.
;, / / 4<.;.6 <;.1.75 / , J<'J.>.<,71.- -.1.;,<M
<' 66'<;.8 .7 5''<,4-.55.'6641'<;.>.>. / .4 .1 5Q'M
/ ' 6 <- ,5'O5. / .<7 '77';:.6 '' 5'' #,<67 747 ,<8 .7>.
5'' / ' <7.< 1>.7,47<,71.?,4-, 1% & 4 '??5'4> 7%P
C & 5 5 ' / . .+ .7?%

66. / O5..,1>,<<.1 / ?1.66 ,4 .7 <6.177,4 '4
?1,..6 -.1O'7>.;.6>.4@ '>1.66.6%
. , N .> 1.;7, 1.>4>.?'17. / .<7>. '1 6 ''
/ 6 5'' ?546 J1'<>. ';7 - 7.?,41 .@.; 7 ,<>.-,71.
>.;1.71.5,7 E'' 1.;:'<J.>.6'66 J<'76>. 5 -% ?1.6
>. / ' < ,< ?,411'' .;:'<J.1 '66 J<'76;,<71.@5.5''
?.7 7. / ,<<' .%
,46 '-.O?'1 4<>.-,6>.
.1.76 4;;,1>.'' % ". $(5.?1 - 5.J.>.E' 1. ,4-1 14<
;'<'5% 5 '' ?1 6 >.6 .<J'J. / .<76 '-.;5'' <'7 ,<8 .7 5
<.5.6'' ?'6 7.<46% 5 '-' 7 ?1, / 6 >4 71'-' 5 '<@ ,4
-1 .168 .7 5 5. '' ''71, / ?.6% .>. / '<>.=4.5.6., / 7.6
>` [.<> ; 7. .7>.6>, / , <.6 6, .<7;:'1J.6> ." ' /
<.16 ;. ;'<'5 .67 47 5.86 5 .67?,66 O5. .7 6 , 5>, 7
.<71.?1.<>1.%
N .>. / '<>.5''?'1,5.8 ',<?'6?, [
/ ,??,6.- '4 1.<-, 8 / ' 6 ?,41 ?1.<>1.5'' >>E.<6.
> 4<; 7,-.< :,4<>7.=4 - .45 > >71. ';;46.I 5 K''
?'6Q,4.1 66. / O5>.8 $,< '' ?'6 71, / 7 51] ,4-1 .16I
5 '' / 6 6,< ?1,Q.7 2 .@.;47 ,<'47'47=4 5>7' 7.<6,<
?,4-, 1% ;1,V' 7'-, 1>.6E,<>68 .7 5 < '' ?4 6.5.6
<1,;41.1% ,< ?1,Q.7>7' 7>.E' 1. .,<6714 1.6415.6
<,1>6 >4;'<,7 -('' / 'J'6 <6 =4 '41' .<G]

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+* #(',(./ ('F *$ (,/-+*" **('-(3+.+,$ *'4+.,$3 $(.(/
5*+' A&' $$ (*,(*-+$" 4+.,+93.'+ 3$ '4.$*3$4('3 *,.+$.(' (' +'
*',$,-,$ *' -(3.(,-(' 4+.' -''( ) ((' *+,$ *+ (' $*'$' +'
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7(,'8 ' ' &
- '$ # $+/ .(' ,(' $36($(*' V * +*.-6 $'WB/
G ; *' '0@ , & 5'(,'G
- ; ; ' ' ' '1 8' +' <Q,<1>:<''78' ;'G'
' ,? 16' 7'5 .<%
- ' ' * $' , ' '8''<' + +$'! 8+ '
V' (8 *.-6*' 'WB/ ' G 5' ' G ' ' ' ' #

(' ' ' (' ' ' V * WB/
M@ & ' ' '9 ' 5' '8 ' #
5'(,' ': R@ ' '-
$$"$33! $ /+*') (0+.-'-*' (4 (' V' * *.-'WB/
'- ' ' $ ' *' F ' ' ' A'
F '#+$,'6$', .$5*(7' #5' $ '1 ' ' 5' (,' '
F ' ' G '),
* ' ' $R / (' +$*,! +.,$*' V' * *.-6*$'WB/
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! b ʿ ʿW4ʿ ʿ ʿ55 55%

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ʿ 2 ʿ'ʿ +ʿ ,46ʿ5.6ʿE,176ʿ.7ʿ5.6ʿO'7M 7.1 .68ʿ=4ʿ'-' .<7ʿ.7.ʿ.5.-E.ʿ?.<>'<7ʿ5" J4.11.ʿ6 1ʿ5.6ʿ E1,<5 .1.6-.16ʿ5' 466 .8ʿ- .<<.<7ʿ> .71.ʿ>. / ,7 6%

ʿ8 &ʿ ʿ9 ʿ^ʿ < ;1 7ʿ=4#ʿ 5.6ʿ 'EE' 1.6ʿ ?1.<<.<7ʿ 4<.ʿ0,<<.ʿ7,41<<1.ʿ?,41ʿ5"?' @% .6ʿ / ʿ < 671.6ʿ> <J5.7.11.ʿ.7ʿ>.ʿ 1466.ʿ8ʿ>.ʿ 4.>.ʿ.7ʿ>.ʿ 'ʿ <. / '1; ʿ6,<7ʿ6,4-.<7ʿ.<ʿ;,<E.1.<;.ʿ'-.;ʿ<,71.ʿ / < 6ʿ 71.% <ʿ1. / '1=4.ʿ=4.ʿ5.6ʿ?1.?'1'7 E6ʿ / 5 5' 1.6ʿ6.ʿE,<7ʿ '-.;ʿ / , <6ʿ> '1>.41% +ʿ .ʿ?1<;.ʿ ,7. / <ʿ.7ʿ5.ʿJ.M <.1'5ʿ>.ʿ ,4-'1' [ʿ7 .ʿ6,<7ʿ?'6ʿ?'17 6ʿ<,<ʿ?546ʿ?,41ʿ '1 / .8ʿ.7ʿ 56ʿ6.ʿ71,4-.<7ʿ.<;,1.ʿ;%

ʿ ʿ ʿH ʿ+ʿ <ʿ7,41<,ʿ ,4ʿ,<7ʿQ,45.ʿ >,40.ʿ;:.-'5 .168ʿ'<ʿ<, / 01.ʿ>.6=4.56ʿ6 .67ʿ71,4-.5 '1% ;: >4;ʿH1'<=, 68ʿ"?1,;41.ʿ> / '<;:.ʿ>.1< .18ʿ" 'ʿ @. / 0,41J8ʿ4<ʿ6?.;7';5.ʿ<,4-.'4ʿ.7ʿ'J1.'O5.ʿ'4@ʿ6?.;ʿ 5'7.416ʿ>.ʿ7,46ʿ5.6ʿ1'<J6ʿ=4ʿ6 V.7' .<71.<>46ʿ.<ʿE,45.Iʿ 5.6, 1ʿ5ʿVʿ.47ʿJ1'<>.ʿ 554 / <'7 ,<ʿ>'<65.ʿQ'1> <8.7ʿ ,<ʿ 5 1"ʿ4<ʿ / 'J< E5=4.ʿE.4ʿ> '17 E ;.%

.6ʿ1.J / .<76ʿ=4ʿ 6.ʿ6,<7ʿ1.<>46ʿ>'<6ʿ5" '5';:.ʿ Vʿ,;;4?.<7ʿ';74.55. / .<7ʿ5.6ʿ?1<; ?'4@ʿ>.E5.6% .ʿ;,1?6ʿ >4ʿK'<<'78ʿE,17ʿ>.ʿ 9ʿ / 55.ʿ:, / / .68ʿ.67ʿ"5" E1,<7ʿ.1.ʿ .@71. / .ʿIʿ 5ʿ>.-' 7ʿ.71.ʿ'4J / .<7ʿ>.ʿ C ʿ0'7' 55,<6ʿ=4ʿ .7' .<7ʿ.<ʿ / '1;:.ʿ8ʿ / '76ʿ=4ʿ,<7ʿ1.;4ʿ ,1>1.ʿ>.ʿ6 '1ʿ 1.7.1% ʿ <ʿ1.5'O5 7ʿ5.6ʿ1.>,47.6ʿ?1.6ʿ>.ʿ ;:4?'<. ʿ.7ʿ >.ʿ .:'>>%

ʿ$! ʿ ʿ ʿ^ʿ <ʿ- .<7ʿ>'??1.<>1.ʿ >.ʿ .<<.ʿ=4.ʿ / ?.1'71 ;.ʿ.67ʿ?'15 .>.ʿ '@. / 0,41Jʿ ?,41ʿ'55.1ʿ'4 >.-'<7ʿ>.ʿ . / ?.1.41ʿ Q46=4 " ! 1'70% % % "=4 77.ʿ 5'<ʿ5.ʿC)ʿQ, <% ʿ

<.ʿ'471.ʿ5.771.ʿ>.ʿ;.75.ʿ;'? 7'7.ʿ / '<>.ʿ =4.ʿ ,< < Vʿ>,47.ʿ ?546ʿ>.ʿ5" ?';E ;'7 ,<ʿ'-.;ʿ5" ,17.ʿIʿ,< ' ,47.ʿ=4.ʿ5" ,17.ʿ;,<6.<7ʿ"5" ;.66 ,<ʿ> 16, [" .7ʿ>=ʿ > 671 ;7ʿ641ʿ <<'%

<ʿ;,411 .1ʿ?1466 .<ʿ.67ʿ?'66.ʿ?'1ʿ .<<.ʿ?,41ʿ?,1% 7.1ʿ'4ʿ / < 671.ʿ?1466 .<8ʿ '4 ;,<J1.6ʿ>.ʿ 65,-.8ʿ>.6ʿ <6714;7 ,<6ʿ64H!6'<7.6ʿ?,41ʿ5";,<;546 ,<ʿ>.ʿ5"?' @%

<ʿ / '<>.ʿ>.ʿ . / 5 <8ʿ .<ʿ>'7.ʿ>4ʿC ʿQ4 <ʿ8ʿ=4.ʿ5.ʿ / '1.;:'5ʿ>.ʿ '55 6ʿ'V'<7ʿ '??1 6ʿ8 ?'1ʿ4<ʿ;,411 .1ʿ>4ʿ / < 671.ʿ / ?.1 '5'4ʿ;,<J1.6ʿ>.ʿ 67,-.8=4.ʿ;.ʿ / < 671.ʿ 1.7,41<.1' 7ʿ>'<6ʿ;.7ʿ.<>1, 7ʿ641ʿ <- 5'7 ,<ʿ>.6ʿ / ʿ < 671.6ʿ>.ʿ5" ,17.ʿ?,41ʿ1.?1.<>1.ʿ .7ʿ7.1 / <.1ʿ5.6ʿ<.ʿ J>7 '7 ,<6646?.<>4.68ʿ"E' 7ʿ?'17 1>.6ʿ, >1.6ʿ'4@1.J % / .<76ʿ.<ʿ / '1;:.ʿ>.ʿE' 16ʿ :'57.ʿQ46=4 "<,4-.5ʿ,1>1.%

ʿF ʿ ʿ ʿj ʿ .1, ʿ"<, / / >ʿ "5" ?5';.ʿ >.ʿ;, / / '<>'<7ʿ>.6ʿJ'1>.6ʿ [ʿ55,<<.6ʿ5.ʿ?1 <;.ʿ>.ʿ! '6ʿ 7.5E1'<;,68%5 .47.<'<7 J.<.1ʿ5.7ʿ <6?.;7.41ʿ>.ʿ5" ;'-ʿ 5.1 .8ʿ>,<7ʿ 5ʿ">,<<.ʿ5"?5';.ʿ">,<ʿ <7, <.ʿK'11'>'68 ʿ / '1.;:'5ʿ>.ʿ;' / ?% ʿ %

5ʿ- .<7ʿ> '11 -.1ʿ>'<6ʿ5.ʿ?,17ʿ>.ʿ#'> @ʿ (ʿ-' 66.'4@ʿ 1;:. / .<7ʿ;:'1J>68ʿ-.<'<7ʿ>.ʿL .1' #1408ʿ ,<7.- >.,8ʿ 5" ! 4 '<.ʿ.7ʿ5" B'-'<.%

/

7 ʿ^ʿ ʿ;,<6. 5ʿ>.ʿ;'0 <.7ʿ '4=4.Sʿ7,46ʿ 5.6ʿ / < 671.6ʿ,<7ʿ'66 676ʿ " .4ʿ5 .4ʿ5.ʿ ʿ'4ʿ041.'4ʿ>4ʿ6.M ;1.7' 1.ʿ >>7'7Iʿ '?1.6ʿ4<.ʿ6.'<;.ʿ>.ʿ>.4@ʿ:.41.68ʿ,<ʿ .<ʿ"1. / 6ʿ5.ʿ1>6457'7ʿ'41, ';74.5 . / .<7ʿ"6,<ʿ?'5' 6ʿ>.ʿ ' <7 ' / .6ʿIʿ 5ʿ.7' 7ʿ'11 VE.ʿ5" -. 55.ʿ>.6ʿ ;771.6ʿ>.ʿK.1ʿ <ʿ=4ʿ?,17.<7ʿ8 ";.ʿ=4.ʿ ,<ʿ%6641.ʿ8$=4.ʿ5.ʿ)ʿQ4 <

Fʿ ʿ+ʿ< ʿ'.

>.1< .1ʿ5.ʿ;, / 7.ʿ> 67.1 / '<8ʿ- ;. ;:'<;.5 .1>. 467>.8ʿ >,<<" '4@ʿ / < 671.6ʿ>.ʿ 1466.ʿ.7ʿ> <J5.7.11.ʿ5. >.1M < .1ʿ / ,7 >.ʿ6" 6,4-.1' <.Nʿ; .67 4<ʿ1.E46ʿE,1 / .5ʿ>.ʿ E' 1.ʿ?,41ʿ5"?' @ʿ> '471.6ʿ6';1 E ;.6ʿ=4.ʿ ;.4@ʿ=4 .57.% / . / .ʿ" ,EE.176ʿ '<<.ʿ>. / .1.% .; >. / .47ʿ.55.ʿ-.47ʿ J'1>.1ʿ ;O' , [ʿ.7ʿ6,<ʿ7.11 7, 1.ʿ>.?4 6ʿ5.ʿK,Jʿ Q46ʿ =4 '4ʿ < .67.1Iʿ ,<ʿ'Q,47.8ʿ.7ʿ ,=ʿ>,<<.ʿ'466ʿ?,47ʿ ;.17' <8ʿ=4.ʿ . / ?.1.41ʿ"?1, / 6ʿ>.ʿ6.;,41 1ʿ ʿ / ? 1'ʿ 71 ;.ʿ;,?'17'J.'<7.8ʿ.<ʿ;'6ʿ=4.ʿ <J5.7.11.ʿ '77'=4.ʿf ;.ʿ1c4ʿ8ʿ> 7 ,<ʿ" , ,>1.68ʿ<.ʿ5' 66.ʿ?'6ʿ=4.ʿ> . / O'1ʿ 1'66.1ʿ5.ʿ / Q< 67.1.ʿO1 7'<< =4.%#'7:.1 <.ʿ ʿ"4<ʿ'471.ʿ '55 .ʿ0 .<ʿ'471. / .<7ʿ1.>,47'O5.ʿ=4 8ʿ'4ʿ5 .4ʿ>.ʿ7. / ?,ʿ 1 6.1ʿ;, / <.ʿ % 778ʿ<.ʿ7'1>.1"?'6ʿ"6#>.;5'1.1Iʿ 0 9ʿ .=4 <,@.ʿ '1 / .%>.ʿ6.6ʿ7. / ?.7;6ʿ.7ʿ?1>7ʿ"E.1 / .1ʿ (*.ʿ 71>.ʿ>.ʿ5" K'57 =4.% .6ʿ<>J,; '<76ʿ'<J5'6ʿ,<7ʿ,07.<48ʿ ";.ʿ=4.ʿ , ʿ'6641.8ʿ4<ʿ>.5'ʿ?,41ʿ .<-,ʿ>.ʿ5" E5,77.ʿ >.67<.ʿ?,41ʿ ;.77.ʿ / .1Iʿ<,46ʿ<.ʿ ;1,V,<6ʿ?'6ʿ=4.ʿ > '466ʿE' O5.6ʿ;,<6 >.1'7 ,<6ʿ' .<7ʿ'11.7.ʿ5.ʿ;'0 <.7ʿ>.ʿ ' <7 5' / .6I / '6ʿ ; .67 7,4Q,416ʿ 0 .<ʿE' 7ʿ";.6ʿ<.J,Y ;'<76ʿ>.ʿO'5.18 ;, / / .ʿ56ʿ5.ʿE, ,78ʿ5.ʿ1.7, 1ʿ>.6ʿ-' 6M 6.'4@ʿ=4 56ʿ,<7ʿ" .7.160,41J%

.ʿ;, / / .1;.ʿ>.ʿ ,<>1.6ʿ- .<7ʿ>.1. . . -, 1ʿ4<.ʿ<,4ʿ -.55.71.6ʿ6'7 6E' 6'<7.Iʿ5.ʿ!) ʿ'11 -.ʿ>'<6ʿ5.6ʿ 4M <.68ʿ '??,17.ʿ>.6ʿ>.? ;:.6ʿ>.ʿ34.0.;8ʿ.7ʿ?,41ʿ?546ʿ>.ʿ ;.<7 / 55.ʿ -1.6 67.15 <Jʿ>.ʿ1. / 6.6ʿ"> 5E.1.<7.6 / ' 6,<6%

.6ʿ5.77 .6ʿ>.ʿ ,176 / ,47:8ʿ .<ʿ>' .>4ʿ ʿ.7ʿ>4ʿ C8ʿ '<<,<;.<7ʿ '11 -.ʿ> 4<.ʿ?.7 7.ʿO'67 55.ʿ.,-,V>.ʿ?'1ʿ % '55,Vʿ" % 7'<:,?.ʿ8 ?1 >.<7ʿ>.ʿ5" ;, .7.ʿ>.6ʿ / 6ʿ>.ʿ5" #,<67 747 ,<8ʿ>.ʿ ,<>1.6%#.ʿ?1.6.<7ʿ<7 1.6ʿ 6'<7ʿ" .7.ʿ '??,17.ʿ?'1ʿ5.ʿ65,,?F5.ʿ< ʿ?'17ʿ>4ʿ B'-1. >. ! 1';.ʿNʿ 5ʿ .67 ';;, / ?'J<>ʿ> 4<ʿ?5'<ʿ>.ʿ5" K'67 55.8ʿE @.ʿ641ʿ4<.ʿ? .11.ʿ .J'5. / .47ʿ7 1 ʿ>.6ʿ14 <.6ʿ >.ʿ ;.77.ʿ E,17.1=66.8ʿ>,<7ʿ5" 1.?1.6.<7'7 ,<ʿ .67 > 4<ʿ 6.47ʿ / ,1;.'<%

.ʿ ʿ.7ʿ5.ʿ Cʿ5.ʿ;, / / '<>'<7ʿ.<ʿ;:.Eʿ>.ʿ5"E5,77.ʿ" ;,<J'> ʿ4<ʿJ1'<>ʿ<, / O1.ʿ> :, / / .6 =4ʿ'-' .<7ʿ.7ʿ ?1.66.6ʿ?,41ʿ;,<'?7.7.1ʿ5.6ʿ .=4 ?'J.6% +ʿ <ʿ;,411 .1ʿ >.ʿ '/ 1'47.ʿ"1. / 6ʿ>.6ʿ>.?.;:. ʿ'4ʿ;, / / '<>'<7ʿ>4ʿ ?,178ʿ.7ʿ>.6ʿ <6714;7 ,<6ʿ'4@ʿ;'?7' <.6ʿ>.ʿ>.4@ʿE1.J'7. ʿ =4ʿ-,<7ʿ" ! O1'57'1% %

<ʿ?1>7.<>ʿ=4 5ʿ6 .67 5.-.ʿ4<.ʿ> 6?47.ʿ>'<6ʿ5"O'5.ʿ >.ʿ B ,<>41'6ʿ.<71.ʿ5.6ʿ 6?'J<,56ʿ.7ʿ5.6ʿ <J5'6ʿ=4ʿ E,<75' ?.;:.ʿ>.6ʿ7,154.68ʿ , 5"4<.O.55.,;;'6 ,<ʿ?,41ʿ 5.6ʿ>.4@ʿ?4 66'<;.'>.ʿ>.?.<6.1ʿ.<;,1.ʿ=4.5=4.6ʿ / 5M 5 ,<68ʿ;, / / .ʿ>'<6ʿ5"J1'<>.ʿ 'EE' 1.ʿ>.6ʿ?.'4@ʿ>.ʿ5,4ʿ 71.6ʿ.7ʿ>.ʿ;:'76ʿ6'4-'J.6ʿ>.ʿ ,,7 ' ,4<>%

%ʿ>.ʿ ! '5,<<.ʿ.67ʿ>.ʿ1.7,41ʿ" ,<>1.6% 5ʿ.67ʿ?'17ʿ >.ʿ;.77.ʿ- 55.ʿ4<ʿJ1'<>ʿ<, / O1.ʿ>.ʿH1'< ' 6%1IE4J [ʿ=4ʿ ,<7ʿ?1 6ʿ5"1,47.ʿ> 67.<>.8

L K %

$@ ʿ 0 ʿ ʿ ʿ ʿ4- g

.6ʿ ' / 6ʿ>.ʿ5" 5 O.17Vʿ=4ʿ6,<7ʿ ;7ʿ<.ʿ;,<J, -.<7ʿ ?, <7ʿ;, / / .<7ʿ5.6H1'<=' 6?.<V.<7ʿ1 - =4.1ʿ.<>=45.ʿ 5.6ʿ <7.<7 ,<6ʿ>.ʿ 451 ;:.ʿ"5.,1ʿ9J'1>% ,71.ʿ '1 .ʿ #:1 67 <.ʿ .67ʿ'1 67,;1'7.ʿQ46=4 " 5ʿ E41.41% ,47.ʿ;,ʿ ;'1>.ʿO5'?;:.8ʿ?,17..ʿ / . / .ʿ?'1ʿ5.ʿ?546ʿ- 5ʿ'-.<741 .18% .67ʿ4<ʿ,0Q.7ʿ> '>,1'5 ,<ʿ?,41ʿ.55.% ʿ 7:8ʿ>'<6ʿ5.ʿ;,<M -.<7ʿ>.ʿ 'O'1.7:8ʿ<,71.ʿJ,4-; / . / .<7ʿ"5,J9ʿ?546ʿ>.ʿ U ʿ'1 67,;1'5.6ʿE1'< ' 6ʿ ;.6ʿE,4J4.4@ʿ71'<6E4J.6ʿ=4ʿ .6? .<78ʿ6.ʿ 0' J<.1ʿ>'<6ʿ5.ʿ6'<Jʿ>.ʿ5.41ʿ?'71 .% . 1ʿ <, / O1.ʿ'4J / .<7.ʿ7,46ʿ5.6ʿQ,416ʿ>'<6ʿ<,6ʿ?1,- <;.6% <ʿ '6641.ʿ;8ʿ>'<6ʿ;.ʿ / , / .<78ʿ=4 4<ʿJ'1>.ʿ<'7 ,<ʿ'5ʿ>.ʿ H1'<;.ʿ".79ʿQ.7 ʿ>'<6ʿ5.6ʿ?1 6,<6ʿ>.ʿ ,<6ʿ8 .7ʿ=4.5.ʿ / / .ʿ6,17ʿ'77.<>ʿ7,46ʿ;.4@ʿ=4ʿ6.ʿ? .6.<7.1,<7ʿ641ʿ <,71.ʿ7.11 7, 1.% ,46ʿ5.6ʿ?'?.16E1'< 6ʿ-,<7ʿ.71.ʿ>.ʿ E.<>46ʿ;8ʿ ,6ʿE4J 5 E6ʿ5.-;<7ʿ>.ʿ7,47.6ʿ?'176ʿ,<.ʿ7.7.ʿ J<,1'<7.ʿ.7ʿ64?.10.% "?' @ʿ6.ʿE' 7ʿ'4ʿ ,1>% <.ʿ 5 J4.ʿ.67ʿ?1,Q.7;..<71.ʿ?546 .416ʿ?4 66'<;.6% "J4.11.ʿ < "71' <.ʿ=4.ʿ?,41ʿ-,46ʿ'77.<>1.Nʿ,<ʿ7,46ʿ;1, 7ʿ>>G%

64< 6 .7 5'6 >.' 7,47 ;.; %%8% <<'0,47>.' 41,?.'' '471.' 5'' <,05.66.' ;1 .' -.<J.'<;.% # .67 5'' ?1 7.<>4.' <,05.66.'=4 ' -,46 E.1''5'' J4.11.% 7.0 >.' -,71.' ;,<67 M 747 ,< 5.' ?: 5,6,?0 =4.' > ;1.7 =4 ' > 714 7 ;.'?1.Q J ' E'7'58 .7 -,46 <.' 6.1.0 ?'6' 71;740 6% L,6 ; >.-''7 ?1 <;.6 .7 7,47 ;.'=4 ' 6 '??.55.'<,05.' ' 5.41' 64 7.' ,<7 Q41 '5''?.17.>.6 H1'< ' 6% 7-,468 H1'<;' 68-,46 '-.0 541.=4 5 < V '41' 7Q' / ' 6 < ' <,05.66.'<'>.4@ ;:' / ' 01.6 > 67 <;7.6 >'<6 -,71.' ;,<67 747 ,<S ' E'47 >,<.' 6.' / .641.1 .7 ;,1'0'771.%%% ,6 > '6,<7 6>16 > '- 71'4?'?'17'>'<67 ''H1'<;.' / / .'N 76 V E,<7 E' 1.' >.6 .<1>5. / .<76 ?, 71 5.41 ;, / ?7.% , > =4.5 .1'' 4< E,1 / .' >.' 5.41 '1 / .'N :'0 7 05.4 >.' 1, 8 ?'1.' / .<76 <, 168 -.67.'1,4J.'8 ?'<7'5,<Q'4<.'8 0,77.6 '5'' :466'1>.8 ;'1'0 <.8 6'01.8 =4'71.' ? 67,5.768 ?'45.57.6 .7 ' J4 55.77.6% < , ,<<.'UC'5 -1.6 ?'1 / , 6 8 .75.6 A ' ,<7 ?1, / 6 ' ..6 ,E ; .16 >.'5.41 E' 1.' ?'V.1'5.6 '11.1'J.6 =4 '?.4-.<75.41 1.'>46 .?H1'<;.% ,41 ;,<<' 71.' E4< E,1 / .' >.6 6,5>'76 5 E'47 '77.<>1.' =4 5V ' 7 4<.' '1 / ..%

'41' '?.<7 .71.'0 .<7,7 .<71.' 5.6 / ' <6 =4.5=4.6 5.771.6 > 4< '>.6 ; >.-'<7 ?1 <;.6 '' '1 6% ?.' ;,<-.16'7 ,< / '' '??1 6 =4.' 5.6 E4J 7 E6 ;1, .<7 5.41 ?'17 '<, / 01.4@ >'<6 5.'1,V'4 / .' I .7=4 '' .J'1>>.' '1 / ..'E1'<;' 6.' 76 <.'>,47.<7 ?, <7 =4 . 5.' <.' 6Y > - 6.' '4 ?1. / .1 ;,4? >.' # <,<% .' 6.1 / .<7 .@ J ' >.6 ,E5E ; .16 <.'5.6 <=4 .7.'?, <7% < ' .EE.78 >.Q ' >.6 ?' Q41.66,<7 ?'66.6 641 5'E-,<7 .1.% ' ;.:.0 .<;,1.' =4.'?'1 / '5.6 , K; .16 =4 '< ,<7 ?, <7 ?1.7.5.'6.1 / .<78 ?546 .7 16 6,<7 '' '1 68 ;:'1J.6 >.' E' 1.' >.6 .<1,5. ' <. 76%%%%%%% ''<,05.6] .'8 > 6.<7 7,<6 ;.6 04 / / .6 ; 8 ' Q41.'>.' / ' <7.< 1 5.6 71,<.6% ''<,05.66.' V ?.1 1''S8%%% .'<.'6'41' 6 -,46 .@?1 / .1 5'' E41.41 >.' ;.6 <6.<6.6% .' / , / .<7 '??1,.0.'>.'6'-, 1 6'5.6 H1'< ' 6 <.'64<78 ;,< / .' 76 5.' > 6.<78 ,V.0 4< 6 ;, / / .'>.6 E1.1.68 .7 0'77.0 -<46 #,K6 / .' >.6 5 ,<6% ,46 '-.0 >.6 5, 6I -,46 7.6 7,46 6,5>'76% #1,V.b G' & <> J<'7 ,< =4 <6? 1.1'' 5.' <, / '1 > ;45.'>.J. 5 5:, / / .=4'<>'5.' ?.4?5.'E1'< ' 6 '41'' J'J<.'4<.'?1. / .1.'0'7' 55.8 .7;%

.6 ;,<6. 56 ?1 - 6 > .7'7 .7 >.'E <'<;.6 ,<7 .7 ' ,1 ' J'< 6 6 '' '11 - .'>.' F '5.' ;, / 7.'>.' .77.1< ;:% < '' 1. / 6 '' 7.'16 ?,67.6 5.6 ?.164<<.6 >,<7 ,< '- 7 >. ' / '<> ' 5, J<. / .<7% B V .< '' / . / .'=4 '.< ,<7 ,07.<4 >.'?546 .5.- 6% 'V''>.'5''> 64< ,< ?'1 / '5.6 / . / 01.6 >4 / < 67.1.%

70 ! %

' F)

5 V .<78 ,<6 .418 >.' / .'7, / 0.1 6,46 5'' / ' < 4< / ?1 / > <7 745.' ' ' , ' ' G # ' 8 ' ' '- ' A9 A 5'8 ' (' (` % #,< / . E'<7 ?'1 ;.6 / ,76 I $ ' ' `' .7 7 < 66'7 7 ?'1 ;.4@ ; N , A ' R,1% .7 / ?1 / . =7B B#;,45 .<7=4G41 .' ?'J.8 '4 :'47 >.'5'=4.55.'.67 4< 5.41,<8& '<6 5.';.<71.' >4=4.5 ,< 5 7 ;.6 / ,76 d 8 ' ' ' 5 .7 ' ;<7,41 >4=4.5 .67 ' .75.' <6;1 ?7 ,< N ' , ' ' ' G ' .67 7.1 / <> ' ' <6 N & ' K,4.<.8

.'& ;5'1.'=4 .Q.< ''?, <7 '66 676 ' ;.77.'?1.7.<>4.' >.;5'1'7 ,<8 ,4 5.751.'>4 ('Q4 55.78 77 '' '4;4<.640 ' 6;=4. 7;I =4.'Q.'< ''1 .< 6 J<.'>.'?'1.B I =4.' / ''6 M J<'741.''??,6..';, / / .' ;'47 ,< '4 0'6 >.' ;.7 / ' ?1 / > .67 4< E'4@ >.6 ?546 1.-,57'=76 >,<7 .'?,41 ' 64 -1' '5.6 '47.416 6'Q.' ?4 6 5.6 ;,<K'571.I =4.'Q '' :,<<.41 > .71.'?1.6 >.<7 >.'5''6, ; >7 >.6 / 6 4.'5'' #,<67 747 ,< 6 '<7.' '4'''H.4 55'<68 14. ' <7 B,<,1 8 .7 =4.'Q.'<.'5.'64 6 > '4;4<.''471.% .6 -1' 6 / 6 >.' 5'' #,<67 747 ,< <.'6,<7 ?, <7 >.6 E'466' 1.6% #.4@ =4 ' ,<7 .;1 7 ,4 E' 7 / ?1 <7.1 < , '<, / ' '4 0'6 >.' ;.77.' ?1 7.,>4.'>.;5'1'7 ,< ,4 5.771.'6,<7 >.6 E'466' 1.6 <GG

)- !(' MN '$ ' -,1, ,,45,/ ,,5 ,6 5 ,,. , ' !' ! 4, '1 '-.')! (,((,)! 3 9) '' , 2 <) ! , 2 1+,! C '1.!'9)(A)! !.- -' 1C .9 '1'5 (,4 ' ,4C 1.!'-.'. (, '* ' 4 '5)!' 5 ! 2 .8,!' * '() ('- '),C(/ '1 ' 4, '1 '-.')! @ (,((,)!'1 '):. 4 ' (- ;)! 1(): ! .5B !(* /)!' 5B 5B 'C- ' ' !1 ' ') '- ' 0.

8 ' . '

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8 ' '??' 'MMWM

' ' .%;

+ (.9 5 ;, ! 1 ' 0 (* 'A '9) ' C5 , '5 ((' - ((' '. ' (, 12 .' '- ' 9 ! 4 !(' * ' 9, !! !(1 ' '.) ! 2 <) ! , 2 A ' !+.,' '),!(' C(C- ' 4 !( )1, 7 1 ' (: .!!,5,1 2 ,- 4 '8.,(B) 2 -A ' !+ (.,' ' . ' .9 55 7 * ' +)!(' C(C 3 ' !+.,' '),!((C . '5B. 4 ''1 '-.' 1 .(,)! 2 (A/. ' .9 5 9 ,(C * 'A ' !+.,' . 5 ! ' '. (. 7( ) ;- '* ,')!('-, ' . '' - F 9) 2 A '9) ' ! ' '-, ' <) ! , 2 * - ')!((C - ' 4)(,8 ' 1 ' +C! 0, ' * ' A+., 4)!(6 9 ,- F ' , ' ! .4,'1 '9) ' !1 '5) 4 '(' 1 ' +) ' 9 .0 '1)!(A ' 9) ' .,'8.,(! -,; ' ;) 4 4 .0 6 A ' 4+.' , ' ' ,!(2 (A ' ! '5B. !0 ., ' . - ' '8 ' ''0 3 & ' ' '-.') 9 .,! (C1 ')'-

- ' 'F ' : ' '< ' 'F ' ' ''0 A ' 'F ' ' ' ' ''), ' ' ' '- ' + 8 ' B[' '.MW.

,46 '-.0 > 6 1 8 ,<6 .418 =4.'Q.>,<<'66.4<.' .@?5 ;'7 ,< >.'5'' / ,7 ,< =4.' -,46 '??.5.0 (' '=4.'Q ''E' 7.' 5.' U >.' ;.' / , 6641 5'' / ,7 ,< ?1,<,<;..'?'1 % '<;,417 I Q.' / V 64 6 1.E46 'Q46 ' =4 '4Q,41> :4 I / ' 6 ?4 6=4.' ;.77.' ,? < ,< - .<7 4 71.' / ?1 / ..8 > 671 04..8 .7 ?.47 571.' '>1.66 .'' 7,465.6 > ?'17. <.<768 6.5,< 5.' -..4 =4.'Q .< / '< ' E.67' 8 Q.' -' 6 -,46 6'7 6E' 1.%

,46 ;,<<' 66.0 / ,< '77';:. / .<7 <-'1 '05.' ''5'' #,<67 747 ,<8 .7 / ,< 0 5.' 01E 5'<78 ;, / / .'5.;5 / '7 =4 ' / ''-4 <'571.8 ?,41 7,47 ;.'=4 '7.<>'' 'EE.1 / 1I / ' 6 ;.'=4.' -,46 <.'6'-.0 ?.47 71.'?'6 . .65 =4.' / ,< ' / ,41 ; - =4.'< .67 ?'6 .@. / ?7 >.';1' <7.8 <'>.' / E '<;.';.<71.'7,47 ;.'=4 '?.<7 '-, 1 ' 1 >.'?,17.1 '77. <7.' '' / ,< >,5.%%%%% I .7 ?,41 -,46 7,47 > 1.8 Q. >.;5'1.'=4 .8 ;,<7 '<7Q46=4 '' .@;.68 Q.'< ''Q' / '6 ?1,4- ' ' 6.<7 / .<7 ;,<71' 1.' =4.'641 5.'64;;.6 ' 5'' 1 -,5<7 ,<% # .67 >'<6 ;.77.' > 6?,6 7 ,<I =4 ' / .' 64 -1'' '5 Y 5''7 <>.'<,671'-'4@8 =4.'Q '11 -'''5'' 6.'<;.'6 ' / ?,17'<7.'>4 U >.';.'5 , 6%

% '<;,417 / ,<7'' ''5''71 04<.I Q.' .<7.<> 66 .E' E,1;'<7>.'Q467 7 .1 4< -,V'J.';,<>' / <.'?'1 5''H1'<;.' .<7 .1.8 >.'?'55 .1 4<.'>.;5'1'7 ,< 6,5.<<;55. / .<7 / ' ?1,0'7 -.'>.'7,46 5.6 >.,1.768 .7 '?44V'47 6.6 '1J4M / .<76 641 5''<, 5 5 0.17 ''<7 1 .41.'&5.'5''?.16,<<.'>4 1, I / , 8 =4 ' '-' 6 7,4Q,416 ; / '=4.'5.'1 ' 7' 7 5 01.8 =4 5 '-' 5 -,454 5 01. / .<7 5'' #,<67 747 ,<8 .7 =4 5 <.' ?,4-' 7 6 V 1.E46.1 ,4 '77'=4.18 6.'6 ?'1.1 >.' 6 6. / 05 .' .7 '0'<>,<<.1 5'' <'7 ,< .7 6,< 71 4.'=4.' ?'1 .5E.7 >.'=4.5=4.' / ';: <'7 ,<?.1E >;'>.6 .<<. / 6 >.'5''?471 .%%%8 % '<;,417 1.<-.16' 7 7,47.6 / .6 > .6I Q.'<.' ;,77<46 ?5465 :, / / . 'Q.' 4.' - 6 ?546 .'' 54 '=4.'5.'?1. / .1 ;, / / .<6'5 >4 1, 8 J'1 '?'16,< 0.5.I Q.'6.<7 6 =4.' 6,< ,? < ,< < 7' 7 0,<<.'<'?,41 5.'1, '?,41 =4 '.55.' '-' 5 .7 'E' 7.8 <'?,41 5.'6'Q47 >.' 5'' ?'71 .?,41 =4 '.5 .'>.-' 7 71.'>.67 <.8 '&6 5'

4)(,)!ʿ ʿ9) ʿ ʿ . .- F 5)!1.4!(ʿ ʿ ʿ !(
1)!! ʿ-, ʿ ʿ.1 ʿ 8- 7,)! ʿ(ʿ ʿ)8)!1

.ʿ<.ʿ;:.1;:.ʿ?'6ʿ "5" Q465 E E71ʿ ?'6ʿ ?546ʿ=4.ʿQ.ʿ<.ʿ /.ʿ5" 1.?1,;:.8ʿQ.ʿ /.ʿ0,1<.ʿ " -,46ʿ >,<<.1ʿ /.Iʿ /,7 E68ʿ -,46ʿQ4J.1.0ʿ ' 6>/.<7ʿ= .ʿQ.ʿ< . 6ʿ?'6ʿ <ʿ 7.<7 ,<ʿ> ';;46.1ʿ ʿ '<;,417ʿ ; <; -6/.Iʿ >'?1.6ʿ 5.6ʿ?1.4-.6ʿ >.ʿ?'71 ,76/.ʿ =4 5ʿ " ?4ʿ >,<<.18ʿ 7ʿ<.ʿ ?,411' 7ʿ;:'<J.1ʿ=4 '4@ʿ >>?.<6ʿ >.ʿ6" 1.?47'7 ,<ʿ.7ʿ >.ʿ6" J5, 1.%

'-' 6ʿ5" ?'1,5.ʿ ?,41ʿ 5.ʿ 5.<>. / ' <Iʿ6ʿQ '-'56ʿ?4ʿ '77. <>1.ʿ5" 71 04<.8ʿQ Vʿ'41' 6ʿ>,<4>ʿ5.6ʿ .@?5 ;'7 ,<6ʿ =4.ʿQ.ʿ -,46ʿ>,<<.ʿ'4Q,41> :4 Iʿ /.6ʿ ' / 6ʿ '41' .<7ʿ ;,<<4ʿ5.6ʿ /,7 E6ʿ>.ʿ /,<ʿ ʿ.7ʿQ ' 1' 6ʿ'11>7.ʿ .ʿJ4.? .1ʿ>,<7ʿQ .<7.<>6ʿ .<;,1.ʿ5.ʿ0,41>,<<. / .<5%

5; 8_E.ʿ< ʿ ʿ ʿ , ʿ Aʿ
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.ʿ<'-1.ʿ5.ʿ - A A ʿ>.ʿ9 ʿ7,<<.'4@8ʿ <.4E8ʿ .7ʿ" 71, 6ʿ?,<768ʿ;'?7' <.ʿ ʿ , 6<8ʿ>.67<.?,41ʿ 15. >. H1'<;.ʿ.7ʿ 5<>.8ʿ?'17 1" >.ʿK,1>.'4@ʿ -.16ʿ5.ʿ ʿ> ',478ʿ?1.<>1" >4ʿE1.7ʿ?,41ʿ;.6ʿ>.4@ʿ>.67 7 '7 ,<68ʿ .7ʿ>.6ʿ?'66'J.16ʿ '>1.66.1ʿ" K,1>.'4@8ʿ " ʿ .5 8 / .671.8ʿ ;,417 .1Iʿ.7ʿ" '1 68ʿ" ʿ !1'E5 <8ʿ14.ʿ ' 47ʿ <>1> >.6 1768ʿ<Gʿ **%

"6,; .7.ʿ>.6ʿ / 6ʿ>.ʿ5" #,<67 747 ,<8ʿ>.ʿ .18ʿ' '1 ʿ 1.7;ʿ=4 " ; , / ?7.1ʿ>4ʿ ',E57ʿ?1,;:' 4ʿ .55.ʿ <.ʿ1. ʿ ;.-1" ?546ʿ <ʿ 5.771.6ʿ <ʿ ?'=4.76ʿ =4 76ʿ <.ʿ 6, .<7ʿ '5E1'<;: 68ʿ6ʿ ;.< .67>.ʿ5'6,; .7>ʿ />1.8ʿ .7>.;.55.ʿ >4ʿ;:.E 5 .4ʿ>4ʿ>.?'17. / .<7ʿ>.ʿ , 1 .7 #:.1%

" b

ʿ K ʿ %

8 ʿ ʿF ʿ$

7 ʿ ʿ ʿ ʿ ʿ ʿ ʿ
ʿ ʿ ʿ 0

. ʿ D% ' <;7.ʿ1.;,<><;7 ,<ʿ< '41" ?546ʿ 5 .4ʿ " '-.< 1ʿ>'<6ʿ '4;4<ʿ;'6%

% #.5?ʿ=4ʿ ';:E.7.1" >.6ʿ 0.67 '4@ʿ :,16ʿ>.6ʿ E, 1.6ʿ .7ʿ / '1;:.6ʿ6.1" 7.<4ʿ>.ʿ5.6ʿ1.67 7<.1ʿJ1'74 7. / .<7ʿ'4ʿ ?1,?1 .7' 1.8ʿ .<ʿ .7'7ʿ,4ʿ 6ʿ6.ʿ71,4-.1,<78ʿ>'<6ʿ5.ʿ ;'6ʿ, 5ʿ 56ʿ'41' .<7ʿ.7>ʿ-,5.6%

% .6ʿ>.J>76ʿ=4.ʿ5.6ʿ0.67 '4@ʿ,4ʿ'< / '4@ʿ>, / #67 ʿ =4.6ʿ>.ʿ7, 7.ʿ.6?.;.8ʿ5' 66>6ʿ" '0'<>;<8ʿ'41,<7ʿE' 76ʿ 641ʿ5.6ʿ?1,?1 .7.6ʿ>'4714 8ʿ6, 7ʿ>'<6ʿ .<;. <7.ʿ>.6ʿ:'M 0 7'7 ,<68ʿ 6, 7ʿ>'<6ʿ5.6ʿ;:' / ?6ʿ,4-.1768ʿ6.1,<7ʿ?'V>6ʿ ?'1ʿ5.6ʿ?.16,<<.6ʿ=4ʿ. ʿ,<7ʿ5" ?1,?1 .7>8ʿ" >.E'47ʿ>.ʿ 6,5-'0 5 5>ʿ>.ʿ ;.55.6ʿ =4ʿ .<ʿ ,<7ʿ5"%Q,4 66'<;.%%%%%ʿ .ʿ ?1,?1 >7' 1.ʿ=4ʿ .?1,4-.1" 5.ʿ>, / / 'J.ʿ'41" 5.ʿ>1, 7ʿ >.ʿ6' 6 1ʿ 5.6ʿ 0.67 '4@8ʿ 6,46ʿ5" ;,<> 7 ,<ʿ>.ʿ5.6ʿE' 1.ʿ ;,<>4 1.8ʿ >'<6ʿ5.6ʿ CU :.41.68ʿ '4ʿ5 .4ʿ>4ʿ>>?>7ʿ=4ʿ 6.1" >.6 J<.ʿ 2ʿ ;.7ʿ .EE.7ʿ?'1ʿ5" / 4< ; ?'5 7.% ʿ6.1" 6'7 6E' 7ʿ'4@ʿ >.J 76ʿ?'1ʿ5" -.<7.ʿ>.6ʿ0.67 '4@ʿ6 56ʿ<.ʿ 6,<7ʿ?'6ʿ1.;5' / .68ʿ,4ʿ6ʿ5.ʿ>, / / 'J.ʿ< "?'6ʿ.7>ʿ?'V>ʿ >'<6ʿ5" :4 7' <.% ʿ ;.6,<7ʿ>.6ʿ -,5' 55.6ʿ>.ʿ=4.5=4.ʿ .6?.;.ʿ=4.ʿ;.ʿ6, 78ʿ=4ʿ ;'46.<7ʿ5.ʿ>, / / 'J.8ʿ .55.6ʿ ?,411,<7ʿ>71.74>.6ʿ?'1ʿ5.ʿ ?1,?1 >7' 1.ʿ ,4ʿ5.ʿE.1 / .1ʿ =4ʿ1>?1,4-.1'8ʿ / ' 6ʿ6.45. / .<7ʿ641ʿ5.ʿ5 .4ʿ.7ʿ'4ʿ / ,M / .<7ʿ>4ʿ>>J>7%

% ,47.ʿ?.16,< .ʿ=4ʿ'41" '554 / >>4ʿE.4ʿ>'<6ʿ5.6ʿ ;:' / ?68ʿ?546ʿ?1>6ʿ=4.ʿ ʿ7, 6.6ʿ>.6ʿ / ' 6,<68ʿ 0, 68ʿ -.1J.168ʿ:' .68ʿ / .45.6>.ʿJ1' <68ʿ6.1" ;,<>' / <>." 4<.ʿ ' / .<>.ʿ.J'5.ʿ "5" -'5.41ʿ>.ʿ CʿQ,41<..6ʿ>.ʿ71'M -' 5ʿ ' / 7'4@ʿ>4ʿ?'V68ʿ .7ʿ?' .1" .<ʿ ,471.ʿ5.ʿ>, / / 'J.ʿ =4.ʿ5.ʿE.4ʿ '41' 7ʿ,;;'6 ,<<>Iʿ5.ʿ>>5 <=4'<7ʿ?,411" ,.ʿ ?5468ʿ64 -'<7ʿ5.6;1;,<67'<;.6ʿ>4ʿ>>E 78ʿ5 1.ʿ;,<>' / <.ʿ .ʿ5" 1 (!(,)!ʿ>.ʿ?,5 ;.ʿ / 4< ; ?'5.%

$ʿ 7* ʿ11(,)!(- ʿ0 8 ʿ1 ʿ .; ʿ8 ,ʿ
(, ʿ) ʿ. (2 (5 7* ʿ15) 5)!(1 ʿ . ;

?.>ʿ'??'17.<'<76ʿ ' '4714 8ʿ 6.1, /ʿ ;,<>' / <>6ʿ" 4<.ʿ ' / .<>.ʿ >,405.ʿ>4ʿ >.>, / / 'J. / .<7ʿ>E5ʿ'4ʿ?1,?1 >ʿ 7' 1.8ʿ.7ʿ" 5" >.7.<7 ,<ʿ>.ʿ?,5 ;.ʿ;,11.;5 ,<<.55.ʿ=4ʿ <;ʿ?,411" .@.>>.1ʿ71, 6ʿ / , 6%

% .6ʿ?1,?1 >7' 1.6ʿ .7ʿ5.6ʿ E.1 / .16ʿ > 4<ʿ 1<> / >ʿ ;'<7,<ʿ<.ʿ?,411,<7ʿ6.ʿ;,'5 6.1?,415' 1.0' 66.1,4ʿ E @.1ʿ" -5ʿ?1 @ʿ5" Q,41<>.ʿ>.6ʿ ,4-1 .168ʿ,4ʿ5.6ʿJ'J.6ʿ >.6>, / .67 =4.68ʿ6,46ʿ?. <.ʿ> 4<.ʿ ' / .<>.ʿ>4ʿ=4'17ʿ >.ʿ5" ;,<71 047 ,<ʿ / ,:5 >1.ʿ>.6>;5 / 4'<768ʿ.7 / > / .ʿ >.ʿ5" >.7.<7 ,<ʿ>.ʿ?,5 ;.ʿ / 4< ; ?'5.ʿ6ʿ 5ʿVʿ" 5 .4%

% .6ʿ / , 66,< .4168ʿ5.6ʿ>, / .67 =4#6.7ʿ,4-1 .16ʿ >.ʿ5" ;' / ?'J<.ʿ<.ʿ?,411,<7ʿ6.ʿ5 J4.1ʿ.<71.ʿ.4@ʿ?,41ʿ E' 1.ʿ0'466.1ʿ.7ʿ>.7.1 / <.1ʿ5.ʿ?1 @ʿ>.6ʿJ'J.6ʿ,4ʿ5.66' ʿ 5' 1.68ʿ6,46ʿ?. <.ʿ> 4<.ʿ ' / .<>.ʿ=4ʿ <.ʿ?,411" .@ 8ʿ ,>>.1ʿ5" -'5.41ʿ>.ʿ CʿQ,41<>.6ʿ>.ʿ71'-' 58ʿ .7ʿ.<ʿ,471.ʿ >.ʿ5" >>7.<7 ,<ʿ>.ʿ?,7 ..ʿ / 4< ; ?'5.%

% .6ʿ / , <>1.6ʿ ' / .<>.6ʿ6.1,<7ʿ >.ʿ5" -'5.418ʿ > 4<.ʿQ,41<>.ʿ>.ʿ71'-' 58ʿ'4ʿ7'<@ʿ>4ʿ?'V68ʿ>.7.1 / 4>ʿ ?'1ʿ5.ʿ>1.;7, 1.ʿ>4ʿ>>?'17. / .<7Iʿ7, 7.6ʿ .6ʿ' / .<>.6ʿ ʿ,1> <'E1.68ʿ=4ʿ< .@.>>.1,<7ʿ?'6ʿ5" 6, / / .>.ʿ ʿQ,71.ʿ <>.6ʿ>.ʿ 71'-' 58ʿ .1,<7ʿ >,405.6ʿ .<ʿ;'6ʿ>.ʿ1.; > -.ʿ >'?6ʿ .6?';.ʿ> 5 <.ʿ'<,>.8ʿ44ʿ6ʿ5.ʿ>>5 7ʿ" .7;ʿ;, / / 6ʿ '-'<7ʿ5.ʿ5.-.1ʿ ,4ʿ '?1>6ʿ5.ʿ ;,4;B.1ʿ>4ʿ 6,5. 5Iʿ > .6ʿ 6.1,<7ʿ71 ?5.6ʿ =4'<>ʿ 5.6ʿ>.4@ʿ . 1;,<67'<;.6ʿ ?1>.. ʿ >.<7.6ʿ6.ʿ1.4< 1,<7ʿ>'<6ʿ5.ʿ>>5 7%

"% .ʿ>.E' 7ʿ>.ʿ?' . / .<7ʿ>.6ʿ' / .<>.6ʿ< .<71' <;1" 5" #,<71' <7.ʿ?'1ʿ;,1?6ʿ=4.ʿCU a.41.6ʿ'?1.6ʿ5.ʿ;, / ʿ / '<>. /. 7% " >.7.<7 ,<ʿ1. / ?5';.1" ' / .<>.ʿ" >ʿ J'1> >.6ʿ <6,5-'05.68ʿ / ' 6ʿ5" '41>.ʿ;<ʿ;, / / 47'7 ,<ʿ >,ʿ?. <.ʿ<.ʿ?,411" .@.>>.1ʿ4<ʿ / , 6ʿ>'<6ʿ5.6ʿ>>5 76ʿ ?,41ʿ5.6=4.56ʿ;.7 .ʿ?. <.ʿ< .67ʿ?, <7ʿ?1,<,<.>.8ʿ.7ʿ >'<6ʿ5.6ʿ ;'6ʿJ1'-.6ʿ,4ʿ5" ?. <.ʿ>.ʿ5" >.7.<7 ,<ʿ.67ʿ Q, <7.ʿ" ' / .<>.8ʿ .55.ʿ?,411" >71.ʿ ?1,5,,J. .ʿ> 4<ʿ =4'17ʿ>4ʿ7. / ?6ʿ?1.6;1 7ʿc\'1ʿ5" 5, %

"% .6ʿ>>5 76ʿ .<7 ,<<.6ʿ'<ʿ?1.6.<7ʿ>. ;1.7=4ʿ .<ʿ 71' <.1,<7ʿ4<.ʿ>.7.<7 ,<ʿ>.ʿ ?546ʿ >;ʿ71, 6ʿQ,416ʿ> / 6ʿ 5.6;' / ?'J<.68ʿ.7ʿ>.ʿ?<6ʿ>.<4 7ʿQ,416ʿ>'<67.6-5 .68ʿ 6[1,<7 4J.6ʿ?'1ʿ-, .ʿ>.ʿ?,5 ;.ʿ;,11.;5 ,<<.55.8ʿ5.6ʿ '471.6ʿ5.ʿ6.1,<7ʿ?'1ʿ5" ?,5 ;.ʿ / 4< ; ?'5.%

"% .6ʿ / '1568ʿ?.1.68ʿ / .1.68ʿ747.4168ʿ / '571.68ʿ.<M 71.?1.<.416ʿ>.ʿ7,47.ʿ.6?>..ʿ6.1,<7ʿ; -5. / .<7ʿJ'1'<76ʿ >.6ʿ>.076ʿ;, / / 6ʿ?'1ʿ5.4 6ʿE. / / .68ʿ5.416ʿ.<E'<768ʿ?4ʿ ?5 .68ʿ < <.4168ʿ < 'V'<7ʿ?'6ʿ?546ʿ >.ʿ[illegible] ʿ'<6ʿ .7ʿ<,<ʿ / '1 .%68ʿ>, / .67 =<.68ʿ,4-1 .168ʿ -, 74 5;16.7ʿ'471.6ʿ64ʿ 0,1>,<<>6% .67 / '7 ,<ʿ>.6ʿ>, / / 'J.6ʿ6.1" 7,4Q4416ʿ ! ʿ?'1ʿ5.Q4J.ʿ>. ?' @ʿ,4ʿ6;6N'66.66.4168ʿ,4ʿ>.6ʿ.@M ?.176ʿ<, / / >6ʿ?'1ʿ54 %

" % .6ʿ>, / .67 =4.68ʿ,4-1 . 68ʿ1, 741 .1644ʿ'471.6ʿ 640,1>,<<>6ʿ6.1,<7ʿ" 5.41ʿ7,41ʿ1.6?,<6'05.6ʿ>.ʿ5.416ʿ >>5 76ʿ.<-.16ʿ;.4@ʿ=4ʿ5.6ʿ. / ?5, .<7%

" % 45ʿ<.ʿ?.476.ʿ?1.5. >1.ʿ?1,?1 >7' 1..@;546 Eʿ >.6ʿ.'4@ʿ> 4<ʿ E5.4-.ʿ ,4ʿ > 4<.ʿ 1 - .1.ʿ <'- J'05.ʿ ,4ʿ E5,77'05.Iʿ' <6ʿ5.6ʿ?1,?1 >7' 1.6ʿ1 -.1' <6ʿ?.4-;<78ʿ.<ʿ -.154ʿ>4ʿ>1, 7ʿ;, / / 4<8ʿVʿE' 1.ʿ>.6ʿ?1 6.6ʿ> .'486ʿ'<6ʿ <.'< / , <6ʿ.<ʿ>.7,41<.1ʿ<ʿ. / 0'11'66;1ʿ5.ʿ;,416ʿ>4<.ʿ / '< .1.ʿ <4 6 05.ʿ '4ʿ 0 .<ʿ J.<.1'5ʿ .7ʿ " 5" <'- J'7 ,<ʿ >7' :5 .%

" % ,47ʿ?'17 ;45 .1ʿ" >1, 7ʿ>.ʿ>,<<.1ʿ" 5" 6,41;.ʿ > 4<.ʿE,<7' <.ʿ=4ʿQ' 55 7ʿ641ʿ6,<ʿ7.11' <8ʿ;EʿJ><;1'5. ʿ / .<7ʿ'4@ .'4@ʿ=4 5ʿ" 1'66. / 05>.68ʿ7.5ʿ;,416ʿ=4ʿ 54ʿ .67ʿ47 5.8ʿ' < ʿ=4.ʿ>.ʿE' 1.ʿ" 6" -,5,<7.>.6ʿE,66.6ʿ>'<6ʿ 6" ?1,?1 .7>8ʿ?,41ʿ / ,>;1.18ʿ';;>5>1.1ʿ,4ʿ>.7,41<.1ʿ 5.ʿ;,416ʿ>.ʿ;.6ʿ.'4@%

" % .16,<<.ʿ<.ʿ?,411" <,<>.1ʿ :.17'J.ʿ>,ʿ6,<ʿ -, 6 <Iʿ <ʿ 54ʿ 71'<6 <.771.ʿ -,5,<7' 1. / ;<7ʿ6.6ʿ.'4@ʿ > 4<.ʿ / '< .1. <4 6 05.8ʿ6,46ʿ?. <.ʿ>.ʿ?'V.1ʿ5.ʿ>, / M / 'J.ʿ.7ʿ4<.ʿ' / .<>.ʿ=4ʿ<.ʿ?,?11" .@.>>.1ʿ5" 6, / <.ʿ >4ʿ>.>, / / 'J. / .<7%

" ʿ .6ʿ?1,?1 >7' 1.6ʿ ,4ʿE.1 / .16ʿ>.6ʿ< ,40<6ʿ;7ʿ 46 .68ʿ;,<6514 76ʿ,4ʿ" ;;<6714 1.8ʿ 6.1,<7ʿJ'1'<76ʿ>.ʿ 7,47ʿ>,< / 'J.%=4.ʿ 5.6ʿ .'4@ʿ?,411' .<7ʿ;'46.1ʿ'4@ʿ .:. / <6ʿ, ʿ'4@ʿ?1,?1 >7.6ʿ-, 6 #6ʿ?41ʿ5" 71, ?ʿJ1'<>.ʿ > >-'7 ,<ʿ>4ʿ>>-.16, 1ʿ,4'471. / .<7Iʿ 56ʿ6.1,<7ʿE,1.>6ʿ >.ʿ7.< 1ʿ5.6ʿ .'4@ʿ ʿ 4<.ʿ:'47.41ʿ=4ʿ <.ʿ<4 6.ʿ2ʿ?.1

*,,,' ! ' ') . , ' 1 ' 4),! ' 1 ' ((), 'A) ' !A 75 1 '
,7 4), ' # ' 5) ' . ;- ' ' .,) ')!) (' ! ' .4 !1'
(,'- ' 1 ' -. 9.- ; 1 ' 1 1) 4 4 .0 4 !(18(.I ' ') '
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#+. (' &&& &' * , ' 5) !5 4 ' 3' 414 ' 1 -,(2 4., '
.9 5 .(( ) ' B, !(2 (!9) : ' . ' 5)1 ' ' ! .-

&#' # ' 1 1('8.,- ' 1.! /- ' ;), '(,.–, ' ' . ' 1 ; '
(,.!7),- ( ),*, . 7)!(' !, ' 1 ' -. ' 4.!,1 ' ' , '
9.!(6

'6.1'' ?'V> > ' / .<>.' ?,41' 4<.' 0>7.' > 5'Q<.' ' 5 1% I ?,41' 4<.' ; : .-1.' C 5 -%I ?,41' 4< ; , ; : ,< ' ' 5 1% 8 ?,41' 4< ; : .-'5 ,4 0 7.' >.' 6, : / .' C 5 -%I ?,41' 4< 0; .4E8 4<.' -' ; : .' ,4 -.' 48 ' 5 -% + ' ' 5.6 0, 6 7' 55 6 6,<7 >'<6 5.6 6 @ ?1. / .1.6 '<<>.6 >.' 5.41' #1, 66'<; .8 ' ' / .<>.' 6.1'' >,405.' I 6 ' 5.6 >.J>766,<7 ; , / / 6 '' J'1>.' 5' 5.8 ,7 >'<6 5.6 7' 55 6 >.' / , <6 >.' 6 @ '<6 8 ' / .<>.' 6.1'' 71 ?5.' I 6 5 V '' 1. ; > -.' >'<6 '<<. .8 .7 1>4< ,< > 4<.' >.6>.4@; 1; ,<67'<; .6?1.; . >.<7.68 ,41>4< ,< >.6 >.4@ ; 1; ,<67'<; . ' ?1>; . >.<7.68 < > / .' 6'<6 1> ; ' > -.8 ' / .<>.' 6.1'' =4'>14?5.% .' >.>, / / 'J. / .<7 >>' '4 ?1, ?1 .7' 1.' 6.1'' .67 / .' >.' J1.' 2 J1.8 ,4 '' > 1.' > .@?.176%

< 134 ' 0? 'D?0 ' 6 ' L?' 2

%!' 8.,(- 5(' 1 ' ' - , ' .1

546 .416 ; 7, V#<6 E, <7 ?'66.1 2 66. / O5>.' <'7 , ' <' 5.' > V.16.66, / / .6 ?,41' .<71.7 .< >.6 : , / / .6 >.' J4.11.%

% 4 4 : ' ' 1 !(2 . . !) 4 1 ' 5) .,(' 4,-(., 2
!' ')A (1 ' 1 5 (') ' - ' -,;-, !, !(1 ' -' 1, 5,@
'-, ! ' 4,-(., ' #+ 4;- / ' !) 1) ! ! ' +, !, '
,) ! (- . 1, 5 ,) ! - ' - !1 4 ., ! 1 ' - . 1, (, ; (,) !

%% * 'N .'=4'71. - <J7 6. 0 . / .' 1>J / .<5> < ' E'<7.1 .8 ; >.-'<7>.' '66'48 '-' 5 / '1; : .' -.16 ,<7 ' / .>V8 > '?1.6 ,1>1.' =4 5 .< '-' 5 1.J4 >.' % K04 55>% . ' ; , / <<66' 1.6 .<-,V>6 >'<6 .6 >.?'17. / .<76 >.5'' .46.' .5 >.' 5'' ,6.55.' 54 ' ,<7 >,<<.' ,1>1.' > '55.1' '' .>'< I / ' 6 5.6 ,E5 ; .16 / 4< ; ?'4@ ,<7 / .<' ; .' >.' 54 'E.1 / .1' 5.6 ?,17.6 >.' 5''- 55.% 5,165.6 ; , / < 66' 1.68 ?,41' <.' ?, <7 , ; ; '6 ,<<.E >.' >.6,1>1.8 ,<7 1.-,=4> ,1>1.' >,<<.8 .7 ,<7 .<-,V.' '' : ,<- 55.8 .6 : 'O M 7'<76 ,<5 > 7 =4.8 6 5 -.<' 78 56 5.-.1' .<7 5.?,<7 ' ; - 6% < '' >.' <,4-.'4 ; : '<J.' ,1>1.' ?,41' .<-,V.1' 7 '11. ,4 6% '' - 55.' '' / .<' ; .' >.' / .771.' 6.6 ; '<,<6 6<1' 5.' 1. / ?'178 .7 >.'E' 1.' E.48 6 5 '11 -' 7% '?1.6 5.' 1'??, 17%>.6; , / / 66' 1.68 5.' 1.J / .<7 .67 4< >.6 ?546 0.'4@ .7 >.6 ?546 6'J.6 >.' '1 / . .% ' '' ?1>7.' 5.' 6.1 / .<5 '-.; ' 5.6 / . 55.41.6 > 6?,6 5 ,<6 I ,< 54 '1. ' ?1, ; : .' > '-, 1' .7.' . / ?5,V.' '' ,<7 / .>V8 .7 ,<6.' 1'??.55.' =4 5 .7' 7 '' 1,1'<J.1 .' >.' .16' 55.6% ,5 7 ; .=4 ' '< / .; , 71.' 54 % < ?'66'<7 '' .708 5.6,E5 ' ; .16 / 5 7' 1.6 .7 5.6 ; ,1?6 '>< < 671'5 E6, <7 1.6,54 >.' '11.7.18 'E < >.' ?1.-.< 1' 5.6 ,067'; 5.6 =4 ,< ?,411' 7 54 ' ,??,6.1' >'<6 5'' - 55.' , 5 5 .7' 7 .<-,V.% %

< >.6 J1.<'> .16 '' ?1 6 = .1.55.' '-.; 4< '471.' J1.M <'> .1' >4 1.J / .<7 ; >.-'<7 >.' #,<>. I% ; .' >.1< .1' '' 64; ; , / O.N 6.6 ; ' / '1'>.6 ,<7 -,454 5.' -.<J.18 .5 ?.4 6 .< .67 E'554 =4 4<.' =<.1.55.' ?'15 ; 45 01.' <.' >,<< 57 5 .4 '' 4< ; , / O'7 J. <.1'5 I / ' 6 5.' O.5.' >.6 ; ,1?6 '>' / < 671''7 E6 .5 >.6 ,E5 ; .16 >.6 > - .16 1.J / .<76 ''107'O5 ' 5. ; '5 / .% 5'A1.Z4 ,1>1.>.?'17 1' ?,41' ,45 I '4 / ,M / .<7 >4 >>?'178 5.' 1>J / .<7 6 .67 6; <>.8 .7 U '' : , / / .6 ,<7 >.; 5 1.' . 16 1.51,466 68 '11' ; : .' 5.4-6 0,47,<68 .7 >.; 5'1.' =4 56 < .7' .<7 ?'6 6,5>'76 .71'<' J.168 / ' 6 E1'< ' 6% 6 6,<7 1.65>6 '' .70I .7 ?,41' =77 ,< <.' 5.6 6,4?J,<<>7 ?'6 >.' / '4-' 6 >.6 . <68 56 ,<7 5. / 6 5.416 '1 / .6% . Q,41' >.' 5'' E.>.1'7 ,< 56 ; 47 ?1 7>6.1 / .<7 '-.; 5'' ?546 J1'<> .' Q, ;% .' 641?546 >4 1.J / .<7 '' >. / '<>.' > .71.' ' ; ; , / ?'J<.' '' , 5 ?'1' >.4@ ,E5 ; .16 / 4< ; ?'4@ 8 ; .' =4 '54 ' '' .7.' ' ; ; ,1>.% ' '' '466 ' ?1>7.' 6.1 / .<7 '-.; 4< J1'<> .<75 ,46 '6 / .' >'<6 5'' -E55.' , 5 5 6.' 1,4-' 7 5.Q,41' >.' 5'' E.>.1'7 ,<%

$) ' ,,(F 5) 4 ;, . ' ,- 5 .,(1.! 7 . ' 1

/ << ; ?'5 7.6 .' ?.1 / 66.<7 ' <6 ' >.' >.1'<J.1' 5.6 > 6M ?,6 7 ,<6 J.<.1'5.6 >4 6V67> / .>.' >.E.<6. I <,46 ' ,<6 ; : '1J.' 5.' / < 671.>.' 5'' J4.11.' > V ?,41-, 1% L, ; ' 5.' >. ; 1.7 =4.' <,46 -,46 ?1,?,6,<6I

66. / O5>.' <'7 ,<'5.' >>.1E.7.' =4.' 5.' *9.' 1>J / . 5 > <E'<7.1 8 ; >.-'<7 '66'48 .7 7,46 ; .4@ ; >. '7E >.6 J<.6 6,46 5.' <, / ' >.' 1>J / .<7 > <E' 7.1 .' '55.' / '<>.8 15'<>' 6.' .7 5 >J., 6.8 E,<7 ?'17 .' >.' <E'<' 7.1 .' E1'<J' 6.I =4 .< ; ,<6>=4.<. . 56 <.' E,<7 '-.;G .55.' =4 4<.' 6.775.' .7 / > / .' >1 / .8 =4 56 ?1.<>1,<7 4% < E,1 / .' E1'<J' 68 64 -1,<7 5'' <7. / .' > 6; ?5 <.' =4.' 5.6 '471.6 71,4?.6 E1'< ' 6.6I .7 = '' ; , / ?7.1' >< >.8 ; .' / , 68 56 6.1,<7 71' 7>6 >.' 5'' / / .' / '< >1.' 1.5'7 ' . / .<7 '' 5'' 6,5>.8 '4@ '??, <7. / .<76 .7 > 5'' E @'7 ,< >.6 > EE>1.<7.6 / '66.6%

#.' >. ; 1.7 .67 '>, ?7.%

% - 2 2 & ' .6 71, 6 <J. < .416 =4 ' >7' .<7 '' '<M >'486,<7 ?'66.6 ; : .O 1>51'<J>1% .6 : 'O 7'<76 >.' #.77.' ?5' ; .' ,<7 >. / '<>.' =4.' 8 O.5 <.68 =4 ' ; ,<<' 7 E,17 O .< ; .' ?'V68 .7 .< =4 ' 56 ,<7 ?5. <.' ; ,< ! '<. .8 5.<1' E5 7 .<-,V> ' , > .< ; ,<6.=4.<; .' 5.' ?1,Q.7 =4.' -,46 ?1>6.<7.' -,71.' ; , / 7.' / 5 7' 1.N

66. / O5>.' <'7 ,<'5.' >. ; 1O5> =4.' % O.5 <.6 8 / . / O1.' >.' 66. / O7>.8 6.' 71'< ?,17.1'' 6'<6 ' 7; 4< 1.7'1>' '' '<>'48 .7 >.' 5'' >'<6 5.6 > E7.1.<7.6 ?5' ; .6 >4 B'47.7>4 '6 E' <8.<=4'5 7.' >.' ; , / / 66' 1.8 ?,41' .< 5. ; ,<<'571.' .7 .? ; ,<67'7; 1' H>7'78 '- 6.1' ' . ; ' 5.6 ; : .E6 .7 ; , / / '<>'<76 / 5 7' 1.6 .7 / / .8 6 5 V '' 5 .48 '-. ; 5.6 ; ,1?6 '> / < 671'7 E6 .7 / 4< ; ?'4@ 8 '4@ / ,V.<6 >.' 7,47 J.<1.' '' . / ?5,V.1' ?,41' 5'' >.E.<6.' .7 ; ,<6.1-'7 ,< >.' ; .6 ?5' ; .68 .7 ; ,11.6?,<>1.' 641' 7,46 ; .6 ,OQ.76 '-. ; ' 5.' / < 671.' >.' 5'' J4.E1.' .7 5.' ; , / 7C / 5 7' 1.%

#.' >. ; 1.7 .67 '>, ?75%

' % .O14< ?' .6.<7.8 '4 <, / ' >4 ; , / 5> >.6 E <'<; .68 4< ?1,Q.7 >.' > ; 1.7 641' 5'' ; , / ?7'O 5 7Q ' .7 5.' 1. / O,41 ' . / .<7 >.6 ; , / ?'J< .6 >.' E <'<; .6%

& ,46 >, <.1,<6 >. / ' < 5.6 '17 ; 5.6 >. ; 1.7. 6%P + ' < >.' % 5.6 6. ; 1.7' 1.6E' 7 5. ; 741.' > 4<.' 5.751.' >.6 ; , / / 66' 1.6 >.' 1 66. / O55.' <'7 ,<'5.' >'<6 5.6 > ?'17. / .<76 >4 ,1> .7 >4 '6 >. #'5' 6%

' ?[' ,46 / .77,<6 5'' ?5 '

J1'<>.' ' ; 7 - 7.' >'<6 ' ; @.; 7 ,< >.6 ,1>1.6 >,<7 %/.) 6. / O5.' <'7 ,<'5.' <,46 '' ; : '1J.68 .7 <, 1.' / 66 ,< 7,4; : .' .<E < '' 6,< 7.1 / .% .' ?546 J1'<> ,1>1.' 1 J7 .' 7,4Q,416 >'<6 ; .77.' ?'17 .' >.' . / ? 1. I 5'' . ,<E '< ; .' >'<6 66. / O5#.' <'7 ,<'5.' .67 6'<6 O,1<.8 .7 . .67 '' .55.' 6.45.' =4.' 6.' 1'55 .<7 5.6 .6? 1'<; .6 >4 ?.4? ; % ' ,1>1.' ?4O5 ; .' ?1,4-.' =4.5=4.6 5.J.1.6 '77. <7. 8 6 '=4.5=4.E7 6 5'' 1.J .' .67 71'<6J1.66. .8 <,46 ,O6.1- <6 =4.' 5.6 ; ,<71'-.<7 ,<6 6,<7 7,4Q,416?1,> 7.6 ?'1' >.6 .@'J.1'7 ,<6 >.' O.5.' .7 ?'1' >.6 ; 1' / 7.6 =4.' 6. / O5; ' O467 5 .1' 7,47 ; .' =4 ,< 6 .67 ?'4 '1' ; ,<7.1' >.6 ?15?' ' 1'7 E6 >.' : ,6 -, 6 6% ,46 '-,<6 6,4-.<7 '' <,46 ?5' <>1.' >.' 5'' E'; 5 7.' ' -. ; ' 5'=4.55. .6 ; 1' <7.6 / 'J ' <' 1.6 >4 ?.4?5.' 6,<7 '>, ?7.#6 ?'1' 5.6 ; ,1?6 '> / < 6M 71'7 E6 .7 >.6 < ; ,<-.< .476 J1'-.6 =4 '156457.<7 >.' ; .77.' < ; '< ; .-'O5.' ; 1.>,5 % .< < .67 ?546 > EE ; 5.8 ?'1' .@. / ?5.8 =4.' >.' E' 1.' .<7.<>1.' 1' 6,< '4@ / 4< ; ?' ' 5 7.6 641' 5.6 >. / '<>.6 =4 .55.6 <,46 '>1.66.E 7 ; : '=4.' Q,41' ?,41' ,O7.< 1' >.6 E46 56I =4.5=4.6 4< ; 6 > .55.6 6.' 6,<7 / / .' ?.1 / 6 >.6 <E1' ; 7 ,<6 71 6' 1 ?1. : .<6 O5.6% 5 .67 <> 6?.<6'O5.' =4.' 1 66. / O55.' <'7 ,<'5.' ?1.<<.' ; .7 ,OQ.7>'<6 5'' ?546 6 1 .46.' ; ,<6 >51'7 <8 .7 =4 .55.' >. .1.7.' >.6 ?. <.6 6.-51.6 ; ,<71.' 5'' - ,5'7 ,< >.6 >. ' ? 76 > '1 / .6% ,46 ?.<6,<6 =4 5 .67 'O6,54 / .<7 <. ' ; .6 ' 1.' =4 4<.' 5, '?1. ; 6.' ; ,<>' / <.' 5.6 / 4< ; ?'5 7V '' ?'V.1' 5.6 E46 56 =4 .55.6 6.' ?.1 / .771,<7 >.' ?1.E >1.' 6'<6 ,1>1.' >'<6 5.6 '16.<'4@ I <,46 6, / / .6 ?.764'>56 =4.' ; .' J.<1.' >.' 1.6?,<6'O 5 7 8 =4 ' >, 7 6 57.<>1.' ' '@ ,E5 ; .16 ?1.?O6.6 '' 5'' J'1>.' >.6 >5?>76 > <1 / .68 '4 ' 1' 7 4< .EE.7 71 6 6E 1' .7 71 6 ?1, / ?7I <,46 15?57,<6 '4 5 .67 <> 6?.<6'O5.' '4.' ; .77.' 5, '6, 5 1.4>4.' .7 ?1,

/ 4 J4. .ʹ 5.ʹ? <6ʹ5 7ʹ ?,66 05.8ʹ .7ʹ=4ʹ. .ʹ \<8.1.66.ʹ5,1ʹ 7; / .<7ʹ 5ʹʹ 641.7>ʹ>. 7ʹ7% ,46ʹ 1.; .-,<6ʹ '466ʹ >.6ʹ ?5' <7.6ʹ / 457ʹ?5 >.6ʹ641ʹ '4>';.ʹ;7ʹ5.6ʹ /'<;.4-1.6ʹ>.6ʹ ?1>71.6ʹ .7ʹ>.6ʹ / , <.6ʹ1.E1',7' 1.6Iʹ ..6ʹ:, / / .6 5ʹʹ<;ʹ ;.66.777ʹ>.ʹE, / .<7.1ʹ5.6ʹ71,405.6ʹ.7ʹ>.ʹ?1J; : .1ʹ5ʹʹ6.>M 7 ,<%

'? .6ʹ5.6ʹ1.<6. J<. / .<76ʹ=4.ʹ<,46ʹ'-,<6ʹ1.;4. 5ʹ 5 68ʹ ,466, / / .60 .<ʹ;,<-' <;46ʹ=4.ʹ5.41ʹ?1.6.<;.ʹ >'<6ʹ5.6ʹ5 .4@ʹ,> 6ʹ.@.1 ' .<7>.6ʹE,<.7 ,<6? 05 =4.6ʹ ?1,>4 7ʹ5.6ʹ ?546ʹ E4<.67.6ʹ .EE.768ʹ> - 6.ʹ5.6ʹ .6?1 76ʹ.7ʹ '5 / . 7.ʹ 5ʹʹ ;: '5.41ʹ> 4<ʹ ?'17ʹ ; ,<71.ʹ5.6ʹE,<.7 ,<ʹ <' 1.6ʹ.,<65 747 ,K #56% ʹʹ5.<7.41ʹ=4 ,<ʹ / .7ʹʹʹ .@?.ʹ ʹ> .1ʹ.7ʹʹʹ .<-,V.1ʹ5.6ʹ >>;1.76ʹ ?,41ʹ5ʹʹ ; 1; ,<6;1 ?7 ,<ʹ >.6ʹ?'1, 66.6ʹ6.17ʹ ?'1E' 7.1' .<7ʹ5.416ʹ>>7.67'05.6ʹ ?1, ʹ Q.76Iʹ<,46ʹ64??5 ,<6ʹ 66.1<05. .ʹ>.ʹ>,<<.1ʹ5.6ʹ ,1>1.6ʹ 5.6ʹ?546ʹ?1>; 6ʹ ʹʹ ; ;7ʹ>J'1>% ,46ʹ'-,<6ʹ?'1; ,414ʹ.7ʹ-M 6 5.ʹ7,47.ʹ5ʹʹE1,<5 .1.8ʹ .7ʹ<,46ʹ?,4-,<6ʹ '6641.1ʹ 6ʹ 6; / 05>;ʹ<'7 ,<'5.ʹ=4 5ʹ< Vʹʹʹ1 .<ʹ ʹ 'Q,47.1ʹ '4@ʹ ?1>ʹ ;'47 ; / 6ʹ?1 6.6ʹ?,41ʹ5ʹʹ / .571.ʹʹʹ ; ,<-.17ʹ>.ʹ7,47.ʹ '7ʹ 7ʹ'=4.% .6ʹ'??1,- 6 ,<<. / .476ʹ>.ʹJ4.11.8ʹ .<ʹ- -1.6ʹ.7ʹ .<ʹ / 4< 7 ,<68ʹ 6,<7ʹ '0,<>'<76Iʹ7,45.6ʹ 5.6ʹ ?5';.6ʹ>.ʹ ?1. / .1.ʹ5 J<.ʹ6,<7ʹ >?'1..6ʹ.7ʹ> 6?,6>.6ʹ?,41ʹ5ʹʹ>.M E.<6.ʹI '1 / . / .<7ʹ>.ʹ;.>.6ʹ>.ʹ6.;,<>.ʹ5 J<.ʹ7,4;:.ʹʹʹ 6,<ʹ7.1 / .I 5.6ʹ71'-'4@ʹ6.ʹ;,<7 <4.<7ʹ'-.;ʹ'1>.41ʹ>'<6ʹ 5.6ʹ '16.<'4@8ʹ .55 66. / 05>.ʹ<'7 ,<'5.ʹ>, 7ʹ X71.ʹ?5. ʹ <. / .<71'6641>.6415 .7'7ʹ>.ʹ5'E1,<7 .1.>4 ,1>% ,46ʹ >.-,<6ʹ;.ʹ7. / , J<'J.ʹʹʹ %K,; :'1'0.'48ʹ=4 5ʹ.67ʹ / M ?,66 05.ʹ>.ʹ>>?5,V.1ʹ? 6>.ʹ641-. 55'<;.8ʹ?546ʹ>.ʹ0.5.ʹ ;5ʹ?546ʹ>.ʹ7'5.<76ʹ?,41ʹ5ʹʹ>.E.<6.ʹ>.ʹ 7ʹ7% #.ʹJ.<.1ʹ5ʹ 6;ʹ?,17.ʹ>'<6ʹ7,<6ʹ5.6ʹ?, <76ʹ>.ʹ6,<ʹ;, < / '<'. / .7 7ʹ '-..ʹ<<.ʹ';>V 5.ʹ=4.ʹ1 .<ʹ<.ʹ?.<7ʹ'11 7.1Iʹ5ʹʹ; ,< '<;.ʹ >,<7ʹ-,46ʹ1' - .1: ,<01.8ʹ5.ʹ6,4-.< 1ʹ>.ʹ6.6ʹ5,<J6ʹ6.1M - ;.68ʹ 6ʹʹ 1.?47'7 ,<ʹ77 5 7'Q1.ʹ .7ʹ5ʹʹ ; .17 74>.ʹ>.%6,<ʹ ?'71 ,7 6 / .ʹ ?1,>4 6.:7ʹ 5.6ʹ ?546ʹ : .41.4@ʹ .EE.7688.7ʹ % ,;:'/ 0.'4%.67ʹ71 66 Q467. / .<7ʹ ,0Q.7ʹ>.ʹ ' / ,<1ʹ >.6ʹ; 7?V.<6ʹ.7ʹ>.ʹ5ʹʹ;,< '<;.ʹ>.ʹ6,<ʹ'1 / ..% .6ʹ71,4M 05.6ʹ=<ʹ ,47ʹ.< .4ʹʹʹ '1 6ʹ< ,<7ʹ?1,>4 7ʹ ,ʹ'4;4<ʹ.Eʹ E.7Iʹ5.ʹ?.4?5.ʹ'E7<.ʹ5ʹʹ#,<67 747 ,<8ʹ5.ʹ?.4?5.ʹ .67ʹ;;5' ʹ 1.8ʹ .7ʹ5.6ʹE';7 .4@ʹ<.ʹ?'1- .<>1,<7ʹ?'6ʹʹ .J'1.1ʹ.7ʹʹʹ 5 ʹE' 1.ʹ'>,?7.1ʹ>.6ʹ?1 <; ?.6ʹ; ,<71' 1.6ʹ ʹʹ ʹʹ ;,<67 M 747 ,<ʹ=4.ʹ , Eʹ'-.0ʹ [.1.7. .8ʹ .7ʹ=4 5ʹʹQ41.ʹ>.ʹ/ ' <ʹ 7. 1% ,46ʹ>.-,<6ʹ .<>1.ʹQ467 ;.ʹ ʹʹ .@;.55.<7ʹ .6?1 7ʹ =<ʹ'< / .ʹ5ʹʹ ,; .7>ʹ>.6ʹ / 6ʹ>.ʹ5ʹʹ#,<67 747 ,<8ʹ>.ʹ '5.<; .<<.6% & .6ʹ / 41 / 41.6ʹ>.ʹ5ʹʹ?'17 .ʹ>1, 7.ʹ6,<7ʹ >7,<EE?6ʹ?'1ʹ5.6'??5'4> 66. / .<76ʹ>.ʹ5'8?'17 .%J'4.:.%P

66. / 05..ʹ<'7 ,<'5.ʹʹʹ>.Qʹʹ >,<<.ʹ>.ʹQ465.6ʹ .5,J.6ʹ '<ʹ0.5.ʹ.7ʹ'<ʹ ?'71 ,7 6 / .ʹ =4.ʹ;.>.ʹ6,; .7.ʹ5 7ʹ .;5'7;1ʹ '?1.6ʹ5ʹʹE4 7.ʹ>4ʹ1, 8ʹ.7ʹ<,46ʹ<.ʹ>,<7,<6ʹ?'6ʹ=4.ʹ 6ʹ 6.1 05..ʹ<';;4. 55.ʹ'-.;0 .<-. 55'<;.ʹ4<.'>1.66.ʹ>'<6ʹ 5ʹ=4.55.ʹ5.6ʹ / 6ʹ>.ʹ5ʹʹ#,<67 747 ,<ʹ.@?1 / .<7ʹ>.6ʹ6.<M 7 / .<76ʹ=4ʹ>, -.47ʹ.71.ʹ;.'@ʹ>.ʹ7,<6ʹ5.6ʹ?'71 ,7.6ʹ>.ʹ . <? 1.%

& ʹ . ʺ '

ʹ ʹ 3 ʹ ʹ ʹ ʹ ʹ ʹ A #
ʹ- ʹ ʹ ʹ ʹ ʹ ʹ
ʹ ʹ ʹ ʹ ʹG),

ʹ.7' 7ʹ>.ʹ5ʹʹ>.65 <>.ʹ>.ʹ5ʹʹ?1. / .1.ʹ 66. / 05>.ʹE 01.ʹ >.6H1'<I ' 6ʹ >.ʹ >>?5,V.1ʹ 7,47.6ʹ5.6ʹ-.1746ʹ> E ; 5.6ʹ .7ʹ7,<6ʹ5.6ʹJ.<1.6ʹ>;ʹ.,41'J.% <7,41>6ʹ>.6ʹ'1 / . .6ʹ>4ʹ >.6?,7 6 / .8ʹ-,46ʹ,6>7.6ʹE,<>.1ʹ5ʹʹ5 0.1 .8ʹ .7ʹ-,46ʹ-.ʹ <.0ʹ> 'EE.1 / 1ʹ5ʹʹ#,<67 747 ,<ʹ'<ʹ / 5 .4ʹ>.6ʹ:<15. <.<76ʹ $>.ʹ '<'1;: .% ,46ʹ71 , / ?:.0ʹ>J'5. / .<7ʹ>.ʹ7,47.6ʹ5.6ʹ E' 05.66.6ʹ :4 / ' <.6Iʹ5.6ʹ?1>Q<J>6ʹ'-' .<7ʹE4ʹ >.-'<7ʹ -,468ʹ-,46ʹ'-.0ʹ-' <;4ʹ5.6ʹ?'66 ,<6ʹ/ > / .6% / 'J.ʹ>.ʹ 5ʹʹ5, ʹ>,<7ʹ -,46ʹ>7.6ʹ 7.6ʹ ,1J'<.68ʹ / ?'66 05.6ʹ .7ʹ / / 4'05.6ʹ ; , / / .ʹ .55.8ʹ '4;4<ʹ 1.66.<7 / .<7ʹ <.ʹ -,46ʹ ʹʹ '-.4J5>6ʹ 641ʹ -,6ʹ >.-, 16G8ʹ -,71.ʹ?4 66'<;.ʹ <ʹʹ?, <7ʹ>J'1>ʹ -,71.ʹQ467 ; .8ʹ .71 .<ʹ7 ʹʹ ?4ʹ -,46ʹ .<71' <.1ʹ'ʹ?4< 1ʹ4<ʹ>>5 7ʹ=4ʹ< '-' 7ʹ?'6ʹ>7.ʹ ?1>-4ʹ ?'1ʹ5ʹʹ 5, % 34.ʹE.1' .<7ʹ>>6,1 / ' 6ʹ-,6ʹ .<<. / 6ʹ?,41ʹ -,46ʹ'77. <>1.Zʹ 6ʹE. J<' .<7ʹ>.ʹ<.ʹQ?'6ʹ;1, 1.ʹʹʹ-,71.

; ,41'J.8ʹ=4'<>ʹ-,46ʹ<,46ʹ>,<< .0ʹ4<.ʹ?'71 .'4ʹ 5M 5 .<ʹ>.6ʹ>'<J.16ʹ=4 56ʹ-,46ʹ646; 7' .<7Iʹ .7ʹ. .67ʹ'4ʹ / 5 .4ʹ>.6ʹ?.1 56ʹ=< 56ʹ ,<7ʹE<68ʹ=4.ʹ-,46ʹ -.<.0ʹ>.ʹ ?1.6.1-.1ʹ5ʹʹ / ,<'1; : .ʹ#,<67 747 ,<<.55.% ʹ-,6ʹ71'M -'4@ʹ<.ʹ 6,<7ʹ ?'6ʹ7.1/ <; 68ʹ '4ʹ / , <68ʹ<,465 ,6,<6ʹ > 1.8ʹ -,46ʹ'-.0ʹ> 66 ?>ʹ5.6ʹ ?546ʹ>'<J.1.4@ʹ.<<. / 6ʹ >.ʹ 5ʹʹ ; ,<67 747 ,<ʹ E1'<J' 6.ʹIʹ -,46ʹ -,46ʹ >7.61'55 .ʹ 7,<6ʹ 6.6ʹ >.E.<6.416ʹ?'1ʹ -,71.ʹ ; ,41'J.46.ʹ-.17<8ʹ.7ʹ ;.77.ʹ ; ,41ʹ>,<7ʹ ʹ ʹ ʹ <ʹ ʹ E'47.6ʹ < ,<7ʹ ?4ʹ -,46ʹ>J'1.18ʹ .67ʹ ʹʹ Q' / ' 6ʹ1>>4 7.ʹ?'1ʹ-,6ʹ 6'J.6ʹ5, 6ʹ ʹʹ - -1.ʹ: .41.46.ʹ>4ʹ0,<: .41ʹ>4ʹ?.4?5.8ʹ,4ʹ 2ʹ?5.41.1ʹ5, <Jʹ>.ʹ54ʹ6.6ʹ71,?ʹ5,<J4.6ʹ .11.41]8ʹ6'<68ʹ 54ʹ.<ʹE' 1.ʹ>>6,1 / ' 6ʹ?'17'J.1ʹ5.6ʹ64 7.6%#.6ʹ- ,5.<;.6ʹ ?1. / . > 5>.6ʹ>.6ʹ1.?1. 6.<7'<76ʹ>.ʹ5ʹʹ<'7 ,<8ʹ; .ʹ<,4-.5ʹ '77.<7'7ʹ.66'V>ʹ?,41ʹ <7 / >.1ʹ-,71.ʹ <. 01'<5'05.ʹE.1ʹ / .7>8ʹ<,<6ʹ<,46ʹ J'1>.<6ʹ>.ʹ5.6ʹ'571 0<.1ʹ '4ʹ ?.4?5.ʹ >.ʹ '1 6Iʹ<,<8ʹ; .ʹ?.4?5.ʹ ; ,41'J.4@8ʹ=4ʹ5.ʹ?1. / .1% ʹʹ5.->ʹ >5.<>'1>ʹ>.ʹ5ʹʹ5 0.17.8ʹ=4ʹ6 .67ʹ1.<>4ʹ J'1'<7ʹ '4?1.6ʹ>.5ʹʹH1'<;.ʹ.<7 #1.>.5 <>>?;<>'<;.>4ʹ;,1?6ʹ >J 65'7 E8ʹ .7ʹ=4ʹ';=4 77.ʹ; : '=<.ʹQ,41ʹ; .>.ʹ6' <7.ʹ?1, ʹ / .66.ʹ ?'1ʹ4<.ʹ - J 5ʹ<;.ʹ6ʹ<,05.8ʹ6ʹ ; ,<67'<7.Iʹ<,<8ʹ ;.ʹ?.4?5.ʹJ.<.1.4@ʹ<.ʹ6 .67ʹ?, <7ʹ6,4 55 ʹ>.ʹ;.77.ʹ- ,M 5ʹ7 ,<ʹ;@>#1'05.ʹ>4ʹ>.-, 1ʹ5.ʹ?546ʹ6';1.Iʹ ʹ< ʹʹ?, <7ʹ E,1 / .ʹ5.ʹ?1,Q.7ʹ'0641>.ʹ'47'<7ʹ=4 1'? .ʹ >.ʹ-,46ʹ>,ʹ / <.1ʹ?'1ʹ5ʹʹ7.11#418ʹ .7ʹ>.ʹE' 1.ʹ; : '<J.1ʹ ʹ6,<ʹJ1>ʹ5.6ʹ 0'86.6ʹ ; ,<6717<7 ,<<.55.6ʹ 641ʹ 5.6=4.55.6ʹ 1.?,6.<7ʹ5.6ʹ >.67<..6ʹ>.ʹ . / ? 1.% ʹ.67ʹ7. / ?6ʹ>.ʹ1>?1 / .1ʹ7'47ʹ > '4>'; .% ʹ-,46ʹ<.ʹ-,46ʹ:>7.bQ5 ,1>1.ʹ?405 ;ʹ ;1,4ʹ 5.1ʹʹ6,46ʹ5.416ʹ .EE,176Iʹ / ' <7.<.0ʹ5ʹʹ#,<67 747 ,<ʹ=<.ʹ -,46ʹ<,46ʹ'-.0ʹ>,<<. .8ʹE' 7.6ʹ .@>;47.1ʹ5.6ʹ5, 68 ,4ʹ -1'J.ʹ>.ʹ-,7 .ʹ6'J.66.8ʹ .7ʹ=4.ʹ5ʹʹ1.?1.66 ,<ʹ5ʹʹ ?546ʹ ?1, / ?7.8ʹ5ʹʹ?546ʹ7.11 05.8ʹ>.6ʹ'77.<7'76ʹ>.6ʹE';7 .4@8ʹ '6641.ʹʹʹ5ʹʹH1'<;.ʹ5.ʹ0,<:.41ʹ.7ʹ5ʹʹ5 0.17>ʹ=4 .55.ʹ'7M 7.<>ʹ>.ʹ-,468

34'<7ʹ ʹ<,468ʹ>,<7ʹ5ʹʹ6,4 / a ,<ʹ '4@ʹ5, 6ʹ.67ʹ <M -'1 '05.ʹ8 .7ʹ>,<7ʹ5.ʹ0.5.ʹ ʹʹ>.Qʹʹ .7#:,<,1>ʹ>.6ʹ7>/, Ď J<'J.6ʹ?1.; .4@ʹ>.ʹ-,71.ʹ6'7 6E';7 ,<8ʹ<,46ʹ-,46ʹ1. ʹ <,4-.5,<6ʹ5ʹʹ ?1, / .66.ʹ6';1;.ʹ >.ʹ1.67.1ʹ <- ,R'05. ʹ 05. / ;<7ʹ'77';: .6ʹ ʹ-,6ʹ?1 <; ?.68ʹ .7ʹ>. / ' <7.< 1ʹ7,<6ʹ -,6ʹ>.;1.768ʹ#,<7 <4.0ʹ>.ʹ?,6.1ʹ> 4<.ʹ / ' <ʹE.1 / .ʹ5.6ʹ 5 1' 7.6ʹ>.ʹ '47,1 7.ʹ1,V'5.8ʹ ʹʹ>.E.<>1.5.6ʹ>1, 76ʹ>4ʹ ?.,?5.ʹ; ,<71.ʹ5.6ʹ;1 / .6ʹ>.6ʹ1, 68ʹ ʹ 1.<>1.ʹ?,41ʹQ'M / ' 6ʹ6,<ʹ0,<:.41ʹ <>. ?.<>'<7ʹ>.6ʹ - ;.6ʹ>ʹ4<ʹ6.45ʹ 5 ,1, / .Iʹ .76 ʹ5ʹʹE.5 ; 7>ʹ?405 =4;ʹ?.47ʹ6 ';;1, 71.ʹ>.6ʹ 8-.1746ʹ> <<ʹ0,<ʹ1, 8ʹ=4 4<ʹ#: 5?>1 ;ʹ641ʹ5.ʹ71E <.8ʹ <ʹ -.67ʹ>.6ʹ?546ʹ?.1E >.6ʹ; ,<6. 568ʹ<.ʹ?< 66.ʹQ' / ' 6ʹ>.ʹ -.< 1ʹ1.>,47'05.ʹ?,41ʹ<,71.ʹ5 0.17>% B,<,1;6ʹ ʹ<, /ʹ J5,1 .4@ʹ> ' / 6>.ʹ5ʹʹ#,<67 747 ,<8ʹ<,46ʹ6.1,<6ʹ& >.5.6ʹ '<@ʹ>.-, 16ʹ=4.ʹ; .ʹ5 71.ʹ<,46ʹ / ?,6.8ʹ<,<6ʹ.;5' 1. ʹ 1,<6ʹ5.ʹ?.4?5.ʹ8ʹ<,46ʹ54ʹE.1,<6ʹ; ,<<' 71.ʹ6.6ʹ>1, 76ʹ.7ʹ 6.6ʹ,05 J'7 ,<6Iʹ.7ʹ6'<6ʹ<,46ʹ5' 66.7ʹ'046.1ʹ?'1ʹ>.6ʹ>>ʹ <, / <'7 ,46ʹ71,?ʹ6,4-.<7ʹ 5546,Q1.68ʹ<,46ʹ<.ʹ1.J'1ʹ >.1,<6ʹ; , / / .ʹ' / 6ʹ>.ʹ5ʹʹ#,<67 747 ,<ʹ =4.ʹ5.6ʹ ' / 6ʹ >.ʹ ,1>1.ʹ?405 ;ʹ.7ʹ>.6ʹ5, 68 # .67ʹ'V.;ʹ>.ʹ7.56ʹ: , / / .6ʹ 6.45> / .<7ʹ=4.ʹ<,46ʹ-,45,<6ʹ1.66.11.1ʹ5.6ʹ5 .<6ʹ>.ʹ;.77.ʹ E1'7.1< 7.ʹ?1.; .4 .8ʹ=4ʹ'6641.ʹ>.6ʹ'? 71.6ʹ.7ʹ>.6ʹ>.ʹ E.<6>416ʹ ʹ5ʹʹ#,<67 747 ,<ʹ>'<6ʹ7,47.6ʹ5.6ʹ?'17 .6ʹ>.ʹ . / ? 1.ʹN 5ʹʹ ,:ʹ6.ʹ1>4< 1,<7ʹ>.6ʹ; 7,V.<6ʹ ' / 6ʹ>.6ʹ 5, 68ʹ5ʹʹ6.1,<7ʹ<,6ʹE1.1.68ʹ.77,47.ʹ6,; .7>ʹ=4 8ʹ6 .;'1ʹ 7'<7ʹ>.ʹ; .6ʹ?1 <; ?.68ʹ,6.1' 7ʹ?1,7.67.1ʹ;,<71.ʹ5.6ʹ>.M ;1.76ʹ>.ʹ 66. / 05>.ʹ<'7 ,<'5.8ʹ<.ʹ<,46ʹ?'1'571ʹʹ?<6ʹ > J<.ʹ>.ʹ<,46ʹ> 1.ʹ'66,; >.

H' 7ʹ ʹ '5.<; .<<.6ʹ..ʹ□ ʹQ4 .7ʹ NW

66. / 05..ʹ '??5'4> 7ʹ ʹʹ?546 .416ʹ1.?1 6.6ʹ ʹ! #ʹ >,<<.ʹ / ?1.66 ,<ʹ>.ʹ;.77.ʹ5.771.%

+ʹ %#:' / ?'J<Vʹ?1>6.<7.8ʹ'4ʹ<, / ʹ>4ʹ; , / 7.ʹ>.ʹ 5ʹʹ / '1 <.8ʹ4<ʹ41,Q.7ʹ>.ʹ>>;1;7ʹ641ʹ5.6ʹ>; ,5.6 >.ʹ / '7:>ʹ / '7 =4.6ʹ .7ʹ>ʹ:V>1,J1'?: ;ʹ>.ʹ5ʹʹ / '1 <.%

ʹ D% +ʹ% .6ʹ ʹ ʹ ʹ !

W 17% F8ʹ<ʹVʹ',1ʹʹ4<ʹ.@' / <'7.<1ʹ>.6ʹ '6?1'<76ʹ>.ʹ6ʹ / '1 <.8ʹ>,<7ʹ5.6ʹE,<;7 ,<6ʹ6.1,<7ʹ> .71.ʹQ<J.ʹ>.6ʹ; ,77;.<16ʹ =4ʹ6.1,<7ʹ,77-.14ʹ;0'=<.ʹ'<<>.ʹ>'<6ʹ5.6ʹ?15<;5?65.ʹ7 55 [

[illegible]

[illegible]

! b ʾ Y½ʾ ʾ ʾ ½

S$ʾ ʾWPʾ6 ' ʾBHTBʾ +ʾ<

"

ʾ / (ʾ ʾ

8 ʾ ʾF ʾ$

ʾ ʾ ʾ WWʾ A

½ '1.-.55 E.1.ʾ E' 7 5.;741.ʾ >.ʾ >.4@ʾ '>1.66.6.<W
-, V E. 8ʾ =<.ʾ?'1ʾ5.6ʾ71, 6ʾ ; ,1?6ʾ';5 / < 671'7 E6ʾ6.'<76''
<J.16 8ʾ ' 71.ʾ?'1ʾ5''6, ; .7.ʾ>.6ʾ / 6ʾ>.ʾ5'' #,<67 74M
7 ,<8ʾ 7'O5 .ʾ>'<6ʾ 5' / / . - .½ 5 .6ʾ ; ,<7 .< .<7
4<.ʾ'>: .6 ,<ʾ .<7 .1.ʾ '4@ʾ > ` 1.76ʾ>.6ʾ ʾ .7 9ʾ >.ʾ; .ʾ
/ , 68ʾ .7ʾ .@?1.66 ,<ʾ>.ʾ 4< ,<ʾ 5'' ?546ʾ <> 66,5405.ʾ
.7ʾ>.ʾ 5'' ?546ʾ E.1 / .ʾ 1.6,547 ,< >.ʾ6.ʾ1'55 .1ʾ7,4Q,416ʾ
½ '47,41ʾ>.ʾ5''5, ½
+ʾ <ʾ >.ʾ ½ 5.6ʾ 6.;1.7' 1.6ʾ E' 7 5.;741.ʾ >4ʾ
?1, ;7. -.10'5ʾ >.ʾ '1; -..ʾ>4ʾ 1.J / .<7ʾ>.ʾ '66'4ʾ ''
,45½ #.ʾ; ,1?6ʾ '' .5>ʾ1.J4ʾ '-.;ʾQ, .ʾ?'1ʾ5.6ʾ; 7,V.<6f
5ʾ''Q41.ʾ >.5 7.ʾ .7ʾ ,0. 6'<;.ʾ'O6,54.ʾ '' 5''7, 8
+ʾ <ʾE' 7ʾ5.;741.ʾ>.ʾ >.4@ʾ 5.77 .6ʾ ; ;1 7.6ʾ?'1ʾ / .6M
6 .416ʾ K4 66,<ʾ .7 ! '1<.1V8ʾ5 O1' 1.6ʾ>.ʾ '1 6½ ½ K4 6ʾ
6,<ʾ?1.<>ʾ .<J'J. / .<7ʾ> .<71.7.< 1ʾ''6.]E1' 6&74'71.ʾ
6,5>'768ʾ .7ʾ > .<ʾ?,17.1ʾ5.ʾ<, / O1.ʾ '' C8ʾ 6ʾ 5.ʾ >'<J.1ʾ
>.-.<' 7 / / <.<7½ ½ ! '1<.1Vʾ?1.<>ʾ5.ʾ / . / .ʾ .<J'M
J. / .<7ʾ?,41ʾ>.4@ʾ6,5>'76½ $
66. / O5;.ʾ'??5'4> 7 .7'11 7.ʾ=4 5ʾ6.1''E' 7 / .<M
7 ,<ʾ >.ʾ; .6ʾ>.4@ʾ5.771.6ʾ>'<6ʾ5.ʾ?1, ;>6 -.10'5½
+ʾ ½ 401V 40, .0.7 ?1.6.<7.8ʾ '4ʾ , /ʾ >4ʾ ; , ʾ
/ 7>ʾ> . / ?5'; . / .<78ʾ71, 6ʾ?1,Q.76ʾ>.ʾ >. .1.76ʾ=4 ʾ6,47
'>,?7.6ʾ .<ʾ; .6ʾ7.1 / .6ʾ$
ʾ ''($*e,= &(ʾ *+, + (/ +4$(' +0 $.ʾ ½$ (ʾ .+44 .ʾ -(ʾ
ʾ ' *ʾ3 $,(ʾ- (4 +3(*$(*,/ + , .$'(ʾ (ʾ-$.(3, $.(ʾ- ʾ -(4+.!ʾ
#((*,-(ʾ$½ .-(36(ʾ+ʾ+35 ('$.ʾ+ 2ʾ#.+$'' -(''+- $*$',.('' +ʾ
+$' *ʾ- ʾ'$(.ʾ +.$(! ('+.ʾ-(ʾ +*ʾ-(ʾ +ʾ½#½ .! +))/
33 4((ʾ4.('(*,((*,ʾ 4+.ʾ (ʾ-$.(3, $.(ʾ3(,ʾ - *,ʾ (ʾ '$(.ʾ
(.$*/ ' *ʾ4. (*.(./ $ʾ+ʾ4+''(ʾ4. (''(ʾ-(ʾO(*,(ʾ' ''
( ) *ʾ4 +$ʾ$.ʾ-(ʾ ''(.),((/ (ʾBH $*ʾ-(.*$(./ 8(**+*,ʾ
$+ʾ' (ʾ-(ʾWW/ I I ʾ $0 /ʾ(,ʾ' '' ('' ++,.(''3 + '(''(,ʾ3 *-$ ʾ
,$ *''.(4.$'(''(*ʾ +-$, ʾ4. ('''(ʾ-(ʾO(*,(/ʾ5 (ʾ4 ''( ) ((ʾ
+44. 0(
:ʾ ''( ) ((ʾ*+,$ *+ (!ʾ+ , .$'(ʾ4+.($ ((*,ʾ (ʾ -$.(31
, $.(ʾ +ʾ #+$.(ʾ4. 3(-(.ʾ +ʾ +- -$3+,$ *ʾ+ ʾ.+)+$'' -(''.(4+1
.+,$ *''+ʾ +- $*$',.+,$ *ʾ '(A((*,/ *,+*,/ ' $0+*,ʾ (ʾ
-(O$'' - ʾ'$(.ʾ (.$ +.ʾ#$ '/ $* #(*$(*.ʾ-(''4 *,''(,ʾ()+-'!ʾ
(('/ -*ʾWIʾ+ ʾWFʾ $*/ ʾG/BTGʾ $0 =ʾ4 .ʾ (ʾ *,+*,ʾ(*ʾ(,.(ʾ
(9+ ((*,ʾ' 44 .,(ʾ4+.ʾ (''+- $*$',.
.:ʾ ½ ''(,*) ((ʾ*+,$ *+ (ʾ.(*0 $(ʾ-(ʾ4. * *3(.ʾ' .ʾ (''.(1
4+.+,$ *''+ʾ#+$.(ʾ4 +ʾ4(.#(3,$ *ʾ -(''3+'(.*('' '5 +ʾ3(ʾ
5 (ʾ +ʾ4. 36+$*(ʾ+''( ) F(ʾ-*ʾ3 *'($ʾ-D+- $*$',.+,$ *ʾ- ʾ
-(4+.,((*,ʾ-(ʾ .-(3)(ʾ(*ʾ+$,ʾ ,(.$(.((*,ʾ-($$)(.(/
(,ʾ $$$ʾ+$,ʾ4.('(*,(ʾ-(ʾ* 0(+ ʾ'+ʾ-(.++*-(ʾ ʾ3(,ʾ(9+.-ʾ:
Q ''( ) ((ʾ*+,$ *+ (/ $ʾ (ʾ.+44 .ʾ -(ʾ\ *ʾ3 $,(ʾ
$½($$$4 +3((*,/ 3 *ʾ$-(.+*,ʾ5 D$ʾ* (2$',(ʾ4 $*,ʾ- -$$$3(''
*+,$ *+ 2½ -+*'' +ʾ0$ (ʾ-(ʾ .,+$*/ 4. 4$½('' +ʾ8ʾ(,+) $.ʾ (ʾ
3 .4'' +- $*$',.+,$#ʾ- ʾ -$',.$3,ʾ(,ʾ½(,.$) *+ /ʾ+ ,. '('(ʾ
-$.(3, $.(ʾ-*ʾ-$,.$3,ʾ+ʾ+35*(.$./+ 2ʾ#.+$'' -ʾ $*$',.('/
- ʾ'$(.ʾ + $+*9(/ 8(**+*,ʾ +ʾ' $ (ʾ-(ʾWB/FFIʾ $0 /
4.$23 *0(*+ʾ+0(3ʾ $/ (ʾ +$' *ʾ5 $ $ʾ+44+.,$($$,/ '$'(ʾ
+ -$,ʾ .,+$*/ +0(3ʾ$(''',(.+ $''(*ʾ-(4(*-+*,'/ 4 .ʾ 4 +1
3(.ʾ ('3 .4''+- $*$',.+,$#ʾ- ʾ -$',.$3,ʾ(,ʾ ('$.$) *+$7ʾ + , !ʾ
.$'(ʾ (9+ ((*,ʾ+ʾ#+$.(ʾ4. 3(-(.ʾ +ʾ +- -$3+,$ *ʾ+ ʾ.+)+$''
-('' 0.+9(''(,ʾ+..+*9((*,''$*,(.$(.''*(3(''+$$('' ʾ' .ʾ (ʾ
-(O$''(' $$ʾ*+,$#ʾ5 $ʾ(*ʾ+ʾ (,(ʾ-.('('(ʾ4+.ʾ (ʾ'$(.ʾ $''+**ʾ $ʾ/
$ʾ9(*$(.ʾ-(''4 *,''(,ʾ()+ ''(('/ ('WWʾ+0.$ʾ -(.*$(./ 4 $$.ʾ
(*,+*,ʾ-(ʾ +-$,(ʾ+- -$3+,$ *ʾ ,.(' ' 444.,(4+.ʾ ('-$,''
+- $*$',.('/
ʾ D ''(*,) F(ʾ*+,$ *+ (ʾ'(ʾ. (.0(ʾ-(ʾ4. * *3(.ʾ' .ʾ +ʾ
.(O(*,(ʾ- ʾ, ʾ *ʾ4+.,$(ʾ-(''PGʾ4(.36('' - +.-$*ʾ-(4(4D
-+*,ʾ-(ʾ +ʾ +$' *ʾ - *,ʾ$ʾ' +9$,/ '5 ½+ʾ3(ʾ5 (ʾ (ʾ-$,(3D
, $.(ʾ - ʾ -(4+.,((*,ʾ-(ʾ +ʾ +*36(ʾ'(ʾ' $,ʾ#+$,ʾ.(*-.(ʾ *ʾ
* 0(+ ʾ3 4,(ʾ-(''@(2ʾ(,ʾ(*ʾ+$,ʾ- **(ʾ' *ʾ+0$' =
W G 66. / O5..ʾ <'7 ,<'5.8ʾ '?1.6ʾ '-, 1ʾ ,4 ʾ 6,<ʾ ; , / 7.ʾ
& . / ? ';. / .<78ʾ '47,1 6.ʾ 5.ʾ > 1.;7, 1.ʾ >4ʾ >.?'17. / .<7ʾ >4ʾ
B ,10 : '<ʾ>ʾ';=4.1 1ʾ'=@ʾE1' 6ʾ>.6ʾ'> / < 671.68ʾ .7ʾ>'<6ʾ5.6ʾ
E,1 / .6ʾ?1.6;1 7.6Q\'1ʾ5.6ʾ>.;1.76ʾ>.ʾ 66. / O5..ʾ<'7 ,<'5.ʾ
\?,41ʾ5''-.47.ʾ>.6ʾO .<6ʾ<'7 ,<'4@ʾN

Baʾ C ʾ ^ < ʾ -.S

+ʾ 4+.,$(ʾ- ʾ 3$!-(0+*,ʾ3 *0(*,ʾ-('' .-($(.''-(ʾ (ʾ
0$ (ʾ-(ʾ +**('/ 6ʾ (ʾ-$.(3, $.(ʾ,$(*,ʾ+3, (((*,'(''' +*Dʾ
3('/ʾ 3(,,(ʾ4+.,$(ʾ-(ʾWEIʾ, $'(''3,ʾ,((ʾ5 ((ʾ('ʾ,ʾ-('$9*((ʾ
4+.ʾ (''-($)(.+,$ *'' - ʾWTʾ * O( ).(ʾ BHTI7ʾ(,ʾ+ ʾ4. 3('!ʾ
O(.)+ʾ- ʾ'$(.ʾ $ $+3/+.3)$,33,(/ʾ - ʾBPʾ-(3($*).(ʾ' $0+*,7
ʾWQD (ʾ *9½ - ʾ)$,$ (*,ʾ- ʾ 3-,(ʾ- ʾ +.- */ BWIʾ, $'(''ʾ
3+..((''(*0$. *ʾ -(ʾ,(..+$*ʾ4 ,$.ʾ8ʾ # . (.ʾ *(ʾ,(*+''(ʾ-(ʾ
PGʾ4$(-''-(ʾ +.9(ʾ+0(3ʾ**ʾ-. $,ʾ-(ʾ4+''+9(ʾ+ʾ ,+0(.'',(ʾ' .1
4 '' - ʾ +.-$ ʾ4 .ʾ +.. O(.ʾ +ʾ 6 ,(#ʾ - ʾ -(4+.,((*,ʾ4+.ʾ
4('3+ $(.ʾ 4 +3(ʾO(.''+ʾ . (ʾ +$*,Q .+** $'7ʾ (23(4,(ʾ-(ʾ +ʾ
4.('(*,(ʾ4(. $''$ *ʾ- +35*(.$.ʾ ('' .4 ''-('',(..+$*'' -(ʾ +ʾ
3,!-(0+*,ʾ +$' *ʾ -('' .-($(.'/ ' .ʾ (5 (ʾ (9 $'('(,ʾ (ʾ
3 $,.(' ' *,ʾ(-$#$('(/ +$*'$ 5 (ʾ +ʾ4+.,$(ʾ5 $ʾ('ʾ(*ʾ +.-$ ʾ
(*3 '
:ʾ ''( ) ((ʾ*+,$ *+ (ʾ+ $.$\ (ʾ4+.($ ((*,ʾ (ʾ-$.(31
, $.(ʾ- ʾ -(4+.,((*,ʾ+ʾ#+$.(ʾ4. 3(-(.ʾ2ʾ +- -$3+,$ *ʾ+ ʾ
.+)+$'' -(''.(4+.+,$ *''- *ʾ$ʾ'½+9,ʾ(+ʾ4. 3('!O(.6+ʾ - ʾ
-(O$''-ʾ'$(.ʾ $ + /ʾ+.3) ,(3,(/ʾ-+ʾ ʾ -(3( ).(ʾBHTIʾ(,ʾ
b .''ʾ*$O+*,ʾ/ʾ *,+*,ʾ2ʾ+ʾ' (ʾ -(ʾBP/TFFʾ $O/ BH ' /½++ʾ
.+)+$''4+.ʾ+- -$3+,$ *ʾ4*),$5 ('(*ʾ+ʾ# . (ʾ-(3.(,((/ 4 .ʾ
(ʾ *,+*,ʾ(*ʾ(,.('(9+ ((*,ʾ' 44 .,(ʾ4+.ʾ (''+- $*$',.('$
½ K'O'47 ?.6.< .ʾ?54Y.41]ʾ'17 ;5.]8ʾ5.6ʾ 4<6ʾ1. ʾ
5'7 E6ʾ '4ʾ; , / ?5. / .<7ʾ>.ʾ5''J.<>'1 / .1 .ʾ7 '7 ,<ʾ5.8ʾ5.6ʾ
' 71.6ʾ '' 5'' 1.71' 7.ʾ >.6ʾ ,E5 ; .16ʾ : ,16ʾ> >5'7ʾ>.ʾ6.1- ; .8ʾ
.7ʾ'4@ʾ / ,V.<6ʾ>.ʾ5. ʾ1. / ?5' ; .1½ & ,46ʾ1'??,17.1,<6ʾ
; .6ʾ'17 ;5.6ʾ>'<6ʾ4<ʾ?1, ; : ' <ʾ <4 / .1 ,8P
+ʾ <ʾ >.ʾ ½ 5.6ʾ 6.;1.7' 1.6ʾ E' 7 5.;741.ʾ > 4<. ʾ
5.771.ʾ>4ʾ>.?'17. / .<7ʾ>.ʾ '1 68ʾ=4 ʾ>. / '?>.8ʾ=4.ʾ?,41ʾ
5 .ʾ?'6 ; ,?E,<>1.ʾ5.6ʾ';7.6ʾ.1''<.6ʾ>.ʾ '47,1 7.?405 ʾ
=4.ʾ '-.;ʾ5.6ʾ 'E5 ; : .6ʾ>.6ʾ6 / ?5.6ʾ; 7,V.<68ʾ 464J.ʾ>4ʾ
?'? .1ʾO5'<=ʾ6, 7 .@;546 -. / .1 7 1.6.1-.ʾ '4ʾ?1. / .1½
½ ! ,457.68ʾ>->= .ʾ> <7 / 8ʾ1.5.-;ʾ; .77.ʾ>. / '<>.8ʾ
.7ʾ.<ʾE,1 / .ʾ4<.ʾ / ,7 ,<ʾ=4 ʾ.67ʾ>.;1.7..½
½ ! ,4? 7N 66. / O57 .ʾ'-' 5ʾ >;Q ʾ; : '1J>ʾ6,<ʾ; ,M
/ 7.ʾ>.6ʾ ; ,<71 O47 ,< ʾ ?405 =4.6ʾ > .@' / <.1ʾ5'' ?@Pʾ
?,6 ,<ʾ=4.ʾQ '-' 6ʾE' 7.8ʾ >.ʾ >.;1.7.1ʾ=4.ʾ7,47.6ʾ5.6ʾ
'E5 ; .6ʾ ?405 ;6ʾ ?'1ʾ >.6ʾ ?'17 ;45 .16ʾ 6;1' .<7ʾ6,4 ʾ
/ 6.6'4ʾ>1, 7ʾ>.ʾ7 / O1.½ .ʾ1.<,4-.55.ʾ5'' / ,7 ,<ʾ=4.½
Q ʾ'Eʾ 7.ʾ'5,16½
66. / O5. .ʾ ,1>,<<.ʾ '' 6,<ʾ ; , / 7>ʾ >.6ʾ; ,<71 O4M
7 ,<6ʾ?405 =4.6ʾ >.ʾ 54 ʾ1.<>1.ʾ <..66' / / . 77ʾ; , / ?7.ʾ
B.ʾ ; .77.ʾ?1,?,6 7 ,<½
+ʾ ½ / / .1Vʾ6.ʾ?1.6.<7.ʾ '' 5''71 O4<.ʾ ?,41ʾ6,4 ʾ
/ .771.ʾ '' 5''> 6;466 ,<ʾ 5.ʾ ?1,Q.7=4 5ʾ '-' 5ʾ?1.6.<7.ʾ
: .1ʾ641ʾ5.ʾ1>7' :5 66. / .<7ʾ>.ʾ5''> 6; ?5<.ʾ / 5 7' 1.½
66.7<O ..ʾ ,1>,<<.ʾ1'Q,<11 . / .<7''5''6. '<;.ʾ>4ʾ
5.<>. <4 <½
½ ½ . O ʾ ʾN <.ʾ64 7.ʾ>. . 1; ,<67'<; .6ʾ
?546ʾ,4ʾ / , <6ʾJ1'-.6ʾ ,47 .<J'J.ʾ 66. / O5..ʾ<'7 ,M
<'5.ʾ' ?1.<>1.8ʾ '' > EE. 1.<7.6ʾ ,= .68ʾ >.6 / .641.6ʾ
?4 66'<7.6ʾ?,41ʾ ''6>1.79ʾ .@7 ʾ .41.ʾ>4ʾ1>V'4 / .½ .6ʾ
/ / .]ʾ / .641.68ʾ '>,?7..6ʾ .<ʾ > E.1.<76ʾ7. / ?68ʾ ,47
<>'< / , <6ʾ .7.ʾ; , / O <..6ʾ>'<6ʾ 4<ʾ < <.ʾ6V6 / / .ʾ>.ʾ
>.E.<6.l 7,4Q,416ʾ> 1 J>.6ʾ?'1ʾ5.6ʾ / > / .6ʾ-4.68ʾ > .6ʾ
,47ʾ6.45.< .<7ʾ?1>6.<7.ʾ ?546ʾ > .7.<>4.ʾ>'<6ʾ . / ?5, ʾ
>.6ʾ / ,V.<68ʾ5,16=4.ʾ5.6ʾ ; 1; ,<67'<; .6ʾ=4 ʾ5.6ʾ?1, -, ʾ
=4' .<7,<7ʾ';=4 6ʾ ?546ʾ >.ʾ; ,<6 67'<; .½ 546 .4E6>.ʾ
; .6ʾ1.6,547 ,<6ʾ>.ʾ 66.< O5>.ʾ<'7 ,<'5.ʾ ,<7ʾH Hʾ 64 ʾ
- .6.7 .@. ; 7. .6ʾ'-.#ʾ'.7 -Q7.ʾ;7ʾ'-#;64; ; . lʾ> '471.6ʾ
,?7>7.ʾ; ,<7 '1 ..6ʾ ,4ʾ1.7' >>.6ʾ?'1ʾ> EE.1.<7.6ʾ;'46.6½
4Q, 41> :4 8ʾ=4 5ʾ .67ʾ<. ; .66' 1.ʾ >.ʾ >, <.1ʾ '' <,6ʾ
; , / O <'56,<6ʾ>.ʾ>.E.<6.ʾ .7ʾ>. :1.7.ʾ7,47.ʾ >5.<>4.ʾ
=4 ;5 .6ʾ?.4-.<7ʾ1. ; .-, 18ʾ .7>ʾ'6641.1ʾ'' ; : '= .ʾ?'17 .ʾ
, . ; .ʾ ?5'<ʾ 4<.ʾ .@. ;47 ,<ʾ ?1, / ?7.ʾ .7ʾ ; .17' <.8ʾ -,6ʾ
; , / 7Vʾ / 5 7' 1.ʾ.7ʾ> ?5, / '7 =4.ʾ;1, .<7ʾ>.ʾ- , 1ʾ / .771.ʾ
6,46½-,6ʾ V.4@ʾ4<ʾ7'O5. '4ʾ J.<.1'5ʾ>.6ʾ / .641.6ʾ>.Q''
?1 6.68ʾ .7ʾ>.ʾ5.41ʾ .@. ;47 ,<lʾ>.ʾ 5''6 74'7 ,<ʾ .EE.;7 -.ʾ
>.6ʾ E,1; .6ʾ<'5 , '5.6ʾ>'<6ʾ7,47.6ʾ5.6ʾ ?'17 .6ʾ>.ʾ5.41ʾ
1'??,17 '-.,ʾ; .ʾ =4 E7@ J.ʾ / .ʾ>.E.<6.ʾ J> >1'5.l ;7
-,46ʾ?1,?,6.1ʾ.<64 7.ʾ5.ʾ; , / ?5. / .<7>;ʾE,1; .6ʾ .5ʾ>.ʾ
/ ,V.<6ʾ= 4ʾ5.41ʾ '' ?'14ʾ<. ; .66' 1.ʾ?,41ʾ / .771.ʾ5''6E ʾ
1.5.ʾ.7ʾ5''> J4 5.ʾ<'7 ,<'5.6'4 >.6646ʾ>.ʾ7447;'75. <7.

*

.7'77.'7,47.' <=4 .74>.% ' " .7.'?546'> EE ; 5.' >.'1.J. '
<.1.1'f" E,1;.'>.' '1/ ..=4.'> .<'>.7.1/ <.1' .6?17%
" '1/ ..8' '4' / , / .<7 ,E' 1,46' - ,46' .7.6' , ; ;4?.6' >.'
6,<' ,1J'< 6'7 ,<8 >5' 7 ; , / ?,6..8 641' 5.'?'? .188'>.'
) ' / 55.' : , / <.6f / ' 6'6" E,1;.' .EE.;7 -.'< .7' 7 =4.'
>.' ' / 55.% ,46' ;1E57.6' '5,16' =4 1'64EE 6' 7 =4.'
1'1/ ..8.<5. / ?6>.?' @8E>77 @..' / 55.: , / / .68
.7 ; .67 641' ; .' <, / 01.'=4.'E47 ; , <0 <..'5" E,1/ '7 ,<'
=4.' - ,46' '>, ?7>5.6% 55.' E47 > ' 55.416' > 6?,6..' >.'
/ '< E.1.' " 6.'?1>7.18 .<'7. / ?6'>.' J4.11.8 '4<' '; ;1, 6G
6. / .<7 >.'>.4@ ; <=4 . / .6f 5" <,4-.55.' ,1J'< 6'7 ,<'
>.' '1/ >.'6 .@.;47=>'<6'6,<' . 7 .1%
4 / , 6'>.Q'<- .1'>.1< .18 5.6' ; , / 7.6' / 5 7' 1.' .7
> ?5, / '7 =4.' ;141.<7 >.- , 1' '11>7.1' - ,71.' '77.<7 ,<'
641' 5.6' ; 1; ,<67'<; .6' .@7.1 .41.68 =4 ' .@ J.' .<7 =4.'
5.6' E,1; .6' <'7 ,<'5.6' E466.<7 ?,17..6' " 4<.8 / '66.'?546'
/ ?,6'<7.8 .7 5' E47 >.;1.7.' 641' 5.41'1'??,17N G =4.'
' 1>J / .<76' > <E'<7.1 .' .7 C ' >.' 71,4?.6' " ; :.-'5
6.1' .<7 ?,17>6' '4'? .>'>.' J4.11.' f $
CD 3 4 5' 6.1' 7 ?1 6' >.6' / .641.6' ?,41' ?'1-.< 1' 2
,1/ .1'4<.' ; ,<6;1 ?7 ,<'>.'6,5>'76' '4@ 5 ' 1.68 >.67 M
<.6' " >71.' ; ,1?,1.6' >'<6' '1/ ..' '5.'0.6, <' .@ '
J.' 7f
D34 ,<'6 '6641.1' 78 .<'15 55.1 .' .7 .EE.76'>.' ;'1' '
?; / .<78 >.'7,<6' 5.6 / ,V.<6<>; .66' 1.6" 4<6V67> / .'
>.E.<6 E% '<6' 5.' /E / .'1'??,17Q.'-,46' '?1,?,6.8 '4'
<, / '>.6' ; , / 7>6' > ?5, / '7 =4.' .7 / 5 7' 1.8 4<'?5'<'
>.' ; ,<6;1 ?7 ,<' ;7 E5 ,1J'< 6'7 ,<' ?,41' ' / 55.'
J'1>.6' <'7 ,%<'4@ >.67 <.6' " >71.' / 6' .<' '.7 - 7>' '4'
/ , / .<7 , 5' 5" 641.7>'>.' 7'7 .@ J.1' 7f ; .57.' / . '
641.' E47 '5,16' 'Q,41<..% .6' ; 1; ,<67'<; .6 <' '-' .<7
>>7.1/ <>' ; .6' ?1. / .1.6' / .641.6' 'V'<7 ?1 6' 4<' ;'1' ; '
7E.1.'?546' J1'-.8'1 66. / 5>. '7 ,<'5.8 641' 4<'1'??,17
=4 '54 ' E47 E' 7 5.' C(' '- 5'>.1< .1'?'1' % H1.7.'48 '4'
<, / ' >.6' 6 @ ; , / 7. 68 '> ?7" ; .77.' ; ,<6;1= 7 ,<8 .7
>. ;1>7" >.'?546' =4.'7,<6' 5.6' 1.J / .<76'>.6' &4EE.1.<7.6'
'1/ .68 . / ?5,V>6' 641' 5.6' E1,<7 .1.68 6.1' .<7 ?,17.6' '4'
; , / ?5.7 >.' J4.11.8 .' '66 J, " .<' / > / .'7. / ?6' 5.6'
E0<>6' <.; .66' 1.68 7'<7 ?,41' 5"5.-..' .7 .<71.5 .<'>.'
; .6' > EE>1.<7.6' 71,4?.68 =4.' ?,41'>7.<>1.' 5.6' ?1>; '4 '
7 ,<6' 1.5'7 - .6' " 5" 1.?'1'7 ,<'>.6' ?5' ; .6' E,17.6' .7 "
7,47 ..'=4 ' ?.47 '6641.1' 5" >.E.<6.'>.6' E1,47 >1.6%
#.6' > 6?,6 7 ,<6' 1. ; .-' .<7 E.41' .@. ;47 ,48 5,16=4.'
>.6' .-.<. / .<76' '466' J1'-.6' =4 / ?1. -46' ,<7 -.<46'
; :'<J.1' " E' ; .' >.6' 'EE' 1.6' .7 ,<7 E @.'5.6' 1.J'1>6'>.'
7,47.'5" H1'<; .% 5,16' 5.6' >'<J.16' ,<7 ?'14'6 'JJ1'-.1f
/ ' 6' '5,16' 5.6' E,1; .6' 6.'6,<7 ' ; ;14.6' .7 / 457 ?5 >.6% "
<'7 ,<8 1. -. 55>.' ?'1' ; .77.' 6. ; ,466.' / ?1. -4.8% "
/ ,<71>' >'<6' 7,46' 6.6' / ,4-. / .<76' 5" ?546' / ?,6'<7.'
4<'< / 7.%#.' / , / .<78 =4 ,<;1,V' 7>71.'5.'6 J<'5'>.6'
>.6,1>1.6' .7 >.6' > - 6 ,<68 " 1>4<'7,47.6' 5.6' ! ' "
/ '< E.67>8 6,46' 5" ; ,<7.<'<; .'5" ?546' ; '5 / .' .7 5" ?546'
E >1.8 5"1.6,547 ,<' ?1,E,<>.' .7 5" - ,5,<7>' <-'1 'O5.'
>.'5" <'7 ,<% .6' ; ,1?6' / 5 7' 1.6' =4 '6.'6,<7 71,4-.6'
" ?,17..'>.'1 66. / 07..'<'7 ,<'5.' <7 / '< E.67>8 >>6'
5.'?1. / .1' / , / .<78 5.41'>.-,EE / .<7 " 5" # ,<67 747 ,<'
;7 " 5" 6.45.'?4 66'<; .'=4 '?478 .<' ; .6' , / .<56' ,1' '
J.4@8 - . 55.1' ?,41' 5.'6'547 >4' ?.4?5.% .'?1. / .1' ,E '
5 ; .1'J><.1'5' >.6' 71,4?.6 64 66.6' - ,46' " ?,17.' '664 '
1'<; '>.'5" E >.5 7>' >.'7,46' ; .4@ =4 '6.1-' .<76,46' 6.6'
,1>1.6% <' J.<>1'5' E1'<; ' 68 ; . .01.' ?'1' 6.6' 64; ;>6'
A / 5 7' 1.6' >' 6' 5" ; '46.' >.'5" 5 0.17>8 .67 - .<4'>.'6,<'
?1,?1.' / , - . / .<7 Q41.1'>.' ; , / 0'771.'.7 >.' / ,41 1'
?,41' .55.f .7 " Q467 E >8 ?'1' ; .7 ' ;7.' >.' ; - 6 / .'8 5"
; ,<5 '<; .'=4.'6.6' 6.<7 / .<76' ; ,<<4654 ' '-' .<7 >.Q"
/ .1 7>.% .' 7,47.6' ?'176' - ,46' 1. ; .- .0' >.6' > / , '
J<'J.6' >.' ; ,<5 '<; .' .7 >.'0.5.f .7 >>Q 8 ?'1/ '5.6' '6M
641'<; .6' >.'E >>5 7>' =4 ' - ,46' >7' .<7 ?'1 .<4.6'8 - ,46'
; , / ?7 .0' ; .55.6' >.?546 .416' ; ,1?6' >.71,4?.6% 'E'55' 7
1,46' '6641.1%>.' ; .6' > 6?,6 7 ,<6' > 4<. / '< >1.' J. <>'
1'5.N 5' E'55' 7 E' 1.' ; ,<<' 51.' ;5' 1. / .<7 " '1< >.'
E1'<Q' 6.' 5.6' >.-, 16' =4.'54 ' / ?,6' 7 5.'6'547 >.' 5"
?'71 .'>'<6' ; .6' ; 1; ,<67'<; .6'
.5' " >7.' ,0Q.7 >4'6.1 / .<7 >.;1>5>' .7 =4.'>.6' ; , /)

/ 766' 1.68 ?1 6' >'<6' - , 1.'6. 758 ,<7 >7>'1; ; .- , 1'>'<6'
7,47.6' 5.6' E1,<7 .1.6 / ?,17'<5.6% #.57.J-'<>.' / .647.'
" >7>' .@>;47>.' '-.;'4<'?5. <'64; ;.6% .6' / 5 7' 1.6' =4 8
>'<6' ; .' / , / .<7 > > / ,7 ,<8 < ,<7 ?4'E' 1.' " 5" ?'71 .'
5.' 6';1 E ; .'>.6' ?1>Q4J>6' =4 ' 5.6' 7.<' J<7 .<; :'5<.6 8
6.'6,<7 >5, J<.6' > .4@ / > / .6f .<'6.'6>?'1'<7 >.' '1 '
G / >.8 5 .<' ,<76,4651' 7 4<'J.1 / .?.1?>7 5.5'>.' / >5 '<; .'
.7 >.'71,405.6f 7,46' 5.6' '471.6' ,<7 ?'14'6.'1. ; ,<; 5 .1'
6 <; .1. / .<7f .7 '4<.'-,5,<7>'6'J.' .7 E.1 <.' ; ,<7 <4.'
" > 1 J.1'5.6' 1.6,547 ,<6' =4 '6.1,<7 ?1 6.6' 641' '/ ..1'
6 8 5 ; , / ?7.1'>.' ; .' / , / .<78 4<.'Q467 .E.'.@';7.' .7 / '
?'17 '5.'?4< 7 >J'5. / .<7 7,47.6' 5.6' FE'45.6f ?.47 >71.'
5" J1'<>.' ;1 6.'=4 ' - .<7 >.'6.'E' 1.'6.<7 1' '41' 7 .55.'
6.1-' " 1>7'O5 1' :'1/ ,<.' .7 5" > 6; ?5 <.' ?'1/ '5.6'
8 71,4?.68 ; , / / .' .55.' " 6.1-'2'1'EE.11' 1' .5 6417,47 2
; ,<67'7.1'5.' ; ,41'J.'.7 : '1/ ,< .'>.'7,46' 5.6' ; 7,V.<6%
' ; .6' / ,V.<68 ?1 6' ? 41' 6G'6641.1'>.6' > 6?,6 7 ,<6' .7
>.'5" E >.5 7>' >.' '1/ >.8 66. / O5..'<'7 ,<'5.% " >E7
1>4< 1' ' / ,V.<6' ?1,?1.6' " .<' '4J1' .<7.1' 5.6' E,1; .6%
" ?1. / E.1.' ,?>1'7 ,<% >7' 7 >.'1. / ?5' ; .1' 5.6' ,E 7; .16'
=4 '6 .5, J<.1' .<7f 5' >7' 7 / ?,17'<7 >.' 6' 6 1' ; .77.'
; ; '6 ,<'> <71,> 1.' >'<6' 5" ; , / ?,6 7 ,<'>.6' ; ,1?6'
4<' <,4-.5' >5> / .<78 .7 > V > ,<<.1'?,41' '?24 ' " 5"
,<67 747 ,<' 5.6' E,1; .6' 1>4< .6' >.' 5<7.1>7 .7 >4' ?' '
71 ,7 6 / .% ,46' '-.0'>,<.'-,454' =4.'5.6' ?5' ; .6' > ,E5 '
; .168 =4 ' - .<>1' .<7 " - '=4 .18 <.'E466.<7 ?'6' 1. / '
?5 .6' >'<6' ; .77.' ; 1; ,<67'<; .'?'1' ; .4@8 =4 ' V' '<1' .<7
>7>'??.5>6?'1'5" : .1'1 ; : .' / 5 7' 1. ' / ' 6'?'17'J. .6'
.<71.'5.6' 6,46 ,EE ; .16' .7 >.6' ; 7,V.<6' >,<7 5.6' 6.<7 7
/ .<76' 641' 5" 1.-,547 ,<'<.'?466.<7 .71.'>,47.4@%
5' E'55' 7 >,<<.1' " '1/ ..'7,47.' .7.<>4.'>.6' E,1; .6'
=4 .55.' >7' 7 646; .?7 O5.' >.'1. ; .- , 1f - ,46' '-.0' ,1'
>,<<>'=4.'7,46' 5.6' 1>J / .<568 >.'7,47.6' 5.6' '1/ .68
E466.<7 ?,17>6' '?' ? .>' >.' J4.11.% .'<, / 01.'>.6' J>'
<>1'4@ < >7' 7 ?546' .<'?1,?,17 ,<' ' .' ; .77.' / '66.'>E7
E,1; .68 - ,46' .<' '-.0' ' J / .<7>'5.'<, / 01.' ' =4'71.'
5 .47.<'<76 J>4>1'4@ .7 >,40.' / '1. ; :'4@ >.' ; ' / ?%
,<; 411. / / .<7 '-. ; ' ; .6' > 6?,6 7 ,<68 >.6' ' '
>7>' .<-,V>6' >'<6'5.6' > EE>1.<7.6' ?5' ; .6' >.' J4.11.8 ?,41'
?1.66.1' 7.6' 71'-'4@ 5.6' ?546' <67'<76' .55.'1'66. / O5. '
/ .<7 >.'7,46' 5.6' / ,V.<6' 1''7.1 .56' >.'>.E.<6.% .Q5.6'
,<7 5.6' / .641.6' ?1 6.6' Q46=4 " ; .' / , / .<78 1.5'7 -.'
/ .<7 " '1/ ..'>.'5 J<.% , >' ; .55.6' =47 - ,46' '-.0
'>,?7>.6' 641' 5.6' J'1>.6' <'7 ,<'5.6' %G " ; ,<6;1 ?7 ,<'
'-' 5' >7>' ,1>,<<..'5.' '-1 58 641' 5.' 1'??,17 >.'
% H1.7.'4% 5' " E'554' ,1J'< 6.1' ; .6' E,1; .6% ,46' '-.08
>. ;1.7.'=4 .<- 1,<' ' / 55.'O, / 1'.6' 6.1' .<7 E,1 / .6'
641 5. ; : ' / ?' .<' ; , / ?'J< .6' .7 .<' O'7' 55,<6% ?1>6'
'-, 1' ,1J'< 6.' ; .6' E,1; .68 <,46' '-,<6>4' ; , / / .<; .1"
.<'> 6?,6.1' N >.Q" C9' / 55.' : , / / .6' ,<7 >7>'>.67 <.6' '
; ,<; ,41 18 '-.;'5.6' 71,4?.6' >.'5 J<.8 '5" >.E.<6.' '
E1,<7 >1.6' >4' ,1>% .6' >>.1.76' =4 ' ,<7 >.7. / <>'5.41'
>.67 <'7 ,<' ,47 ?,41-4' ' 5.41' '11'. / .<7 .7 " 5.41'
6,5>.% .5 .67 .@?,6.'>.6' 1.6,547 ,<6' 64; ;.66 -.6' =4.'
- ,4 ' '-.0' ?1 6.6' ?,41' ' ; ;1, 66. / .<7 >.6' E,1; .6' <' '
7 , / 5; 6' .7 5" >.E.<6.'>.' 7'7%
.'>, 6' / ' 7.<'<7-,46' > 1.' ,4' .<' .67 ?,6 7 - . / .<78
>'<6' 5.' / , / .<7 ' ; 74 .58 1.@. ; 7 ,<'>.' ; .6' > E .1.<7.6'
/ .641.6% '1/ ..'=4 '6.1" ?,17..' 'C ' / 55.' : , / / .68
5,16=4.'-,6' >.1< .16' >>.1.76' '41,<7 1. 4' 5.41' .<7 .'
.@.;47 ,<8 >7' 78 '4' >.1< .18 ' U9 / 55.
: , / / .6% #.'< , / 01.'?,17.' 4<.' '4J / .<7'7 ,<'>.'-'
1,<' ' / 55.' : , / <.6' >.?4 6' 5.' / , / .<7 >.' ,1J'< '
6'7 ,<'>.' '1/ ..8 ,4' 5.'1. ;147. / .<7 " ; , / / .<; .f
.7 .55.' ?'1' 71" ; ,<6 >.1'O5.8 6' ,<' 1>E5.; : 7 =< .55.'
.67 .:'646' >41. / ?5' ; . / .<7 >.6' ; , / / .6' =4.'5.6' 1.J M
/ .<76' ,<7 ?.1>46' ?'1'5.6' >.6.17 ,<6' .7 5.6' <, / 01.4@
8 ; ,<J. 6' ; ; '6 ,<<>6' ?'1 .6' 71,405.6' >.'1'1 / . .f =4.'5"
/ '66.'> : , / / .68 ,1> <' 1.1, .<7 1.;1 7>.'?'1' 5.6' ,E'
E ; .168 " >7>0. '4; , ?' / , <>1.=4 ' 1,1> <' 1.f .7
=4 .<E <; .7#.'4J / .<7'7 , ' ; ,<; ,4146 / 457'<. / . 7
'-.;'5" E,1 / '7 ,<'>.'5" J.<>'1/ .1 .'<'7 ,<'5.% 34'<7
'4@ J'1>.6' <'7 ,<'5.6'Q ,1J'< 6'7 ,<' ' 0
; 47.'>% <6' 7,465.6' >><'17. / .<76' - . ;'4<.' .@71> / .' ;

- 5.% , ; '=4 .55.'.67 5''6 74'7 ,<8 =4'<7 61'@ / ,V.7 6 / ' 1 .568 641 5.6=4;56 5 < ?,17.'>'<7'<7 ?546 >.' >,1 <.1 4<.';,<<' 66'<;.'?,6 7 -.8 =4.>'-.16.6;'46.6 6.'6.<7 1.4< .6 ?,41 ?1.6.<7.1''; .7 . J'1> >.6 <6714;M 7 ,<6 <.@';7.68 .7 =4 5 .67 -.1 7'05.'=4.'?1.6=,.'7,<6 5.6 ,0Q.76 =4 ;,< ?,6.<7 ;.77.';5'66.'>.' , , .<6 >.' E.<6 E6 6.<7 >'<6 >7'7 5.'?546 1'6641'<7% .' 5.6 > - ' 6.1' '.<=4'71.'?'17 .6 ?1 <; ?'5.6 I D 5.6 1.?'1'70<6 >.6 ?5';.6I OD 5.6 .EE.76 >.';'< ?. / .<7I D 5.6 6406 6' 7'<;.6I UD '17 55.1 .%

34'<7 '4@1.?'1'7 ,<6 >.6 ?5';.68 5.6 :4 7 / 55 ,<6 ';;,1>.6 ''>.4@ .?,=4.6 > EE.1. 7.6%?'1 66. / 05..' <'7 ,<'5.',<7 .7.'1.?'17 6 .<71.5.J. < ..75 '17 55.1 .8 .7 56 ,<7 >7.'. / ?59V. 6'' > -.16';;'76 .7 '4@71'-'4@ 5.6 ?546 <67'<76% ''=4'<7 7.' / / .<6.'>.6 ?5';.6=41 ;,4-1.<7 <,6 E1,<7 .1.6 1.<> ?1.6=4.' / ?.1;.?M 7 05.' ;.7 . / ?5, '>.'E,,>6I / ' 6 5 <.E'47 ?, <78641 5.6 '??'1.<;.68 6.'E' 1.'4 ,.E'466.' >..'>.'5''6 74'7 ,< >.'<,6 ?5';.6 >.' J4 .11.I =4.5=4.6 >.J1'>'7 ,<6 .@7. '

.41.6 < '57.1.<7 ?, <7 5''6,5 > 7> >.'5.416 / ,V.<6 >.' >.E.<6.M 5.6 71'-'4@=4 >, -.<76 .@.#47.1'4 / , / .<7 > 4< 6 .J.' >.?.<>.<7 >.' 5'' E,1;.'>.6 J' < 6,<68 .7 ;.77.'E,1;.'4 .67Q.7. .'>'<6 4<.'?5';.'=4 '4 / , / .<7 ,< .55.'.67 / .<';>.% ,46 -,46 ?1.6.<7.1,<68 ''5''5 < >.' ;.'1'??,178 5.6 / ,V.<6 >.'-,46 '6641.18 > 4<.' / '< .1.' ?1, / ?7.' .7 ?,6 7 -.8 >.'5'' 6 74'7 ,<';74.55.'>.'7,47.6 ('?5';.6 >.' J4.11.8 .7 > VE' 1.' .@?;47.1 5.6 71'-'4@ =4 '?,411' .<7 971.'<.;.66' 1.6 '' .41 >.E.<6.% .'-' 6 -,46 >,<<.1 5.6>7'76 -.1 E .6 .7 6 J<.6 ?'1 5.' / < 671.' >.' 5'' J4.11.8

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,+,' -(" (##(," -(' 3+ 4((*,'5 $ (2$',(*,' -+*" (" 4 +3(" 3$!=+4.('/ -(4 $" *Y(.5 (' '5 + *+3 7 '+0 ./

(4 $" *Y(.5 (' '5 D+! + ('(' $ ('(',! *$ - (#% #(," -(' 3+*$4((*,'4 .'WF)+,+$ $5*" ' .'$(' 4$(-' -('9 (..(' Y HXI') ('/ 4 .' T ('3+-. *" '*.' (' 4$(-' -('9 (..(/ \ BHI' 6 ('; , ,+' -(" $ (" 4 .% ('5 (" (" (##(," -(' 3+ 4((*,'(2$',(*,/ BT/GPI' 6 $*('' V + (*3$(**('/ ')+!' ,+$ *'/ T ('3+-. *";T/IPI' 6 ('

(4 $" + ('(' '5 + "$,36((,U ' *, (-8/ BW)+!' ,+$ *'/ BW ('3+-. *"; BB/IFI' 6 ('

(4 $" "$,36((,' +*-+ ' '5* + "(# .,' ,.+') .9/FW)+!D ,+$ *'/ PI' ('3+-. *'; P / II' 6 ('

(4 $" "(# .,' '5 + *+3 ' "('+*3 */ G ('3+-. *'/ / C '6 ('' V .(*) (/ W)+,+$ *'/ B/XII' 6 (''V % 8 */ F)+,+$ *'/ P ('3+-. *" 7 P/XBI' 6 ('7 , ,+*2/ TF)+,+# *'/ GT ('3+-. *'/ EW/WPI' 6 ('

(' -$.(3, $.(' -(' .6+)$ ((*,' #+$,' ('4(.(.'5 (' 4 .' (' BX+ ,'$'(2$',(.+' -+*" (" +9+'$*" -(' $ (/ (,U (,' ,.+'=) *.9 -(" (##(," -(' 3+ 4((*,'' @$'+*," 4 .' P +. ((" -(PI/III' 6 (" 3)+3 *(

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$0.('' V + '$, +,$ * -(" +9+'$*" -(" 0$0.(" 4.('(*,+$,' + ' ' $* -(" +44. 0$'$ **((*," ' ##$'+*," + *4 +. ((' -(' FII' $ (' 6 (" 4(*-+*,' G $';' 3(" +9+'$*'/ + ' *).(' -(' BPP/ ' *,' .(4+*-+" 4+.'(36(*" ' .' (" #. *!' ,$(.(" (,' (" 3 ,('/ -(' +*$(.(' + 4 0 $.' ' + $ (*,(.' -(' 4. 36(' (*'4. 36(/ '+*" + +$" . (*'4$(*-.('' .' +')'$'D' ,+*3(' -(" 6+)$,+*,'

..+9('' V + '$, +,$ * -(" +9+'$*" 2 # ..+9(" 4.(1 '(*,(' -(" +44. 0$'$ **((*," '$,##$'+*," + PI' $ (' 36(0+ 2' 4(*-+*,'5 +,.(' $'7 3,'3 *,(' 4+., ,' (" # $*" ' *,'#+$#'/ +44. 0$'$ **((*,''(.+ 4 " 5 (' -) (' - 3 (.'3 *!' ' +,$ */ +*' 8(* -(" +36+," .- **('

(,.#,' -(" +44. 0$'$ **((*," (2$',+*," + 'Z&M $*/ (*' 0$0.(" 4 .''$2' $'/ (* # ..+9(" 4 .'F $'' V (" +!' 9+',*" -(' *Y(.5 (' \ $0(,' 4(*0(*,''$ ..$.' TF/HHP 6 1 $*('/ P/PII' 36(0+ 27 -(' $0(,' + "$#3) (/ OBW WWH 6 ('/ / III' 36(0+ 27 -3 "$,36(' 2 " (# .,/ XI/ ' 6 ('/ H/EII' 36(0+ 27 -(" ' .,' ' *,$)(" (,' -+*" ('.(',(' - '. 8+ (/ BFI/GGG 6 ('/ H/TII' 36(0+ 2' ,+ 2/ PIP/GIG $ (" (, PI/III' 36(0+ 2D $* '$/ $* -(4(*-+ (*,' -(" .('' .3(" 5 (' 4. (,,(*,' (" .(3 ,(" (*' , ,'9(*.(/ $' (2$',(' -+*" (" +9+'$*'/ -(4 $" *Y(.5 (' '5 %+ "($).,/ -('5 $* .!' .$.' WXP/III' 6 (" (,' WW/III' 36(0+ 2' (' 3(" 4 $*," 4+.+$''+$(*,' (" 4 " (*+3('D' *' (" +' +44. 0$'$ **-" +*!

)'(.0('5 (',(".(3 .,(" (*' # ..+9("+8+*,'(,('9(*(.+$((*,' +) *-+*,('/ (' 3((" (*'9.+$*" - **+*,' (" ((" ('4(.+*!' 3('/ $' * 8' + .$ (('4(3(' - $*5 $(. -(' ' +0 $.' ' ') (,' -(" ')'$',+*3(;' + + " (' - 4+.,((*,' -(' + 9 (..('*%+ (,(' + ''$.$36(' -+*"3(,,(' 4+.,$(' 5@D$B (','+3, (((*,

5 $4+9(" -(' 0$0.('' V B/WII' 3+$'' *" 4 .' 3 '(.0$3(' -(" 0$0.('/ (,'9+.*$" -(' (."6+.4+$'/ 0$(**(6,' -%(,.('3 *',. ," '.(4+.(" + + 4$9*8/ (,' *,'4.(," +'(.0$.7 $ " 4 *.. */ (*'3+" -(') (' $*/ (,.('3 *- $,"4+.' -(" 36(0+ 2' - '4+8'' $ 3(4(*-+*,' (" 3 .3 *',+*3(" -(0(*+$(4,'4 " 3.$,$5 ('/ $' '(.+$,'#$(3('#+$.% ' - 6 6(,(.' -(" 36(0+ 2' 4 .' ('(.0$3(' -(" 0$0.('' U(' 4(*," 3+$'' *" #(. 6,' ('(.0$3(' -3 -(2' +.!' , ((" -('PI/ II' 6 (" 46+(*(%/ (,'(2$9(. *,'(*0$. *' F/XII' 36(0+ 2'

#$-4 ,+ 2' +) +*,'' V ' (2$',(' -+*" (") -4 ,+*2 -(' (,U/ $ (' (,' ,.+') .9/ -(" +444. 0$'$ **((*," 4 .' ,. $" +. $(" -('PI/III' 6 (" 3)+3 *(/ '5 (5 (") (," 4.('/ - *, + # .*$, .('(',' .- **((D' $*9,-*5' 3+$'' *" 5 $ 0$(**(*,' - ,.('3 *',. $," ' .(4+.(" -+*" 36+3 * -(3(" ,. $" 6-4$,+$$2' ' # $. *,' + ' '(.0$3(' -(' ,. " +. $(" -(PI/III' 6 (" 36+(**(' +*,'+ 2' # 3$(." -(' '+ (/ '(','

$* ,$ (' -(' 'D(* 3(*4(.' ' +0+*3(/ ("9.+*-") 4$,+ 2 (*' # .*$. *,!' #$$'+ (*,/ (,' D * 4(*,'(*3 .('8''*44 ((.'4+.' *' .) $2' + #+$.('4+. $ 3(2' .- ..+(" (*' BHEE

' ' ' ' '0

.'(*+ 2' -(' 3 *',.+3,$ */ V ' (',' -$## 5$ (' -(' (, .(' 3" +.'(*+ 2' -('3 *',. 3,$ * -+*" * '4 "9.+*-(' +3,0,(5 (' 3(('5 D * (.' - **(';' (" 4 +*" -(' 4.($(.(/ '(3 *-(' (, ,. $'$((' $9*(' .(5 $0(*,' 33(' '$0((*,', " ('+# -,,.(,' +,,$.+$ "*(3(''+$.(" ' (.' -(#(*('('K

*-(.$('' V BB + (,(' .- **(' -+*.' (" -(2' # *-(.$(" PPT)(*36(" + #(' ' (' .('5 (' (' # *-(.' -(' +8' (* $0.(/ -$('' ' *,' .-(!(#++ 4' (*0 8((" -+*"3($(+ -(" 4 +1 3(" 0 $'$*(" 5*$ (* *,')(' $*' +*,' ' + # *-(.$(' -(' ,.+') .9/ ((' ('+''(U)$(6 +44. 0$'$ **(('(*'33'9(*.(/ 4 .'5 * (*',$.(' *3(''+ (*,' -(") ()(" + #(' 4 .' +. (.'(" 4 +3(" -' $-$ -(' + .+*3(

+*,$#+3, .(" - +. ('' V '.$ + (,(' .- **(' -+*" (" ,. $" +* #+3, .(" - +. (" (2$'$+*,(" 5 (' FW $$ (' # '$ '/ 4+.3(' 5 (' 3D(f,' + (' .('- ',.+0+$'5 (' (" ##$3$(." ' 4(.$(." -(' +.,$ (.$(' *,' .(3 ** ' *3(''+$.(' -%(,+) $.'4 .' *(' #+).$!' 5 (.'5 (' -(') **(" +. ('7 +$I' 4 .' (23$,(.' (* +,$ *' -(" (*,.(4.(*(' .'/ (,' (" (,,.(' (*' (,+,' - (' .+44(.(' '((,.+0+$' (" +0.$(.'5 (" +44+,' 4 '" (' - $'+*,' -(" +. (" -(' 3 (.3(' (*' +0+$,' -(,' -(' 4+ (' (.'(9$(' -(" 4.$ (' ('7 '+0 $./ -(' BI' " 4+.'# '$' 4 .' (' P& $$ (' (23(-+*,' + #+1).$3+,$ * *' .-$*+$.(' -(' BW $$ (' +. ('7 WI' " 4 .' (' BFD (7 PI' " 4 .' (' BXD/ (,' *." BI' " (6' " 4 .' 36+5 (' +. ('5 $ =23(-(.+ (' *).('-(' BX $ (' * 'D+-!' 3 4(' (*3 .('-(' #+$.(' *,(.' *(' + ,.(' +* #+3 ,, (' % +)+.$,(!' .! $.(7 3(4(*-+*,'e+ #+).$3+,$ *'6('4 ..+'3 !' (*3(.'5 ' + #$* -(' +**((/ + ' 4$4" ,-,' * 4.(*-' (*' $ (,(4" -('.+(' .(" 4 .'#+$.('#+).$5 ('.'HW $ "+.*,(" + $(9(/ - *, + 0.+$' *''(#(.+ -(' $" (' $'/ + .+$' *' -('G $$ ('

-.('' V '(2$',(' -(+/ -+*" (" +9+'$4" -(' +.,$ (.$(/ (*,.('' + ('WI' $ $ * ' -(' 4 *-.(7(,' *' (*' + ('(,,('+*!' 6 (/ -(' + .(9$(/ FII' $ $(.(" (*0$. */ 5 *' #+$' .(4+.,$' -+ " (" 4 +3(' 5 $' (' +*5*(*,

' .9('' V + ($*('+3,$0$,(' .(9*(' -+*" (" # .9(" ;' *' 8 + .- **(' *('# .'9.+*-('5 +*,$(' -() (,'/) (" ') '/ - *,' + #+) .$3+,$ * (,(*(' *,'0 *,*3((/ 5 % *' ') $9(' -(' (.- '$$(' -(* 0(+ 2' .-." 4 .' 8(' " $' *(" - (' + .(# .9(" '5 %+ + " * -(' .+** T

5 $4+9('' V ' (2$',(' -+*" (" 4 +3(" -(' +8/ ..+'/ + (..(/ (,U/ ,.+') .9/ *2 **(/ 8 $$/ .(*) ('(,' .,!"+..+ ,/ B/WWG)(*36(" + #(/ +0(3' , (.'+ ,.+$' (,' *$,$ *'/ 4 .'# . ('$2' 9.+*-" 5 (' 5 $4+9('/ - *,' ,. $" -(3+ 4+9*(',' ,. " $" -('$(9(/ + + $,(' -(" +. ((" 5*% *' 4 ..+$,' ,.(" ' *-(*+$.('(*' -($#+$.(.' (*,$+ +* 3(" -(' #+$.(' +.3 *4+9 ('*,$+ *',,' 4+.+$,' +*3*+(' (*3 .(' -(4(*- *,' (" 5 +,.(' ' 4(,$,(' (*,.(4.(*(' .'

(5 $4+9(" -(',$*('+((" -(#$*-(.(' .(" 3 (" 3(" - '. 8+ (44. 0$'$ **((*,' + *,' ,.(" 9.+*-(" ((" ,.(" -('#+).$3+,$ * ' (*'4 .'(3 *-(.' 3(2' ,. $" (. ' 8 + ' $* ' 8+ (" 3(" -(" 8.(*((' .$(*,('/@+ ,(" (,'"+''('/ 5 $ *('*'$ (,'4+" +. ((" "3 *0(*+) ((*,' ('+$$$ (.$(' +4 . -(*3('0 +$,' 5 (' *4 .,+ ,(" * 8(*-(4 .(#(.(*3(' .(" #. *,$(.(' + .$3+$*(" .-/ -(" .-** ('/ -(' + #' (,'+ '"+'!' "6$*/ -(' '(.(/ ('@+ ,('! 4(" (, ' + .4+.3(5*' ((" *,' *. "(,(.(9+$%-((" 3 ('4 "(24 '(('" + (*(' $ 5 ('3($('-(' '4+9*(/ - *,*+ .(3$,+,$ *' $* $+0+$,

5.'6<; ; 6% .' / , / .<7 , 5'<,46'6, / / .6 .674< / , / .<7
.@71' ,1> <' 1.I 5.6 6.;?<66.6=4 ">?1,4-7E.6 '1/>.8
5"<.;.66 7V > V1' / .<.11,1>1.%5'<` .66 7>>.? .66.1 '
.7 > .EE.;54.- ;;77.' / ?,17'<7.' 1>6,547 ,< =4.'<,46
-,46 ?1,?,6,<6 67 1 5.6 J'1>.6 <'7 ,<'5.68 P.0.6, <>.'
?5';.1 ?'17,478 >'<6 ;.6 / , / .<76 >.';1 6.8 4<.'641 I
-. 55'<;.'';7 -.' .7 4<.''47,1 7.' 1.6?.;7..8 .7 >.'1.;. '
-, 1 >.6 <6714;7 ,<6 .@';7.6641 7,47 ;.' =4 ' ?.<7% 7 '
7.1.66.1 5.'6'547 ?405 ;8 <,46,<7 E' 7 ?.<6.1 =4 44<,4 '
-.5 .<-, ' >.%;, / / 66' 1.68 ?1 6 >'<6 5.'6. / >. 6 '
6. / 05>.'<'7 <'5.8 7' 7 '06,54 / ;<7 <> 6?.<6'05.'7'
64;; '>.6 / .641.6 =4.'<,46 1,46 ?1,?,6,<6% '-'<'
7'J.'>.';.' / ,V.< <.' 6.' 0,1<.1" ?'6 " .< E'-,1 6.1
.@. ;47 ,<8 5 6.1- 1" .J'5. <.<7 ";'5 / .1 ?'17,47 5.6
<=4 .74>.68 " 1.7'05 1 .7 '6641.1 ,1>1.' ?405 ;8 "
1.'5 6.1 .7 ?1;66.1 5.' ?' . / .47 >.6 ; ,<71 047 ,<68 "
> 1 J.1 5.'?'71 ,7 6 / .'>4 ?.4?5.' -.16 5.' / ' <7 .<>.'5"
5, ' .7 5.'1.6?.;7 >.6 '47,1 7 6 5>J 7 / .6I .<E < 5 6.1"
4< >.6 <,V.<6 5.6 ?546 ?4 66'<76 ' . / ?5,V.1 ?,41
5' 66.1 5.'1,V'4 <.8 '4 / , / .<7 ?1, ; : ' < ,4 ,46 =4 7 '
7.1.0 -,6 E,<;7 ,<68 >'<6 ;.7 7'7 >.' J,4-.1<.< .<78
>.'0,< ,1>1.' .7 >.'71'<=4 55 7>'>,<7 <7 1>7 >.'5"<'M
7 ,< .7 -, 1.' J5, 1.' ?'17 ;45 .1.' -,46 E,<7 .J'5; / .<7%
4<.'5, %
'5"1.-,547 ,<>, 7 6.'7.1 / <.1 ?'1 1>7'05 66. / .<7
>.' ,1>1.' .7 ?'1 ,06.1-'7 ,< .@';7.'>.6 5, 6 8 . .67
6417,47 " 5"> 6; ?5 <.'>.6 71,4?.6 =4.';.77.'-.1 7.'>, 7
E 71.''??5 =4 .8 5 E'47 5.'> 1.'E1'<;:. / .<78 <,6.<<. '
< 6 6,41 1' .<7 "<,6 ;, / 0 <' 6,<6 >.'>.E.<6.I '1/ .'
= '>, 7 #71.'<,71.'1. / ?'17 >.- .<>1' 5 <,71.' E5.'4I
" 5" ?5';.'>.6.6?>1'<;.65.6 < .4@ E,<>..6<,46 <'4 '
1 ,<6 ?546 =4 4<.'?.16?.;7 -.'>.'71,405.6 .7 >.'>.6'6'
71.68 6'5" 5, ' / 5 7' 1.'< .7' 7 " '-.< 1 .@';7.< .<7.7
1 J >. / .<7 ,06.1->.'?'1 7,46 ;.4@ =4 '>, -.<7 V >71.'
6,4 / 6I .7 4<.'1. / '1=4.' / ?,17'<7.'>, 7 71,4-.1 . '
6" ?5';.N 5,16=4 ,< ?'15.'>.' > 6; ?5 <.'8 >.' 40,1> M
<'7 ,< / 5 7' 1.8 ?546 .416 ?.16,<<.6 / 'J 4.<7 =4 5
<. 6 'J 7=4.'>.'1,0. 6 '<#;>46,5>'7.<-. 61,E ; .1
. .67 5 <.'.11.41 =4 5 .67 .66. 7 .5 >.'>.714 1.% " 64M
0,1> <'7 ,< .67 5" 6,4 / 6 ,<>5 < J1'>.' <E;1 .41 "
;.54 ' =4 '5.';, / / '<>.8 .55.'6 7.<>'>.?4 6 5.'6, >'7
Q46=4 '4 J <.1'5I . .67 ;.77.';:.55.'>,0 66'<;.'=4 '
E,1 / .'5.'5 .< / 5 7' 1.' .7 E' 7 5"E,1;.'>.6 '1 / ..6I 6'<6
.55.' 5 ?.47 0 .< #@ 67.1 4<1'66. / 05. / .<7 > : , / < .68
/ ' 6 5" ,< 5 < V "?'6 >.'> 6; ?5 <.' 5 < V "?, <7
> '1 / ..I '-'<7 =4.' '1 / . .' .E57 1.;4 6.6 <,<-.55.6
5, 68 6" <,4-.5 ;' ,1J'< 6'7 ,<8 5 .7' 7 > EE ; 5.'>.'5"
6,4 / .771.'" ,06.1-'7 ,< 1 J >.'>.6 5, 6 '<; .<<.6 '4
/ , / .<7 ,<> .6 '55' .<7 71.''0,5 .6I .7 5"1.-,547 ,<
< .7'<7 ?, <7 .<;,1.''6641..8 5 ?,4-' 7V '-, 1=4.5 '
=4.'>'<J.1 " .@ J.1 4<.',0>66'<;.'6>-E.1.' '>.6 1.J .6
=4 '< '-' .<7 ?, <7 >7.';, / 0 <. .6 ?,41 5.'1.J / .' >.'
5" 5 0.17V%
,16=4.'5" <,4-.55.' ,1J'< 6'7 ,< " H H >7'07 .8 >.'
J1'<>.6 ;'46.6 >.'71,405.6 .@ 65' .<7 .<;,1.I >.6 / . '
'<;.6 1>; ?1,=4.6 > - 6' .<7 ;.4@ =4 '>.-' .<7 ;,
/ ':>.1 .7 ;.4@ =4 '>.-' .<7 ,0. 1% .' / ,4-. / .<7 >.'
5"1.6,547 ,< >7' 7 .<;,1.'>'<6 7,47.'6,4 ';7 - 7. I 5.'
1.7'05 66. / .<7 >.' ,1>1.'>'<6 '1 / >.'>7' 7 ?.47 >71.'
'5,16 ?546 >.6 1'05.'=4.'?,66 05.I / ' 6 >'<6 5.' / ,M
/ .<7 ,4 <,46 6, / / .6 5.6 ; 1;,<67'<..6 ,47 ;:'<J.I
'4Q,41> :4 '7,47E'-,1 6.5.1.7, 1"1..@>;7 7 ,<.@'#5.'
>.'5"5, I 5 >>?.<>'>.' ,46 >.5"1>7'05 1 >'<6 '1 / . .'
'-.;'7,47.' 6,< ><.1J .I 6 5.'6'547 >.' 7'7 -,46 .67
;:.18 -,46 <.'>.-.0 ?'6 0'5'<;.1% <.'#1 6.';.41.<6.'
.7 <'77. >4.' 1.<,=-.55.'4<.' J1'<>.' ?'17 .'>.6 ,E7 '
; .16 >.' '1 / >.8 .< 5, J<'<7 ;.4@ =4 8 ?'1 5.41 ,?M
?,6 7 ,< ,067 <>#Q '-' .<7 > > 4<.' >.6 ?1 <; ?'5.6
;'46.6 >.6 71, 105.6I .55.'>,<<.'5.' / ,V.< > <71,>4 1.'
' .41 ?5';.' >.6 ;, / <.6 =4 ' '??,17.1,<7 >'<6 5.'
;,1?6 ' / ,41 >.'5"1.-,547 ,<8 .7 =4 ';,<71 04.1,<7
" 1>7'05 1 5" > 6; ?5 <.' .< 1>7'05 66'<7 5" ;,<E '<..%
4 < > / .' <67'<7 5.6 >'<J.16 .@7>E .416 = Q?.4-. 7
<,46 / .<';.1 ,EE1.<7 2 7,46 5.6 / 5 7' 1.6 ;.77.' >>.

?1.66'<7.' =,' [.67 7. / ?6 ,.'1.7'07 1 5" > 6; ?5 <.''4
/ , / .<7 ,:' 56 ?.4-.<7.71.''??.5>6 ";, / 0'771.8 ?4 6 '
=4 .55.'6.45.'E' 7 5"E,1;.'>. ''1<Q>.68 ?4 6=4 .55.'?.<7
6.45.'5.41 ?1.?'1.1 >.6 71 , / ?:.6 8 ?4 6=4.'6'<6 .55.'
5.' ;,41'J.'5.' ?546 <71>? >.' <.'?.47 6 '77.<>1.'=4 "
> 0 5 'K7.6 4.E' 7.6%%
K4E <8 5,16=4.'7,46 5.6 ; 7,V.6<6 1>;5' / .:7 ,1>1.8
5,16=4.'>.7, 7.6 ?'176 5.6 ' / 6 5.6 ?546 '1>.<76 >.'5"
5 0.17> ,<7 ?1 6 ?,41 0'<< E.1.'1%>0. 66'?;.'1.5 J .46.'
2'5" 5, 88 1'1 / >. ?'17 .<5 >1. / .<7 >.67 <>.' "5"E' 1.%
.@>;47.1 .' . / .01.1"?'%6 6.45.' <6.<'05.'2' ' / ,<'
-. <.<7 / -.16.5 >.'5" <'7 ,<% ' 6 66.0 5.' / , / .<7
?1,?1.'"V 1>7'05 1 ,1>1.% 1,<,<;.0 >:.1J =4. / .<7
-,71.'-,5.<7. I / ' <7.<.0 E.1 / .< .<7 .7 <-'1 '05. '
/ .<7 .@>;47 ,<>.'-,6 >>;1.568 .7 -,46 ->11.0 ;.66.1
8 .6 71,405.6I .7 1S 1 / >.8 '4]6 > 6; ?5 4>.'=4.';7,V.< '
<. '< '5'1 / .1" [<7 5" 71'<:4 55E7.' <7.> .41.8 .7 ,?%'
%?=6.1" '4@ .EE,176 >.'<,e.<<. / 6 4 .'06 7 >1.' ?6 1'
/ 0<7'05.% ';.@'4@ / ' 1a =4 ' ?,411' .<7 1>6457.1
>. '>>6,1>1.6 <7.1 .4168 .E5.6 .<71.?1 6.6 =4.'?,41M
1' .<7 5. 7.1%=4.5=4%.6 K,< / E ' >>6.6?>1>6 <.6.1,<'
Q' / ' 6 1;>,47'05. '.7 5.6 '4>.6 ?4 66'<;.6 >.' 7 '
1,?.'<.'6 .<J'J.1,<7 ?'6 > 6 / .'=4.1.55.''-.;'<,46I
'4; <.'7 "5"?,66 0 07>'> .<71.?1.<>1.'>.'-,4%6 <4 1.'
'466 '>0<J7. / ?6 .'-,46 L';.77.' ' .7
.>77.'- J4.41 >'<6 5.6 1>6?547 ,<6 =4 ' '%6641.<7 -, 1.'
;,<6 >>1'7 ,< '4 >>:?16 ;, / / .'-,71.''47,1 7> <7>'
1 ;41.%
.6 ?4 66'<;.6 >4 ,1> 6,<7 .<;,1.' ,;; ?>.6 >.'
5. 16?1,?1.6 'EE' 1.6I .7 =4, =4 ,< '<<,<;.';, / / .'
?1,;:' <.'5"7.1 / <' 6,< >.6 ;,=E>E.<;.6 >.' 67,-.8
>.6 <7>1>76 6 ';, / ?5 =4.6 <.' 6 ';;,1>.<7 ?'6 E'; 5. '
/ .<7I / ' 6 E466.<7 .55.6 ?'1-.<4.6 2 5.6 1>J5.18 4<
7. / ?6 ;,<6 >.1'05.' .1' 7 .<;,1.'<>;'66' 1.'?,41=4.'
5.'6V67> / .' >.'5.416 E,1;.6 ?45 >71.';, / 0 <.'.7 > 1 J>
;,<71.'<,46% K6?'.<.8 5" '1>' J<.' .7 . / ?.1.41
54 K > / .8 ,;;4?>6 4.' / ' <7.<1 5.41?' @ <7>1 ; 1.8
5, <>.'-045, 1.<-,V.1 >.6 '1 / >.6 ?, / ?.1 '4 / 5 .4
>.'<,46 .6?1 5 >.' <,71.'1.-,547 ,<%8 >.6 1.<7 ?.40 '
>71.'=4.'>.6 1>6,5 7 ,<6 6'J.6 7.1 / 77.<7 >'<6 <,71.'
?1,?1.' ?'V6 4< / ,4-. / .<7 =4 '5.6 <=4 . .' .7 5.J
.?,4-'<7.8 .7 #:.1;:.<7 " E1'<;: 1 6'<6 ;, / / ,7 ,<6
;.' / , / .<7 >.';1 6.'?,41 5.6 1, 6% .' / < 671.''<J5' 68
;,<7.<4 ?'1 .6?1 7 ?405 ;' .7 5.'-,.< 1'7 ,<'58 <.?.47
7.<7.1 4<.' .<71.?1 6.' ;,<71.'<,46 6'<6 ;, / ?1, / .771.'
6,< .@ 67.<;.8 .76'<6 .@?,6.1 ">.6 6.;,466.65";,<6M
7 747 ,< =4 5 >.E.<> '-.;'7'<7 >.'6,55 ; 74>.% ,46
>, -.<7 6"-, 1=4 5 < .67 ?546 ?,66 05.'> ,??1 / .1 5"
5 0.17> E1'<?' 6.I 7,46 >, -.<7 ;'5;45.1 5.6 :'6'1>6
> 4<.' 5477.' / ?1<>.<7.';,<71.'<,46% " 1.';7 ,<>.'
5.416 .EE,176 6.1' 7 71,? >'=J.1.46.' '4 6. <>.'5.416
?1,?1.6>7476I 71,? >.'<,V.<6 6,<7 ,EE.156 "4< J1'<>
?.,?5.'>,<7 ,< -.4E >>714 1.' 5" 5 0.17>8 .7 =4 '>.6 '
5,16 ';= .17 .'>1, 7 >.'7,47 7.<7.1 ?,41 5">.E.<>1.%
'1 / '5.6 ?4 66'<;.6 >.' 41,?.8 75 #< .67 > ' 55.416
0 =4 ' <,71.''55 '<;.' .67 ?1>; .46.' .7 <>..66' 1.8 '<6
5.'6V67> / .'?,5 7 =4.8 5.'?'17 =4 '>,?7.'5" H1'<;.' / .7
4< J1'<>'?, >6 >'<6 E"0'5'<;.8 .7E.' / , / .<7 ,4 <,71.'
J,4-.1<.< .<7 -"1.;.-, 1 6"E,1 / .' .7 6" - J4.418 ,4
5"7.1 / <' 6,< >.'<,6 / ,4-. / .<76 <7.1 .416 -"<,46
1>7'05 1 >'<6 4<.' <E54.<;.'<'741.55.8 .67 ?'6 ;.54 '
, 58 ?'1 >.6 =4.1.55.6 / ?14>.<7.68 ;.4@ =4 ' ,<7%6 '
J1'<> <7.1>7 "<,46 1.]7#1 4< 6 ;:.1.:.1' .<7 "<,46
'5 ><.1% ' <,46 5.'-,45,<6 E,17. / .<7 '4 >. 5'<6 .7
'4 >.:,168 5"1>-,547 ,<.677.1 / <>.% .?4 6 "J1'<>.'
;1 6.'>4 >>?'17 >4 1, 8 -,71.';,<>4 7.''E' 7 > 6?'1' 71.'
0 .< >.6 .11.416 .7 >.6 5546 ,<6I -,4 ''-.0 ?1,4-.'
=4 .5",47'777>.?'66 ,<6.7> <7> >76 -,45' . 7 < ''
?.1;.-, 1=4 <.' E';7 ,< 5 V '-' 5 4<.' >1 7'05.' .7
>J 7 / .'?4 66'<;.I =4.'5" ,:' ,< <.'-,45' 7 -, 1=4.'
71,405.6 .7 '<'1;: .' 5 V '-' 78 '4 / , / .<7 / > / .'>.6
?546 J1'<>.6 ;1 6.68 >.' ,1>1.8 >.6 / .641.6 6?'- .6
.7 4< J, -.1<. / .<7 - J,41.4@I =4.'5", :' ,<< '-' 7
?1.-4 =4.'>.' .@'57'5 ,< .7 >.6 E41.416 5 V '-' 7 >.

5'"6'J.66.8 >.6 ?1 <; ?.6 ;,<67'<76 .7>'';'5/ .'>'<6
;6 1.6,547 ,<6I =4 .5 '.<5 <, 5 ,<77 '-' 7 -4 =4.5.6
?'66 ,<6 ?1 ->.68 .7 'J 7'7 ,< > 4< ?.7 7 <, <01.'
> :, / < .68 5 V '-' 7 5" -,5,<7.'J><.1'5;'.7 5" 1.6,54M
7 ,< <-'1 '05.'> 4<;'J1'<>.'<'7 ,<% #,<7 <4.0 "64 '
-1.' ;.77.' / '1; :.' J1'<>.' .7 1'?,6'<7.8 .< ';:.-'<5
'005,1 .<@ 71'-'4@8 .< >7'05 66'<7 6,5 >. / ;<5 >'<6
<7.1 .41 >4 1,V' EE5.'5" 71'<=4 5 7.' .7 1.@>;47 ,<'
>.6 5, 6I ,??,6.0 ' @ 7.<7'7 -.6 .@7.1 .41.6 4<E'1.'
>,47'05.>.E.<6.8 .7 0 .<7 78 0 ,6.'5.'> 1.8 -,46 -.11.0
6 .-'<,4 1 '5" E, 6 >.6 <=4 .54>;6 .7 >.6.6?.1'<;.6 '
=4 ' <.' 6.<7 E,<>>.6 =4.' 641 >.' E'466.6 <,7 ,<6 >.'
-,71.' 6 74'7 ,< .7 >.' -,6 / ,V.<6% L , ;'5.'?1,0.7 >.'
>.;1.7 =4.' -,6 ;, / 7>6 <' ,<7 ;:'1J>'>.'-,46 ?1.6.<M
7.1% & <'??5'4> 7 2 ?546 .416 1.?1 6.6%P

[illegible]

1'5' % ,'$%', '&'$%', % ' ' 4 '%#
4 4&'E &') *) ,'&',! '% '%& ,'&% ,'2 #
'&'$%',%$$ '%*% '$ '&',!'4! %A

[illegible]

.! ((7 ' '()' /(7 ()' '# +2 (,#. #-L (' '('.! L)'

[illegible]

4 .,(F'P/III'

+' K,1>.1.'4@ ?1,-.<'<7>.'6.1 .'<,<'7,17 .U U 7 $ $

! b ' ',i' ' E5 ! ' 55%

:' WIX' 'WF 6' 'BHTB' < ' ' ' ' 3

3 %

5

' '' ' .' / < 651.' >.' 466.' 6.' > 6?,6.'U1.;.-, 1' ;' % 5.';,5,<.5' >,' K 6;:,E.[.'>.18' A=4' <,?'1' 7?'6' .<;,1.' '-, 1' .<7 .1. / .<7 1. / ?5' ,0' Q.7' >.6' / 66 ,< '4?1.6' >,' . / ?.1.41N' 5,1>' 5J <' >, 7' '466 ' V -.< 1' <; .66' / / .<78 ;.' =4 'E' 7 ?1.64 / .1' =4.8' =4 '<>' / .< .'5.' ;,<J1.6' >.' 67, -.' 6.' 1.4< 1' 7' .<;,1.' 4<.E, 68' '11'<J. / .<7 .<71.' 471 ;5 .' .7 5' ,17.' <.' 6.1' 1 J5.'=4.' > '?1.6' 5.6' ;,<E.1.<;.6' =4 ' 6.' 5 .<>1,<7 ;% .6' ;, / / 4< ;'7 ,<6' >.';, / / .1;.' .<71.'5' '5';0 .' .7 5' K45J'1 ' ;,<7 <4.<7 ;, / <.' ?.<>'<7 '1 / 67 ;.8' j ' ' ;,41' .7 5.A / < 67.1.' ,<7 .5.' ;,<65.1<.6' ' 5' <,4' -.55.' >.' '11.67'5 ,< >4' 1, ' >.' H1'<;.% ' ?'1' 7 =4.' ,< .7' 7 ?1.-.<4' ; 8 .7 =4 ,< V '-' 5' E,1 / .' >.6' ?1,M Q.76' 640,1>,<<.6' '464;;.6' >.' 5' E4 7.' >.' ,4 6' " L % <' <.' 6' 5' ?, <7 .<;,1.' ;' =4.5' ?'17' ?1.<>1' . / ?.' 1.41' >'<6' 5' >' .7.' >.' K%'7 60,<<.'- 6 ' - 6' >.' 5' H1'<;.% ' .'7 ?1,0'05.' =4.' .<' 1' -' 55.' " 4<' <,4-.'4' ?5'<' > '77'=4.' =4.' ,<' '??.55.' >.';,<;7 R'7R,178' '?' @' >4' ,1>' 6. / 05.' >.; >9.I' .55.' <.' ?.47 5'1>.1%' <' ,<Q.;M 741.' '-.;'1' 6,< =4.' 5.6' ?4 66'<;.6' =4 ' 71' 7.<7 .< ..' / , / .<7 ?1.<<.<7 ;.77.' ,;;'6 ,< >.' 6 .<5.<>1.8' 1.5'7 ' -. / .<7 '4@' 'EE' 1.6' >.' H1'<;.%

" E' / 55.' / ? 1 '5.' >, 7' ' '77.<>1.' . / ?.1.41' " '@. / 0,41J%

K %

' ' ' ' ((' ^' % 5.' 0'1,< >.' B .1700.1J' " >,<<.'6" >. / 66 ,<% .'1,' " ';;.?7..' .< ;,<6.1-'<7 " ;.7 '<; .< / < 671.'6.6' '??, <7. / .<76' ?,41' 1.71' .' 8 6,< .<71.' '4' ;,<6. 58' .7 .< 54' >,<<'<7 > ' 55.416' >.6' 7='1=4.6' >.' 6'7 6E';7 ,< <,< .=4 -,=4.6% .' 1,' " <, / 1'.' % 5.' ;, / 5.' >.' K;:45. / 0,41J' " 5" ?5';'>.' %%5.' 0'1,<>.' B .1700.1J8' <' ?.<6.' =4.' ;.'>.1< .1' " ;14' >.-, 1' 6' 6 1' ?,41' 6" 1.51' 7.' 5.' / , / .<7 , 5' -"6.' ;,<;541.' 4<.' ?' @=4 <.1.?,<>?, <7'6.6.6?.1'<;.68' ' <.' ?'1' 7 ?46' =4.' 5" 1466.' ?4 66.' ,07.< 1' > '471.' >.>, / / 'J. / .<7 >.' 6,< <7.1-.<7 ,< =4.' >,' <,4' -.55.6' ?1, / .66.6' ?,41' 5" ;.66 ,< >.' ;,1<' .7 >,' '<7' O ; % 34'<7 '4';'0 <.7 01 7'<< =4.8' 5' 6 .< E'47 0 .<' '466' =4 5' ?4 66.' 6.' ;1, 1.' >.>, / / ' J.% #.?.<>'<%7 6" 1.;,<; 5 '7 ,< '-.;' 5.6' K466.6' 54 ' ?1, / .7 4 ' 71' 7.' >.' ;, / / .1;.%71.6' '-'<7'J.4@% #.6.1" '4' / < 67.1.' '<J5' 6' " E' 1.' O .< -'5, 1' ;.7 '7'<7'J.' '4@V.4@' >.6" <'7 ,<8' .5' '54' ?.164'>.1' =4 ,< 6.'71,4-.' ?'1' 5" >.>, / / 'J.' >.6' E1' 6' .<,1 / .6' >.' 7'<7 >.' ?1.?'1'7 6' .7 >. / ;<..6' > 6?.<>5.46.6%

B %

@ ' 0 ' ' ' '9 * ' ' 7

<;.<> .' 7.11 05.8' =4 ' - .<7 > '-, E' 5 .4' U / 6E.1G' ' >' / ' .7 =4 ' " ;,<64 / .' .<7 .1. / .<7 7,47 ;.'=4 ' .7' 7 1.<E.1 / .' >'<6' 5.' J1'<>' / 'J'6 < >.' .7'78' .< 7,47.' .6?.;.' >.' / 4< 7 ,<6' <'-'5. Q 'J1.7 .7 .=4 ?. / .<56' >.6' -' 66.'4@' 8' < "6 1. / .<7 ?, <7 .4' 4<.' ;'46.' <'741.55.8' .'E.4' 6 .67 <'< E.67.' >.' ?546 .416' ;,7.6' " 5" E, 6' 8' .7 5' < V' " ?'6' >.' >,47.' =4 5' .67 5.' E14 7 > 4<' >.66. < ;1 ' / <.58' ?1.?'1.' >.' 5,<J4.' / ' <% <' 6 .67 6' 6' >.'71, 6' ?.16,<<.6' 641' =4 ' >.6 ,4?;,<6' 6.'6,<7 > '0,1>' ?,17.68' / ' 6' =4 ' ?'1' 66.<7 71.' ?547,7 'J.<76' =4 '47.416' >.' ;.7.-.<. / .<7% 5' .67 " ;1, 1.' =4 ,< 1.;.-1" ?'1' .55.6>.6' 54 / .1.6' ?546' 7.<>4.68' .'>, / / 'J.' .67 5-'54.' .< J1,6' 5' =4 '71.' / 55 ,<6' >.' E5,1 <68' '4' 7'4@' 5.' ?5467<,>.1.E / ' 6' 5.' ?546' E';:.4@' >'<6' ;.77.' ?.15.' .67 / ?,66 0 5 .' ;4 ' .< 1.6457.' ?,41' 4<' ;.17' < 7. / ?6' > '1 / .1' 5" E5J77.' &5.' .7'58' 6' 5.6' ;1;,<67'<;.6' .@ J.' .<7% #;' < .67 =4 '-.;'0.'4;,4?' >.' ?. <.' =4.' ,< .67 ?'1-.<4' '?1.

h' ' +' < ',.

6.1-.1' >.' . / 01'6. / .<7 5.6' -' 66.'4@' >.' J4.11.' .7 E1 M J'7.6' =4 ' / ,4 55.<7 '4' ? .>' >.' ;.'0'7 / .<78 ' <6' =4.' ;.4@' =4 ' V 6,<7 .<'1'>,%40' ,4.<' ;,<6714;7 ,<8' .' .7 <.'6 .67 / '1 E.67.' =4.'>'<6' 5" <4 78' -.16' 5.6' >.4@' :.41.68' .7 >'<6' 5" / '7 < .'7,47 " 7.' ;,<64 / .% #.' >.6'671.8' =4.' ;:'=4.' ?'17' ;,<71' 1.' ;:.1;:.' " '771 04.1' "6.6' '<7'J,< 67.68' " 1.-. 55.' '<; .<<.' :' <.8' .6' 6 '5:,4 % >.1 .<6' ,<5' ;14' V -, 1' 4<.' -.<J.'<;.'>.6' ?'71 ,5.68' ;7' =4.5=4.6 <6' >.;.6' >.1< .16,<7> Q" .664V.' " ;.7 .J'1>' >.' / '4-J 6' 71' 7. / .<56' >.' 5" ?'17' >.' =4.5=4.6' <>Q- ' ><6' >.' 5" ?,?45';.' J'1.6' ?'1' >.6' 64JJ.67 ,<6' 6'<6' >,45.' ;'5, / < .46.6% #.77.' 'EE' 1.' " E' 7 ?'1' 71.' ?546' =4.' Q' M / ' 6' >'<6' / 67.1>' / ' 5.6' ;,;'1>.6' ,1'<J.68' .?4 6' =4.5=4.6' / , 6' 0 .< >.6' ; 7,V.<6' < .< ?,15' .<5' ?546' / ' 6' >.?4 6' '-'<7 : .1 Q Q 7-' >4' E.48' 5" ;'<' 55.'6.' ?.1' / .7 >.6' .@;.6' ;.<71.' ;.4@' =4 ' < ,<7 ?'6' ;.77.' ;,45.418' .7 ;:';4< " > '6 .:' / 4< 1% < / .;,<7.<7. / .<7 6,41>' .7' ;,<;.<71.' .67' 5.' E14 7 >.' ..6' <,4-.55.6' - ,5.<;.6% <' ;1' <7 0.'4;,4?' =4.' _G5" <.' ?1.?'1.' =4.5=4.' E>;:.46.' .@?5,6 ,< 8G7' <7' 5.6' .6?1 76' 8 6417,47 " / 67.1>' / 8' 6,<7 '< / .6' 5.6' 4<6A;,<71.' 5.6' '471.6% ' 6.' / .5." ;.77.' < ' 6 717.55 J.<;.8' 641' 5.6' 'EE' 1.6' >4' ?'V6' 4<' <7.1.7 ,??,6 8' 1.5'5 -. / .<7 '4@' 'EE' 1.6' >.' H1'<;.% .6' ?'51 ,7.6' / 6' 7.1>' / , 6' ,<7 7. / , J<.'71,?' ,4-.17. / .<75.41' Q, .641' H'11.65'7 ,< >4' 1, ' 8' .5' 5.6' 67'70,4>.1 .468' ?,41' 5.41' 1.?,<>1.8' ,<7 '5,16' 'EK;0.'> '10,1.1' 5" ;,;'1>.' 05'<M ;:.'8' ?5';.;' 6,46' 5" ;,;'1>.' ,1'<J.' 8' / >56' > 4<.' / ' ' < .1.' 71.6' - 6 05.I' >.' 6 17.' =4.' 1, 5" / ' <7.<'<7 4<' 7,4-.'4' 6 J<.'>.' ?'17' =4 ' <.' ?.47 / '<=4.1' >.' ;'46.1' 0.'4;,4?' >.' 71,405.6% ' 5" -.1 7.' 5.' <, / 01.' >.6' ?' ' 71 ,7.6' .67 <E < / .<7 ?546' J1'<>8' / ' 6' 5' 6 .< E'47 >.' 0.'4;,4?'?,41' 7I.5" =4 5' 6, 5' 5.' ?546' E.17% 05 J>' >.' 6# 7' 1.' .5' ;5.' 6.' ;' ;:.18' ?'1;.' =4 5' < .67 ?546' '7 <.' .7 =4.' 7,45.6' 5.6' 1.J.<;.6' >4' ?'V6' 6,<7 ,;,4?>.6' ?'1' >.6' 67' ' 70,4>.1 .<68' 5.' ?'17' ?'51 , =4.' < " <455. / .<7' 5" ?,6' 6 0 5 7>' >.' 1. / 4.1' ?,41' 5.' / , / .<78' " / , 1 6' =4.' 1,? > .@;.6>.5 '451.;,5.<.'5.'7 1.<7 ?1.6=4.' / '5J 9 5 >.' 6" 7:'1J .8' '4=4.5';'6, :'-.11' 7 7,46' 5.6' / '4@' 1>4< 6' E,<> .'641';.77.' 1.?405 =4.' 8' ;.'&54' < .67 ;.17' <. / .<7 ?'6'6,4:' 7.1% 34.5=7 .6 4<6' ?1.7.<>.<7 =4 5' E'47' '5' 71 04.1' <;.<> .' '4' / .;,5 7.<7. / .<7 >.6' ,4-1 .168' =4.' ,< E,1;' 7' >.' 71' -' 55.1' ?546' =4.'5.' 7. / ?6' ,1> M <' 1.'>'=6' 5.6' ;:'<7 .168 'E < >.' / .77E.' '4' ?546' 5,7 5" E,1;:' / '1 7 / .' >.' .5'7>'<6' 5.';'6' >.6.'Q, 1 >1.' " ;.55,' >.6' <J5' 6' ;.<71.' 5" K466 .8' ?1,Q.7 =4' >.?5' 7' <E5< ' / .<7 " 7,47 5.' ;, / / .1;.'0,55'<>' 68' / ' 6' =4 ,< > 7 >71.' 5.' ?5' <' E'-,1' >4' ;'0 <.7 67'70,4>.1 .<% .6' <,4M -.55.6' > 5. / 'J<.' '<<,<;.<7 ?,6 7 -. / . 77 =4.' ; ' .EM E,176' >.6' ?1 <;.6' " 5" > .' >.' K'5 60,<<.';.<71.' 6' 6; / 05.' <'7 ,<'5.' >.'H1'<;.' 6 .-'<,4566.<7 .< E4 / ..8' ,47 ?1,Q.7 >.';,<71. 1.-,547 ,< .67 / ' <7.<'<7;: / ' 1 =4.' .7 / ?,66 05.% .6' . / J1'<76' 6,<7 71,?' '0'7746' ?'1' .-.<. / .<7 >.' '1.<<.6' ?,41' =4 56' ?4 66.<7 >.' 6,1 / ' ' 7.<7.1' '4;4<.' .<71.?1 6.% " 1,'Q.41.' ?'15 .' >.' 55. / 'J<.' .67 ;,<71.8 .7 ?1.E.1.' .<71.1' .< <.J,' ; '7 ,<6?,41>.6' <>. / < 7V% '11.67'7 ,< >4' 1, '?,17.' 5.' >.1< .1' ;,4?' '4@' . / J1'<768 .7 '<.'<5 7 5.416' ?1,M Q.768' <' ?1.<>' .< B,55'<>.' 4:' <7 1 7 71.6' - E' " ..'=4.' 66. / 05..' >#;1.7.1" 1.5'5 -. / .<7 '4' 1, 8%%%

&$ ' ' '% ' ' ' '; E

HK ! %

8 'B? ' +' < " '<>7.' : .1' F ' a 4 ' / . / 01.' >4' ;540' >.6' #,1>.5 .168' >. E.<6.41' >.' % '<' 7.11.' >'<6' 6" ;'46.' ;,<71.' 8 'E'V.77.% < > 7 ='.' .11 .1.6' .67 '47;41' >4' Q,<1<' ' <7 74 5>' '0, ' ' ' ' F ' <' " 6' 6' 6.6' ?1.66.6' .7 6.6' ?'? .16% '>. / , 6.55.' #,5,< 0.8' > 1..71 ;.' >.' 1 / ' ?1 / .1 .8 " .7>' '466' ;,<>4 7.' .<' ?1 6,<%

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0, ' ' '< Q56 ` 7E. 7 / .<7 ,< >4 > 6M
;,416 >;' # '65.57'<.7 >'<6 5.' 1, ;E.6 7.10'
+$ < >.' 5.6 6.;1.7' 1.6 5 7 '>.''>1.66.'>4 >> '
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66./05 .''??5'4> 7 .7 1.<-, .' '55 ;, < 7> / 5 '
7' 1.'5" ?.7 7 ,<'Q, <7.'2 ;.57.''>1.66. $
' 8 44 <, < >.6 ;, / 7V'>.' .@7 <,7 ,< >.'
5" / .<> ; 7>8 > '5 9 '7 ,< >.6 0 .<]' <'7 ,<'4@8 >.6
E <'<;.6 .7 >.';,<67 747 ,<N '<6 7,<.'5.6 7. / ?6 5 V
" .4 >.6 6,41>6 / 4.768 .7>'<6 7,46 5. ' 7. / ?6 56 ,47
<6? 1.''4@' ' / 6 >.'1:4 / '< 5> 5.'> 1 > '>,4;71 5.41
?,6 7 ,<8 ;< >7'05 66'<7 .<71;'.4@ .7 5.6 '<71.6:, / / .6
=4.5=4.6 1.5'7 ,<6 ?1,?1.6 > 5" #, / / 4< ;'7 ,< / < '
74.55.'>.'5.416 >>.6

6?'J<. B. / 'JK.8 <J5.7.11.' ,<7 .4 8 .<
> EE>1.<76 7. / ?68 >.6 ?< 5,6,?:.6 =< ',<7 E' 7 ;.6 7.< '
7'7 -.68 / ' 6 '4;7 <.' > .75.6 < " .4 '66.0 >.' 67 ;;>6
?,<1 6411 -1.' " 6,< '47.41I 5 <.' 1.67.''4;4<.' 71';.'
>.6 / >7:,>.6 =4 'E41.<7 . / ?5,V>.6 2 ;.6 > EE <7.6
>?,= .6 :.41.46.' >>;,4V.17.'>,<7 -,46 -,46 ,;'
;4?.0 <4Q,41> :4 '>7' 7 1>6.1->.'2 4< >.';>]' :, / / .6
=4.' 5" <'741.'';;,1>.' =4.5=4.E, 6 .< 1>?'1'7 ,< >.'
6.6 7,176I .7 =4 8 Q, J<'<7 5" -.174 % ' J.< .8 5" ?'M
7 .<;.''4 ;,41'J.8 ;,<645 .7 .@>;47" 5.' ?1,Q.7 >.'
1.<>1.''4@ 6,41>6 / 4.76 4<.' .@ 67.<;.' / ,1'5.8 >,<7
56 6. / 05' .<7 ?1 ->6 ?,41 7,4Q,416 '< .67 ?.16,<<.'
=4 8 " ;.6 71' 768<.'1.;,<<' 66.'5.;>5.01.' '00> >.'
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< .;;5>6 '67 =4.' >4 >>?'17. / .<7 >.'5" B'47. ! ' '
1,<<.8 ; >.-'<7 ;:'<, <.'>.' " .-(+ 2/ ;'1>8 "
';:.-> 5" ;,416.';, / / .<.>.' ?'1' '00> >.' ?>.8
>,<7 5 >7' 7 .5.-.8 .78 > '?1.6 < ;,<;,416 E' 7>.-'<7
'<; .< J'1>.' >.6 6;.'4@8 ;< ?1> .0#.' >.' ?546 .416
/ . / 01.6 >.' > E .1.<7.6 ';'>> / .6 >.' '1 6 .7 >.' 5"
/ 4 ; ?'5 7>8 5" >7> Q4J>> J<.>.64;;>>.1< <-.< '
7;41 ,47 ;.'=4 ,< ?.47 .6?>1.1'>.';.7 '17 ?1>; .4@8 5
">>Q" ,07.<4 #< >.'6.6 >5.-.68 '?1>6 =<'71.''<6 >.'
5. / ,<68 " >7> / 6 .< >7'7 >.';. / ?1.<>1.'7,47.6 <,6
>..68 .7 > .@?1 / .1 7,47.6 ;.55.6 =4 5 ;,< , 7 54 '
/ > / . ,47.6 5.6 > E ;457>6 >.' 5" J1' / / 'E1,8 .7
/ > / .>.'5" / >7'?:V6 =4. < '6,<7 ?'; / 7. / .<7;,' '
<4.6 .6 1.J .6 >4 ;'5;458 >.'5" 6?<>1.' .7 5" J>,J1' '
?: .' < '6,<7 E' / 5 .1.6 S % ' 8

I ;,<<' 7 5" 1.5 J ,< >.?4 6 5.6 ?1. / .16 >J.6 >4
/ ,<>.Q46=4 " >?,=4.'>.'5" / ,17>4 5,<>'7.41 ,.;.77.'
/ > / .1.5 ,< ';,<<' 7'466 '5.6?1 <; ?.6 >.'5"#.<6 '
7 747 ,<8.76,< / .5.6 "6' 6 6 '-.;4<.'- > 7>> '47'<7
?546 J1'<>.'=4 .55.< '-' 7Q' / ' '>7> E5>71 .'?'1''4;4<
>.'<,6'<; .<6?1>Q4J>6 5 1.?,<>'?'1 >;1 7 " 7,47.6 5.6
=4.67 ,<6 =4 ,< ?.47 54 'E' 1.' 641 5.6 ,0Q.76 =4 ' 54 '
6,<7 ;,<<46I '.<E' 7 54 / > / .I 5 '<'5V6.'5.6 ?:1'6.6
5.6 ?546 ;, / ?,6>.6I .<E < . .67 4< 6,41> / 4.7 =4 '
;.66.' > >71.'6,41> '-.;;.4@=4 ' 54 '>;1 -.<78 .7 =4 '
< .67 ?546 / 4.7 '-.;;.4@ =4 '6'-.<7 5 1. K.'4;,4?
> '471.6 >5E.-.6 / '1;:.<7 6 1 ;.6 71';.68 .7 >,<<.<7
5.6 ?546 J1'<>.6 .6?>1'<;.68

<>>?.<>' / / .<7>.' '-'<7'J.'>.;,<<'571.'?'1'>;1 7
5.6 >>.6 >.6 '471.6 :, / / .68 ;7 >.'5.41 71'<6 / .771.'5.6
5.4168 5.66341>6 / 4.76 ,<7 .<;,1.';.54 '> 4<.'5'<J4.'
?'16 J<.6I=4 '?.47>71.;,<6 >>1>.';, / / .'4<.>.6 / <.'
5 .41.46.6 >>.,4-.17.6 >.' .6?1 7 :4 / ' < 55.'1. / '
?5';.' ?'1E' 7. / .<7 .7 '-.;' 5" ?546 J1'<>.'1'? > 7>8

?,41 5.6 ?.16,<<.6 '4@=4.55.6.55.' . 77 ;,<<4.8 /
* " <.' >.'5" ?'1,5. 55.'<.' ;,<6 67.' ?'6 4B =4. / .<7
'<6 >.6 6 .6 ! ' .7 >.' ?41.' ;,<-.<7 ,<S .55.'
?. <7 5.6 ' ;7 ,<6 ' ?546 6..1>7.6 >.' E / .8 =4 8
?'15.Q.<>;6 ,1J'<;6 .7 ?'17 ;45 >1.< .<7 >.6 V.4@8
.<71.<7 ?,41 0.'4;,4? >'<6 6.6 > > / .<76

] ' '?1,Q.7 7'<5 >.'E, 6 >>6 1> > 4<;' 5'<J .'4< -.1 '
6.55.'?,4-' 7 6.'1>'5 6.18 ;.55. ;'6.1' 7 ?.47 >71.';.55.'
=4 ' / >1 7.1' 7 5" ?1>E>1.<;.I '4 / , <]'.67 #55.'5" ?546
'<; .7 <.'>.'7,47.6 F

<E < >>4;'7 ,< >.6 6,41>6 / 4.76 '6.'0,1<.'?'6
" ;.6 '-'<7'J.6I .55.'?1,;41.' "E;.4@=4 '>, '-.<7 -'-1.
>.'5.41 71'-' 5 5.6 / ,V.<6 >.' 640 67.1 <.'E,45.'
> '7.5 .16 6,<7 ?1>76 "6;7'05 1 >'<6 ;.77E7 <67 747 ,<I
.7 >.Q" 5 V .@ 67.' .< ?5. <> ';7 - 7> 4<.' / ?1 < .1 .'
;,<6'.1>.' " / ?1.66 < >4 - ' ' ' .7
>4 - ' 0,& 5 ;.' 1'??,17 / > / .8 < '
?1 / .'?'1 .4@8 -,46 >,<<.'4<.'?1. -.'>.'5.41 ;'?' '
; 7> 5 V .@ 67.' .<;,1.' 4<.' / '<4E';741.'>.'7'? 6 >.'
;,7,< .7 '471.6 .7,EE.6 E'01 =4..6 Q7 6=4 '5,16 >'<6 5.6
?'V6 >71'<J.16 .6 E,<>6 '<<4.56 2 >>7.1 / <.1 ?,41
.6 ?5';.6 J1'7 7.6 =4 ,< Q4J.1" ;,<-.<'05.'> ';;,1 '
>.1 " >.6 ?'4-1.6 <.' ?>6.1,47 ?'6 5,<J7. / ?68 6'< '
>,47.8 641 5" <'7 ,<
G D .6 ?1,E 76 >.' / ?1 / .1 .' ?.<-.<7 6 >5.-.1
'<<4.55. / .<7 " 5"6, / / .'>.'6 ! ! 5 -1.6

CD '5"64 7.'>4 Q'1> < .67 4< .<;5,6 =4 ,< ;E.>.1" "
1>7'0E 66. / .<7 >.6 6,41>6 / 4.768 .7 >'<6 5.=4.5 ,<
?,411"E,1 / .1 <<.'?>? < >1.=4 '1. / ?5';.1";.55.'>.6
#:'171.4@8 =4 ' .67 ?1.6 >.'6.'>>714 1.8 .7 =4 '>,<<' 7
'<<4.55. / .<7 4< 1.-.<4 >.' 8 '5 -1.6 #.55.'>.6
6,41>6 / 4.768 0.'4;,4? / , <6 J1'<>.8 ?,411" 1'? '
?,17.1 4< 1.-.<4 >.'98 '5 - I >.6 6.11.6 ;:' >.6 .<'
71.7.<4.6 ?'1 5.6 ?,>5.6 >.6 ;5'66.6 >,<<.1,<7 >.6G
?1 / .416 _E4< J1'<> ?1,>4 7

.Z / '<4E';741.6 .7 / >7 .168 .< 7.<'<7 5.6 >5.-.6
>'<6 4<.' ';7 - 7> ;,<7 <4.55.8 ?,411,<7 1'??,17.1
'466 '4<.'6, / / .''66.0 ;,<6 >>1'05.
' 6 5 <.'E'47 ?'6 6.'> 66 / 45.1 =4.'5, 6 ;.6 ?1,E 76
<.'?,411,<7 6.'1.;4. 55 1 =4.' >'<6 >.4@ ,< 71, 6 '<68
=4 '<>'5.6 >5>-.6 '41,<7 64EE 6' / / .<7 '??1 6 ;:'; <
4< / .7 .18 .7 =4.'5.6 7.11' <6 6.1,<7 .< -'5.41

34.'<.'?.<7 ,< ?'6 .6?>1.E > 4<.' <67 747 ,< =4 '
.@; 7.'4< <7>1>76 'J. >1'58 =<.'>.6 :, / / .6 ;>5.01.6
-.45.<70 .< .< 1>J5.1 5.6 ?1. / .16 ?'68 .7 >. / '<>.<7
;, / / .'<<.'E'-.41 ;.'=4 ,<'41' 7>7> . / ?1.66> >.'5.6
?1 .1 > ';;,1>.1 ;, / / .'<<.'J1 ;.S '<0> ,;:,<
6.';:'1J.'>.'5" ;,<>4 7.>.6 1 ' / >;'< =4.6I '00>
B'4V ?1.6 >.1" '4@ 71'-'4@ 1.5'7 E6 '4" / '101.6 .7
'<71.6 ? .11.6 :,4 <8 >.' 466 .4 .5 '00> .6
6 .1 <6?.;7.1,:7 5" ;45741.'>.6 Q'1> <6I 'Q,<8 5"
6;45?741.I <;.<78 5.6>.66 < ' .7 5" ?. <741.8 7'M
5.<76 6 '<>..66' 1.6 '4@ '176 .7 / >7 .16I K.1- ; '
,E 1.6.6 6, <6 ?,41 5" J1'-41.8 .7 / '>' / . ! ?1> "
.7> 5"?1.1' E.1.' "E' 1.'#,<<' 71.'6,< -..4 ?,41 > 1 J.'
5';5'66.>.6 5 5 .68 '4@=<.55.6 ;.'7'5.<7 .67 71.6 ?1>M
; .4@8 ?,41 7,46 5.6 ,4-1'J.6 >.'01,>.1 .8 7'? 66.1 .8
.7 =4 '< .@ J.<7 =4.' >4 J,E 5 .7 >.' '>1.66. & < '?'
?5'4> 7 P <6 ,< ?.47 '6641.1 =4 '?1 `6 ;.'?1. / .1
7. / ?6 > >?1.4-.' 5.6 .5>-.6 .4@ / . / .6 ?,411,<7
?'1 5.41 71'-' 5 E,41< 1 '<@ ?5';.6 J1'74 7.6I .7=<.'
?'1 ;,<6.=4.<7 1>7'0: 66. / .<7 ?,411" 6.'6,47.< '
6.45

'?1.6 ;.5'8 <,46 <.'6,1' / .6 ?'6 1>>4 76 '>.'4 / G
? .6 .6?>1'<;.6I 5.6 / . / 01.6 >.'-,71.';> / 7>=4 ',<7
'66 67> > E>1.<7.6 E, 6 '4@ .@.1; #.6 >.6 6,41>6 / <.7"
?.4-.<7 -,46 '6641.1 =4 .55.6 6,<7 >>Q" 1>'5 6>.6
'00> >.' ?>.''-' 5 6,4-.<7 ,55 ; 7> >,' '<; .<
J,<-.1<. / .<7 5.6 / ,V.<6>.'E,1 / .1 ;.7 >7'05 66. / .<7
?1>; .4@8 .7 >.' < >,<<.1 5.';'1',7>1.'> >7'056 .'
/ .<7G?405 ;I .4@'11>76 >4 ;,<6. 58 4< >4 C '<,'
-.< 01.' (()8 '471.>4 C ' / '16 ()98 1.<E.1 / .<7
> EE>1.<7.6 > 6?,6 7 ,<6 =4 ''-' .<7 ;.7 ,0Q.7I / ' 6.?6
'11>76 < ,<7 ?'6 >7> 1.-.746 >.6 E,1 / .6 '<>.<<. / .<7

[illegible]

?.16?.;7 -.' >'<6' '-.< 1I' 5'' H1'<;.'5 01.'>.- .<>1''
.<71.?>7 >.'' 1 ;:.66.6' 71'<J.1.68 1'6 5.'>.` ,,/ '
/ .1J'456 ;5' 1>68 5.'1.<>.0 -,46>.7,<6 5.6'17 67.68
5.'?, <7 ;.<71'5 >.'7,<6 5.6;, / / .1;.6%
% .6?,176 E1'<Q< 6 6 74.6 641'5'' .> 7.11'<>.'?'1 '
7 ; ?.<7 ?.4' '4' ;, / / .1;.'>4' .-'<78 =4, =4 56.<'
' .<7 5.'>1, 7 7,47 ;, / / .'5.6 '471.6 ?,176 >4'1,V'4 '
/ .8 ?'1,'=4.'5''6>1.7.'>4'?,17 >.' '16. 5 .8 >7. P'
>4.' >.'6,< / '1;:>' .7 6,< 5'O'1.7 1.?,466.<7 7,47.'
;,<;411.<;.%
'<6 5'' -4.'>.'E'1,1 6.1'<,71.';, / / .1;.'> 1.;7 .7
<,71.' <'- J'7 ,< >4' .-'<78 5.6 '<; .<<.6 5, 6 ,47
6,4 / 6 5.6 / '1;:'<> 6.6'>.' 41=4 .8 =4 ' '11 -.<7 .<
H1'<;.'?'1'5'' -, .'>.'5''<'- J'7 ,< .7 >4';, / / .1;.'
.71<<J.18 '' 4<'>1, 7 '>> 7 ,<<.5 >.' ,'?,41' '>.'5''
-'5.418 ?.1;.?7 O5.'.<'646 >.';.4@ ?'1 .6'7'1 E6
641'5.6 / '1;:'<> 6.6 >71'<JE.1.6% #.6 5, 6 E,11'.<7 4<.'
.6? ;.'>.';7.' >.'<'- J'7 ,<8 '4=4.5 <,46>.-,<6 5''
;,<6.1-'7 ,<'>.'5''?546 J1'<>.'?,17 ,<'>.'<,71.'<'- M
J'7 ,<'>'<6 5'' 7.11'<..%
,46 <.'>.-, 16 ?'6 ;.?.<>'<7 <,46 > 66 / 45.1'=4.'
;.6 5, 6 47 5.68 =4.' -,71.., / 7>' - 46 ?1,?,6.1''>.'
/ ' <7.< 18 '-.,'=4.5=4.' / ,> 5 ;'7 ,<'41' .<7 ?1, '
>< 7 4<'?546 J1'<>'O .<'4';, / / .1;.'<'7 ,<'58 ?'1'
44' '046 6 <J45 .18 > 1 J>'?'1' <7>1 7 ?'17 ;45 .18 ,<
<.'5.4E .E 7 >,<<.'4<.' .@7.<6 ,< .7 4<.''??5 ;'7 ,<
> ' / .71'5. / .< ,??,6..6'''1.6?1 7=4 5.6'-' 7> ;7>.6%
46=4 ''?1.6.<7 5.6 / '1;:'<> 6.6 ?,41'5.', , / ?7.'>.6
>71'<J. 68 =4, =4.' / ?,17..6 > 1.;7. / .<7 >4' .-'<7
'' '16. 55.'?'1'<'- 1.6 E1'<J' 68 ,47 >7>'664Q;77 .6 '4'
/ / .'>1, 7 >.' '?,41' I';.'=4 ' ''>5, J >'.7 1.M
?,466.' >.'<,6 ?,176 5.6 1 ;:.6 ?1,?1 57' 1.6 =4 'V 6.'
1' .<7 -.<46 ;:'<J.1'5.416 >.<1 .6 ;.<71.'5.]' ?1,M
>4;7 ,<6 >.'<,71.'6,' ,7 >.'<?71.' <>4671 .% %
! 4 >56 ?'1' <75157 <'7 ,<'58 ;5' 156 ?'1' .@. / ?5.'
>.6 <'7 ,<6 5.6 ?546;, / / .1J'<7.6 .7 5.6 ?546 :'O 5.68
<,46 -,46 ?1,?,6.1,<6 >.'1. / > .1' '' ;.7 '046 8 .<
'66 / 5'<7 5.6 / '1;:'<> 6.6 / ?,175.6 ,4' .@?,17>.6
?'1' <,6 -' 66E '4@8 ?,41'5.';, / ?7.'>.6 71'<J.168 2
;.55.6 =4 '5.'6.1,<7 ?,41'5.';, / ?7.'>.6 H1'< ' 6%
,46 '-.O '466 ' '' > ;1 7.1' =4.5=4.6 > 6?,6 7 ,<6
?1,- 6, 1.6 =4 '6,<7 5.6 64 7.6 < ;.66' 1.6 >.6?1 < '
; ?.6 >.'5 O.17 '.7 >>J'5 75 =4.'-,46 '-.O ;,<6';1.6%
.7 >.6 > 6?,6 7 ,<6 =4.' -,46 '-.O E' 7.68 .<'1..4 '<7
5.6 O'11 .1.68 ?,41'> E.<>1.'5.';, / / .1;.'<'7 ,<'5 >.'
<-'6 ,<><';, / / .1;.' 71'<J.1%
8 66. / O5.'<'7 ,<'5.'>, 7 '<<,<;.1'=4.'5.';, / M
/ .1;.'>4' .-'<7 .67 O1.'?,41'7,46 5.6 1'<E' 6 I'=4.'
>.'7, 56 5.6 ?,176 >4'1,V'4 / .',<'?.<7 .<-,V.1'>.6 ,5 '
7 / .<76 .7 >.6 / '1;:'<> 6.6 >'<6 7,47.6 5.6 ;O.5 .6I'
=4.'7, 6 5.6 H1'<;' 6 <7 5.'>1, 7 > V' E' 1.'>.6 7'G
O5 66. / .<76 >.';, / / .1;.8 .<'6.'6,4 / .77'<7 '4';'4 '
7 ,<<. / . 7 =4.' ;:'=4.' 7'O5 66. / .<7 >, 7 E,41< 1'
?,41'J'1'<7 1'5.6 '471.6 >.6''-'< .6 '4@=4.55.6 76 6. %
1' .<7 .@?,6.68 6d5 '11 -' 7 =4 5'<.'E>7 ?'6 .< 7'7
> ';=4 77.1'5.6 .<J'J. / .<76 =4 5'41' 7 ;,<71';756641'
5.'?'V68 ,4'>.'?'V.1'5.6 6, / / .6 '4@=4.55.6 5''Q467 ;.'
,4'5.'J,4-.1<. / .<7 741;'?.4-.<7 5.';,<>' / <.1'2 '
,4Q467. / .<7%
'6 .55.' >, 7 'Q,47.1' =4 57'<7 <> 6?.<6'O5.' >.'
?1.<>1.'5.6 ?15;'47 ,<6 5.6 ?546 .@'.7.6 ?,41'6.'J'M
1'<7 1'>.6 / '4@7.11 O5.6=4.'1 ?'<>1' 7 5<-'6 ,<'>.'
5'' ?.67.8 7,47.6 5.6 / '1;:'<> 6.6 =4 ' - .<<.<7 >4'
.-'<7 6,<7 6,4 / 6.6 '' 'O,1>.1'2 '16. 55.'?,41V
E% 1.' =4'1'<7' <.'Q46=4 '' ;.'=4 5 6, 7 7'O5 '>.6 5'M
O'1.76 >'<6 > '471.6 ?,176 >4'1,V'4 / .8 6' <7 1 7'
J.<.1'5 .@ J.8 .7 6'5.'6'547?4O5 ;'?.47 5.'?.1 / .771.I
'?1.6.<7 5.6 <'- 1.6 >.'7,<6 5.6 ?,1768 '?156 '-, 1'
E' 7 '' '16. 55.'5'' =4'1'<7' <.8 .7 '?156 5G'-, 1'E' 7
E' 1.' '' 5.416;'1J' 6,<'8 >, -.<7 Q,4 1'>.'5''E';4575
>.'E' 1.'5.41'1.7,418 .7>.'71'<6?,17.1'5.416 / '1;:'<'
5 6.6 ?'17,47 ,:'5'' 6?.;45'7 ,<'>.'5.416 '1 / '7.416
?.<7 5.6 '??.5.1I .7 56 <.'>, -.<7 5 1.' '664Q.77 6 =4 '
';'4 77.1'5.6 E1' 6'>.' =4'1'<7' <.'.7 1 EE5?,6 7 ,<'=4

.67 7'O5 .'641'5.6 $ $$ ' ' $# ' '
?1,>4 7 .67 '??5 =45 '4@'> ?.<6.6 1.5'7 -.6 '' '>/ '
< 671'7 ,<'>.6 .O. .68 %%'
.'1., 5. / .<7 >.6 O'11 51.6 .7 5.' <,4-.'4' 7'1'
.@ J.<7 =4.' -,46 <.'> EE51 .O ?'6 >.'?1,<,<;.1'641'5
71' 7. / .<7 =4 ' >, 7 71.' E' 7 '4@ / '1;:'<> 6.6 >'
.-'<7 =4 '?1,- .<<.<7 >4';, / / .1;.'<'7 ,<'58 .7 64'
;.55.6 =4 '6,<7 <71,> 7.6 ?'1'5.';, / / .1;.' .71'<J.1'
.67 ?,41'1. / ?5 1'7,46 ;.6 ,OQ.76 =4.' 5.';, / 7 '> ''
J1 ;457 1.' .7 >.';, / / .1;.'-,46 ?1;6.<5.'5.'?1,Q.7 >'
> ;1.7 64 -'<7N %
& .,' DD ('3 $ (.3('-(f 3)(((- ' (0+*,'(,'-(''+$
)+.$('(',' $).('+, *'' ('' .+* +$'
' 'A'(','$$).('-(*0 .(./-(, *'' (+'4 .,''-+'. 8+* ('
-(''0+$''(+*2'(,'-('' +.36+*-$'(''-+*'', ,('' ('' 3)($('
' ' ,'*(9 3$+*,'#.+*9'$''4(*,'#+$.('-('' ,+) ''((*'
-+*'', +,(('' (''4+.,$(''-*' (0++,'(,'-(' +' ''+.)+.$(/(*'# *,'
*$''+*,/ -+*'' +' # . (' *'$ (/ (,' *'5+,+*' .(9 ((*,' 53
'(.+'$*3(''+ (*,'4.('(*, ' ' ''( ) ((''*+,$ *+ (/' ' ' '
-(' - .9+*$'+,$ *' -(' +- $*$',.+,$ *' -,$)(0+*,/ ,'
3+ ,$ **((*,'5 $9+.+*,$' (' (''+ ,.(''(,+) ''((*,''#.+*
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4+.'' *'#+$,' *'3($*$ -('((''+9(*,'D
+' ' ('' +*,$ **((*,''5 $'(. *,'# *.*$''4+.' ('' 6$
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' ' (''.(, *.''- '3 (.3('- ' (0+*,'(,'-('''+.)+.'
4 .. *,' ('#+$.('-+*'', *'' ('' 4 .,''- '. 8+ (/ +4.$
+0 $.'#+$,'5 +.+*,+$*'('2 +.'($ (/ ('*'+0 $.'+35*$,,(' ('''#.+,'
(,' (''-. $,''$ 4 '('' 4 .' +- $*$',.+,$ *'- ' (0+*,'''
36+.9('-('.+44 .,(.'+*'3(.,$#$3+,'-(''+*,(
' ('' +.36+*-$'(''4. 0(*+*,(''-(''-$,''.(, .'/+' (+'
3(4,$ *' -('' ,+)+3'' 5 $ 8' '(. *,' ,.+$,('' 3 (' -+*'' 3
+ ,.(''4 .,''-+'. 8+ (/ 4 .. *,'(*,.(.' -' +.'($ (/ ''
3 *' (./(,'($$,.('.-(24 .,((''4+.' (./ ('#.+*36$'('-
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+##.+* 6$ -(', *''-. $,'/ +' +'36+.9('5 (' ('-$ (' +.36+$$
-$'(''(. *,'(24(-$(('/ (,'' *''4)/ 4+.'+35 $,'2 3+ ,$,'
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3 ../ ,.+') .9/ +$*,! $'/ +..(! $'/ 6$ *0$ ('
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-+*'' -%+ ,.(''4 .,''5 ('3($ -(' +.'($ (/ +4.(''8 +0 $
#+$,'5 +.+*,+$*(/ ('' +.36+*-$'(''$ 4 .$((''('(. *,/+' ('
+..$O((/ (.(4 '(('' ' '' +'3 (#-(' +' .(9$(' (('' -('-$,('
+.36+*-$'(''5 $'4. *,'$.((''-(' (* .(4 '4 ' ,.(. (2
4 .,((''4+.' (./ *'4 .'4+''('+' (,.+*9(.' (*',.+*'$,/ '
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4.$''-+*'' (,+' +46(2(' +*' 4.(''(*,'--(.(,/ $ 4 .,((('-('
(,.+*9(./ (' .')+,$ (*,''#.+*#+$'/ *'-$.(3,((*,'-'
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'(.5*,'+''* (,,$('/,+*,'2 +.'($ ('5 ('-+*'' (''+ ,.(''4 .,'
- '. 8+ (/+*'-. $,'-('WI'4 .'BII'-(' +'0+ (./4 .,('4+.'
(-$,'-,+,' (' -. $,''(.+'$*-(4(*-+*$ -('3($ - ',+.$#9# -D
.+ / (,' (' -. $,''(.+'4(.8*/ 4+.' (''4.(4 '('' 2' +'.(9$('-('
- *+*(''*+,$ *+ ('/+*'4. #$,'-(' +'*+,$ *' ' &
' ' ('' +.36+*-$!''($ 4 .,-(''-$.(3,((*,'- ' (0+*,'
4+.'*+0$.(''#.+*8+$'/5 $5 ('4 .' ('3 4,('-(''- .+*9(.'/
*$.(*,'-(' +'*.#.+(#.+*36$'('5 ('3(('' $ 45.,(('4 .' (
3 4,('-(''#.+*8+$''

6$ ' ' ' ' `

" ' ' ' 'A '

&' $ /' (' - . $,' - ('WI' 4 .' BI I' '(.+' 4(.4+/' -9+ (,*(*,' 4+.' + - -$,$ *' ' 3($' - (* , . ' * .' (" +.36+, , -$'(" - - * ((" - + * " (,+ ,/' *K' W/' + * *(2(' + * ' 4. ('(* ,' - (3. (,/' $ 4 . , ((" - (' (, .+ * 9(.' - + * " (' . 8+ * (/' ,+ * ,' 4+ .' , (. . (' 5 * (4+ .' (./' '+ * " , , . (' +3 4+9 * ((" - (' 3(. ,$# 3+, " * ' ,$#$3+,$#" - * * (' #9 * (' + , . (' 5 (' (((' - ' (0+ * ,/' - - $ .4"4+.' (" 3 * ' " * ' +9(* ," - (' +' * + ,$ * ' # .+ * +$' (/' * ' $ ' 3' (* ' - .+' - (,+) $' /' (,/' ' ($.' - (#+ ,/' 4+ .' (" +9$' , .+, (' - (" $(* U' - (* 0 $' + * " (' 3+" $' (" 3(. ,$#$3+, (' * +33 4-9 * (. * ,' 4+" (" +.3) + * -$' (' (' - . $,' '(.+' 3 * '$9 * -/' (,' +' . (' ,$, ,$ * ' * (* ' '(.+' #+$, (' 5 * + ' ,+ * ,' 5 +' ('3(. ,$#$3+,' '(.+' .+44 . , (' - + * " (' - +$+$ - (' , . $' $' '

#.' ?1, Q.7' > .' >> ;1.7' .67' '> , ?7>%

" 67 ' <; .' .67' 5. - > .' " > @' : .<1.6%

, ' ' ' ' '- '

% 1< , 457' ?1>6 .<5.8' '<' < , / ' > 7' ; , / 7>' ; .<71 '5' > .' 5 =4 > '7 , <8' 4<' >> ;1.7' ; , <; .1< '<7' 5" 5 =4 > '7 , <N

' .' '11 .1>' > .6' >>?' 7. / .<76' > .'5" / ' 6 , <' > ,'1 , I'

' .' '117.1>' >4' >>?'17. <.<7' > .'5" / '1 <.I

' .' '11 .1>' >4' > .?'17. / .<7' > .6' E <'<; .6I

' .6' ;1>'<; .6' 641' 5.' ; > . - '<7' .5.1J.I'

6,' .6' Q41 '<> .6' .7' / ' 71 6.6%

" 6 , / / .' 7 ,7'5.' 6 .5. - ' 7' " \' ' % ' >W

41' 5" > . / '<> .' E' 7.' ?'1' % 5.@'<>1.' 1 ->8' J1.E' E; .1' .<' ; : .E' >4' ; > . - '<7' 0' 55 'J.' > .' 1 , - <6 ' =4 ' 7.<>' ' E' 1.' 1>7'05 1' 5" 5 =4 > '7 , <' ; , <E ,1 / > / .<7' '<' >>' ;1.5' >4' 9' Q4 <' > .1< .18' =4 , =4 5' ' 7' 7 ,4; : .' 5.' / , W' 7'<7' > .'5"5 =4 > '7 , <' '?41> .'6< - '<7' 5.6' 1>J5.6' >7'05 .6' Q '1' 5.' > . ;1.7' >4' (' 6.?7. / 01.' (* ' 8' 1 66. / 05> .' <' ' 7 , <'5.' > . ;1>7.' =< 5' < V' " ? '6' 5 .4' 2' >>5 0>1.1%

' ' ' ' ' ' *%

" '( ) ((' * ' ,$ * + 3/' '4 . (" +0 $.' * Z' (' .+L=4 . ,' - (' '(" $, (" - + $ * + ,$ * ' (,' - (" - +$ * ('/' - (3. (,(' 5 (' (" 4(,$, ("#(. ('/' (,+$.$(+' ' + , . (" - +$ * (" * + ,$ * + * 2' - (' X I' +.4(* , " (,' + * ! - (' ' '/' (* 3 +0(" - + * " (" # . , " * + ,$ * + ('/' * +' 4 * . . * ,' # $, . (' 0(* - " 5 * (* ' $, (' - (' + . $' +$$ * ' - (' " ( ) ((' * + ,$ * + (/' +4.3" +0 $.' 4 .$" +0$+' - (" 3 .4" + - !' $ * $' , .+ ,$. ' ' :

' ' 'WP' A

<' > .' % 5.6' 6 . ;1>7' 1.6' E' 7' 5. ;741.' > .' ?5 6 .416' '>1.66.68' 1.<E.1 / '<7' 7 ,47.6' > .6' ?1 ,7.67'7 , <6' > ,0> 6 ' 6'<; .' .7' > .' E >>5 7>' ' @' >> ;1.76> .' 66. / 05. .8' .7' > .6' 7> / , J<'J.6' > '> / 1'7 , <' ? ,41' 5" ; , <>< 7.' =4 .55.' " 7.<4.' > '<6' 5.6' ; 1; , <67'<; .6' ' ;74 .55.6%

546 .416' ; 7 ,V.<6' : ,16' > >7'7' > .' ? ,17.1' 5.6' '1 / .68' ,4' 1. / ? 66'<7' ' E ,<;7 , <6' =4 5' 5.41' .67' / ? ,66 05.' > '0'<' ,<<.18' E ,<7' ?'66.1' '1 66. / 05> .' > - .1J.6' 6 , / ' 54.6' ? ,41' .<71.5 .<' > .6' : , / / .6' > .' J4 .11.%

34. =0.6' > EE ;45#>6' 6 .5> - .47' 641' 1>1.' >4' Q ,41%

% 'N .?4 6' 54<J7. / ?6' , <' / .7' " ,1>1.' >4' Q ,41' <' 1'?? ,17' 641' 5" J'1> .' 6 ,5> . .' > .' '1 6I' ' ' Q ,416' ; .' 1'?? ,17' .67' 1.7'1> .8' .7' 5.6' .<< . / 6' >4' 0 .<' ?405 ;' .<' ?1 ,E 7.<7' ? ,41' 6>?'1.1' > .' < ,46' > .6' 6 ,5>'76' > .' 5" 5 0 .17>8' =4 ' 54 ' 6.1 , <7' 7 ,4Q ,416' E >>5.6%' .' > .M / '<> .' =4 .' 5.' 1'?? ,17' 6 , 7' E' 7' 641 5. ; : ' / ?%

' ' 'N .' - .<6' > .' 1. ; . - , 1' 4< .' 5.771.' > .' % .< ,48' 1'?? ,17.41' > .' . .57.' 'EE' 1.8' = ' / '4 ' '=4 .' 6 , <' 1'?? ,17' < .67' ? ,6' .<; ,1.' ?1>7' .<' , .' / ,M / .<7%' & ' 6Q>5> - .' > .6' / 41 / 41.6%P

+' 41' 5.' 1'?? ,17' E' 7' ?'1' % '4; :V' '4' < , / ' >4 ; , / 7.' > .6' ; , <71 047 , <6' ?407 =4 .68' 5.' >> ;1.7' 6< - '<7' .67' 1.<>4N' d'

&' '3 4 ,(' - ' * $ (' ,' 4 .('(* ,' ,' /' (" - (4(* '(" * ! $$$3$4+$(" - (' +' 0$ (' - (' +.$"3(' '(. * ,' - (, . (' ' +' 36+.9(' - * ' , . (' .' 4) $37' '(' .('(.0(/' '( ) ((' * + ,$ * + (/' - (' ' ,+ , * (.' $ * 3(' + (* , ' ' * .' +' - (4(* '(' - (' +' 9+. - (' * + ,$ * + (' ' - - # - (' +' 0$ (' - (' +.$' /' (,' ' * .' (' - (' - (' 4+$(. ($$,' - (" .(* ,("(' ,' - (, ,(" + . .$(. ((" - (' +' ('0$ (' :

+' <.' > .?47'7 , <' >4> 1. ;7 , 1.' >4' > 671 ;78' >4; , <1G' 6 , 5' J.<.1'5' > .' 5" ; , / / 4< .' .7' > .' 5" J'1> .' <'7 , <'5.' > ;' .'4@' 1. 4< .' .67' '> / 6.' " 5" 0'11.%' 5 .' E.5 ; 7.

F' * ' ^ ' < ' ' .

1 66. / 0 . .' >4' > . ;1.7' 1.<>4' 641' 'EE' 1.' >4' 1 , 8' .7' ?1 ,7.67.' >4' 0 5.' > .' 7 ,<6' 5.6' ; 7 ,V.<6' >4' > .?'17. / .<7' 2' 5.' > .E.<>1.%

+' 8' B.415'457 ' / .1V 5 .' ?1.6.<7.8' '4' < , / ' > .6' ; , / 7.6%> 'J1 ;45741.' .5' > .' ; , / / .1; .8' 5.' ?1 ,Q.7' > .' > . ;1.7' 64 - '<7I' $ $

W' 66. / 05. .' <'7 , <'5.' '47 ,1 6.' 5.' > 1. ;7 , 1.' >4' > .?'17. / .<7' > .' 1<.' "E' 1.' - .<>' .' ?'1' .67 / '7 , <' =4 '1'<7.' .7'5 , <6' ? ,41' 6.1- 1' " 5" ?1 ,?'J'7 , <' > .' 5" 1' ; .8' ' > .6' =4 7 - '7.416' > .' ; .' > .?'15. / . :78' '4@' ; , <M > 7 , <6' =4 .' 5.' > 1. ;7 , 1.' ;1 , 1" 5.6' ?546' ' - '<7'J.46.6' '4' 0 .<' ?405 ;8' .7' 'V; .' 5" ;5'46.' .@?1.66.' =4 .' 5.6' .7' - ' , <6' 6.1 , <7' ; , <6.1- .6' > '<6' .7.4>< .' > .' 3(' > .?'17. ' / .<7%' 6' +' '# .' > . ;1.7' .67' '> / 7.%

% ' ' 8' > .' ' <5 R. '<' >' <J.5VN' ,46' ' - ." ; : '1J.' : ,1' - ,71.' ; , / 7.' > ?5 , / '7 =4 .' > .' - ,46' E' 1.' 4<' 1'?? ,17' ; 1; , <67'<; 5.' > .6' . - .< . / .<76' > ,<7 % 4 ' - .V1 .1' - ,46' " 1.<>4' ; ,1'?7.8' '5 <' > .@'1 , <.1' 6' 5.' >1 , 7' > .6' J.<6' < ' - ' 5' ?'6' .7; ' - ,5.%55' .67' .<; ,1.' 4< .' '471.' / .641; ' < , <' / , <6' / ?>17'<7.8' . .67' > .' / .771.' " .@> ;47 , : '5.' > . .1.71.<>4' ; , <71.' ,4 6 ,6 .? :'K ,41 ' 0 , < # , <> . I' 5' - . 1" =4 , .' <.' ['<EE4.' ?'6' / ?4< . ' / .<7' 2' 4< .' J1'<> .' <'7 , <%

66. / 0 / .' 1.<>' 5.' >> ;1.7' - '<7N

W' 66. / 05> .' <'7 , <'5.' > . ;1.7.' =4 .' 5.' / < 671.' 54 ' 1.<>1" ; , / ?7.' > '<6' 71 , 6' Q ,416' > .' 1.@> ;47 , <' >4' > . ;1.7' 1.<>4' 641' % # , <>>%W

% 4 32 'N <.' E ,45.' > .' ?1 , .>>41.6' ,47' >7' ; , / ' / .<.> .6' ; , <71.' 5.6' E'01 ;'7.416' > .' E'4@' '66 J<'76I' = 5.5=4.6' ?.16 , <<.6' / > / .' , <7' .7' ?1 606' 41' 5.'E' 78' .7' ; .? .<>'<7' < ,46' 4.' - , , <6' ?'6' =4 '4;4< .' 'EE' 1.' > .' ; .' J.<1.'6 , 7' .<; ,1.'7.1 / <> .%' .' > . / '<> .' =4 .' >'<6' 71 , E' Q ,<1 '5.6' ; , / 7.6' > .6' 1'?? ,176' .7' > . '1 .; <.1; : .6' < ,46' 1.<> .<7' # , / ?7.' > .' 7 ,47.6' 5.J' ?1 , .>>41.6' 1.5'M 7 - .6' '4@' E'466' 1>6' > '66 J<'56%

.77.' ?1 , ? ,6 7 , <' .67' '> , ?7. .%

'N .' <.' ? .<6.' ?'6' =4 .' , <' > , - .' E' 1.' > EE.1.<; .' .<71.' % # , <>>' .7' 7 ,465.6' '471.6' 0E5 ; .16' > / J1>6N' 56' <.' 6 , <7' ?'6' / , <6' ; ,4?'05.6' =4 .' 54 I' 5" 5 65.' .<' .67' ; ,4<4.%' .' > . / '<> .' =4 B' .<' 6 , 7' >0<<>' 5. ;741.' " 66. / 05> .8' .7' =4 5' 5.41' 6 , 7' '?? 5 =4 .' 5" / > / .' ? . <.' =4 " % # , <> .8' 7' G

66. / 05> .' >> ; > .' =4 .' ; .77.' 5 67.' 54 ' 6.1" <; . ' 6' / / .<7' ?1.6 .<7. .%

% 'N ,46' ' - .0' ,1> , <<>' U 5" / 4< ; ?' 5.' > .' E' 1.' 5.' 1. ; .<6. / .5 7' > .' 7 ,47.6' 5.6' ?.16 , / . ' =4 '6.' 71 ,4 - .<7' / ' <5.<'<7>'<65' ; '? 7'5.8' 5. 7' / ? ,17'<7' =4 .' ; .77.' / .641.'6 , 7' 641 5. ; : ' / ?' / 6.' 2' .@. ;47 , <8' '77.<> ' =4 .' , <' - .<<.' ; : .0' / , ' / .' > . / '<> .' 1' =4 ' Q.' 64 6%' '5'47' =4 .' 7 , <6' 5.6' : '0 7'<76' 6 , .<7' ,05 J.6' > .' > . ;5'1.1' 6 56' ' 1. ; .5.<7' ?'6' ; : .0' .4@' > >71'<J.16%' .6' ; 7 ,V.<6' 6 ,<7' .<' ; .' / , / .<7' 5.6' 6. '7 4; 7.6' > .'5" # , <67 747 , <I' 56' > , - .47' E' 1.' 7 ,46' 5.4 6' .EE ,176' ? ,41' > . . ,4-1 1' 7 , <6 5.6' ; , <6?1'7.4E6' .7' 7 ,46' 5.6' 6' ;>5;1'76 ' > , <7' '1 6' 1 .J ,1J.8' ' ; < , <6' =4 .55.6' / .641.6' " ?1 6.6' " ; .7' >J' - >' 5.' / ' 1.' > .' '1 68

' 3 ' > - >=4.' > 474<N' <6 67.'641' 5" / ,M 7 , <' > .' % '0'47%' .' 5" ;1 , 6' <> 6? .<6'05.%' .'014 7' ; ,417' / > / .' > .Q" =4 , <' 6.' ?1.?'1.' " > .' , ,4 - .55.6' ; .< .6' ? ,41' > .< ' <%

% 'N ; '6' - , <6' ?'1' % Q0 , <7 / ,1 <' =4 .' 5.6' > / J1'476' 6.' ? , ? ,6.47' >;' E 1.' 4 .' 7.<7'7 - .' ? ,41' .<71.' 1' > '<6' 5.'1 ,V'4 / .%' ' .67' / ? ,66 05.' =4 . ; .6' ; , <6 ' ? 1'7.416' <.' E'66.<7' ?'6' 1.E5.@ , <' =4 .8' 7'4> 6' =4 56' 7.<7.1 , <7' 4< .' < - '6 , <8' 5' .67' < . ; .66' 1.' > , ; ; '6 , << .1' .<' / > < . '7. / ?6' 4<' / ,4 - . / .<7' > '<6' 5" ; '? 7'5.% # .67' ? ,41' ; .5" =4 .' < ,46' - ,V , <6' '11 - .1> ;5 >51'<J.1.7' / > / .' > .' < ,6' > .?'17. / .<76' 4< .' E ,45.' > .' ?.16 ,7 / 'J.6' 646 ' ? . ;768' > .6' ; > . - '<7' J.<7 56 : , / / .68' 6.' > 6'<7' 7.56%' .' 0 ,' ?'15.' ?'6' > .6' 014 76' 1.?'<>46' =4 .' E , < / < .' ?54 ' 6 ;416' .4>1 , 76' > .' '1 688' .7' < ,7' / / .<7' 1 66. / 05> .' <'7 , <'5.%' '0'<> , <<.' ; .6 , <' " 5" 1 <5'< ; .>4' > ' 1. ;7 , 1.' >4' >>?'17. / .'7%' ,46' '1 , <6' ' > , ?7. : .1' > .6

> 6?,6 7 ,<6 / 5 5' 1.6 E,1 '6' J . 68AAAAAAAAAAA
'66.08 7E'47 =4 .55.6 6, .<7 / 6.6 " .@.;47 ,<% .' / .'
0,1<.' .< ;.' / , / .<7 " >. / '<>.1 =4.' 5.' / ' 1.' >.'
'1 6 6, 5 <'<> ' " 5" 0'11.8 ?,41 1.<>1.' ; , / ?7.'>.'
.@>;47 ,< >4'>.;1.7 =4.'7 ,<6 ' - .0 1.<>4 641 5.'1. 8
; .<6. / .<7 >.6 ?.16,<<.6 =4 ' 6.' 71,4 - .<5 / ' <7.<'<7
>'<6 5" ;'? 7'7.%

66. / 05..'>>; >.'=4.' % 5.' / ' 1.'>.' '1 6 6.'1.< '
>1" " 5" 0'11.8 6>'<;.'7.<'<7.%

' N -'<7 >.'1.<>1.' ; , / ?7.% >.' 'EE' 1.'>.'
,1.<714 8 Q.' >, 6 1.?,<>1.' " '66.15 ,< E' 7.' ?'1
% '0'<7 8 =4.' % ,<7 / ,1 < 54 ' ' - ' 5 > 7 =4.'5.6
/ J1'<76 >;- ' .<7 0 .<7>7 7.<7.1 4<.' '77'=4.% .7'7
" ?.4 ?1 '6>1 >.6 / J1'<76 .67 >.' ' " 98 8 ?'1 / '
5.6=4.56 ,< ; , / ?7.' '; >.1<<7 ; ,<6. 55.16 '4 ?'1 '
5. / .<7 8 .7 4< 1.J / .<7 >.' ?1>71.6 .7 >.' ; : '<, <.6%
,< <7.<7 ,< < .67 ?'6 ;.?.<>' 7 > .<>,1 / 1 6 '
6. / 05..8 .< 54 ' <6? 1'<7 4<.'E'466.'6>;41 7.I / ' 6 Q.'
>, 6 54 ' > 1.' =4 4<.'?'1. 55.' '1 / >.'< .67 ?'6 <,< ?546
6 ' 1.>,47'05.% + ' '?1.6 5.6 71,405.6 641-.<46 >'<6
5.6 .5'76 >.' .->=4.'>.'K>5.8 5 " >. / '<>.%" . / ?. '
1.41 ' " 9 ' : , / / .6 ?,41 1>7'05 1 ,1>1.I .7 56 54 '
,<7 >7> E,41< 6% #.77.''11 -. ' " ;'46> >.' <=4 ;74>.'
>'<6 5.6 >>?'17. / . 76 -, 6 <6% .'7 .'E.1' '641 ;.'E' 7
'4;4<.'1.E5.@ ,<NQ.' / .' ; ,<7.<7.1' '>.' - ,46 E' 1.'5.. '
741.'>4 71' 7> ?'66> .<71.'5.'1, '>.'H1'<;.' .7 . ->44.'
>.'K>5.% %

'1>6457.'>4 71' 7.' =4.' 5.' 1, ' .7 5.' ?1 <;. >->=4.'
6 .<J'J.<71>; ?1,=4. / .<7 " ?1.<>1.'7,<6 5.6 / ,V.<6
?,41 5" J'1'<7Q.' >.' 5.416 .7'76 1.6?.;7 E68 / > / .' "
E.1< .1 5.6 ?'66'J.68 6'5.';'6 .@ J.% + , ; ' .< ; ,<M
6.=4.<;.'5.' ?1,Q.7 >.'>>;1.7 =4.' - ,46?1.6.<7.'5.' ; , '
% / 7.' > ?5, / '7 =4.N

66. / 05..'<'7 ,<'5.'>..1>7.'=4.'5.' / < 671.' >.6
'EE' 1.6 .71'<J.1.6 .<-.11"'4?1>6 >.' >->=4.'>.'K 5.'
4< / < 671.' '1J .'>.'1.;5' / .1 .@>;47 ,< >< 71' 7>
>.' () %

GGG N ' E'47 / .571.'>' 6 '17 ;5.' 5" > 6?,6 7 ,<
; ,<7.<4.'>'<6 5.' 71' 7>N _ 7 " E.1 / .1 5.6 ?'66'J.6 8
6'5.'?'6 .@ J.% $ G $ .8

' N #.6 / ,76 <> =4.1' .<7 =4.'? ,46 '- ,<6
>.Q" >.6 . . / 6 >'<6 5.'?'V6?.7 Q.'<.';1, 6 ?'6=4 5
6> 7 <' ?14>.<78 <' -1' '>.'5.'> 1.% ' 55.416 . .67 ?
5.'1.6457'7 >.' 5" .J,; '7 ,< .7 ;.' =4 '?,41;" E' 1.'
?'17 .'>.' <6714;7 ,< =4.' ,<>,<<.1" " .<1,V.%

' ; D ' N < " > 7 =4.'<,46 < ' - ,<6 ?'6 >.< '
<. / 6 >'<6 ;.' ?'V6I / ' 6 5 / .' 6. / 05.' " / , 8 '4
.,<71' 1.8 =4.'<,46 < ' - , :6=4.' ; .5" >.?4 6 K>5.Q46 '
=4 " 4@. / 0,41J N 5.' ;'1> <'5 >.' , : '< 8 K ,4 55.8
#,<>>8 .7;%8 .7;% ' .67 41J.<7 =4.'5.6 ?'66'J.6 6, .<7
E.1 / >6%

' ; ' < V " ?'6 > : ,67 5 7>8 > 7 ,<I . .67
'4 / , / 6 4<.' =4.67 ,<I .5.;7.41 >.' 'V.<;.8 5.6
>->=4.6 >.'K>5.'.7 >.' ? 1.8 =4 '<.' ; .66.<7 >.'1 5' '
/ .1 '4?1 6 >.'5" > 97.' >.' '7 60,<<.'?,41 .<J'J.1
> 6,47.< 1 5.6 ?1.7.<7 ,<6 >.6 ?1 <; .6 ?,66.66 ,<<>6
'.< 56';.8 / .' ?'1' 66.<7 0 .< ,6 .<<. / 6% .'?'V6
>.' ,1.<714 ' .67 .<;5'-.' >'<6 5" H1'<;.8 .7 6'<,46
5' 6,<6 ?5';.1 >.6 71,4?.6 '-'<7 5.6 >.5 5.6I <,46
<.'?,411,<6 ?546V '11 - .1% 546 .416 ;'<7,<6 64 66.68
=4 ' < ' / .<7 ?'6 5" # ,<67 747 ,<8 ,1 7 E' 7 #4< <7 1
5.6 '471.6 '4 ?'66'J.'>.6 471 ; : .<6% ' ,< " E' 7 - . '
< 1 ' " 9 ' : , / / .68 ,< ?.<7 0 .< . HE' 1.' - .< 1 >' '
-'<7'J.% < " > 7 ; '=4 '< V ' - ' 5 =4.' 70 ' : , / / .6
" 4@. / 0,41J8 % 4-.V<.1 / " > 78' ' / , 8.c4 5 V
.< ' - ' 5) ,4 % .'>. / '<>.'>,<.'=4.'5.6 <6714;M
7 ,<6 =4 '6.1,<7 >,<<..6 " .<-,V > ?,17.<7 5" 6, / '
/ '7 ,< ' .->=4.'>.'K 5.'>.' / ' <7.< 1 5.6 71' 7.68
.7 =4.'<,46 'V,<6 " , ; .<?.1 5.6 >.E 5.68 6'<6 =4, '
<,46 6.1,<6 641?1 6 ?'1

' N .'>. / '<>.' " % 5.'1'??,17.41 6' '
/ ' 6,< > 471 ; : .'4 .67 ?'6 .< J4.11.' ' - .;'<,46%
% " ' ' .'<.' 1.J'1>.' ?'6 <,< ?546 ; , / / .'
0,<<.6 5.6 <7.<7 ,<6 >.6 >5.;7.416 >.' 1. - .6 .7 >.

'V.<;.8 < ' >.'1>->=4.'>.'K>5.I / ' 6 <,46 <.'?,4 '
- ,<6 ?'6 ?.<6.1 =4.'5" / 'Q,1 7V >.'5" >E.7.'6, 5 >.';.7
'- 6% 46=4 ; ' .55.' " 71' <E.' .< 5,<J4.41I .7?.45U71.'
6.1' 7 5 ?,66 05.'=4.'J4 'E-57 4<' ' - 6 / ,>E.1.8
.7 .<71.?1 6.'> 4<.'<,4 - .55.'<E.J, ; '7 ,<% '<.'6.1' 7
>,<.'?'6 ?14>.<7 >.'?1, - ,=4.1 5.6 ?4 66'<; .6 ?'1 >.6
/ .6 1.6I Q.'>. / '<>.'=4 ,< 6 .< 7 .<<.' '4 >.;1.7 =4.
% ' '?1,?,6>%

' ; 5 ' .'?1,?,6.'>.'>..1>7.18 ?'1 '>> 7 ,<
' '17 ;5.'=4 ' - ,46 .67 ?1E.6.<7> ?'1 - ,71.' ; , / 7> > M
?5, / '7 =4.'8 =4 .8 ; ,<E,1 / > / .<7 " 5" >. / '<>.'>4
; , / / '<>'<7 / 5 7' 1.'>'<6 5.'>>?'17. / .<7 >4 ,406 8
5 6, 5 '>Q, <7 " 5" J'1< 6,< >4 ; : >7.'4 >.'K5' / ,<7
9 'J'1>.6 <'7 ,<'4@%

#.77.'?1,?,6 7 ,< .67 '>,?7..%

546 .416 / . / 01.6 <6 67.<7 ?,41 =4.'5.6 <6714;M
7 ,<6 >.' .1 - ,V.'>.'H1'<;.'6, .<7 ?1.; 6.6 641 5" ?1,M
?,6 7 ,< >.'E.1 / .1 5.6 ?'66'J.68 .7 =4.' ; .6 <6714;7 ,<6
6, .<7 > 6;47..6 >'<6 66. / 05E..%

' 1 ' N 5 V '41' 7 >.'J1'<>6 < ; ,<-.< .<76 "
> 6;47.1?405 =4. / .<7 >.6 <6714;7 ,<6 > ?5, / '7 = .6%
.'6' 6 0 .< =4 ' E'47 =4.' .->=4.'6 .@?5 =4.'<.57. '
/ .<7N <7.<>.0 - ,46 ,4 < .47.<>.0 - ,46 ?'6 E.1 / .1
5.'?'66'J.Z / ' J . .67 " 5" - J 5'<;.'>4 ?,4 - , 1 .@.'
;47 E " ;<, 6 1 4< : , / / .'E.1 / .'.7 6417,47 ' / ' >.'5"
1. - ,547 ,<%

%< 3 6 '>,?7.5.>.;1.7=4 ' - ,46 .67
?1E.6.<7> ?'1 5.' ; , / 7.'> ?5, / '7 =4.8 / ' 6 Q.'>. / '<>.'
=4 ' V 6, 5 ' 'Q, 7.' =4.' .<-,V> >.'H1'<;.'<.'?,411"
?, <7 ?'17 1 6'<6 6 .71.' <E,1 / .' '4@ >.?47>6 >.6 >.'
?'17. / .<76 >4 ,406 .7 >4 B'47 : < >4 ;'1';7.1.'>.'
7 .->=4.'>.'K>5.8 .7 >.'7, 7.' 5.6 / .<..6 E54 5 " . / M
?5,V..6 ?,41 1;<-.16.1 <,71.'1. - ,547 ,<8 .7 =4.' ' / '
0'66'>.41 >.'H1'<;.' " ,5.41.'6.1" ; : '1J> > 546714 1.'
5.6 ;'<7,<6 64 66\ 6 >.6 >. / '1; : .6 E' 7.6 '4?1E.6 >4
?1 <;. >->=4.8 .7 >.'5.6 6, / / .1 >.'<.'5' 66.1 .<71.1
'4;4<.'71,4?.'?,41 '57.1 " ,1.<714 %

' # .6 > 6?,6 7 ,<6 .7 ?546 .416 '471.6 6,<7
5" / '7 .1.'>.' <6714;7 ,<I / ' 6 5 .67 <47 5.'>.'5.6
; , / ?1.<>1.'>'<6 5.'>.;1.7%

% '17 ;5.' ?1,?,6E.'4 <, / '>4 ; , / 7E.'> ?5, / '7 =4.'
.67 '>,?7E.%

' + ' N -'<7 >.'6,4 / .771.' " 5" > 6;466 ,< 5.'
>>#1.7 =4.'Q.' - ,46 ' ' ?1,?,6> 0 .18 Q.'>, 6 >.;5'1.1
=4 .Q ' ' .7.' ' '- 6>.'7,47 ;.'=4 ' ; , : . .1<.'5" E,1 / '7 ,<
>4 71 04<'58 .7 <,< >.' 1<771 047 ,< >.' 5" 6,4 - .1' '
<.7.% ,47 ;.'=4.'Q ' ' > 7 " ; .'6 V.7>7' 7 '- 6 >4 ; ,M
/ 7.'8 .7 <,< ?'6Q.' / .<%G

' # ' N .' 1.J'1>.'5.' ?1,Q.7 =4 ' - ,46 .67
6,< / 6 ; , / / .'>.6714;7 E >.6 ?1 <; ?.6 >.'5" 5 0 .17.I
.7 Q.'>. / '<>.'=4.'5.6 >. 5 56 >,<7 ,< - . 47 54 '>,<<.1
'751 047 ,< 6, .<7 1.<-,VE.6 " 5" ; ,<<' 66'<;.' >.6
71 04<'4@ ,1> <' 1.6%

')+ ' N .'>. / '<>.'=4.'6.6 E,<;7 ,<6
6, .<7 5 / 7..6 " 5" ; ,<<' 66'<;.' >.6 >.076 =<'<. '
; .66 7.<7 6,< .7'05 66. / .<7%

% ,0.6? .11.'6.'?1E.6.<7.' " 5" 71 04<.%

< >. / '<>.' >'<6 > - .16.6 ?'17 .6 >.' 5" 6'55.' '
'55.1 '4@ - , @%

546 .416 / . / 01.6 >. / '<>.<7 =4.' ,< / .77.'>' '
0,1> '4@ - , @ 5" =4.67 ,< >.'6' - , 1 6 '5.6 Q4J. / .<76 8
=4 ' 6.1,<7 1.<>46 ?,41 5.6 >.076 1.5'7 E6 " .-.<. '
/ .<7 >4 ; : ' / ? >.'5" $ 8 6.1,47 6,4 / 6 "
'??.5%

66. / 05E..'>.; >.' " 4<'< / 7.' =4.' '??.5'41"
5 .4%

' % 5.'?1.6 >.<7 / .7'4@ - , @ 5" =4.67 ,< >.'6' - , 1
6 '6.1"<, / / > 4<.' ; , / / 66 ,< ?'17 ;45 E.1.%

#.77.'?1,?,6 7 ,< .67 1.Q.7E..

.'>>;1.7 64 - '<7 .67 1.<>4N

W 66. / 05..4'7 ,<'5.>>;1.7.8 5,=4 .5 ' ; ;46'7.4E
?405 ; >4 71 04<'5 >4 6 @E. / .' '11,<> 66. / .<7 6.1"
/ '<>.'?,41 1.<>1.' ; , / ?7.'>.6 >. / '1; : .6 =4 ' " >3
E' 1.' ' , ; ;'6 ,< >.6 >.076 >.6 (.7) >4 ?1.6.<7

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

' ' [% !%[+ + ' n

7 'G F &)((' > ' ' . ,71 ' >'<6 W.' ? , 178 5.''9 >4 ?1 7 / , 6 8 6 @ - ' 66. '4@ / '1W : '<>6 >'<, 6d 8 18 % E % '

.'?1. / .18 <01< / ' E.' bPI'E;08 V.'5'' ; , / ?'J< . '6 ' ' 75=4 .8 - .<' 4 >4 K.<J'5.' .5>.' 1'<=>.0'18 ' . ' 4<?8 ; '1J' 60< . 7 1, ,466.5 <.6 8 7, 5.6 >.' ; ,7, .'86'5?.71.8 ?,4>1.8 .7;%8 .67 / . ' 4< / 55 ?: >.' 1 @>'5.168>'<, 6% '' ; '1J' 6,< >4 6. ; ,<> >. ,06 0'7 7 .<768 <, / / .' & ' ' ! * F ' >.'Q'' < . / . ; , / ?'J< . 8 ; ,<6 6 .' .< 7: .8 7, 5.6 >.%5E'< < 886,7.1 .6 .7 >1, J4.>.6I -.<c< ' >.'5'' # : <.8 .7 .55.' .67 .-'540.' '' 9 ' / 55.'1 @> .16-\ . ' =4'71.' ' 71.6 0' 7 / .<76 6,<7 o(* '>.' 5.'97. ' #1, @8 .7 5.41 ; : '1J. / .<78 ; ,=6 67J<7 . E 64;1.'8 14 < .7 =4.5=4.6 '471 '>.<1..6 .6 <7 55.6 8 / ,<7.' %C ' / 55.' @>'5.16%

' ; / ' / J

'% ' ' 7 ' . '1, ' >.' '1>' J<.' <. ;0. ; . '7,4Q,4168 >'<6 .]1EI, 7.67'7 ,< ' =4 '6406 67.<5 >.?4 6 5,<J5. / ?6 . 71.'5''1.?405 = , ' >.' ! .<.6 . '54 ' T =4 ''6.' 1' .<'J.1 4< ?1.7.@7.' > '77'=4.1 5.6 ! .<, 68 >,<7 5 ;1, 7 '4Q,41> :4 ' ' - , 1 0 ,< / '1;008 ?'17.'=4.' 5'' H1'<; .8 =4 ' .67 6,< '55 . .8 <.' ?'1'5 ' ?'6 ?.4- , 1 , ; ;4 ?.1 >.6 '5 E' 1.6 >4 >. : , 16I 'Q467 E . ' .< #,<6.M =4.<; .' 5.6 'J .66 ,<6 >.' 6.6 64Q.768 =4 ' ,<7 - ,5.' 5.' 7.11 7, 1.' >.8 5''1.?405 =4.8 .7 5 '' .<-,VO >J6 71,4?.P \41 5.6 E1,<7 .1.6 ?,41 .<; ,41'J.1 ; .6 - ,5.<; .6% %#.6 >.4@ ?4 66'<; .6 ,<7 ?1, / 6 >.6 .<'1'??,17.1 '' 5''>.' 5 6 ,<>4 ; '0 <.7 >.' '>1 >I / ' 6 4< / . / , 1.'= % % '1>.' '' E' 7 1. / .771.' '5' ; ,41 >.' '>1 > '<' 17,<,.'=4 ' .67 > 6?,6.' ''6.'6.1- 1 >4 / J <>1.' ?1.7.@7.' 5, 41 1.Q.5.17,47..6?0; .'> ' ; ; , / / ,>. / .<7% 67 ; ' .<' % [.'5'' 4< ? .7.@7.'?,41 ' - , 1 4<.' ?.7 7.' '1 / 0.'?1 7.' ' =4.5=4.' '471.' .@?.> 7 ,< ?546 6. ;1.7.'Z

! ' +' .6 5.571.6 >.' K 1 / <J: ' / ' >,<7 <,46 1,4>1 ,<6 ?,4-, 1 1.-,=4.1 .< >,47.' '47: .<7 ; E.8 1 / ' 6=4 ' <.'6,<7< '5: .41.46. / .<7 =4.'71, ? -1' .68 '<' <,<;#<7 =4 ' '' #;5'7.'>'<6 ; .75.' - 55.' 4< = .6 ?546 7.1 ' 1 05.6 6,45.-. / .<76 8 '' , ; ; '6 ,< >.' '0< - .16' 1.'>.' 5'' 1.-,547 ,< E1'< ' 6.% .6.<<. / 68 =4 '5'' . '5, / < .<7 ?'17,45 > 4 .' / '< .1.' '71, ; .'8 6,<7 .<E < ?'1-.<46 '' 10'5 6.1 5.416 E4<.67.6 ?1.> ;7 ,<6%

546 .416 ; 7,V.<68 .67 / '05.6 ''7,<6 0J'1>68 '-' .<7 : , 6 :>7;5>.' '>5.V?,41 #.5.01.1 ; .75.'E97.8 ; , / / .' ' ,<>1.6 5.6 / 6 >.'5''#,<67 747 ,< 6 .7' .< 71.4< 6 '' 5'' E' <.46.' 7'-.1<.'>.'5''#,41,<<.' .7>.' <;1.'?,41 ; .5.01.1 5.' UQ4 55.7% .4@ / 'J 671'568 ' ; ; , / ?'J<.6 >.' =4.5=4.6 ' & ,EE >= 6 >.'?,5 ; .'P8 6 07' .<7 %.<>46 >'<6 ; .7 : ,7.5 ?,41 V / ' <7.< 1 5'' ?' @ .7 5.' Q,< ,1>1.% <.'<, / 01.46.'?,?45' ; .' ' ; ; ,417 -.16 5.6 .4@ : .41.6 8 <-.67 7 '40.1J.8 / 41 / 41.' ; .<71.'5.6 71'<=4 55.6 ' / 6 >.' 5'' 1.-,547 ,< 8 .7 - ' 46=4 '5.6 / .<'1.1% #.4@ ; 8 <.' -,45'<7 >,<<.1 '<;4< ?1.7.@7.' '4@ 6.> 7 .<@ 8 6.' 1.7 1.<7 ?' 6 05. / .<7 '' 6 @ : .41.68 .'J1,6 >.6 / . ; ,<7.<768 =4, =4.'>.Q''E,17 . ; : '4EE.8 5.6 5' 66.' ?'66.1I / ' 6 0 .<7,7 ,< .<7.<> >.6 ;1 6 >.'1'J.I .6 ? ;11.6%-,5.<78 .7 7,47.65.6 - 71.6 >.' '40.1J.'6,<7 <1 6..6% .' 5'' . / .45.' 6.' ?,17.' -.16 5'' <,4-.55.' ; .' ' ?.55.' >.6 ?1.60V7.1 .<6 8 =4 ' >.- .<7 .< 4< <67'<7 5'' ?1, .'>.6 E5' / / .6% ;66.> 5 .4@ 0145.<7>.-'<5 .> E ; .' . / 01'6.75 .RE J .'>''>,;7.41 1 .675.V8.J'5. / .1 7; ,<< ' ?'1 6.6 -.1746 .7 6.6 7'5.<768 =4 ' ' ; ,<6' ;1.68 5V '' =4; =4.6 / , 68 ''>.E.<>1.'5' ; ,<67 747 ,< .75''1.-,547 ,<

E1'< ' 6.6 ;0<71.' 5.6 > '71 0.6 - 145.<7.6>. %K< Q7.N '' - . 57.' %; : '?.55.' >.6 ' ?1.60V7.1 .<6 .67 .<-.5,??. .' >'<6 5'' / . / .' ?1,6 / ?7 ,<I ,< V / .7 5.' E.4% 46=4.' U ; .6 .@# ' <7,5.1'05.' < ' - ' ,<E .<; ,1.' .7.'> <J#6 =4.' <71.' > #6 ,> E ; .68 4E 5.' / <4 7 ; .'J1,4?.57 .% 6.> 7 .4@ 6.'> - >.' .< ?546 .416 0'<>.6 8 'E < >.' / 457 M ?5 .1 .7> 4; ; . ;1.B.6 1'-'J.68 < >67' ; : . 77. 7>.' ; .6%d %0 J'<>6 ?=466.Q<6=4 '' H' 1 B 558 UE <.'>. / 5 .4.'>,' 5'' - .8%,4 .7' 56 7 .E7%5'' / ' 6 4>4 >4; .41 <.675.V-' ' #.5 ' / 7 >.6 0,7E / .6 .5 >,' <5 0.1 .' .7 ,05 J.'>.' E4 1' 'V. ; . '' E' / ,?%=4.5=4.6 / <47.6 ?546 7'1> ' 6.1' 7 \ , <51.' .<71.'5.' / ' <6 >.6 <; .4> ' 1.6% H4E .4@ >.'1.' =4 58 5.41 >7' 7 . '??.8 76 / .77.<7 7,<7 .< ? . ; .8 >. ' 714 6. <7 5.>'0,1'7, 1.' .'1'6. 7 5'' / ' 6,778 # .E47' . ' =E .8 .'?'6 '' 5''7.11 05.'441 7 >4 Q;4> '4 -.<>1.> 8 < ' V' 77 . / 'J 671'56 .7 5.6 <; ?'4@ : '0 7'<76 6.' ; ,< % .17.1.<7 5.'5.<>. / ' < ?,41 5.'1 . ,41 >.' , 1>1. 76' / '<='' .<5>.' E,1; . '1 / . .' ?,41 4<?. .1 '' ; .6 69. '5.1'768=4.'5.4 '< .641.6 >.'?14>.<; .' .75.416 .@: ,17'M 7 ,<6 <.'E 1.<7 =4 11 7.1 I >.'6,17.' =4 156 &@7,7 <<.V.<7 5.6 / / .%.@..6V?.<>'<7 7,47 5.' -.<>1.>' .E 5'' :4 7' 6< -'<7.% + .6' <.>' / U7 <7<,4-.25.'7.<7'7 -.6>.'5'' '?'17>4 E,1> V5.E41>%.7>.' / >.6 ?1 <; ?7 <@ : '0 7'<76% 8>.' : <4KJ: ' / ,<> .' .<- 1,<6 ?,41 ; '5 / .1 5.6 %6#7: ' ' .4a 8 .7 7,4Q,416 '<6 677; ; .6% ' Z 5 .41.6 >46, 1. . ' ?J4?5. .EE1 <> .- <7 U 5'' ; : '1J.' .7 7<'1=<''?546 .41 ' %Q< ' 6,?6 . - , 4 . .' 'E @ E5' / / .6% '?546 >4<.5 .4.' >#' K 1 E J: ' / ' 5'%1,47.' >.' <<>1.' .7' 7 ; ,4-.17.' >.' 0'<> 76 ; J55' .<7 J1, . 1 7''71,4?.% < ; , / ?7.' ?546 >. U ' 1'' 6 <6 & .71 7.6 ,E' 01E 5 % < ' 1. '1=4 ' >'<6 5.6 ; : .E6 ; .77. <6411. ;7 ,< 5.' ?546 J1'<>'6'<J E , >8 7'<> 6 =4.'5.' .@. ;47.416 >45.416 ,1>1.' .7' .E 7' ?1.6=4.'7,46 -1.7 B6E1,4-' .<7 4<.' E ' 6,< ; ,W %d >' / <.'UE''>.714;7 ,E ' =4 'E45 6,5..'8 56 V / .77' .<7 5.' E.4 ?,41 ' - , 1 ?546 7,7E' 7N 7.<' 7 .55.''4<.' / ' 6,< ' ' / .' ,4 =E % ,454 6.<7 #?'1J<.1 8 56 .< .<E,41 , ' .<7 5.6 ?,17.6E5'' ? 5' .<78 .7 . / ?,17' .<7 . ; .0.4@ 5.6 < .405.6 ; , / / . 6- 6 5.6 .<66.<7' ; : . .'U<<.' -.<7.8 ?4 6 56 V' 1.-.?' .<7 / .771.' 5.' / '17.'<% + ' '' 0.55.' / ' 6,< >.' % B4 / ?:1 .68 ; .55.' >4 ; .5.01.' / ?1 / .41 K'6 .1- 55.8 / ,17 5V ''=4.5=4.6 '<<..68 E 1.<7 >#/ ,' 5 .6 ?'1 71.<7.'>.' ; .6 / 6U1'05.6 '- . ; ' '47'<7> ,1>1.' .7 > . ' ; '5 / . '=4.'6'5.'?1,?1 7' 1.'5.6 .E 7 ?'V.6 ''7'<7 ?'1 Q,41% ' <E < 5.'1.J / .<7 >.6 K5.46 > @E,1>'E47 ; , / ' / '<>.'6' <.>' ?,41 K 1 / <J: ' / 8 ' <6 ' =4.'5.671,4?.6 5,J#.6U ,77 <J: ' / ' I / ' 6 ; .6 6. ; ,416 < 'Q' <7 ?4 '1 6 1 -.1=4.E.'> / '<; : .' '< 6, 18 ,< ;1' <7 =4.'5''E41.41 >4 ?. ,?5.< ' 7 .<; ,1. .4 5.'7.,7?6 >.'E' 1.'0 .<>.6 1'Z' -'J.6% %

.4@ 5.771.6 >.' K 1 / <J: ' / '8 5''?1. / .1.' >'75.' >4 > / '<; : .' (8 U ' : .41.6 >.5 '?1.6 / > 8.7 5''6. ; ,<>.8 >.' (: .41.6 >4 6, 18 '<<,<; .<7 >.6 ;1' <7.6 ?,41 5'' - 55.' .<7 .1.I E 55.6 >.6 J<.<7 >.6 E,1J.1?<6 .7>.6; : '1' 0,<< .76 ; , / / .' - .<'<7 .< J1'<>'<, / 01.'6.Q, <>1.' '4@ / 4E <6% +' .6 ?.5,7,<6 6.' ?,17.<7Q46=4 '' / 55.6 >'<6 5'' ; ' / ?'J<.'8 1'< ,<<.<7 5.6 : '0 7'<76 8 .7 '< / , <>1.'1.EE 6 / .<' ; .<7 >.' '11 - . .' >4 J1,6 >; 6 6.> ' 7 .4@% +' < ;1' J<' 7 U (: .41.6 =4.'7,47.'5'' - 55.'<.' E ' .< E5' / / .6 '-'<7 5.' <<>' / '7 < I 5. ' 71,4?.6 <.% ?'1' 66.<7 ?'6 .<; ,1.'1 5V '-' 5 >.Q''?,41 ?546 .' C ' / 55.J4 <..6 &,4 5,4 6 > ,1P>.'>, / / 'J.6% .6 ,4-1 .16 >E ?1.>'7.416 ?,17.<7 >.6 ; , ; '1>.6 .4.6 .7 6,<7 '1' /E 6 >.'E46 568 >.'? 67,5.76 .7>.'6'01.6I 56 ,<7E,1; .'5.6 ?1 6,<6%

<.'5.771.' '11 - .'5.'54<> ' '4 6, 1 ?,17.' =4.' 5.6 6E1 > E5.4@ ,<7 1.?,466U =4.5=4.6 .6; '>1,<6 >4 1.J / .<7 > @E,1> 8 >,<7 ?546 .416 ; '-'5 .16 ,<7 U7U 54.6% 55.' 'Q,47.'N W#.77.' . <.47.' .67 ?546 .EE1'V'<7.'= .' ; .55.'>.' ( ) ' &646; 7.' ?'1 ! . ,1J.' ! ,1>,< P8 .7 .4 6' 5 7, ,7 5.' / '5 =4 ' .< 1.6457.1'S Y

@ ˢ ˢ & ˢ ˢ ˢ ˢ ˢ
F ˢ ˢCCˢ- ˢ (* %

'1ˢ 5'ˢ ?1,?,6 7 ,<ˢ=4ˢ !ˢ ˢ>7.ˢE' 5.8ˢ 5.ˢ ;,1?6ˢ / 4ˢM < ; ?'5ˢ "ˢ'11E 7 f D=4.ˢ5.ˢ;, < / '<>'7 7 J.<.1'5ˢ>.ˢ 5'ˢ J'1>.ˢ<'7 ,<'5.ˢ?'<6 .<<.>. / '<>.1' 7 <;.66' / / .<7ˢ ?'1ˢ5'ˢ -, .ˢ>.ˢ ,1>1.8ˢ .7ˢ 6;E.1' 7ˢE,41< 1ˢ?'1ˢ ; :'=4.ˢ ;, / / '<>'<7ˢ>.0'7' 55,<8ˢ >'<6ˢ71, 6ˢQ,<168ˢ 4<ˢ >7'7 <, / <'7 E8ˢ '-.;ˢ5.66< / , / 6ˢ8 =4'5 7.6ˢ8 >, / ; 5.6';ˢ 74.56ˢ.7ˢ>.1< .1ˢ>, / ; 5.ˢ >.ˢ 7,46ˢ 5.6ˢ ; 7,V.<6ˢ =4ˢ6.ˢ 6.<7ˢE' 7ˢ <6;1 1.ˢ>.?4 6ˢ5.ˢ 5.1ˢQ4 <ˢ8>.1< .1ˢ8 >'<6ˢ; :'M =4.ˢ0'7' 55,<8ˢ '4ˢ <, / 01.>.6ˢ J'1>.6ˢ<'7 ,<'4@I

CWˢ 34.ˢ;.6ˢ.7'76ˢ6.1,<7ˢ7,46ˢ>>?,6>6ˢ8 >'<6ˢ5'ˢQ, [ˢ <..ˢ>4ˢ6'< ;>ˢ ,ˢQ4 55.78ˢ '4ˢ 6.;1.7'1 '7ˢ>.ˢ5'ˢ / 44 ˢ . ?'5 7>8ˢ ?,41ˢE 71.ˢ.<64 7.ˢ1. / 6'5'ˢ?1. / .1.ˢ'66. / ˢ $05..ˢ >4ˢ ;,1?6ˢ / 4< ; ?'5% & ˢ Q# Mˢ 5ˢ 68 %-ˢ A& !!

7 66. / 05>.ˢ 1.;,<<' 71'ˢ E'; 5. / .<7ˢ >'<6ˢ =4.5ˢ 96% ?- 7ˢ;.6ˢ'11E 7>6ˢ ,?7ˢ>7.ˢ> ;5>6G8ˢ <,46ˢ'77.<>,< ˢ5.6ˢ,1ˢ >1.6ˢ =4 5ˢ 54ˢ?5' 1'ˢ>.ˢ<,46ˢ>,<<.1ˢ88 / ' 6ˢ<,46ˢ.6?. ˢ 1,<6ˢ=4 .55.ˢ-.11'ˢ=4.ˢ<,46ˢ'-,<61. / ?5ˢ> '-'<;.ˢ4<;ˢ ?'17 .ˢ>.ˢ6.6ˢ-4.6% ,6ˢ.EE,176ˢ ,7ˢ<,6ˢ -. 55.6ˢ6,<7 Bˢ 6';196ˢ "ˢ .@.;47 ,<8ˢ '4ˢ / ' <7 . ˢ>.ˢ 5'ˢ 71'<=4 55 7Vˢ ?405 =4.8ˢ .7 ˢ>.6ˢ / .641.6ˢ=4ˢ?4 66.<7ˢ <7 / >.1ˢ5.6ˢ 6>> 5 .4@ˢ8ˢ .7ˢ ?1>-.< 1ˢ >.6ˢ / ,4-. / .<76ˢ 7.<>'<76ˢ "ˢ 71, : 05.1ˢ5'ˢ ;'? 7'5.ˢ .7ˢ ˢ1.7.<5 1ˢ>'<6ˢ 7,47ˢ . / ? 1.f / ' 68ˢ'-.;ˢ;.6ˢ?1.;'47 ,<68ˢ<,46ˢ ;1,V, 6ˢ?,4-, 1ˢ'6ˢ 641. ˢ=4.ˢ>'<6ˢ;.77.ˢ;'? 7'5.ˢ 66. <05..ˢ<ˢ 5'ˢ#,<6 G 7 747 ,<ˢ< ,<7ˢ1 .<ˢ"ˢ1.>,47; ˢ>.ˢ6.6ˢ.<<. < 6%

/ # 5 7ˢ ˢ Nˢ ˢ
' ˢ Kˢ

.?4 6ˢ5 <J7. / ?6ˢ ,<ˢ"ˢ1.;,<<4ˢH47 5 7V8ˢ5'ˢ<.;.6M 6 7Vˢ / > / .ˢ> .7'05 1ˢ4<.ˢ;, / / 4< ;'7 ,<ˢ5 01.ˢ .7ˢ6E71.ˢ .<71.ˢ5.6ˢE'40,41J6ˢ ' <7 <5, <,ˢ .7ˢ ' <7 '1;.5f . .67ˢ>'<6ˢ;.6ˢ>.4@ˢ=<'15 .16ˢ=4.ˢ5.ˢ;, / / .1;.ˢ.7ˢH<ˢ >4671 .ˢ5'0,1 .46.ˢ>.?5, .<7ˢ5.ˢ?546ˢ> ';7 - 7V8ˢ . .67ˢ ?'1ˢ;.6ˢ>.4@ˢE'40,41J6ˢ =4.ˢ <,46ˢ '11 -.ˢ 5'ˢ / 'Q.41.ˢ ?'17 .ˢ >.6%;, / .67 05.6ˢ.7ˢ>.6ˢ- <6ˢ=4ˢ6.ˢ;,<6, / / .<5ˢ "ˢ '1 68ˢ ,4ˢ=4ˢVˢ?'66.<7ˢ?,41ˢ6.ˢ1.<>1.ˢ>'<6ˢ5.6ˢ>9ˢ ?'17. / . 76ˢ 4EV1 .416% :ˢ?,<7ˢ=4ˢ1. 4< 1' 7ˢ 6ˢ>.4@ˢ 1 - .6ˢ>.ˢ5'ˢ . <.ˢ - .16ˢ5.ˢ '1> <ˢ>4ˢ1, ˢ'41' 7ˢ>,<.ˢH'ˢ 8-%'<7'J.ˢ>.ˢE'; 5 7.1ˢ5'ˢ ; 1;45'7 ,<ˢ>.6ˢ :'0 7'<76ˢ8 .7ˢ>.ˢ >.0'11'66.1ˢ <7. 1 .41ˢ >.ˢ 5'ˢ - 55.ˢ >4ˢ;,<;,416ˢ.7ˢ>.ˢ H'EE54.<;.ˢ >.6ˢ -, 741.6ˢ>.ˢ;:'1J.ˢ ,05 J..6ˢ>.ˢ5'ˢ71'M -.16.1ˢf 4<ˢ '471.ˢ?, <78ˢ?5';>ˢ-.16ˢ5.ˢ;:' / ?ˢ>.ˢ5'ˢ H.M >.1'7 ,<ˢ8ˢ 6.1' 7ˢ. J'5. / ;<5ˢ> 4<.ˢJ1'<>.847 5 EV8

$ 546 .416ˢ'17 67.6ˢ ,<7ˢ?1,?,6.ˢ >.6ˢ ?1,Q.76ˢ>.ˢ?,<76ˢ ?,41ˢ;.6ˢ>.4@ˢ .<>1, 768ˢ >.6ˢ ;, / ?'J< .6ˢ6.ˢ6,<7ˢ,Eˢ E.17.6ˢ ?,41ˢE' 1.ˢ5'ˢ>>?.<6.ˢ>.ˢ5.41ˢ;,<6714;7 ,<8ˢ.<ˢ >. / '<>'<7ˢ4<ˢ>1, 7ˢ>.ˢ ?.'J.f / ' 6ˢ5'ˢ / 4< ; ?'5 7Vˢ ;,<6 >.1'<7ˢ>.ˢ=4.55.ˢ / ?,17'<;.ˢ 5ˢV7' 7ˢ>.ˢ< ';;,1 ˢ >.1ˢ >.ˢ ?1.E.1.<;.ˢ ˢ'4;4<ˢ>.ˢ;.6ˢ?1,Q.768ˢ'-' 7ˢ>'ˢ -, 1ˢ1.;4. 55ˢ7,<6ˢ;.4@ˢ=4.ˢ> '471.6ˢ'1E 67.6?,411' .<7ˢ ? V6.<7.18ˢ "ˢ '11 7.ˢ =4.ˢ5.ˢ> ?'17. / .<7ˢ>.6ˢ71'-'4@ˢ P405 ;6ˢ1.;.-1'8ˢ>'<6ˢ7.5ˢ>.5'ˢ =4 5ˢ54ˢ?5' 1'ˢE @.18 5.6ˢ6,4 / 66 ,<6ˢ >.ˢ7,46ˢ5.6ˢ '17 67.6ˢ .7ˢ;, / ?'J< .6ˢ=7ˢ '41,<7ˢ>.6ˢ?1,Q.76ˢ"ˢ?1V6.<5.1ˢ641ˢ5'ˢ ;,<6714;7 ,<ˢ>.ˢ >.4@ˢ?,<76%H4<ˢ.<E';.ˢ ,4ˢ?1.6>.6E,66. 6>.H'16.<'58ˢ .7ˢ '471.ˢ -.16ˢH.<>1, 7 ,4ˢ .7' 7ˢ?5';..ˢ5'ˢ; >.-'<7ˢ 0'11 V1.ˢ>.ˢ5'ˢ #,<E.1.<;.8ˢ?,418ˢ641ˢ5.ˢ1'??,17ˢ=4ˢ .<ˢ6.1'ˢE' 78ˢ>71.ˢ67'74.ˢ>. 5 < 7 -. / .<7% %

K<ˢ ;,<6.=4.<;.ˢ>4> 7ˢ '11.7.8ˢ5.ˢ >V?'17. / .<7ˢ>.6ˢ 71'-'4@ˢ?405 ;68ˢ-4ˢ5'ˢ<.;.66 7Vˢ>.ˢ?1,E 7.1ˢ>.ˢ5'ˢ6' 6,<ˢ E'-,1'05.ˢ'4@ˢ;,<6714;7 ,<6ˢ >.ˢ ;.77.ˢ <'741.ˢ8 <- 7.ˢ 5.6ˢ '17 67.6ˢ .5ˢ ;, / ?'J< .68ˢ=4ˢ '41' .<7ˢE' 7ˢ 4ˢ=4ˢ '41' .<7ˢ "ˢE' 1.ˢ>.6ˢ6?.;45'7 ,<6ˢ641ˢ H. 5'05 66. / .<7ˢ >.6ˢ?,<76ˢ"ˢ;,<6714 1.ˢ'4@ˢ.<>1, 76ˢ; >.6646ˢ>. 6 J<.68ˢ >.ˢ1.< .771.ˢ ;416ˢ / V / , 1.68ˢ?5'<68ˢ>.- 6ˢ.7ˢ / ,>.5.68ˢ '4 '5' 6 #'1> <'58 . 55. 4. >4 .< ?5.8'-'<7ˢ5.ˢ ˢ ',E 7ˢ ?1,;:' <8ˢ7.1 / .ˢ>.ˢ1 J4.41% H' 7ˢ '4ˢ >.?'17. ˢ / .<78ˢ 5.ˢ *ˢQ4 55.7ˢ (* 8ˢ J<.ˢ % *ˢ 5

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<'5.8ˢ<,46V;1 7 , :8ˢ0'5'<;.8ˢ:V6 7.ˢ.<;,1.ˢ"ˢ& .<ˢH1'<;.ˢ5.6ˢ ˢ ˢ %%%%#.6ˢJ.<6 _ .1'?5, .<7ˢ5'ˢ#'5, / < .ˢ.7ˢ5.6ˢ / ,V.<6ˢ5.6ˢ?546ˢ,> .4ˢ ?,41ˢ .@;7.1ˢ5.6ˢ 6?'J<,56ˢ;,<71.ˢ<,461ˢ 56ˢ646;7.;ˢ '-.;ˢ4<ˢ005.ˢ'71,;.ˢ>.6ˢ71,405.6ˢ>'<6ˢ<,71.ˢ>. ?'15;ˢ / .<7%%%% 46' 7ˢ=4 56ˢ,<7ˢ>.6ˢ / 'J'6 <6ˢ> '1 / .6Iˢ =4= =4.ˢ;.5'ˢ6, 5ˢ;,<71= 1.ˢ'4@ˢ5, 6ˢ.6?'J<,5.6ˢ,<ˢ 7,5.1.ˢ;.?.<>'<7% <ˢE' 7ˢ?546f,<';;4. 55.ˢ'-.;ˢ71':6ˢ ?,17ˢ;.6ˢ5 , / / .6ˢ?. > >.68ˢ7'<> 6ˢ=4.ˢ5.6H1'<;' 6ˢ=ˢ ,<7ˢ5'ˢ1>?47'7 ,<ˢ>.ˢ?'71 ,7.6ˢ.?1,4-.<7ˢ7, 77.6ˢ6,17ˢ >.ˢ-.@'7 ,<6% 34 .67 ;ˢ>,<.ˢ=4.ˢ;.6ˢ^<.<>.6Z <ˢ71ˢ -' 55.ˢ"ˢE,1;.ˢ?,41ˢ < .771.'ˢH J4>1.6ˢ5'ˢ; 7'>.B.ˢ.ˢ .7'7ˢ>.ˢ>.E.<6.%Bˢ "ˢ .7.ˢ>.0'1=4Vˢ #<ˢ;,<6.=4.<;.ˢ ,7'ˢ ˢ ? .;.6ˢ>.ˢ;'<,<ˢ.7ˢ; <=ˢ / 55.ˢE46 56ˢ>.67<.ˢ ˢ'1 / .1ˢ?'1.5ˢ<, / 01.ˢ>.ˢ-,5,<7' 1.6f / ' 6ˢH / ?,7ˢ 7'<;.ˢ>.ˢ..77;ˢ / .6:1.ˢ?'1'57ˢ7, 7ˢ"ˢ;,4?ˢ'0'<>,4<>.ˢ .7ˢ5.6ˢ,EE ; .16ˢ=4ˢ.<ˢ'-' .<7ˢ.7;ˢ;:'1JV6ˢ,<7ˢ>7>ˢ?,41ˢ -46ˢ> '471.6ˢ?5';.6% <;,1.ˢ4<.ˢE, 68ˢ=4.ˢ6 J< :.1 ;.6ˢ>V7,416Z%%%% .6ˢ71,4?.6ˢ.6?'J<,5.6ˢ=4ˢ6,<7ˢ1. ?'17 .6ˢ641ˢ5'ˢE1,<7 >1.% .7ˢ;.55.6ˢ=77ˢ ,<7ˢH,1>1.ˢ> 6Vˢ?,17.18ˢ<.ˢ-,<7ˢ?'6ˢ'4 >.5'ˢ>.ˢ98 ˢ;, / / . 8ˢ7'7 <E'<7.1 .ˢ=4.ˢ;'-'5.1 .%%%%%% 'ˢ'ˢ-,46ˢ>.<,17;.1ˢ4 E' 7ˢ=4ˢ>, / .ˢ"ˢ?.<6;1% .4@ˢ >.ˢ<,6ˢJ'1>.6ˢ<'7 ,ˢ <'4@ˢ,<7ˢ> .ˢ'11 7.6ˢ?'1ˢ>.6ˢJ'1>.6 0, 6ˢ.6?'J<,56% ˢ 5.6ˢ"ˢ71' 7V6ˢ>.ˢ ˢ ˢ ˢ ˢ <ˢ5.6ˢ"Q.7>6ˢ>'< ,<.ˢ?1 6,<% ' 6ˢ"ˢ?. <.ˢ5'ˢ<,4-.55.ˢ>.ˢH'11.67'7 ,ˢ >.ˢ ,4 6ˢ" ˢ' 7Y.57.ˢV7.ˢ;,<5 1 / V.8ˢ=4 ,<ˢ<,46ˢ"ˢ<ˢ / .<>ˢ<,6ˢJ'1>.6ˢ'-.;ˢ>.6ˢ>J'1>6ˢ?'17 ;4 .168ˢ.7ˢ. <,46E' 6' 7ˢ>.%:.55.6.@;46.6%#.17.6ˢ5'ˢ <,4-.55.ˢ>ˢ 1.7,41ˢE,1;.ˢ>4ˢ1, ˢ"ˢ '16ˢ "ˢ >.1'<J>ˢ"ˢ '>1>ˢ >W ?1,Q.7'%6 < 671.68ˢ >.6ˢ ?5'<6ˢ=4.ˢ5.ˢ?1VQ4J..7H J<, 1'<..ˢ'-' .<7ˢ?4ˢVˢ; <..-, 1%%%% .ˢ0,411.ˢ'4ˢ>.ˢ .7 ? J<'<ˢ "ˢ .7>ˢ .@.;47.ˢ ?,41ˢ ;1 / .ˢ > '66'66 <'7%ˢ #7ˢ '<673;1'7.ˢ<.ˢ-,45' 7ˢ?, <7ˢ1.;.-, 1ˢ?, ,1ˢ;,<E.66.4ˢ 4<ˢ?1 71. ;,<67 747 ,<<.5% ˢ .67ˢ <,17ˢ;,<-.17 8ˢ.ˢ '-,4'<7:'47. / .<7=4 ˢ'-' 5ˢ.7.ˢ6V>4 7ˢ.7=4 57EE Vˢ" ;ˢ?1.71.ˢ

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ˢ2ˢMH- ˢ (* % +ˢ .ˢ / ,<7'<7ˢ>.6ˢ -.<7_ >.6ˢ0 .<6ˢ<'7 ,<'4@ˢ>'<6ˢ;.ˢ>.?'17. / .<7Q46=4 '4ˢ >.ˢ;.ˢ / , 6ˢ 6 >5.-.ˢ "ˢ C*8U 8 ˢ5 -8ˢ) 6%ˢ ˢ>%IˢH.6ˢ ;V>'<7ˢ>4ˢ?1 @ˢ>.6ˢ'>Q4> ;'7 ,<6ˢ641ˢ;.54ˢ>.6ˢ.67 / "ˢ 7 ,<6V7'<7>.ˢ 8U 8* 5 -%*6%U>% + E5ˢ.67?.4>ˢ >V?'15. / .476ˢ,4ˢ5.6ˢ / '<;.4-1.6ˢ>.6ˢ.<<. / 6ˢ>.ˢ5'ˢ1Vˢ -,547 ,<8ˢ.76417,47>.6ˢ?1RI71.6<,4ˢ'66.1 / .<7V68ˢ6, .7ˢ ?546ˢ';7 -.68ˢ .7ˢ, ˢ5.ˢ?'71 ,7 6 / .ˢ>.6ˢ0 ,<6ˢ; 7,V.<ˢ 6, 5ˢ?546ˢ'1>.<7ˢ .7ˢ?546ˢV;5' 1V% .6ˢ?1>71.6ˢ>.66.1ˢ -'<76ˢ>.ˢH:>? 7'5ˢ>.ˢ Q,<6 V7'<7ˢ1.E46>6ˢ"ˢ5'ˢ?1'67'ˢ 7 ,<ˢ>4ˢ6.1 / .<7ˢ?1.6.<7ˢ ?'1ˢ5'ˢ 5, 8ˢ 5.1 =4.ˢ "ˢ 7ˢ >'<65.ˢ;'6ˢ>.ˢ5.6ˢ1. / ?5';.?% 466 7 78ˢ5.ˢ / . / .ˢQ,4ˢ .76'<6ˢ.<ˢ?1V-.< 1ˢ5.6ˢ;,1?6ˢ> / < 671'5 E68ˢ7,47.65.ˢ 1.5 J .46.6ˢ:,6? 7'5 V1.68ˢ.<71'5<V.6ˢ ?'1ˢ>.6ˢ ;, 6. 5ˢ E'<'7 =4.68ˢ,<7ˢ=4 77.ˢ : ? 7'58ˢ5' 66'<7ˢ' <6ˢ"ˢH 0' ˢ >,< .7?,41ˢ5'ˢ?546ˢJ1'<>.ˢJ5, 1.>.ˢ .4ˢ5.6?'4-1.68ˢ 5.6ˢ / '5'>.6ˢ.7ˢH'>1' < 671'7 ,<ˢ> 4<.ˢ / ' 6,<ˢ / / .<M 6.% .6ˢ; 7,V' <.6ˢ6.ˢ6,<7ˢ. / ?1.66V.6ˢ>.ˢ?1.<>1.ˢ5'ˢ ?5';;.ˢ>.6ˢ:,6? 7'5 E.1.6Iˢ.5ˢ5.6ˢ <E,174<V6< ,<7ˢ.4ˢ=4G ˢ 6.ˢ5,<.1ˢ>.ˢ;.77.ˢ1.-,547 ,<%+ .6ˢ<,4-.ˢ'4@ˢV .;7.416ˢ >.ˢ7?47ˢ5.ˢ>.?'17. / .<7V7' .<7ˢ5 4< 6ˢ ˢ Q,<8ˢ.7ˢ>.Q"ˢ 5.6ˢ,?V1'7 , 6ˢ>4ˢ;,1?6ˢV .;7,1'5ˢ.7' .<7ˢ;, / / .<;V.6I

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.;1 7' ' 1 66. / 05>;' '7 ,<'5.8' ?,41'6,55 ; 7.18' ?,41'
5.'> ?'17.<'.<7'>.'5" #97. > 18' :,<<.41'>.'E,41< 1'
'W' ?1. / .1'%>>7'; :.< .<7' >.4@8' ,4' 7,47' '4' / , <64<'
0'7' 55,<% W '5.' 0 5.' >.' <,6' ; ,<; 7,V.<68' ?,17.' 5"
'5.751.8' / 7.' =4.5=4.'1>., / ?.<6.8' ;.55.'=4 56' ' / '
0 7 ,<4.<7'5.'?: 6' '1>. / / .<7' . 7' '-'<7'J.'>.' / '1M
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> / .'6 54>' '4 >.5" >.'5" - 55.'>.' K,4 55,<% .6'7.1<6'
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7,47.6' ?'176%
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>4' - 55'J.'>.6' B'V,<6I' .78?'1'4<' '11>7'>4' ;,<6. 5' >4'
C('E. -1 .1'>.'5" / >1'.' '<<>.8' 5' " >7.'1.6. .'>.'E'7.'
>1, 7'641' ;.77.'=4.67 ,<' >.'6,4-.1' <.7.' .<71.'5.1, '>.'
H1'<; .'.7'5.'>4.'>.'K,4 55,<% #.' - 55'J.'< " / > / .'Q'M
/ ' 6' >7>' 6,4 / 6' '4@' / ?,6 7 ,<6' > 1.;7.6' .<-.16' 7'
J,4-.1<. / .<7' E1'<J' 6N' 5' < .67' ?'6'6.45. / .<7'>.6 '
J1 >' >'<6'5.'7'05.'4'>.'1'11,<> 66. / .<7'>4' > 671 ;7'>.'
.>'<% '5J1.'; .77.'?,6 7 ,<8' 5.6' .<71.?1.<.416' > 4<.'
E'01 =4.'>.'E,1; .6' .7>.'E>11,<<.1 .8' >7'05 .' '4' - 55'J.'
>.6' B'V,<68' ,<7'5" ?1>7.<7 ,<' >.' < ';=4 77.1' '4;4 6'
>1, 768' 7'<7' 641' 5.6' E.16' .7' E.11' 55.6' =4 56' .<-, .<5'
>.5:' ,<; .55.' '4@' B'V,<68' =4.'641' 5.' E.1' ?5'5 .'
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; .55.% 56' ,<7' / > / .' ,07.<4'5.'C' ' -1 5'>.1< .1'4<Q4J; '
/ .<7>4'> 671 ;7'>.' .>'<8' =4 8' ,1>,<<'<7'5" 1.67 747 ,<'
>.6'>1, 76?.13 46641'5.6' E.168' ?5'7 <.68' -.<'<7'>.6>56'
B'V,<6 8' " >>E.<>4' '4@' ?1,?,6.6' >4' 041.'4' >.' ! '
-,<<.8' >.' ?.1;.-, 1' '4;4<6' >1, 76'641'5.6' E.16' 01476'
=4 ' 6.1' .<7'71'<6?,17>6'>.'5" ,<; .55.' '4@' B'V,<68' .7'
.Q4' E < 6.1' .<7' 1'??,17.6' '?5'7 6% .?4 6' ;.' 4J. '
/ .<7'5.6' E.16' ?5'7 <.6'6,<7' .<71>6'6'<6' ';=4 7' >.' .51, 7I'
5" E.11' 55.' .67'6,17 .' <'5J1>'5" ?1, : 0 7 ,<%
, 1.';, / 7.'> ' / ;45741.' .7'>.';, / / .1;.'< " ?'6'
0.6, <' >.'J1'<>6' .<,156' ?,41' -,46' ?1,4-.1' ;, / 0 .<'
.@>;47 ,<' >.' ; .77.' > 6?,6 7 ,<' 6.1' 7' ; ,<71' 1.' " -,6'
>. .1.768' .7' '4@' <7>1>76'>.' -,6' E <'<; .6% ' .67'6.<6 05.'
=4.'7'<7' =4.'5.' - 55'J.'>.6' B'V,<6' <.'E.1" ?'6'?'17 ;'
[' . / ? 1.E1'<;' 68' .7<.'6.1" ;4<6>= .< / .<7'?, <7'
'664Q.77 ' '4@ / . / .6' / ?,6 7 ,<68' 6, 5' > 1.;7.68' 6, 7'
<> 1.,7.68' 6.6'E'01 =4.6'<.'>, -.<7'?, <7'>71.'71' 5..6'
#, / / .'5.6'E'01 =4.6'<'7 ,<'5.6'>.' / > / .'<'741.8' =4'
<.?,411' .07?'66,47.< 15.41; ,<;411.<; .% 466 -,71.'
;, / 7.' " ?.<6E'=4 5' <.' ?,4-' 7'1 .<'E' 1.'>.'?546'E'M
-,1'05.'?,41'5.6'E'01 =4.6'>.6' B'V,<6' =4.' >.' 5' 66;'
.@51' 7.'?,41' .41' '5 / .<78' <,<,067'<7'5" ?1, : 0 7 ,<'
?,17>.' " ; .5'>J'1>8' 4<.'=4'<7 5.'>.' - .4@'E.16' ?1,?.1 '
7 ,<<>.' ";.55.'>.6'E.16'=4 6.1,<7Q'??,17.6' ?5'7<.6'
>.6> 7.6'E,1J.6% ' / " .<';,<6.=4.<;.';:'1J>'>.'-,46'
?1,?,6.1'5.'?1,Q.7'>.'>.;1.7'64 -'<7N
Q '+( ),((' *+,$ *+ (/' +4*(+' +0 $.'(*,(*-+' (' .+44 .'
-(' ' *' 3 $,(' - +9.$3 ,*.(' (,' -(' 3 (.3(/' -$3.(,('5 (
(" .(.f' (,'++,.(") (,"5*$' 4+''(. *,' -+' 0$ +9(' -("@+8 *"
-+*" $%(*3($*,(' -(")+..$(.('/' (,' , ,!' 3(' 5*$' ' .,$.+' >4'
0 8++,*(' 4 .' (-$,' 0$ +9(/' '(. *,' ' , *$" ++2' <) $ " ('
++,.(" 4. 6$)$,$ *" .(9 ((" 4+.' +' $' -+' BX' +." -(.*$(./'
'+*" .$(*' 4.(+9(.' .(+,$0($(*,' +' +' ' +0(.+$*($(' ' (' (-$'
0$ +9(7' 4(*(,'3(4(*-+*,' -('#+$.(+ .,..'(*' (2(4 *-('
-. $," +'5+ ++' BD%A+*0$(.' BHTP/' 4 +.' (" #+).$5 (" ---$,'
$ +9(/' *(' 5++*,$,(' -(' 0$(2' #(." 4. 4 .,$ **((' +' 3("
-("#(." 4 +,$*(" 5 $' (. *,' +44 .,(" -('-$,("<+).$Q +(" -+*"
(' . 8++ (' ' L

' ' ' ' %

B<'>.' % K' 6.;1.7' 1.6' E' 7' '<<,<;.' >4<' 1.6'
J1'<>'<, / 01.'>.>1.66.68
' +' " / 4< ; ?'5 7V' >.'5" H.1.' <6714 7' 66. / 05..'
>.' .Q7V;47 ,<' >4' >V;1.5' >4' ' Q4 < >.1< .18' ?'1' 5.

C

'1< 6,<' .<' ;.77.' - 55.8' .'5.6' ,EE5; .16'?1 ` .<76' '4@' >1'?.'7 @'8>.' '>: 6 ,<'.7'>.'1'66,; '7 ,<''4'6.1 / .<78' > ;1>7>'?'1' 66. / 05..'<'7 ,<'5.8' ?'1'5.6'6,46 ,EE ' ; .16' .7'6,5>'76>.' ;.'1>J / .<78' .7' >.'5.41' >.;5'1'M 7 ,<' =4 56'6,<7'?1>76' " 6; .55.1' >.'5.41'6'<J' 5" ; ,<67 M 747 ,<' E1'<;' 6.%

+' " J'1>.' '7 ,<'5.' >.' #:'4<V'E' 7' ?'17' " 6' ./ 05. ' . ' ./ ?1.66. / .<7' '-.;' 5.=4.5' .55.' 6 .67' ?,17'.' " 1.<,4-.5.1'6,<'6.1 <.<7' ; - =4.8' 5.' U >.' ;.' / , 6E' >.'6" E>>>1'7 ,<' '-.. 5.'>.7' ; : . / .<7' >4' D1.M J / .<7' >.' ;'-'5.1 .8' ; >.-'<78' 15>'<68' .<' J'1< 6,<' .<' ;.77.' - 55.8' .7' >4'6.1 / .<7' =4 56' ,<7' ?1>7>' ; ,<Q, <' 7. / .<78' >.' - .16.1' Q46=4 " 5" >.1< E.1.' J ,477.' >.'5.41' 6'<J' ?,41'5. / ' <7 .<'>.'5" # ,<67 747 ,<' .7' ;@>;47 ,<' >.6 , 6%

.'> '17.1' .<7' >.' 6<.' / '< E.67.' '>:>6 ,<' 5" ?546' .<7 .1.8' .7' ; .55.' >.'6.6' '> / < 671>6' " 7,<6'5.6' >.;1.76'>.' 66. / 07..'<'7 ,<'5.8' .7'<,7' / / .<7' " ; .' 54'>4' '>.' ;.' / , 68' .7'5" <>; .66 7>' >.'E' 1.'?5 .1'5" >.1< E.1.' >.6' '1 67,;1'7 .68' ; .67 ' > 1.' ; .55.' >.6' - , ' 5,<7>6' <> - >4.55.6'6,46'5.' Q, 4J' >.'5" -,5,<7>' J&<>' 1'5.%

+ .6'6,; >7>6' >.6' / 6' >.'5" # ,<67 747 ,<8' >.' '4' 04<8' >.?'17. / .<7' >4' ,7 .7 ! '1,<<.8' .7' > V / .78' >.?'17. / .<7' >.' ,1>,J<.8' .@?1 / .<74<'>.-, 1'.<7' 6'<6'1.6.1-.' '7,<6'5.6' >>;1.56'>.' 66. / 05..'<'7 ,' <'5.% #.6'6,; >7>61.<, -.55.<7'5.'6.1 / .<7' >>71.'5 >.5.6' '5" # ,<67 747 ,<8' >.' 5'>>E.<>1.8' .7' >.' - - .5 01.68' ,4' / ,41 1'?,41' .@>;47 ,<' >.'5"5, % Y

66. / 05..' ,1>,<<.'=4 5'6.1' ' 7' / .< , ' : ,<, ' \1'05.'57?1,; 6 -.10' '>.' ; .6' '>1.66.68' .7' >.0.'4; ,4?' > '471.6' =4' .@?1 / .<7'5.]' '/ >/ .6'6.<7 / .<76%

+ " 6,; >7.'>.6' / 6' >.'5" # ,<67 747 ,<' 6>'<7.'4@' ' ; ,0 <6' " '1 6' ?1. .<7.'1: , < / 'J.' >.'6,<' '> / 1'M 7 ,<' .7' >.'6,<' >>-, > / .<78' +' ,<' '>1.66.' ; ,<7 .<7'5.' ?'66'J.' 64 -'<78' >,<7' ,<' E' 7'5.;741.N

W' ; ,<67.1 / <.1,<6' ; .77.' '>1.66.'?'1' 4<.' ?1,E.66 ,<'>.' E,'>,<7'5" - 77.8' ?1, '-..'?'1' <,71.' ; ,<>< 7.' ; ,<67'<7.8' .7'Q467 E ..'?'1' ,?< ,<'>.'5" H1'< . .<7 .; .8' <,46'>,<<.' 5.'>1, 7' >.' ; , / ?7.1'641' - ,71.' .67 7<.8' 6<1'1,71.' ; <E '<; .8' 6<1' -,7 .' '?24 8' .7' >.'>.E .17 ,<6' ; .4@' >,<7'5.'6V67 / .' .67' >.'? <>1.'5" 1' 6,<8' 5" 5\ .17.8' .7'5" - .17<'>.6' ; ,<5.<16><' 8V ;.8' >.'5" 5 ; .<;.' .7' >.' '<'1; . N a.6?. ; 7'?,41' '66.<G \P.'>.6' 1.?1.6.<7' '<76' >.'5" <'7 ,<8' E >.5 7V' " 5" # ,<67 74' 7 ,<8' >.-,37<.<7'6'<6' : , / .6' " 5" ?'71 .' .7' " >'5 0.17.% ,5" 5" >.1 6.' 6' ;1..'=4' >, 7' 1'55 .1' " <,46' 7,?6'5.6' 0,<6' ; ' 7,V.<68' .7' =<' '<,46' '<7,1 6.' ' 67, 1.'=' .'<,46'<.'?,4-,<6' >.6,1 / '16' ; , / ?7.1'<,6.<<. / 6=' .?'1 / 5.6.<<. / 6'>.'P" ?'71 .% Y

<'>.' % 5.6'6.;1>7' 1.6'5 7' 4<.' '>1.66.'>.'5" - 55.' >.' .<68' ; ,<7.<'<7'5.6' / / .6'6.<7 / .<76' >.'1.6?.; 7' .7' > '75' ; : . / .<7' " 5" # ,<67 747 ,<' .7' " 5" 5, %

.4@' ; 7,V.<68' ?,17.416' >.' ; .77.' '>1. 6.8'6,<7' '> / 6' " 5" 6 ` <; .8' ' <6' =4.'>.6' J'1>.6' <'7 ,<' '4@' >.'5" K, ' . : ;55;8' =4' 6.' ?1>6.<7. 7' " 5" 0'11. .7' ?1>7.<7' 5.41' 6.1 / .<7%

&' C' ' N 546 .416' / . / 01.6' >4' ; , / 7.' >.' / '1 <.' / ,<7' '47,1 6>' " - ,46' ?1.6.<7.1' 4<.' '>> M 7 ,<' '4@' '17 ;5.6' ' .7' '>4'>.;1.7'6<1'5.6' .; ,5.6' >.'5" / '1 <.% 55.' ; ,<6 67.' " '> 1.'=4.'5.6'E1' 6' >.'-,V'J.'>4' ?1. / .1' .@' / <'7.41' <.'?,411,<7' .@.>>.1'5'6, / .' >.'U8) '5 -% I' .7' ; .4@' >.6'6.; ,<>6' .@' / 1 '7.4168' ; .55.' 5 .' 89 '5 -% +' #.77.' '>> 7 ,<' .67' >. ; 1.7..%

+' % K.1<'1>8' ' ; ;46'7.41' ?405 ;' >4' 71 04<'5' ;1 ' / <.5' ?1, - 6, 1.'>4' 6 @ E. / .'11,<> 66. / .<78' .'?1>' 6.<7.' " 5" 0'11.% +' ' ,07 .<7'5" ?'1,5.%

' 'N .' 'Q4 55.7' Qc' '1.<>4' ?5' <7.'>.6' %E' 76' =<'6.'6 <7' ?'66>6'4' ; : ' / ?' >.'5" H. >.1'7 ,<8' .7' 4<' ?E ,;>6 V.10'5' " >7.'>1.66.'641'5.6'5 .4@% .' *' Q '' 1.<>4' ?5' <7.' '4' 6<Q.7' >.' '66'66 <'7' > 5 <' ; : '66.41'N 5" ?5' <7.' " .7>' >..1>7..% .'5.<>. / ' <' Q '' 1.=4 6' >.' <,4-.'4'5.'71'<6?,17' > 1'71 04<'58' .7'Q ' '1.J4'5.6'>>' ; '1'7 ,<6' >.6' 05.66>6' =4' 6.E'71,-5-' .<7' " ; ,5.' / ' 5 7' 1.' .7' '4@' <-'5 >.6% '466' 1.<>4' ?5' <7.'641'5.6

5 .4@' >4'E' 7'1.5'7 E' " % 'E'V.77.% <E,1 / '5 ,<' .67' E' 7.' .7' >>.1.7>.% ''1.=4 6' '11.67'7 ,<'?, - 6, 1.'>.% =4'71 S' ?1>-.<46' >.' '66'66 <'7' >.6' >.4@' : , / / .6' =4 8' 5.'> / '<; : .' / '7 <8' '-' .<7 .7>'?.<>46' '4' ! 1,6 #' 5' 5,41' .55.' " >7>' .@>;47>.% ,46' - ,V.0' ,<.'5" 5, '6.1" -.<J>.% ,6.' '6641.1' =4.' / ,<' 71 04<'58' >'<6'6,<' '; ' 7 - 7.8'6 .67' '77' ; : >'>.'?1>E>1.<;.' ' @'?1, .>6' , 5' 5'6 '' J 66' 7' > <6457.6' E' 7.6' " 5" 5, % J1>.0' : , / / 'J.'>4' 0>5.'> 4<' E,<;7 ,<<'11.'?405 ;' =4' 6.1" 7,<Q,416' E >>5.' " 6,<' >.-, 18' .7' =4'<.' ; 1' <7' <' 5.6' ?, J<'1>6' <' >6' ; '5, / < .6% & <' '??5'4> 7%P

66. / 5>.' ,1>,<<.'=4.'6,<' ?10; >6 -.10'5' ; ,<' 7 .<>1" 5.6' 7> / , J<'J.6>.' 6" 6'7 6E' ;7 ,<8' .7' =4.'5.6' >.7' 56' >,<4>6' ?'1' 5.' E,<;7 ,<<' 1.' ?405 ;' =4 .55.' - .<7' > .<7.<>1.' V' 6.1,<7' ; <6 J<>6%

+' % . 55'1>8' '4' <, / ' >.6' ; , / 7>6' >.6' 1'??,176' .7' >.6' 1. ; : .1; : .68' 1.<>' ; , / ?7.' >.' 71,405.6' .@; 7.6' >'<6' 5.' ; >.-'<7' ?'V6' >.' #'<@% .' 1.<; : >1 66. / .<7' >.6' J1' <6' .<' .67'5.' ?1>7.@7.N 5.6' / '<, .4-1.6' >.6' ; ; ' ;5>6 '6 =4.6' 1>E1' ;7' 1.6' ?'V' 66.<7' .E7' >71.'5" ;'46.% .6' > / .47.6' ,<7' .4' 5 .4' >'<6' ?546 .416' / '1; : .6' N 5" E,1; .' ?405 =4.' " - ,454' 1>7'05 1' ,1>1.I' / ' 6' 8 % ?'V6'<6'6.'6,<7' '1< >68' .7' ,<7' / '1; : >' ; ,<71.' .55.8' 'V.<7'5.6' ,EE ; .16' / 4< ; ?'4@' .<' >; : '1?.' " #41' 7>7.% .'> 1. ; 7, 1.'>4'>.?'17. / .<7' >.'5" . <. 5?E.1 .41.' " ?1 6' 7,47.6' 5.6' ?1>; '47 ,'6' K.; .66' 1.6% <' " .<-,V>' ?546 .416'>>7' ; : . / .<76'>.'71,4?.6'>.'5 J<.'.7'>.' J'1>.' <'7 ,<'5.% 34'<>'5.6'>.4@' '1 / ..6' ,<7' >7>' .<' ?1>6.<; .8' 5.6' ?'V6'<6' ,<7' 7.<4' E.1 / .' 5.6'6,5>'76'>.'5" 5, '>.' / '<>' .<7'5.' 6 J<'5' >4' ; , / 0'7% % '40.17' " ' / .<>' 5.6'6>> 7 .4@' " >.6' -,5.6'>.' ; ,<; 5 '7 ,<8' .7' 56'6.'6,<7' 6.?'1>6' .<' 5' 66'<7' 4<.' ?>7 7 ,<8' ?'1' 5' =7 .55.' 56' >.G / '<>.<7' =4.' >.6' / .641.6'6, .<7' ?1 6.6' ?,41'5" 5 01.' ; 1; 45'7 ,<' >.6' J1' <68' .7' =4.'5.'?1 @' >4' 05>6, 7' @>' " CU' 5 -1.6%

.' ?1,Q.7' >.' >>;1.7' =4.' ?1,?,6.<7' 5.6' #, / 7.6' >?1,<-.' =4.5=4.6' > 6;466,<68' .7' . 7' '>,?7>' .<' ; .6' 7.1 ' .6N

&' / ''(?=BF(' *+,$ *+ (/' +4. " + $8' (*,(*-*' e('3 4,(' 5 $' $'+' . *- '4+.' ' *'3Q ,-' -(" .+44 ., " -(" (*," 5 $' 8$(**(*,' -D+8 $.' $(+' -+*" (' 4+8" 3$! -(0+*,' -(' + 2" -(3 +.('5 %(('+44. 0(' +' 3 *- $,(' -(" +- $*$',.+!' ,(." 3 4 '+*,' (' -$.(3, $.(' -+' -(4+.,((*,' -(' +' ($*(!' *#-.$(*.(/' (,' -(' 3(2' - ' -$.(3, $.(' - ' -$', .$3,' -(' $(44(7' (.' (* $*,' -(' -(4 8(.' , " (" 8(*" 5 (' +' $' (,' +' (.' -$'4 '$,$Q ' 4 .' D(2(3 ,$ *' -(" - 3.(," 4. -(!' (*,' ,(*-*" ' .' +' $).('3$.3 +,$ *' -(" 9.+$$$" -+*" $*, !' .$(.' - ' . 8+ (7 - (.@(;

.' ' %$' '(.+' 2' +' - $9(*3(' -(" +33 '+, ." 4 1) $3" (,' ' " (.' .('4 *'+)$$, /3 *,.($(" + ,(." -(" ,. 1) (" 5 $' *,'(*' (' -+*" ('4+8" -(' + 2=' (." #+ ,(.' /' +-!' 6 .(*," (,'3 4 $3('/' (,'5 (' (" +- $*$',.+,($ ' -+' -$.(3, $.(' -+' -$',.$3,' -(' $(44(' (,' (" # 3(." *$3$4+ 2' .(5 (.!' . *,/' '$' ,')(' $*/ +' # .3(' $,+$.('4 .'#+$.('(2 3 ,(.' (" -(3.(," -- $' 4 ., -"3 *,.('5 (5*(" 4.(0(**" 4+.' (' -$',.$3,' -($(4?$&7

%' ' (' (" +- $*$',.+,(." -+' -$.(3, $.(' - ' -(4+.,((*,' 4.(*-. *,' ,(" (" $*# . +,$ *" *(3(' '+$.(" ' .' +'3 *- $,(' ,(* ('4+.' (' @$3$(." +*$3$4+ 2' -(" 4+. $''(' '3 +!' *+ , " - *,' (" 6+)$,+*," *,'4+.,$3$4('2' +' .()($ *' +' +' $/' (,'(*' .(*-. *,'3 4,('G ''( ) ((' *+,$ *+ ($*3(''+ (*,/' '+ #+*2-$," +- $*$',.+,(." +' 4,(*-. '4. 0$' $.((*,/' +' .(1 9+.-' -(' -$," # 3(." *$3$4+ 2/ , ," (" (' .(" 4.('!' 3.$,(" 4+.' (" - $D(," 4 .' (' . $+) $''((*,' -(' +' 4+$2' (,' (')$(*' -(' +- $*$',0+,$ *7

.'P' (' (" ,'. 4(" -(' $9*('((,'9+.-(" *+,$ *+ (" '('3 *# *D' (. *,+ 2' . -.(" (,' .(5+$'$,$ *" -(" 3 .4" +- $ ',.+,$#'(,' -(" *$3$4+ $,('/ ('(,'5 ('4. 0$' $.((*,'+ (**9+.-(' *',$ D' *+''*(' ' ,$.+' -(' *' ,(.$, $.(' '+*" *(' .(5 $'$,$ *'# . ((3 .4" +-$*$',.+,$#" ' -((." 9. 4.(" * 3$4+ $, '/' 4. 0 5 ((' 4+.' +' *$3$4+ $,8 5 $' + .+')(' $*' -+'' $',+*3(.'F' ''( ) ((' *+,$ *+ (' + ,$'(' (" +- $*$',.+,(." - ' -$.(3, $.(' - ' -(4+.,((*,' -(' +' ($*(! *#8*(.(' +$*-$5 (.' 4. 0$' $.((*,' +*2-$," # *3,$ **+$.(" 4) $3" (33$8'$+',$5 " '83 $(.'(,' .89 (.'/ (,' + 2-$," .($9,(2' 8. (' * *' # *3!' ,, **+$.(" 5 $' *% ,' 4+" 4.8,8' ('(. (*,/ (" $(2'5 (' (' -(1 4+.,((*,' 9(' 3 *0(*+) (" 4 .' +' .-'$-(*3(' -(" 4.(,.('(,

.(9(2/ 6'4E . (*-.(;, / ?7.' + ''( ) (<'7 ,<'5.'>.6 / .6'1.6 =' ' '41,<7 ?1 6.6 U ;.7 '1>8 .7 '67'74.1 ;.' =4G 5 '??'1 .<>1'G

: D ''( ) (*+,$ * / - +4.(" (', $9*+9(- + - 4+$,(! (*,/ +44. 0(+ 3 *- $,(-(+)(.,/ 5 $ '(', (# $3+! 3((*,'(4 8-'4 .'(4 6(.' (" (##(," -(+ .)($ * :

+ 8 '> .1 .7 '5'<. #:' / ?'4@ 6. ?5' J<.<7 >.6 <71 J4.6 6.> 5 .46.6 >.6 ?1 71.6 1. E1'>' 1.6 >'<6 5.6 >. ?'17. / .<76 >. 1 J. .7 >.6 # 7.6 >4 ,1>% 56 >. / '<>.<7 =4 5 6, 5 ?1 6 >J'1> >. ; .6 ?1E 71.6 >.6 / .641.6 J.<>1'5.6%

#.77.' ?1,?,6 7 ,< .67 1.<-,V>.' '4 ;, / 7> .;;5 ` '6 ' 7 =4.% d $

+ % 'f 'EE' 1.'>. >;:'<J.'>4 ; , / 7; >.' '<;.11.'.67 " ,1>1.'>4 Q,41% .' -' 6 E' 1.'5 1.'4<.' 5.771.' =4.' % .6?'J<';''>1.66.' " 66. / 05..%

% ; 5 'N 'E'47 .<7.<>1.'5.'1'??,17 '-'<7 >.'5 1.' ;.77.' 5.771.I % .6?'J<';' ?1_ 6.<7.' >.' <,4-.'4@ <,V.<6 >.'>.E.<6.8 5 64E:1" =4. 66.< 05..'5.6 ;,<' <' 66.' '-'<7 =4.'5" > 6;466 ,< 6 ,4-1.% $

% H1 ;'4>' ;, / / .<;.'5.'1'??,17 >.' ;.77.' 'EE' 1.%

" 6.'<;.' .67 5.-..' " > @ <.<1.6%

' ' ' WF A

66. / 05..'1.<-, .''4@ ;,<Q 7. 6 >.6 1'??,176.7 .; ' ;5.6 '67 =4.' 4<.' '>1.66.' ?'1 5'=4.55.' 5. ' ;41.6 ;,<6 8 7 747 ,<<.56 >4 > ?'17. / .<7 >4 B447 : < 6.' ?5' M J<.<7 >.6 -.@'7 ,<6 =4 56 ?1,4-;<7 >.'5" ?'17 >.6 ?1E 71.6 1.E1';7' 1.6%

% % K,<66 ,< E' 7 ?'17 " 66. / 05>.'> 4<.' 5.771.' >.' % ! 1' / / ,<78 =4 ' '<<,<; .' =4.'7 ,<6 5.6 ,E5 ; .16 >4 1>J / .<7 ; >.- / 7 > <J4 .< ,<7 ?1E 7> 5.' 6.1 / . 7 '77';:.' " 1.@.< ; .'>.6 E,<;7 ,<6 / 5 7' 1.6%

% :, / '6 .0,478 <.J,; '<78 >.?,6.' 641 5.' 04M 1.'4 4< '66 J<'7 >.' 5 -% ?,41 5" 6,5>.'>.6 V,5,<' 7' 1.6 <'7 ,<'4@%

' 41 5.6 1'??,176 >.' % # .1<,<8 5.6 >.4@ >>;1.76 6 -'<76 6,<7 1.<>46N

' WN% 66. / 05.'<'7 ,<'5.'>#;1 7.' =4.'5.'71 6,1 ?4 ' 05 ';=4 77. " ; .' =4 '6.'71,4-.1" >9 ?,41 5.'?'? .1 .7 / ' ?1.66 ,< >.6)4 ' / 55 ,<6 > '66 J<'76 > ;1 7 6 5.6 C*6.?7; / 01.' .7 5 ,; ,01. (* 8 >G'?1.6 5" 1.?1.6.<7'7 ,< >.6 / '1;:.6 .7 >.6 =4 77'<; .6 >.6 ?' . / .<76 E' 76 ;, / ?7.'Q46=4 '4 5.78 ?1.6.<7 / , 6%

: ' -3.(,(5+ $''(.+ * ('4+. ('4 *0 $.(2(3 ,$#/ " + .('4 *'+)$,(- ' $*$',.(-(" 3 *,.$) ,$ * " 4) $5 ('/ * 3 $''+,.(+- $*,' + 2 -(2 3 $''+ .(" - ' . $ -(F (* +3 0,(/ 4 .'.(4 $.'+0(3 (2/ '($$ (($$,'4(*-+*,',. $" $'/ (" ((" # *3,$ * " -+*" ,'3($ + .+44 .' 2 + 3 *#(3,$ * -(" +''$9*+," -(X $0 ',(-('3(2 -(+ 3.(+,$ * - ' GII $ $ * " 4 .,+(-+* " ((3.(,' - 'BT $* -(.*$(.

: ' ($*$',.(-(" 3 *,.$) ,$ * " 4) $5 ("0$'(.+ , ," 3 *0(*,$ * " +.. ,(((,' '$9* (" 4+.' (" 3 $''+ .(" - ' . $ +0(3 (" #+).$3+*," (,' +.,$',(" 33 4(" 4 .' (" +''$9*+," -(+ 3.(+,$ * -('GII $ $ * '/ -(+ ((+*$(.('5 '(* +(,('('4 .'3(2 -('X 0// (,'3 4$(-(" 3 *0(*,$ * " 0$'((" '(.+ D -(4 '((+ 2 +.36$0(" *+,$ *+ (' :

66. / 05. .' / 7 ,<'5. >.;1E.7.' ;.' =4 '64 7N

D < % H % + -(4(*'(-('.$*-($** ,('.(9 ('4+.' + $ - 'BF +." BHTB/ $' 36+3 * -(" 9('/ 3 $''+$.(" - ' . $ (,9.(#! @(." -(" '$2 ,.$) *+ 2 4. 0$' $.("(,+) $" ' +.$"4+.' + - ($/ '(.+ + 5 $,,((4+.' .+ $" ' .' (',.(' .'4) $3/ + 3 4,(.' - ' .' -(',(+.' * $*+,$ */ -D+4.(" D(,+,' -('3(,,(-(4(*'(/ 5 $ '(.+ +..(,(4+. ($*$',.(-($*,(.$(./ '+*" 4.(-$3(- ',.+$,((*,' .-$*+$.(-(" ( ).("3 4 '+*,' ('-$," ,.$=) *+ 2/ 5 $3 *,$* (.+ -(,.(+35 $,(3 4$(,((*,'(,'(* , ,+ $,(' .' ('3+$''(" -(',(+." -$',.$3," .('4(3,$#'

G BB + -(4(*'(-($*-(*$,($ 9 ((4+.' +.,$3 (' -(+ $ - 'BP +." $HT / '36+3 * -(" 9(" - ' ,.$) *+ '3.$ $*(' 4. 0$' $.((,+) $ 2 . (+*" 4 .' (9((*,' -(" 3.$ (" -(('(=*+, */ +$*'$5 ((',.+$,((*,' -(+33 '+,(.'4) $3 (,' ($ - '9.(##$(./ '(.+ + ''$ +35 $,,((4+.' $" ' .' (',.(' .'4 1) $3/ 2 3 4,(.' - ' .' -((.'$ ',.+ +,$ */ -+4. " (,+,' -(3(,,(-(4(*'(/ 5 $ '(.+ +..(,(4+.' ($*$',.(-($*,(.$(./ '+*" 4.(-$3(-+!,.+$,((*,' .-$*+$.(-(" 9(" (,'+33 '+! ,(+.'4) $3 '(4 '+*,' 3-$,',.$) *+/ 5 $3 *,$* (.+ -(,.(

+35 $,$3 3 4 -,((*,'(7 (* ,4 + $(' .' (" 3+$''(" -((+# -$' . ," 3'433,$#''

:$* ' (*,+*,' -(" ' ('/ 5 $ + . *,'($(+35 $,,(("4+ (',.(' .'4) $3 4 .' + -(4(*'((*,$ **(((* +.,$3 (4.(3(-(*,/ '(.+ $ 4 ,(/ 4+.' (", $''+$.(" -(+ ,.(' .(.$3 6+ ,$ *+ (/ ' .' ('# * -"5 $ + (,(-(3.(,-/ 4+.' + $ - ' #(0.$(HTN/ 4 .' (" -(4(*'(" -(+ 6+ ,('3 .' *+,$ *+ (

Z + -(4(*'(-('" '$2 ,.$) *+ 2 3.$ $*("4. 0$' $.(".7 Œ 2 +.$" '(.+ .( ) .'((4+.,$3 (.((*,' + + ,.(' .(.$(*+ ,$ *+ ('4+.' + 3+$''(-((2,.+ .- *+$.(D :

+ % -2 2 & N .' -' 6 -,46 ?1.6.<7.1 5.' ?1,Q.7 > >.;1.7 >,<7 Q.' -,46 ' '>.Q" >,<<.'5.;741.8 ;, ;.1<'< 5" > 6; ?5 <.' >.' '1 / ..% - " .@.;47 ,< > 4< '11 7 > : .18 5.' ,, / 7.' / 5 7' 1;' 6 .67 '66. / 05.' ?,41 > 6;4 7.1 >.' <,4-.'4 ;.' ?1,Q.7N O.' ;,4? >.' / . / 01.6 > 66. / 05..' 6.' 6,<7 1.<>46 " 6" 6.'<;.8 .7 7,<6 6,< ;,<-.<46 =4.'5.' ?1,Q.E >.-' 7 1.67.1 7.5 =4.'Q.' -, N ' ?1.6,<7.I Q.' -' 6 .< 5 1.'5.'5.' ?1. / .1 '17 ;5.%

''( ) (*+,$ *+ (/ $* ,. $,(5 ('4 '$(." .(9$ (*,' -(+*) -(' *,' -(4 .0 " - * 9.+* - *) .(-('$(." ,@ 3$(.'/ - *,' (' * *,'(,(-(',$, " $ 9+ ((*,'4+.' (" ' ' -+,'/ ,+* -$" 5 (- + ,.(" *,'+)+*- ** ' - (2! F (" B ? ',($' 6 **(.' (.[+$'+$,'$ '-(0 $.' -(.$.'4 .'B +$*,$(* -(+ -$'3$4 $*(7 # .,((*,' --3$-((6 n+ . ,+) $ -+* , ,(G+ 0$9 (.7 3 *'$- .+*,' 5 (/ 4+.' + *+, .(- (*9+9((*,'5 ((" $$,+$.('D3 *,.+3,($,'(*0(." + *+,$ * ('+3.$#$3(-((.' 0$('* (',*$ ('(+ / *$ 2 ' 4 "9.+* 5 ((' $,(* -. $,' -(2$9(.' -(2/ +$" 5 $ " $ - $0(* 3(- ' - *('4 .,$ *'3 *'$-(.+) (' -((.'$*-(4(*-+*3(/ 2 + 5 ((" .(* *3(*,' (*,+*((*,'4 .' (2 +'' .(.'B)(.,-' -((." 3 *3$, 8(*'7 5 +$*'$ 6 **(.' - *').+0 (,' 8+ ' -+,' *'(4(,'4+" F,.(4 " 9.+0((*,'3 4. $ 4+.' *(+3)(,-/ 5 '*(('(.+$,'4+.' * +3,(-$*'*) .-$*+ ,$ * * -($3(*3(7 0 * +*,'5*(-- ' . +$" -(''( ) +) ("+' ,(" 3 (*,'4 * " $..- $''$) ((*,' -+*", ,(" (" 3 +"'(" -' $$,+$.(7 (,'5 (%/ 4 .'G,(.', ,'4.-,(c,0(- (23 '(/ (" #+ ,((,' --$," -('3(9(*.(' 5 $ '(.+$(*,'3 $" + +0(*$./ * (4+ '(*,' ,.('3 *# *- "+0(3 3(2 - *,'BB(',' 4 ''$) (-(.(((,($ ( ) + (' .' ("3$.3 *',+*3(" - *,'* "' .$ * '7 +4.('+0 $$ (*,(*- ' ('.+44 .,' -(' * 3 $,(' $ $,+$.(/ + --3$!-,-3(5 ' $,;

: * ' (" # 3$(." 5 $/ -(4 $" -4 5 (- ' + -(.*$(./ ,'+)+*- **-'0 *,+$.((*,' (.'3 .4" * (*.' -.+4(+ 2/ '+*" +0 $.' - **-' (.!-- $''$ */ (,'5 $ ' *,'(*! ' $,(4+''-" 2 -,.+*9(./ '(. *,' $*3(''+.+ (*,' 4 *.'*$0$ 3 (,.+*'# 9(" 4+.' (" 3 $''+$.(" + -$,(." -(" 9 3.' .(+/ (,' 9-" 4+.' (" (." +.,$+ (' B? (* '(.+ -(- (2 (9+.-' -(" ##3(." 5 $/ +8+*,'- **-' (.' -- $''$ */ *,'(* ' $,(4+''-" 2 -,.+*9(./ '$/ -+*" (' --+$ - * $' / ' 3 4,(- .' -(+ 4) $3+,$ * ' 4.-'(*,' --3.(,/ " *(' *,'4+ .(*,.--+*" (' .8+ (% D /

% 'N .'>.<[<>.' '4.'5.6 ,E5 ; .16 =4 '1.' 71.1,<7 .< H1'<;.' >'<6 5.' >.5' ' ?1.6;1 7 6, .<7 / ' 6,46 5" 6'4-.J'1>.'>.'5" 5, 8 .7 =4.'5.6 ;,1?6 '>/ < 6 71'7 E6 6, .<7 >.;5'1.6 1;6?,<6'05.6 >.6 - ,5. 7; .6 =4 ?,411' .<7 >71.' .@.1.>.6 .<-.16 ;4@% .< ;,<<' 60.'4 ;,4? =4 ' <.'6,<7 6,17 6 =4.' ?'1; .' =4 ,< 5.41 / .77' 5.' ;,47.'4 6,46 5" J,1J.%

% - 2 'f ' .67 > 7 >'<6 '17 ;5.' =4.'5.6 ,E3 ; .16 =4 ' 6,<7 ?'66.6 .< ?'V6 .71'<J.16 6.1,<7 ?,41 64 - 6 ;, / / .'71'<6E4J.6% <$ .66 .416 8 < .67 ;;'?'f '66.0 ?,41 ;.6 ,E5 ; .16 > >71.' >.;:46 >.' 5.416 ;' ' ?5, 6Z <.' 6.' 71,4-.<7 56 ?'68 ?'1 ;.77.' ?1 -'7 ,< '66.0 ?4< 6 > 4<.' E'47.' %=4 4< ?1. / .1 / ,4-. / .<7 ' ;, / < '<>. .8 " >?,=4.' , 5 5.'>.?'17 >4 1, ' '-' 5 4, 5.6 .J'1.1Z

' 0 N '??0 .' ,06.1-'7 ,< >4 ?1. ,? <'<78 .5 Q.' >. / '<>.' " % 5.' 1'??,17.41 , 5 .67 5" 5, ' =4 ' ;55 =4.'5.6 ,EE ; .16 =4 8 .< 7. / ?6 >.' ?' @8 =4 77.1,<7 5.4' 1.J / .<78 6.1,<7 ?, 164 - 6 ;, / / .' #1 <.56% #.6 ,E5 ; .16 <.'6,<7 ?'6 .<J'J.6%

% 4 " N ,0Q.7 >.' 6';/ 05..'>, 7 71.>'' 0,47 1 '4 1>7'05 66. / .<7 >.' 5" ?' @ ;7 >4 0,< ,1>1.' >'<6% '1 / >.% 18 Q.' ;1, 6 =4.' ?,41 ;.5" 5 E'47,4 ' 05 ;1 7,47 5.'?'66.f Q.' ;1, 6 =4.'5" 0,<<.' / '< .1.'>'' ;:.-.1 5" 1; -,547 ,< . .67 > ,405 .1 7,47 ;.' =4 ' " .7.' 5" 64 7.'>.6 > EE.1.<7.6 .11.416 >,<7 5.6 ; 7,V.<6 ,47

' .7 ' 5.6' - ;7 / .6% <' <,46' ?1,?,6.'>.'1.71'<;:.1' '1 '
7 ;5.' '>4' ?1,Q.78' .7 Q.' ;1, 6' ;<' .5E.7 =4 5' .65' <> 6M
?.<6'O5.' >.' ?'66.1' .?,<J.'641' 5.6' 1.?1,;:.6' =4 ,<'
?,411' 7' ' - , 1' '' E' 1.' '4@'6,5>'76% ,<6' 5.6' 1.<6. J<. '
/ .<76' <,46' E,<7' ;1, 1.' =4.' 7,<6' 5.416' / >E' 76' ,<7' .4'
5.41' 6,41;.' >'<6' .11.41' >4' ?'71 ,7 6 / .%

' .67' ?,66 O5.'=4.' =4.5=4#6' ,EE ; .16' 71E.6' .67 / 'O5.6'
' .<7' E,1#>6' >.'6.'1.7 1.1% ' E'47' >,<.' / .771.'7 <.'
J1'<>.'> EE.1.<;.' .<71.' 5.6' ,EE ; .16' =4 ' ,<7 =4 77 ' ''
;'46.' >.' <640,1> <'7 ,<' >.' 5.41' ;,1?68' .7' 6.' 6,<7
1.7 1>6' ?' 6 O5. / .<7 ;:.O' .4@8' .7' ;.4@' =4 ' 6,<7 ?'66>6'
.<' ?'V6' >71'<J.1I' ;.6' >.1< .16' >, -.<7 >71.' 71' 7.6'
;,< / .' 7,<6' 5.6' '471.6' > / J1'<76I' 6' ,<' 5.6' .,< ' <;'
> ' - , 1' ?'17 ; ?>' '' =4.5=4.6' ;, / ?5,768' '' =4.5=4.6'
?1,Q.76' :,67 5.68' '5,16 56' >, -.<7 >71.' ?,4164 - 6' ?'1 '
.-'47' 5.6' 71 O4<'4@' ; - 56I' 6' 5.6' ,1' ,<<'<;.6' '< '
; .<<.6' .<7' =4 56' >, -.<7 ?.1>1.' 5.41' ?5';.' ?,41'
' - , 1' =4 77>' 5.41' ?,67.8' 5' E'47' 5.'>.;5'1.1I' <' 6' >'<6'
'4;4<' ;'6' 5.41' ;,<>4 7.'<.'>, 7 >71.' Q4J>.'=4.'> ' '
?1>6' 5.6' 5, 6' '<7>1 .41.6% .' > 6' >,<.' =4 .8' ?,41' ,O7. '
< 1' 5'' ?' @8' ?,41' 7.1 / <.1' ?' 6 O5. / .<7 5'' 1>-,547 ,<8'
5' < V' '' =4 4<' / ,V.<%. .67 > ,4O5 .1' 5.' ?'66>% '<6' ;.'
7. / '>.' 1>-,547 ,<8' 5.6' 4<6' ,<7' / '1; :.' >'<6' 5'' - , . '
>1, 7.8' > '471.6 ,47' ?1 6' >.6' - ,7.6' ,O5 =4.6I' / ' 6 5'
>, 7' '11 - .1' 4<' / , / .<7 ,>' <,46' <,46' 1.<;,<71.1,<6'
7,468' ,>' <,46' '41,<6' 7,46' 4<' O47' ;, / / 4<8' 5'' ?' @'
?4O5 =4.% +' .67 5' ?'6' >- >.<7 =4.' 5.6' ,EE ; .168' =4.'
- ,46' '55.O' ?,4164 -1.' ?,41' - , 1=4 77.5.411>J / .<78'
>,<<.1,<7 ?,41' ?>..6' Q<67 E ;'7 .6' 5.6' 1.?1,;:.6'
=4 56' ,<7 '' E' 1.' '4@'6,E>'768' .7 =4.' ?'1' 4<.'64 7.'<. '
;.66' 1.' >.6' ?1,.>>41.6' \' O4>1' 7 ?41 1' >.6' 1>JB'
/ .<76' .<O .16I' =4.' >.%5'' 4<.' E,45.'>.' >>6,1>1.6' <' '
71' .<7 >'<6 '1< >.I' =4.' 5.6' :' <.6' .7 5.6' ?'66 ,<6'
6 ' J1 1' .<7I=4.' 5.6' >.<,<. '7 ,<6' 6.' / <57 ?5 .1' .<78'
.7 =4.' 5'' > 6; ?5 <.' <.'6.'1>7'O5 1' 7 ?'6Z .';1, 6' >,<.'
=4 5' E'47' >.6' ?. <.6' 6.->1.6' ?,41' '- .< 18' 4<.' ' / '
< 67 .' ?,41' 5.' ?'66.I' ; .67 W > 1.' =4.8' ?,41' 5.6' ,EE M
; .16' =4 ' ,<7 =4 77>' 5.41' ;,1?68' 5' E'47' =4.' ,<' 6 .<'
7 .<<.' '4@' '4; .<<.6' ,1>,<<'4;.6%

' 1 O 'N '?4 .' 5.6' ,O6.1-'7 ,<6' >.' % #:' '
O1,4>% ' '' >7>' .<-,V>' '4' ;, / 7>' > ?5, / '7 =4.8' ?'1' 5.'
/ >671.' >.6' 'EE' 1.6' .71'<J>1.68' >.6' 5.771.6' >.' #,5,J<.'
&Q4' >7'O5 66.<7 =4.'O.'4;,4?' >.6' ,EE ; .16' > / J1.6' 6,<7
;5' '<6' <7.<7 ,<' >.' 1.<71.18' 6' 66. / O5>'' <'7 ,<'5.'
- .<7 O .<' ?1.<>1.' >.6' / .641.6' =4 ' J'1'<7 66.<7 5.41'
6E51.5>% <.' >.' ;.6' / .641.6' >.'6>1.7.' . .67 5'' 5, '?'1'
5' =4.55.' - ,46' - .<.O' >.' 1. ?1 1' .1' 5.6' 'O46' >,5'' ?1.66.'
.7 >.6' ?1, ;5' / '7 ,<6' <;.<> ' 1;6% ' 66.< O5>.' - .47
>,<.' O .<' 5.41' J'1'<7 1' 5'' 6>1.7.' ?.16,<<.55.' >4.' ''
7,47; 7,V.<8' 56' ,4O5 .1,<7 7,47' 5.' ?'66.% & <' 1 7P' 6'
,4O5 .1,<7 7,47' ;.' =4 ' '' ?4' ;5.- .1' >'<6' 5.416' ;;.416'
>.6' 1.66.<7 / .<768' .7 / > / .'>.6' ;1' <7.6' .5' >.6' <=4 > '
74>.68' .7 56' 1>?'1.1,<78' ?'1' 5.41' ;,<>4 7.8' 7,47; .'
=4 ' '' ?4' 1>?'<>1.' >.6' 6,4?=,<6' ;.<71.' .4@% .';1, 6'
>,<.' =4 5' <.' E'47' ?'6' E' 1.' ?,4164 -1.' >.- '<7 >.6'
;,4168' 5.55.6' =4.' 5.6' ;, 16' / '17 '5.68' ;.4@' =4 ' < ,<7
E' 7 =4.' ?'66.1' ;:.O' >71'<J.1%

' O) 'I' .' >. / '<>.' '' ?'15.1' ;,<17.'5''
?1,?,6 7 ,<' > 4<.' ' / < 67 .' J><.1'5;% ' < V' '' ?'6' >.'
> 6; ?5 <.' '' '77.<>1.8' 6' - ,46' 6,4EE1.O' =4.' >.6' <E> '
1 .416;: '66.<7' - .;' - ,5.<;.' 5.416' 64?>11.4168' / > / .'
>'<6' 5.' ;'6' ,<' ..6' >.1< .16' 6.1' .<7 ;,4?'O5;6% .' <.'
- .4@' ?'6' '77.<4.1' 5.6' 7,176' =4.' ?.4-.<7 ' - , 1' 5.6'
;:.E68' / ' 6' .'<.' - .4@' ?'6' =4.' - ,46' E' - ,1 6 .O8' ?'1'
/ ?4< 7>8' >.6' ';7.6' .EE1'V'<76' > @ 64O,1> <'7 ,<%

' ' I' .' ;, / O'76' 5.' ?1,Q.5' >.' 5, ' =4.'
5.' ;, / 7>' / 5 7'4.' - ,46' ?1,?,6.% #.77.' 5, '5.' ? 7'
>71.' Q467.' =4 '47'<7 =4.' 7,46' 5.6' ,E5 . .16' =4 ' 6,<7
'Q '66.6' '' >71'<J.1' 6.1' .<78' 6'<6' .@;.?7 ,<8' >'<6' 5.'
;'6' > E 71.' ?,4164 - 6' ;, / / .' 71'<6E4J.6I' / ' 66 5' .<
.67 4<' 6.45' =4 ' <.'6, 5' ?'6' ;,4?'O5.' >.' ;.' >>5 78' 5'' 5, '
>'<6' 6'' J.<.1'5 7.' .67 <E < / .<7 <Q467.8' 1%Q.>. '
/ '4>.' 6' >.' 7,46' ;.4@' =4 ' 6, 7 ?'66>6' '' .71'<J.1' 5

< .<' .67 ?'6' ?546 .416I' 6 8' '<' / , <68' 5' < .67 ?'6' ?,6M
6 O5.' =4 5' V' .<' ' 7 4<=4 'V6, 5' ?'66>' E,1.> / .<7?,41'
6.' 6,4671' 1.' '' 5'' / ,17=4 ' 5.' / .<'=' 7%%%%

% - 2 2 &'N .' - ' 6' 1.<>1.' ;, / ?7.' 7 .6' / ,7 E6' =4 '
,47' >.7.1 / <.' 5.' ;, / 7>' / 5 7' 1.' '' <6 67.1' 641' 5.'
?1,Q.7 =4 5' - ,46' ?1>6.<7.% <'%<.' ?.478' >.'O,<<.' E,18'
;,<E,<>1.' 5.' E' 7 > 4<' ,EE ; .1' =4 8' >'<6' 5.6' ; 1; ,46 '
7' <;.6' ,>' <,46' 6,< / .68' <,<' ?'6' >'<6' 4<' >7'7 >.'
J4.11.8' / ' 6' >'<6' 4<' >7'7 > <=4 >74>.8' ,;;'6 ,<<>'
?'1' >.6' '771,4?. / .<76' > ,EE ; .16' >>6.17.4168' >>6.17.'
6,<' ?,67.8' 6'<6' ;,<J>8' 6'<6' >. / 66 ,<8' ?,41' 6.'1>4< 1'
'' ;.6' 1.O.55.6I' ,<' <.%?.47 ?'68' > 6=.8' ;,<E,<>1.' ;.'
>>5 7' - .;' 5'' ;,<>4 7.' >4' . 7,V.<' =4.' 5.6' / .<';.6' .7
5.6' - ,5.<;.6' ,<7 E'1.>' >.' =4 77.1' 6,<;,1?6% 4 ' =4 75.'
6,<' ?,67.' .7 'O'<>,<<.'5'' ?'71 .' ?,41' 5'' 71': 1' >'<6
4<' / , / 1'7 ,4' .55.'>. / '<>.' 6,<' 6.;,416I' '471.%%%%%%
& '' ?'17 .' >1, 7.' / 41 / 41.%P' 8

'77.67.'=4.' 5.' .,<47>' / 5 7' 1.' 1;4<' ?546 .416' E, 6'
' - .;' >.6' ,EE ; .16' J><.1'4@8' 4- .;' > EE>1.<76' / . / O1.6'
>.' 66. / O5>.8' '' >7>' 4<'< / .< .47 > ';;,1>' ' - .;' .<6'
641' 5.6' > 6?,6 7 ,<6' =4 5' - ,46' ?1>6.<7.% 34.' > 1 .O '
- ,46' >,<.' 6 8' '4' / ? / .<7 ,<' 5.' >'<J.1' >.- .4>1' 5'
.<;,1.' ?546' < / <.<78' 4<.' 71,4?.' > ,EE ; .168' ;'1' O'
6,<7 6,17 6' ?'1' >?6' / ,4- . / .<76' ;, / O <.6I' 6 8' > 6 Q.8'
<.' 71,4?.' > ,EE ; .168' '<' / , / .<7 > .<71.1' .<' ;' < '
?'J<.8' =4 E7' .<7 - ,6' >1'?.'4@'?,41' .'1>4< 1' '4@'. '
<. / 6Z 7 ?,4-.O - ,46' > 66 / 45;1' 5.6' / ,7 E6 >.' 5''
;,'5 7 ,<' >.' ;.6' ,EE ; .16' =4 8' '4' / , / .<7 >.' '11.67' '
7 ,<' >4' 1, 8' 6,<7?'66>6' 5'' E, 6' >'<6' 4<;'1'? .71'<J.18'
'?1.6' ' - , 1' - ' 4. / .<7 7.<7>' > . / O'4;:.1' 5.6' 6,5>'76Z
,EE ; .16' <.'6,<7 ?'6' .<J'J>68' > 7 ,<% .' ;1, 6' =<.Q'
?,41' 4<' ,EE ; .184<.?'1,5.' :,<<.41' - '47 O .<' '
J'J. / .<7 >4' 6,5>'7% '<6' >.6' ; 1; ,<67'<#.6' / , <6' ;1 M
7 =4.68' ,4 6' '' ' '' E' 7 ;,<>' / <.1' '4@' J'5>1.68' ''
?.1?>74 7>8' >.6' ,EE ; .16' =4 ' >7' .<7 ' <6' ' ?'66>6' '' >M
71'<J.18' .7 ;.' < .7' 7 ?'6' .<' 7. / ?6' >.' J4.11.I' 56'
>7' .<78' '?1E.65'' J4.11.8' >'<6' >.6' =4'17 .16' > : - .4%

34'<7 '' ;.' =4 ' ;,<;.1<.' 5.6' 6,5>'768' <,46' ' - ,<6'
.@;.?7>' >.' ' / / 67 .' 71, 6' ;1 / .6N . / <' ;:'J.8' 5''
>>6.17 ,<' .7 5'' 71': 6,<% 18' ?.47 ,<6;' > 66 / 45.1'
%=4.' 5.6' ,EE ; .168' ?'66>6' .<' ?'V6' >71'<J.18' .7?,41' 5.6 '
=4.56,4' >. / '<>.' 4<.' ' / < 67 .8' ,<7 5'' ?54?'17 7.<7>'
>.' >>O'4.:.1' 5.6' 6,5>'768' ;7 =4 56' ,<7 7,46' ;, / / 6' 5''
71': 6,<' >.' =4 77.1' 5.41' ?,67.' '4' K , / .<7 , 5' ,<' 5.6'
V '??.5' 78' .7 >.'6.'1>4< 1' '' >.6' :,7< / .6' =4 ' ?1.?'M
1.<7 >- >.1' / .<7 >.6' ;,67 5 7.6' ;,<51.' 5'' H1'<;.Z'
34, 8' ,46' ?4< 1.O' >.6' ?. .6' 5.6' ?546' 6>-.1;6' 5'' 71'M
: 6,<' >.6' 6,5>'768.7 - ,46' <.' ?4< 1.O' ?'6' 5.6' 71'<6E4J.6'
=4 ' 6 >7' .<7 .<J'J. 6' ?'1' 5.41' ?'1,5.' > :,<<.41' 7 >> '
E.<>1.' 5.41' ?'71 .8 .7 ' - ' .<7 ?1>7.' 5.'6.11' .<7 > ,O. 1'
6.67, 6' ' 68' <,46' > 7 % '17 <.'48' 6 55' .67 4<'
6.45' >.6' ,EE ; .16' > / J1>6' =4 ' ' 7 >7>' 1>>4 7 ?'1' 5'' V ,'
5.<. ' '' 5'' <. ; .66 7>' >.' =4 77.1' 6,<' ;,1?68' .7 > ;6 > '
5, J<.1' >.' 6'' ?'71 .8 5'' 5, ' >'<6' 6'' J.<>1'5 7.' .67 < '
Q467.% ' 68' 7,6 .4168' <,46' <.' ,46' ?1,?,6,776' ?'6'
>.' ?4< 1' ;, / / .' 71'<6E4J.6' 7,46' 5.6' ,EE' ; .16%=4 8' 6'<6'
' - , 1' >,<4>' 5.41' >> / 66 ,<8' 6,<7 ?'66.6' '4' ?' ' >71'<M
J.1I' <, 6' - ,46' ?1,?,6,<6' 6.45. / .<7 >.' 5.6' ?,4164 -1.'
;, / / .' 7.56I' ;.' >>5 7' 6.1'' 5.' 5 71.' >.' 5'' ?5' 7.% ' 5.6'
,E5 ; .16 .' #,5,<.5 ! .<.1'58' ?'1' .@. / ?5.8 =4 ' 6,<7
?'66>6' .<' ;,1?6' ;:.O' 1>71'<J.18' .<' ;45. '<7 5.6' >1'M
?.'4@8' .7 .<' .<J'J.'<7 5.6' 6,5>'76' ' 5.6' 64 -1.'8' <.'
6,<7 ?'6' >.6' 71'<6E4J.686 56' ,<7>.6.@;46.6' 5.J 7 / .6'
'' E,41< 18' 56' 5.6' E,41< 1,478' .7 56' 6.1,<7 'O6,46%

.'?'66.>'5'' 6..,<>.' ?'17 .'>.' '17 ;5.8' .7Q ,O6.1-.'
=4 '' >J'1>' >.6' ,EE ; .16' ?'66>6' .<' ?'V6' >71'<J.1' '?1.6'
' - , 1' >,1< >' 5.41' >> / 66 ,<8' ,<' O.' 5.6' ?,4164 -1'' ?'6'
56' 1.<71.<7 >'<6' 5.' >.5' ' >' 4<' / , 6' ,4' >.' 6 @ 6. / ' '
5 .6I' ,<' ;:'1J.' / > / .'6?.; '5. / .<7 5.6' ;,1?%6' > / < 6 '
71'7 E6' >.' - . 55.1 '' 5.41' 641.7>% #.' < .67 ?'6' 5.41' >- ' '
6 ,BI' 5.41' . / J1'7 ,<' =4.' ,<8' ?4< 1'8' 6 56' <;'5. '
71.<7 ?'6' >'<6' 5.'>.5' ' ?1.6;1 7I' . .67 <7;<7 ,4' ?.1'
6.->1' 7.' >.' 7.67.1' 4< 6' '4@' ' <.< 6' >.' 'H1'<;.8' ;7

>.'7. / , J?.1'>.6@5.66. <6' : ,67 5.68' / '5J1>' <- 7'7 ,<'
=4 '5.41' .67 E' 7.8' .7' < '5J1.'5" J' '<7 .'>.'641.7.'=4'
5.41' .67 >, / ..% & <' 'c ?5'4> 7%P .'>. / '<>.'>,7 ;'
=4.' '17 ;5'' '` 7 1>7 ' '-.;' 4<.' ;5'46.'=4 ' ; : '1J.'
5.6' ; ,1?' '> < 671'7 E6' >.' -. 55.1'6?.; '5. / .<7 " 5.41'
>J'1>' " .@>;47 ,<' >.6' 5, 6' ; ,<; .1<'<7 5" 6E51.7>' >.6'
<> 1 >46%

''( ) -(' -(3$-(' 5 $ ' * 8' +' 4+" $(*' +' -($) -.(.'
' .' (" + (* -($ (*,'

% #1, @' >. / '<>.' 5" =4.67 ,<' ?1>'5'05.' 6 1' '1 '
7 >.% +' 66. / 05>.'>>; >.'=4 5' V " 5 .4' " >.5 0 1.18'
.7' >>;105.' '17 ;5.' .<'=.6' 7.11, .6N

0 ! ' _ ' (" ##$ $(,"5 $/ -(4 $" F4 5*(' -+' ZK%' +$' -(.1
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3 (',.+*'# 9("4+.' (" 34.+ $''+$.(" +* -$,(." -("9+(.!'
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(*'*$,(' 4+''("$' .(,.+*9(./ '$' -+*" e(' -- +$' -(' '$2' '(+$*(' / $'
3 4,(.' -*' A *.' -(' +' 4+) $3+,$,,' -+' 4.-'(*,' --(.(,/ $ " *('
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3 .4" +- $*$',.+,$#'%(,' **$-4+*2' -('0($ (.' '4-3$+ (. (*,/ $'
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DQ' BBB' '.(9+.-' -(")##3(." 5 $') ,' ,(' # .3(" -(' 5 $,,(.'
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+$" * *' -9+$((*,' 0-.$#$ '/ , *,(" --* *3$+,$ *" $* -$0$!'
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(,' 4 .'*$0. *,' -(0+*,' +' 3 *.' +$,$+ (' (' 9((*,' -(" ##$!'
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-) $' +' 4 $3(' -*' 3 .4'/ *' 3 *,.3' ('5 (" (' 4.($(.' .('
* ++.+' 4+",. *0(' 5 $' 8' +$,' $(' ' +33 '+,$ */ ' 5 $' '(. *,'
+)' "4+.' (' 9((*,' - # *$,$# -(3 *." +.,$+ ('/ .(4.(*!'
-. *,' (." 4 +3('7 *,8$ " +$ (*,' $(2/ '(. *,' 4 .0 "
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' "5*$*U+$*(/ + ' $*$',.(' -(' +' 9 (..('(,' +' +' +*$3$4+ $,-'
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:' V%' (" - * *3$+,(*." 5 $' * +*. *,' 4+" +-*$$*$',. ' -(='
4.(0(" ' $$'+*,("4 .' ,+) $.' (' .$,(' -(' (." - * *3$+!'
,$ *" '(. *,' 4 *$"3 (3+ * +,(.'7 +' $* -.(' 4($*('
5, $ "4 .. *,' (*3 .$.'' (.+' 3((' -(,.(' 3+'' '%(,' - 3+. "$*D'
3+4+)$(" -(' 4 .,(.' (" +. (" 4 .' (''(.0$3(' -(' +' 4+,.$(' :

.' -' 6' -,46' .@?,6.1' 5.6' / ,7 E6' >.' ; .6' '17 ;5.6% K.'4 '
; ,4?' > ,E5 ; .16' ,<7 97>'1.<-,V>68' <,<' 6.45. / .<5' 55 '
J'5. / .<78' / ' 6' <Q467. / .<7 ?'1'8' 5.6' 6,5>'76% .' ;1, 6'
=4 5' E'47 5' 66,1' " ; .6' ,E ; .168' ; ,<71.' 5.6=4.56' 5' 6 . 7'
.5.V.'>.6' 6,4?=,<6' 0 .< ,4' / '5' E,<>. 68' 1 ?'<> 6' ?'1'
' / 0 7 ,K' >E' ;. @' = 7' .<' -,45' .<7 " 5.416' ?5' ; .68' 5.6'
/ ,V.<6' >.' 1.<71.1' '-.;' : ,<<.41' >'<6' 5.41' ; ,1?6I'
/ ' 6' 5' .<' .67 0.'<; ,4?' 6'<6' >,47.'=4 '<.' -,4>1' .<7'
?'6' V 1.<71.18' ;1' J<' '<7 5.6' ?1.-.<7 ,<6' =4 ' ,<7 , ; '
; '6 ,<<.' 5.6' ?1. / .16' >.6'J1. / .<76' =4 56' V ' -' .<7'
.664VE.I' .7' / > / .' 5' .67' ; .17' <' =4 56' .?1,4-.1' . 7'
5.6' / > / .6' >.6'J1. / .<76' >'<6' >.6' <,4-.'4@8' 6 56' V'
>7' .<7 64 - 6' >.6' / E / .6' 6,4?3,<6% 'E'47 >,<.' = 7.'
; .6' 6,4?E,<6' 6, .<7 ?41J.6I' .7' 56' <.'?.=-.<7 >71.'
=4.'?'1' 4<'Q4J. / .<7%' '>'<6' .6?' ; .' '.' 'Q,4 68' 5'
<.' 6.'71,4-.'?'6' >.'>><,<; '7.4168' 56' 6.1,<7 1.; ,<<46'
11. ?1, ; : 'OE.6I' 6 56 .<' ?1.6.<7.8' 56' '4E,<7 5" 1.6 '
6,41; .>4' ?1. / .1'Q41V8' =4 '>'<6' 5.' ; '6' , :' 5.' E' 7' 6.1' 7'
E'4@' >. ;5'1.1' 7=4 5 < V " ?'6' Q;4' " ' ; ;46'7 ,<%' < '
E <8' 6' ; .' ?1. / .1'Q41V' >. ;5'1.'=4 5' V' " 5 .4' ' ' ; ;46'M

7 ,<8' 56' Q .4-.<7 5 1.' 1 <7. J1.6' .<' -.174' > 4<'Q4J.'
/ .<7 > 4<.' ; , 1' < '17 '5.% ,46' '-,<6' 'Q, 7.'=4.'5W'
; '5, / < '5. 1 ' 640 1' .<7 5" ?. <.' >4' 7'5 ,<%' ' .6'
Q467. ' .<' .EE.7 >.' ?4< 1' ; .4@' =4 ' >><,<; .1'Q.<7 5.41'
; : .E6' >'<6' 5" 6. 5.' -4.' >.'5.6' 64??5'<7.1%' 8
' / 'N .' -, 6' >'<6' ; .6' '17 ;5.6' 4<' J1'<>' / "
=4.'Q.' -' 6' <> =4.1I' 4<' '471.' ?1,?,6.1" 5.' 1. <.>.'
,41=4, '0.'4; ,4?' > ,E5 ; .16' ,<7 56' >7.' .@?456.6>;'
5.41' 1. J / .<7Z' ? <' ?.<7 5.' > 1.' 7,47' : '458' ?4 6=4'
-,46' 5.' 6' -.0' N . .67 ?'1; .' =4.' 5.6' 6,5>'76' .7' .<7 '7M
7' ; : .6' >' 5" 1.-,547 ,<8' .7 =4.' 5.6' ,E5 ; .16' 6 .74.<5'
1. >46' ,> .4@' ?'1' 5.41' '1 67, ;1'7 ; 8' & 5' 6 >5.V.'=4.5'
=4.6' / 41 / <1.6%P' #.' < .67 ?'6' >'<6' >.' / '4-' 6;6' <M
7.<7 ,<6' =4.'Q.' 1'??.55.' 5.6' / '5: .41;46.6' > 6%6.<6 , &'
=4 ' ,<7 .4' 5 .4' >'<6' <,55# '1 / . .I' / ' 68?4 6=4.'1, 6'
.7.6' 5.6' / .>. ; <68' 5' E'47 -,46' >. ; ,4-1 1' 5" ?5' .% .'
64??,6.' 4<' 1.J / .<7 =4.5; ,<=4.8' =4 8' '?1.6' '-, 1'
< 7.' 5,<J7. / ?6' ; ,<71.' <E5 .<; .' / '5 J<.' >.' ; : .E6'
'< ' 1.-,547 <<' 1.68' 6 .67 .<E<' >.7.1 / <.' " 5" / ; '
641.' 55.J'5.'>.' 5.6' 1.<-,V;1%' .6' 6,5>'76' > 1, <7I' ,46'
< '-, 6' ?'6' ,0>' ' " >.' 7. 6' ; : .E68' ?'1; .' =4 56' < ' '
/ ' ; 7 ?'6' 5" 1.-,547 ,<%' #.' / ,7 E' .67 / ,1'5. / .<'
0,<I' / ' 6' < ' / .1' ?'6' 5" 1.-,547 ,<' < .67 ?'6' /'
>.5 7 I' ,<'<.'?, 511" ?,4164 -1.' ; .6' ,EE ; .16I' .7; .?.<'
>'<7 ; , / 0 .<' 5' .67 >'<J.1.4@' >.' 5.41' ; ,<5 .1' 5.'6,15'
>.'<,71.' '1 / >.5' 56' 1.<71.1,<7 >'<6' 5.41' ; ,1?68' 56' V'
$'??,17.1,<7 5.6' / > / .6' .<7 / .<76' =4 ' 5.41' '-' .<7'
>.Q" 646; 7.' 5" / .E '<; .'>.' 5.416' 640,1>,<<. 6I' .7 5.6'
/ > / .6' > 66.<6 ,<68 .7 5.6' / > / .6' 71,405.6' 1.<'571,<7%'
& ! <' / 41 / 41.%VQ.' ?5' >.' -.1 5'05. / .<7 5" ; '46.'>.6'
,EE ; .168' '47'<7 =4.' ; .55.' >.6' 6,5>'76I' ; '1' 1 .<' <.67'
?546' / '5: .41.4@' ?,41' >.6' ,E5 ; .16' =4.'> .71.' '77' ; : .'
" >.6' ; ,1?6' >,<7 56' < ,<7 ?'6' 5" ; ,<E '<; .%
/ @ # ; '17 ;5.' X =4 ,< -,46' ?1,?,6.' .67'
; ,<E,1 / .' " 5" Q467 ; .I' / ' 6' 5' <.' E'47 <,<' ?546' / .771.'
>.' 7.55.6' .<71' -.6' '4@' >.<,<; '7 ,<68 =4 4<' 1>J / .<7'
<.' ? 66.' ?'6' >.?,6.E.<71.' 5.6' / ' <6' >.' '47,<7.'?4'
05 =4.' 5.6' 6,4?; ,<6' = ^ '41' 7 ?4' ; ,<; .-, 1' ; ,<71.'
6.6' ; : .E6%' ' .67 > 7 >'<6' ; .7 '17 ;5.8' =4.' ; .4@' =4 '< '4'
1,<7 ?'6' '> / < 671>' >.6' ?1.4-.6' 64 5 6'<7.6' ?,41' '?'
?4V.1' 5.' / .1 7.' >.' 5.416' >.<,<; '7 ,<6' 6.1,<7 ?4<6'
; , / <;' ; '5, / < '7.416%' 5' E'47 ; .?.<>'<7 / .771.' 4<.'
> E5a1.<; .' .<71.' 5.6' ?1.4-.6' 64E5 6'<7.6' ?,41' 4<.'>.'
<,<; '7 ,<8%.7 5.6' ?1.4-.6' <>. .66' 1.6' ?,41' 5" ; ,<- ;M
7 ,<8' 4' J.<.1'5' ' ; ;46'7 ,<' E'466.' < .@?,6.' " 5"
?. <.'>.'5" ; '5, / < .'=4.' 316=4 ;5 ;' .67 -.1 7'05. / .<5'
; '5, / < .46.8' .7' 5' E'47 =4 .55.' 6, 7 Q4J>.' 7.55.' ?'1' '
71 04<'5% 6 ' ' ' ' 'P

$

, $! ' & ' ' T ' 3' V' + .- 6 $' WX/' U' '
/' .7 @ -
' +' 4Q, 1>% WX/' ' -B /' .7 R '
! 5
* * <0 " ' 1 ( )9' 14 ' >.' ; ; .5 .4% +' 4Q,41> :4' '
0 /' (,' ' - 0'
' (' , !' / ((8& ' !' * .- 'WX/' $ Q [+/
' & ' " ' * $' ' " ' +*' , + +$'! 8+'
+' 4*.- 6 $' C 8' ' & ' " ' ' ' ,? 1'I.7R'
" 0 ' ; , / >.%
(& ' &' ' ' ' ' & ' & ' / ' C =Q%Q9
' @ / ' 5 0 /'
" 0 ' ' 7 ' / .7 ' &
* "$&,%! 9@$ /+) (0+.-' - ' (4 (' V' A .-' WG
' 3 . / ' + /'
& ' ' '
(' & ' ' ' . (' ,+$*,! + ,$$$' V' > <1> <' Q9
' @ & ' ' ' * ' / .5,>1' / .I'
(' ' - 0 ' 3 -$(
' (' $!S' $ ' %$' 4 ' ' % ' V ' * .-' WX/
' 4' & 0 .& /'
5 ' ' / .7 *9$ ' *'
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* " (' '5 ' ,((' 6(.($' 4 +$,' ' @ ' (:' +) *!'
*(" -J8' (',(.

/

#a%

F ʿ) ʿ ʿ ʿ ʿ ʿW-

<ʿ;1, ʿ=4.ʿ5"?' @ʿ'-.,ʿ5.ʿ 41;ʿ6.1" 6 J< .ʿ'4ʿ-.M 5,41ʿ>.ʿ . / ?.1.'1% .ʿ<.ʿ-,46ʿ> 1' ʿ1 .<ʿ>4ʿ?'17ʿ=4.ʿ % 8ʿ % ?1 ` 4 / .ʿ>.-, 1ʿ?1.<>1.ʿ>'<6ʿ 'EE' 1.ʿ>.6ʿ ?1 <; .6ʿ?,66.66 ,<<'68ʿ55ʿ.6ʿ <; ,<7.67'05.ʿ=4.ʿ '11.65' ʿ 7 ,<ʿ>.ʿ ,4 6ʿ " ʿ" ; :'<J.ʿ5.6ʿ>.7.1 / <'7 ,<6ʿ?1 6.6ʿ >.ʿ5,<J4.ʿ / ' <%%%% <ʿ> 7ʿ=4. %ʿK,4 55.ʿ>, 7ʿ6.ʿ1.<>1.ʿ ;ʿ"5"E<ʿ>46<, 68ʿ "5.771.ʿ.67ʿ> 4<ʿJ1'<>ʿ 7,41> f ,<ʿ .ʿ6.1' 7ʿ>'-'<7'J.ʿ.<ʿH1'<; .ʿ>.ʿ;1, 1.ʿ=4 5ʿ< Vʿ"=4.ʿ >.ʿ1 7,41>.1 .ʿ>'<6ʿ6">. / '1; : .ʿ; : .-'5.1.6=4.% 0,<ʿ <.41ʿ>.6ʿ J.<7 56: , / / .6ʿ " ?,417'<7ʿ 1 4ʿ 5ʿ 4<ʿJ1'<>ʿ .;5 .;% 3 4 .<ʿ> 1' 7ʿ5.ʿJ.<7 : , / / .ʿH1' , 65D ʿZ%%%ʿ .ʿ ?546ʿ J1'<>ʿ6.1- ; .ʿ=4.ʿ5" ; ,<67 747 ,<ʿE1'<;' 6. ?4 66.ʿ 1.<>1.ʿ '4ʿ 7,<>.ʿ ; .67 .@7 <;7 ,<ʿ>.ʿ5" . ,>' 7ʿ ʿ .7ʿ 5" 64??1.66 ,<ʿ>.6ʿ 7 71.6ʿ : ,<,1 E =4.68ʿ ' 6ʿ7, ,7ʿ< .67ʿ ?'.ʿ> 7%ʿ # .67ʿ ..ʿ>..1.7ʿ6.45ʿ=4ʿ-,46ʿ -'4>1"5" J4.11.ʿ .<ʿH1'<; .855ʿE'475"E' 1.ʿ?'1ʿ: 4 / '< 7V8ʿ .7;%

H ! 8ʿ

.ʿF ʿ ʿ ʿ !ʿ +ʿ .6ʿ>. / .1.6ʿ5.571. ʿ> ʿ Y'<ʿ ,47ʿ '<<,<..ʿ5" / ,17ʿ>.ʿ %ʿ>.ʿ # '01.1'68ʿ 5 .47.M <'<7 ; ,5,<.5ʿ> '17 B.1 .8ʿ7498ʿ ' <6ʿ=4 4<ʿJ1'<>ʿ<, / ʿ 01.>.6,5>'76%>.ʿ5" J' / 6,<8ʿ?'1ʿ5.ʿE.4ʿ ; ,<7 <4.2ʿ>.6ʿ 0'77.1 .6ʿ>.6ʿ '41.6%ʿ .ʿ6 7..ʿ6.ʿ ; ,<7 <4.ʿ '-.;ʿ--'ʿ ; 7.8ʿ .7ʿ5.6ʿ'??1, ; : .6ʿ>.ʿ5" ?5' ; .ʿ6.ʿE,<7ʿ'-.;ʿ 7, 6ʿ5.6ʿ ?1 <; ?.6ʿ>.ʿ '17% <ʿ">.Q"> ; ,4-.17ʿ?'46 .416ʿ% / <.6ʿ =4.ʿ5.6ʿ .<<. / 6ʿ?1'7 =4' .<7ʿ6,46ʿ5.6ʿE,176%

ʿ.67ʿ.< 9ʿ"#'> @8ʿ>.?4 6ʿ5.ʿ CQ4 <ʿQ46=4 '4ʿ ʿQ4 5Gʿ 5.78ʿ> @ 6.?7ʿ0'7 / .<76ʿ>.ʿ; , / / .1; .ʿ .6?'J<,56ʿ>.ʿ> Eʿ E&I1.<7.6ʿJ1'<>.4168ʿ .ʿ / ,<7'<7ʿ>.6ʿ ; '1J' 6,<6ʿ>.ʿ7,<6ʿ ;.6ʿ0>7 / .<76ʿ .67ʿ.-'54.ʿ"C8 9 8 ʿ? '671.6ʿE,17.68

L K %

@ ʿ 0 ʿ ʿ ʿ ʿ ʿ - (

.6ʿ6 @ʿ?1E.71.6ʿ-'< >.1 <, ,5 67.68ʿ=4ʿ'<7ʿ 71,405.ʿ5" E97.ʿ>.ʿ <'4J41'7 ,<8ʿ .<ʿ ,<7ʿ .7.ʿ =4 57.6ʿ?,41ʿ 71, 6ʿ V,416ʿ >B 11.7ʿ'4ʿ ; ,1?6ʿ>.ʿ J'1>.% <ʿ< .<ʿ ;1' <7ʿ?'6ʿ / , <6ʿ5" E41. 1ʿ>.ʿ5.41?'17 %ʿ <ʿ"71 ?5.ʿ5.6ʿJ'1>.6ʿ>.ʿ ,'7f 5ʿV ">.ʿ5"E.1 / .<7'7 ,<ʿ?'1 / ʿ5.ʿ?.4?5.8ʿ 7,4ʿ Q,4 6ʿ .J'1.ʿ?'1ʿ; .6ʿE';7 .4@% 3 4'<7ʿ'4@ʿ-1' 6ʿ?'71 ,7.68ʿ 56ʿ< ,<7ʿ?546ʿ> .6?.1'<; .% 56ʿ<.ʿ?.4-.<7ʿ?546ʿ6.ʿ5' 66.1ʿ ?1.<>1.ʿ'4@ʿ1 > ;45.6ʿ ?1, / .66.6ʿ>.ʿ '< >. , ,78ʿ<ʿ ;1, 1.ʿ ?'1ʿ ; ,<6.=4.<7ʿ'Q8@ ?1.7.<>46ʿ 6. ; ,416ʿ>.ʿ " B,55'<>.ʿ .7ʿ>.ʿ5" 1466.8ʿ .6ʿE1 ?,<6ʿ71,4-.<7ʿ?,41M 7'<7ʿ .<; ,1.ʿ>.6ʿ>4?.6ʿ=4ʿ5.4Eʿ; ,<E .<7ʿ>.6ʿ?5'<6ʿ=E7.ʿ 1,4ʿ -"> ,<; ;1ʿ '4@ʿ ;'0 <.76ʿ 71'<J.16% #, / / .<7 7,4 1' 7 ,<ʿ6.ʿE .1ʿ ʿ>.6ʿ?4 66'<; .6ʿ=4", <7ʿ .@; 7.ʿ"5" ; -, 57.8ʿ .7ʿ ,<7ʿE <ʿ?'1ʿ '0'<>,<<.1ʿ <.ʿ; '46.ʿ=4 .55.6ʿ '-' .<7ʿ.<71.?1 6.ʿZ

.6ʿ?1.71.6ʿ ,<7ʿ7,4Q,416ʿ4<ʿ?'17ʿ '66.0ʿ<, / 01.4@ʿ >'<6ʿ5.ʿ?.4?5.8ʿ=4 56ʿ7 .<<.<7ʿ>'<6ʿ J<,1'<; .% ʿ5.ʿ J,4-.1<. / ;<7ʿ< 46.ʿ?1, / ?7. / .<7ʿ> 4<ʿ1. / .>.ʿ .EE ʿ 7ʿ; .8 5.ʿ / 'ʿc6 <- 7.1.1'8ʿ .7ʿ 5ʿ6.1"71, ?ʿ7'1>ʿ> V1. / .ʿ > ;18ʿ .ʿ6,4:' 7.ʿ=4.ʿ / " ; ,<Q.;741.ʿ .ʿ6.ʿ1.'5 6.ʿ?'6f < ' 6ʿ.55.ʿ.67ʿ'??4V..ʿ641ʿ; .; f 5ʿ .@ 67.ʿ.<; ,1.ʿ>.4@ʿE';M 7 ,<6ʿ71.6ʿ> 67 / ;7.6f5.ʿ6'; .1>, ; .ʿ.7ʿ5.6ʿ -,<; 67.68ʿ / ʿ / .Zʿ; : .E.8ʿ / . / .ʿ1.66.<7 / .<78ʿ / . / .ʿ,??,6 7 ,<ʿ> <ʿ 7.1 7Nʿ 5ʿ.<ʿ1 6457.1"Q E' 55 05. / . 7ʿ=4.ʿ5.6ʿ .6?1 6ʿ6ʿ' .<.1,<7ʿ <6.<6 05. / .<7ʿ>4ʿ <ʿ / ' 6,<ʿ> 471 ; : .8ʿ .7ʿ = "5"?1. / .1 , ; ; '6 ,77ʿE'-,1'05.ʿ,<ʿ5.V.1"5"7.7.%

.ʿ.'1> <'5 '1; : .-E =4.ʿ>.ʿ <.6ʿ.67ʿ7,4Q,416ʿ-.ʿ <.1.ʿ>4ʿ?.4?5.8ʿ=4ʿ ,4?E.ʿ'?1.6ʿ6"0.<.> ;7 ,<ʿ> J ʿ 7'5.% #.6ʿQ,416 ; ʿ 6,<ʿ. / <.<; .ʿ?'66' 7ʿ <,<ʿ ʿ? .>8ʿ / ' 6ʿ;<ʿ;'11,66.8ʿ>'<6ʿ4<.14.ʿ>.ʿ; .57.ʿ - 55.8ʿ5, =4.ʿ 7,47ʿ"#,4?ʿ 4<ʿ ,B5; .1ʿ>.ʿ 0466'1>6ʿE' 5ʿ?5.4-, 1ʿ 4<.

G 7E;RE ʿ +$< ʿ'.

J1.5.ʿ>.ʿ; ,4?6ʿ>.ʿ; '<<.ʿ6415.ʿ; , ; : .1ʿ. / <.<7ʿ>4ʿ; '1> 8ʿ <'58ʿ=45.4ʿ .67ʿ?1.6=4.ʿ7, / 0.ʿ.<ʿ>.E' 5 '<; .8 ʿ5"J1'<>.ʿ >,45.41ʿ>.6ʿ> -,76ʿ .7ʿ>.6ʿ> -,7.68ʿ=4ʿ.<ʿ,<7ʿ.7.ʿ--.ʿ / .<7ʿ'5 ; ;7.68 ,EE ; .1' .7.ʿ / 6ʿ '4@ʿ '11.76fʿ / '5J1" ; ,5"5.ʿ; '1> <'5ʿ-.47ʿE' 1.ʿ>.6ʿ?,4164 7;6ʿ; .<71.%

.ʿ; '1> <'5ʿ .67ʿ / '5#,<6. F ʿ G $$ 4 7.6ʿ '66 .J.<7ʿ >,ʿ7,46ʿ .6ʿ; , 5 8ʿ .7;88ʿ.7;%

H # %

7; 6ʿ ʿ?'<76%

@ ʿ ʿ & ʿ ʿ ʿ ʿ ʿ

ʿ *- ʿNW

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8

.ʿ; ,1?6ʿ / 4< ; ?'58ʿ>>5 0>1'<7ʿ>.ʿ<,4-.'4ʿ6415.6ʿ / ,V.<6ʿ> '6641.1ʿ ʿ?546ʿ ?1,< ?7.ʿ.7 5" ?546ʿ?'1E' 7.ʿ .@ [47 ,<ʿ>.6ʿ 71, 6ʿ?1. < .16ʿ'17 ;5.6ʿ>.ʿ5"5,ʿ>4ʿ ʿ>.ʿ ; .ʿ / , 68ʿ; ,<; .1<'<7ʿ5.ʿ1. ; .<6. / .<7ʿJ <.1'5ʿ >.6ʿ :'M 0 7'<76ʿ>.ʿ '1768ʿ .7ʿ; ,<6 >.1'<5ʿ=4.ʿ>'<6ʿ5.6ʿ; 1; ,<6ʿ 7'<; .6ʿ?1.6.?5.6ʿ 5ʿ.67475.ʿ.7ʿ / . / .ʿ <> 6?.<6'05.ʿ>.ʿ ; ,<<'571.ʿ5.ʿ<, / 01.ʿ>.6ʿ?.16,<<.6ʿ<,<ʿ>, / ; 5 ..6ʿ" '1 68ʿ=4 ʿV1.6 >.<7ʿ>.?4 6ʿ=4.5=4>ʿ7. / ?68ʿ,4ʿ=> ʿVʿ ' -.<7Q,41<.55. / .<7f '?1E.ʿ'-, 1ʿ.<7.<>4ʿ5.ʿ ?1. ʿ '< .1ʿ64065 747 '> , 47ʿ>4ʿ?1, ;41.41ʿ>.ʿ5" ; , / / 4E7;ʿ '11>7.ʿ=4.ʿ7,<6ʿ5.6ʿ; 7,V.<6ʿ6.1,<7ʿ7.<46ʿ>.ʿ>.; 1. ʿ '4ʿ; , / 7>ʿ>.ʿ5.41ʿ .;7 ,<ʿ5.6ʿ<, / 6ʿ .7ʿ=4'5'7 6ʿ>.6ʿ ?.16,<<.6ʿ<,<ʿ>, / ; 5 ..6ʿ" '1 68ʿ=4ʿ:'0 7.07ʿ,4ʿ=4ʿ - .<>1,<5ʿ: '0 7.1ʿ>'<6ʿ5.416ʿ / ' 6,<68ʿ .7ʿ=4.ʿ; .6ʿ'.ʿ ; '1'7, ʿ6.1,<7ʿE' 7.6ʿ'4ʿ?546ʿ7'1>ʿ>'<6ʿ 6ʿCU : .41.68ʿ " ; , / ?7.?>.ʿ5">'7.ʿ>4ʿ?1.6.<7ʿ411>7 ʿ ,4ʿ>4ʿQ,41ʿ>.ʿ '11 -..ʿ>.6> 7.6ʿ?.16,<<.6ʿ8.7ʿ..5" <> ?.<>' / / .45ʿ >4ʿ1. ; .<6. / .<7ʿJ.< 1'5ʿ?1. ; . >. / / .<7ʿ,175,7 / ʿ?,41ʿ .6ʿ :'0 7'<76ʿ>.ʿ '1 6fʿ; : '1J.ʿ5.6ʿ ; , / / 66' 1.6ʿ>#ʿ ?,5 ; .ʿ.7ʿ>.ʿ6.;7 ,<ʿ>.ʿ7.< 1ʿ ; .J 671.ʿ>.ʿ; .6ʿ>.;5'1'M 7 ,<68ʿ.7ʿ> .<ʿ>,<<.-ʿ; : '=4.ʿQ,41ʿ; ,<<' 66'<; .ʿ'4ʿ Aʿ ?617. / .<7ʿ>.ʿ5"?,5 ; .f ,1>,<<.ʿ=4.ʿ5.ʿ?1.6.<7ʿ'1;97ʿ 6.1" / ?1 / .ʿ.7ʿ'EE ; : .%

& ʿK 7 8ʿ 5ʿ # *ʿ8ʿ A& !! ʿ

ʿ ʿ ʿ ʿ

.ʿ; ,1?6ʿ / 4< ; ?'5ʿ1'??.55.ʿ=4.ʿ5.ʿ>.1< .1ʿ7.1 / ;ʿ >'<6ʿ5.=4.Qʿ ʿ; 7,V.<6ʿ>, -.<7ʿ6.ʿ?,41-, 1ʿ>.ʿ?'M 7.<7.6ʿ.@? 1.1"5.ʿ ʿ>.; .ʿ / , 6f>.;5'1.ʿ=4 " ; , / ?7.1ʿ >4ʿ7W1ʿ' ,E57ʿ?1, ; : ' <ʿ5.ʿ ?1, ;41. 1ʿ>.ʿ5" ; , / / 4<.ʿ 6.1"6?.; '5. / .<7ʿ; :'1J ʿ>.ʿ?1.<>1.ʿ5.6ʿ / .641.6ʿ; ,<ʿ -.<'05.6ʿ?,41'6641.1ʿ .@ ;47 ,<ʿ>.ʿ5"5,ʿ-6 -6ʿ >.ʿ7,<6ʿ; .4@ʿ=4ʿ ,<7ʿ>E7ʿ6.ʿ?,41-, 1ʿ>,ʿ?'7.<7.68ʿ" 1' 6,<ʿ>.ʿ5.41ʿ. 7ʿ,4ʿ?1,E.66 ,<%

& ʿ @ʿ 5ʿ # @ʿ >& *

L E J %

: ! ʿ ʿ ʿ ʿ ʿ! ʿ

'0, ʿ ʿ ʿ ʿ ʿ ʿ :

ʿ ʿ1 1 ʿ ʿ

<ʿ5 6'<7ʿ1: 65, 1.8Q ''1. / '1=4 ʿ=4.8ʿ5,16=<.ʿ 5ʿ 6'; .ʿE47ʿ; .>. .ʿ"5" H1'<; .8ʿ ,4 6 " ʿ'-' 7ʿ>.Q" ; ,<ʿ =4 6ʿ5" ?546ʿJ1'<>.ʿ?'15 .ʿ>.ʿ#.77.ʿ?1, - <; .%

7-5 6'<7ʿ5.ʿ71' 7.ʿ, 5ʿ; .77.ʿ; .66 ,<ʿ.67ʿE' 7.8Q ''1. ʿ / '1=4.8ʿ?,415.6?1 <, .6ʿ>,ʿ / ? 1.8ʿ>.6ʿ'-' 'Jʿ 0 .<ʿ.6 .<7 .56%

D "5 0.17.ʿ>.6ʿ .7'768ʿ .7ʿ7,47.6ʿ5.6ʿ?1.1,J'7 -_ʿ >.ʿ5" 64?.1 ,1 7V 7.7<7,1 ' .%

CD # .67ʿ =4.ʿ ; .ʿ71' 7.ʿ1.<E;1<5.ʿ5.ʿ J,4-;1<; / .ʿ ?,5 7 =4.ʿ>;ʿ / ? 1.%

D 7ʿ=4,ʿ5"H1'<; .ʿ.67J'1'<7;ʿ>;ʿ7,< ;6ʿ; ,6ʿ;E ,6;

/<6' .55.' ''?1,5E J ' .7 ?1,5E.J.'5.6>1, 76>.6 ?1 <;.6 .7
>.'7,<6'5.6' 7'76'1.6?.;7 E.%

1%E:';'<6' 7=4.'''5'' 1'<..'< .E57?'6.77%5''?546 J1'<>.''77.<7 ,<8 .<'7,775'7. '?68 '' E' 1.'1.6?.;7.1'5.' ;,<7. 4'>.';.' 71' 7>' ?'1';.17'4 .6'.,416>,<7 5'0,1<.' 6 <J45 1. / .<7 ' / 0 7 ,<8 5.6 J1' >.6 '1 / ..6 =4 ,< '' -4.68 .7 =< ,<' - , 7 .<; ,1.' .< 55. / 'J<#2 5''%>6M ?,6 7 ,<'>.6 ?4 66'<;.6>,<7 ,< .<7.<>'?'15.18'41' .<7 E' 7 < ' '<=4'05. / .<7>.'?1,> J .4@';:'<J# / .<76 '' 5'' 5 0.17>'>4';,1?6 J.1 ['< =4.'Q5'=4.55.'1.?,6.'?1.6 ' =4.' '06,54 / .<7641';.'7E' 7.%

''6,17.'=4.7\ ,41'1 457'7' 5' .67 .@';7>.'> 1.'=4.' 5'' H1'<;.' E47 7,4Q,416 5'' ?1,7.;71 ;.' .EE ;'#.'>.'5'' 5 M 0.17V' >.6 ?4 66'<;.6>.' 7,? 1.' .5'>.6 .7'768 .7 =4.' ; .67 >' 6''0 .<-. 55'<;.' ;,<67'<7.' =4 56>, -.<7 5.41' 6'547%

#.77.';,<6.=4.<;.'6.'7 1.'<>;.66' 1. / .<5'>.6 > 6?,M 6 7 ,<6>4'71' 7.'>,<7 5'6 'J 78 '4=4.5'5'' H1'<;.' ''7'<7 ;,<7B04>8 .7 >.' 7,47 ;.'=4 .55.' '' E' 7>.?4 6 ?,41'5.' E' 1.',06.1-.1%

'6 .<64 7>,<`=<.' 5.6>7'76 .7 5.6 ?1 <;.6> 55. ' / 'J4.' ,<7>.' ->1 7'05.6 ,05 J'7 ,<6'' 5'' H1'<;.'8 .7 =4 56'<.'>, -.<7Q' / ' 6 5.6 / .;,<<' 71.''66.0 ?,41'5'' E,1;.1' >' 5.41' 1.7 1.1'4<.'?1,7.;7 ,< =4 ' 5.41' 6.17 6' 0 .< .7 =4 '5.41' '' 6' 0 .<6.1- % 3 4 , $ 5.6 ?1 <;.6>.' H / ? 1.' ?,411' .<7 56 6.' > 66 < 45.1'=4.' 6'<6 5'' H1'<;. =4 ' '' 7,4Q,416 0<?,6>8 >.?4 6 5, J7. / ?6 5.416?.7 7.6 ;,416 6.1' .<7> 66 ?..68.7 = E 56 6.1' .<7 '75>6 .4@ <> / .68 6,46<<.':,<,1'05.'64Q.7 ,<8 J ,66 1' ;.55.'>.' 4? 7.1'Z

#.6 1.E5.@ ,<6 >7' .<7 <>;.66' 1.6 ?,41' / ,<71.1' '' =4.5 ?, <7 5.6 ?4 66'<;.6>.' / ? 1.'6,<7 5.>.-'05.6 .<-.16 5'' H1'<;.8 .7;.67 ;.'=4 5'<.'E'47 ?, <7 ?.1>1.' >.' -4.%

<'> 7 ;.?.<>'<78 .7 ?1.6=4.'>.6 ?1.?'1'7 E.' / 5 ' 7' 1.6 '<<,<;.<78 =4 ,405 '<7 7,47. >>.'>.'1.;,< ' < / 6 '<..' ;,-.16 . / ? 1.'E1'<;' 68 5.6 ?1 <; 6 '55. ' / '<>68 6,46 5.'E'4@'?1>7.@7.'>4 71' 7>' >.' 4<67.18 -.45.<7 1>;5' / .18 5.6 '174.6 '' 5'' / ' <8 ;.<71.'5'' > 6Q ,6 7 ,< >.6 >>;1.768 641'5.6 >1, 76 E.,>'4@8 =4 '' 1.<>46 H 66. / 0 ..' <'7 ,<'5.8 5.6=4.56 6,<7> '4 '<7 / , <6 4<.' <E1';7 ,< '' ;.'71' 7.8 =4 56,<7 ,?.1 '5.' ?546 J1'<>'0 .<E' 7 ?,41'1:4 / '< 7>8Q46=4. 5'',> .4 ' 6. / .<7 '66.1- .8 .7=4 56'<.'] 47'4'E,<>'= 7= / . 5 ' ;41' '11'<J. <. 7>.'?,5 ;.8 '??5 =4>641'7,47 5.'7.1 ' 1 7, 1;'>.'<- / ;.% F

.1 7'05. / .<78 5,1.'>.' 5'' ;.66 ,< =4 E47E' 7.'>.' 56';.'2 5'' H1'<;.8 5.6>1, 76 1 6?.;7 E6>.6 56'; .<6 E41.<5';,<6.1-.6 ' &

' 6 5 E'47'466''> / .771.'=4.'5.6 ?1 <;.6>.' /'' ? 1.'=4 ';,<6.1-.<7>.6 E .E6 . 5 56';.'<.'>, -.<7 71.' .,<6 >.1>68 ?'1'1'??,17 '' ;.6 E .E68 =4.';, / / .'677Q.76 E1'<;' 68 .7=4 '' ;;7>J'1>' 56 6,<7 6,41' 6 '4@'5, 6 .7 ''5'' ?,5 ;.'J.<.1'5.%>4'1,?4 / .%

45 > .<71.' .4@'< ''Q, <'>.' 5'' 64?.1 ,1 7V'7.11 5, ' 1 '5.' >'<6 5'' ?'17 .'>.6 7 .E6 =4 '5.6 ;, ;.1<.<7I '4 ' 71. / .<7 56 .<6.1' .<7 6,4-.1' <6%

< 6,17.' =4.8 < .5'<7 ?, <7 6,4-.1' <6 >'<6 ;.6 7.11 7, 1;68 5 .67 >.'5''<'741.'>#6';:,6.6 =4 56 1.;,< ' <' 66.<7 5'' 64?>1 ,1 7.' >.' 5'' ?4 66'<;.' 6,46 5'=<.55.' ;.6 E .E6 6.'71,4-.<7%

18 -,45, 1' / .;,<<' 71.8 1. .7.1'5.6 5, 6 =4.';.77.' ?4 66'<;.' ''Q4J.' '' ?1,?,6> .7'05 18 1.5'7 -; / .<7 '4@ J1'<>6 ?1,?1 .7' 1.68 >'<6 7,45.' .7.<>4.'>.'6'' 5.J 6M 5'7 ,<8 < .67 ;.'?'6 6.'>.;5'1.1' <>.?.<>'<7Z

' <5;<'<7Q.'>. / '<>.8 .7Q.'>. / '<>.1' '7,4Q,4168 6 ' ;6?,66.>'<76 E .E6 .< 56';.'E41.<7Q' / ' 6 <>>?.< >'<76 >;'5'' H1'<;.Z%%%%%% '6 ?546 =4.' ;.4@'>.6 '477.6 ?1, - <;.6%

%' <'> 7N .6 ?1 <;.6>.' / ? 1.'Q,4 66' .<7>.'5.416 >1, 76 .< 56';.8 6,46 5''E, >.671' 7. 68.<-.17 '> 4 # .,<-; 5 ,< ?405 = .I'> 4<';,5 71'7 >4'>1, 7>.6 J.<68 '4=4.5 5 ,'?,4-' 7 971;'>>1,J>'=4 '-;;'5.;,46;<7. ' ;<7 >.6 ?'15 .6;, 71';7'<7.6%

#%.'< .67 5''=4 4<'?41'6,?: 6 / .% 7 5'' ?.7 7.';,<6 ' >>1'7 ,<'>.' ;.6 < 1.66.6 >71'<J.16 =4 ,< E1, 66' 7 >.-' 7 .55.''11J7.1'4<'?5'<'> .;,4, / .'?,5 7 =4.'4< ' -.16.55. / .<7 47 5.8 .7 '4=4.5'5.'?.4?5.'7.<>' 7>.?4 6 5,<J7. / ?6 5.6 01'6Z' @ J.1' . 4d ;,<6.<7. / .<7 . .E7 H ' 1'.771.'V ''06, 48 ;,<71.'5.'?,4-, 1'5.J 65'' 7 E8 >'<6 >.6 / ' <6 .71'<J.1.6I ; .67 4<.' '0641>5;%

.6 ?,66>>'<76 E .E6 .< 56';.'< ,<7 ?'6>Y'>71.'>4<.' ;,<>7 ,<'> EE.1.<7.'>.';.4@'>.'K1.7'J<.',4'>4' ,7,4%

<'<.'?,4-' 7 ?46 <,< ?5468 6'<6 1.<>1.'5'' 5.J 65'M 7 ,<'> EE ,1 / .8 46.1'> .@;.?7 ,<.<'5.41'E'-.41% 75.416 ; >.-'<7 -'66'4@8 64Q.76>.5'' H1'<;.' .7 <,6;,<; ' 7,V.<68 < '-' .717 56 ?'6 >1, 7 '' 5'' E'-.41'>.6>.;1.76 E.,>'4@Z' 7 <.'6.1' .<7 56 ?'6 Q467. / .<7 <> J< 6 > 4<.'?'17 '5 7.'=4 '5.41' '41' 7> .'6 '>.6'-'<7'J.46 Z

4 641?546 66. / 05..' <'7 ,<'5.' 6> 7 ;,<>4 7.8 .<-.16 ;.6 ?1 <;.68 ''-.;'7,475.' / .<'J. / .<78 7,45.' >=4 7>' ?,66 05.8 ?4 6=4 .55.' 5.41' '' E' 7 ?1,?,6.1' 7,47.6 5.6 <>. / < 7.6 1' 6,<<'05.6%

34.'6 '>.6;, / / 66' 1.61.6?.;7 E6<.'?.4-.<7?, <7 6.';,<; 5 .1' '' ;.7 .J'1>8 ?'1' ' / '4-' 6.' -,5,<7>'>7 =4.5=4.6 # , / / .77'4768 <.<'< .67 ?546 6E518 ?,41'7.1M / <.1' ;.'> E5.1.<>8 =4.'>.' 1. / .771.' 5'' >.; 6 ,<'>.' ;.77.' <>. / < 7V ''4<.'?4 66'<;.' .71'<J.1.'=4 '?1,; ' >.1''>'<6 ;.77.' ,?.1'7 ,< '-.;';.7 .6?1 7> / ?'15 '' 5 7.'=4 ' . 7 5.'?1,?1.'>.6 '10 71.6%

,4Q,416 J.<.1.46.8 7,4Q,416 V=4 7'05.8U 66. / ' 05..'<'7 ,<'5.''>: 1.1'' '' ;.'?'17 8 =4 ' E.1'' ;,<<' 71.' '' 4< -.16 6,< ' / ,41'?,41'5''?' @ .7 5''0,<<.' :'1' / ,< .''-.#7,47 ;.'=4 ' .<- 1,<<.'5.' 1,V'4 / .% '5.6 ?1 <;.6 '55. / '<>6 6 V 1.E46.<58 '5,16 7,<6'5.6 7,176 6.' 1,<7>.'5.41'; 7.%

\ .6 ?1 <;.6>.' / ? 1.8 ?,66.>'47 E.E.' .< 56';.8 Q,4 66' .<7> 4<.' <E < 7V >.'>1, 76 ,??1.6 ' 6 E6 >.'5.416 / '5:.41.4@'-'66'4@ N 66. / 05..'<'7, ' <'5.''>. -1.8 ?'1%6.6>.;1.76%';.6 <E,174<.6>.';.77.' ;:'1J.' '466' ,<>1.46.'=4 ' - 5 66'<7.8 .7 .< E' 7>.6 ; 7,V.<6 E1'<=' 6 N 5.6 ?1 <;.6>.' / ? 1.'?.16 67.<7 >'<6 5.' / ' <7 .<'>.';.6 >1, 76 ,> .4@ N 66. 405;.' <'7 ,<'5.',EE1.'>.'5.6 5.41'1. / ?5';.1'.<'1J.<78 ?'1;.' =4.' ! '5 =4 6.' ;,<>4 7 .< ?1 <;.'>'<6 ;.77.' 'EE' 1.Z

'?1.6;.'=4 ,< '' <8 ?.47 ,< 6.'E J41.1'=4.' 6' 6. / 0 V.' 'E7 ,5.'5.'71' 7.'>.' .67?:'5 .Z%%%%34.'5.6 ?1 <;.6 / '5'>1, 7. / .<7 ?5' J<'<76 ;1' J<.<7 =4.8 ?.<>'<7=4 56 6 ' / 46.<7''1J4 / .<7.1'E'466. / .<7641' 5.' 71' 7.' >.' .67?:'5 .8 E.416 6 V.76> .5 / ? 1#K.' 6 ' / 46.<7>.'5.41' ;>7.''1' 6,<<.1' '-.;'?546>.' E14 7 641' 5'' 5VJ 7 / 7.'>.6>1, 76 =4.' ;.6 ?1 <;.6 .@.1;.'7 641' .4@%

%

'4+.,$ (0/4. 4.$$,+ .(' -(' 0$9) ('% + 2' (*0$. *'' -([illegible]

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' K ' %

8 ' 'F '$

' ' 9' ' # ' ' @ ' C ' 5 %

)C 'N K.'4;,4?'> .@;.55;<76',E!; .16',47
1.E46.'>.'?1'7.1'5.'6.1/.<7'>4' CC'Q4 <8' ?'1' 6<, '
1'<;.', 5' 56'.7' E.<7>.6' /.641.6'?1 6.6'?'1' 66.< 05>.'
<'7 ,<'5.8 ?'1;.'=4 ,?'5.41'E' 6' 7 .7 1 6'J.1';, / / .'
>.6' / .641.6' >.E < 7 -.6' >.6' / .641.6' ?1,- 6, 1.6' <>'
;.66 7. .6'?'1'5.6' ; 1;,<67'<; .6% #.6' : , / <.6'?.1-.168
% =4 ' ,<7' -,454'E' 1.'?1,7.67.1'5.6'> ?'17.1'.<76';,<71.'
5.'>>;1.7>4' 'Q4 55.58' ,<7;14'=4.5.' / . 55. 1' / ,V.<'
>.'-.< 1' ' 0,47 >.'5.416'>.66.<6' ; / <.56' 7, 5'>.'
J'J<.1' '1/>.% 56',<7'>,<.'1 ?'<>4'=4.' 66./05..'
<'7 ,<'5.'-,45' 7';5 '<J.1'5'E,1/.'>4'J,4-.1<./.<78'
=4.' . .7' 7'.<' ;,<6.=4.<;.'>.' ..77.' <7.<7 ,<'=4 .55.'
;:'<J.' 7'5'E,1/45.'>4'6.1/.<7'>.;1..'04 7Q,416''4'
?'1'-'<78' .7'=4 .55.' ' .<-,QE.'>.6' ;, / / 66' 1.6' ?1 6'
>'<6' 6?<' 6. <'?,41'5.'1.;.-, 1% .'>./'<>.'=4 5' 6, 5'
';.,1>.' <'>.5' '>.'=4 < 0.' ,416' ' 7,46 5.6',EE ; .16'
=4 8' 'V'<7' > '0,1>'1.E46.'5.'6.1/.<78' -, >1,<7' '4'
Q,41> <4'5.'?1>7.1% & ' / 41 / 41.% + <'>./'<>.'5'
=4.67 ,<'?1.'5'05.%P
' 'N .'1.- .<6' ' ,0Q.7'>.'5' >.5 0.1'M
7 ,<% <'?1,?,6.'> ';;,1>.1'4<'>. ' '>.'=4 <0.'Q,416'
'4@'6,5>'7 '=4 '-,4>1,<7'>.<,<;.1'5.6',EE'; .16'=4 6'
,<7' E,1;.6'>.'=4 77.1' 5.41' ;,1?6% ' 6'5.6' ?1,..6'=4'
E.1,<7'5' 64 7.' >.';.6' >.<,<; '7 ,<6'>41.1,<7' ?546'>.'
=4 <0.'Q,4168' .7' -,71.' '1/ ..' 6.1' >'<6' 4<'>.6,1>1.'
.@71./ ./ .<7>'<J.1.4@% ' 55.416';.6'>.<,<; '7 ,<68'
<.'?,4-'<7'?,17.1%5.'?546'6,4-.<7'=4.'641'>.6' <7.<M
7 ,<6' .7'>.6' ,?< ,<68' <.'?, 11 <7'?'6'E' 1.'5' <7'7 .1.'
> 4<' Q4J./ .<78' .7' 6.1,<7' ?'1' ;,<6.=4.<7' '< / , '6'
<<7 5.6% $
' 'N ' > 6;466 ,<' =4.' -,46' -.<.0' > .< '
7.<>1.'>, 7' -,46' ;,<-' <;1.'=4.'5.6' '17 ;5.6'=4.'-,46'
' ?1,?,6.6% % / / .1V'6,<7' .<7 .1./ .<7' / '4-' 68' .7'
= '4' 5 .4' >.' 1.7'05 1' 5' ?' @' >'<6' '1/ ..8'] <.'
7. >;<7'=4 ' VQ.7.1'<<'7 6,<'>.'> 6;,1>.% #1,V.0 -, 6'
=4 5' 6, 7'>'<6' 5.6' ?1 <; ?.6'> '47,1 6.18' >.'?1,-,=4.1'
<. <.'5' >.<,<; '7 ,<'>.6' 6,5>'76' ;,<71.'5.6',EE ; .16Z'
,E5 ; .1'1. < .J1.'?'1>'<<.1' 7 5' ' / ' 6' '4@'6,5>'76'
=4' '41,<7'>.<,<;.Z' H'47 5' ;:.1;:.1' ' 6. / .1'5'
> 6;,1>.' .<71.' >.6' :, / / .6' '??.5.6' ' ?'17'J.1' 5.6'
' 1<> / .6' ?.1 56
% 4 ' I' .'?1,?,6.'5.'?1,Q.7' >.'>.;1.7' 64 '
-'1 78N' 8 '
' 1.J'1>'>.6',EE ; .16'=4 ' ,<7' 7.'E,1;.6'>.'=4 77.1'
5.41' ;,1?6' ?'1' >.6' >.67 747 ,<6 55. J'5.68' 561.?1.<'
>1,<7' 5.416' ?5' ;.6' .<'?1>7'<5' 5.'6.1/ .<7'>,<7'5' E,1M
/ 45.' ' .7.>.;1.7..' ;CC'Q4 <I, 486 56' '5 / .<7 / .4@8'
56'6.1,<7'?,41-46'>'<6'> '471.6' ;,1?6%
' 'N .' / ,??,6.' '5' ?1,?,6 7 ,<'>4'?1>, '
Q <'<7% #.67'?'1'5' 5, ' / > / .'=4.'5.6',EE ; .168'=4 ' ,<7'
.5.';,<71' '<76'>.'=4 77.1'5.41';,1?68'>, -.<7'>71.'1.<'
7.J1. 6% .1' 7 5'?,5 7 =4.'>.'1.7'05 1'>'<6'5.416'J1'>.6'
>.6' ,EE ; .16' ;,<71.'5.6=4.56' 5'V' '41' 7.<';,1.'>.6> '
E '<;.6'.7'>.6'?1.-.<7 ,<6Z' .'<.'?.<6.'?'6'=4.'5.6' 6,5M
>'76' 6, .<7' '466' <.?7.68' '466'E' ;7 .4@8' =4.'5.6' ?.1'
64 / .6=Q ' ,47' ?'15;' ;,<71.'5.'?1,Q.7' >4' ;, / 4' &,<'
/ 41<44.P' ,47' -,454' .'E' 1.' ;1, 1;% ,46' ?'15;0'>.6
'1 67, ;1'7.68' .7' / E 'Q.'?'15.'>.6'E';7 .4@N ;.'6,<7'.4@'
; : ,6.6' =4 '6.'7 .<<.<7.- >. / / .<7'?'1'5' / ' <% .'> 6'
=4.' ;.' 6.1' 7' 5.6' 64??,6.1'E';7 .4@8'>.' > 1.' =4.'
5.6'6,5>'76' E.1,<7'.?1,4-.1' ' 5.416' ,EE ; .16'5.6' / / .6'
71' 7. / E <76'=4 '4?'1'-'E778'5,16=4 56' '41,<7'640' '
?1.4-.' > 4<'Q4J./ .<7% ,46' -.<.0' > '-, 1'4<'J1'<>'
.@' /?5.'>4'?,4-, 1'>.'5' 5, '641' ,?<,<% ' 66.0''4@'
6,5>'76'5.6' / ,V.<6> .@?,6.1'5.416'J1 .E6I' / ' 6'5' 66.0'
'466' '4@' ,EE ; .16'5.6' / ,V.<6' >.' 6.' ?41J.1'>.'7,47'
6,4?3,<% .'>./'<>.'>,<.'5' =4.67 ,<' ?1.'5'05.'641'
5.'?1 Q.7'>.'>>; .7'>.'F'#:'01,4>%
' & 'S .'>./'<>.'5' ?'1,5.'?, 1%5' 1.Q.;M
7 ,<'>.6'71, 6''17 ;5.6' ?1,?,6.6' ?'1'5.';, < 7.8' .7' 'G'
>,?7 ,<'>.';.54'>.' % #:'01,4>I' .7Q.' / .'E,<>.'641'
>;6' / ,7 E6'> 1.;7. / ;<7' ,??,6.6' ' ; 4@' =4.' 8' #:'M
01,4>'54 / 9 / .'-,46' ' ?1.6.<7 6% .'<.';1, 6' ?'6'=4.'
>.6'1.<-, 6' 55 J'4@8' =4.'>.6' .@?456 ,<6'E' 7.6' ?'1'5'
E,1;.' .7'5' - ,5.<;.'>'<6 5.6' ; ,1?6' >,<7'5' > 6; ?5 <.'
>, 7E 71.'5.'?1 <; ?.' .7' .: .<78' ?< 66.<7 E 71.' '4@'
V7.4@'>.'5' 5, '>.6' / ,7 E6'64B 6'<76'E .'646? ; ,<% .'<.'
;1, 6' ?'6'=4 5' E' 55.'71'>4 1.' >.6' ,EE ; .16' .<' ;'46.8'
?'1;.' =4.' =.4@' =4' '-' .<7' 641%.4@' '-'<7'J.' >G'
<, / 01.'5.6' ,<7' .@?456.6% <'-,46' ' >Q7'=4.'5. '6,5>'76'
.7' .<7'5.6' ' / 6' >.' 5' #,K 7E7<7 ,<8' =4.'5.6' ,EE ; .16'
.7' .<7'>.6' '1 67, ;1'7.6% .'<.'64 6' ?'6'>.';.4@'=4 '1. '
;,<<' 6 .<7'?,41' ' / 6' '5' #,<67 747 ,<'>.6' 6,5>'76'
=4 8' '?1E.6'-, 1'Q41.'5' ?546'. ';7.'> 6; ?5 <.8' 1.< '
-, .<7'?'1'5'E,1;.';.4@';,<71.'5.6=4.56' 56' '-' .<7' 5.'
>1, 7'>.'?5' <7.'.7'>.'1.;,416'E,J 7 / .6%
'.67'7. / ?6'>.'> 1.'=4 <<.'6,47 .<7'?'6'5' #,<67 M
747 ,<' ?'1' >.6' E' 05.66.6' .<-.16';.4@'=4 '6 .<'> 6.<7'
5.6' ' / 6% 7' .67'7. / ?6'>.'> 1.8' ?'1;.'=4.' .5' .67' -1' 8'
=4.'5.6' ,EE ; .16' = / ' ,<7' 7.' .@?456E,'>.'5.41' ;,1?6' <.'
,<7'?'6'7,4Q,416' .7>' ?'1' >.6' / ,7 E6'>.'?'71 ,7 6 / .I'
=4.'>'<6'5.6' ;,1?6' ,E7 ;.6' - ,5.<;.6' ,<7.4'5 .4'5.6' ,E'
: .16' < 7' .<7' ?'6' ?546' .<7';:.6'> '1 67, ;1'7 .'=4.'
>'<6'5.6' '471.68' .7'=4.8' >'<6'5.6'1.J / .<76'>,<7'5.6'6,5M
>'76' ,<7' ->1'7'05. / . 7' '77';:.6' E7 5' #,<67 747 ,<8'
;.6' .@.E76'< ,<7'?'6' .4'5 .48'=4.'?'1';,<6.=4.<7 56' <.'
6,<7'?'6' -.1'7'05.< .<7'5 .6'?'1'5.416';'46.6'E7'5' 1.-,M
547 ,<% ' 68' > 6,<6' 5.' / ,78' 5.6' ,EE ; .16' ,<7' .7. .@'
?<56.6' ?'1;.' =4.' 5.6' 6,46 ,EE ; .16' -E745' .<7' '-, 1'
5.416' ?5';.6% .6' 6,5>'76' -.1'7'05. / .<7'?'71 ,7.6'1.6 '
?.;7.<7'5.41'>.-, 1I' / ' 6'5.'?'71 ,7 6 / .' ' 6,4-.<76.1- '
>.'?1.7.@7.' E7 1' E70 7 ,< 8' ;'1';.' < .6E'?'6';=<71.'5.6'
,E ; .16'5.6' / , <6' '77';:.6'E7'5' 1.-,547 ,<'=4 5' 6 .67'
. .-.'5.'?546'>.'?5' < .6% #.4@ 5E7'=4 '.7' .<7''77';:.6'
E7 5.41'>.-, 1'6.'6,<7'?5E7 <76'>.' <64:,7 > <'7 ,<'=4'
.7' 7'E, / .<7..'>'<6' '1/ ..8'#.4' '<';,<71' 1.'= ' '?'
?,17' .<7'>'<6'5.416'E,<;7 ,<6' / .' <> EE.1.<;.' ;,<'
?'05.8'?'1;.'=4 56'< .7' .<7'?'6''77';:.6'E7'5.41'?'71 .8'
,47' .@;7.G'5.' / , <6'>.'?5' <7.68' ?'1;.'=4 56'<.'E' '
6' .<7 1 .<8' '06,54 / .<7 1 .<% / 6' 5' ?54?'17'>.6'
,EE ; .16'=4 ' ,<7' .7;' .@?456.6' ,<7' .4'5.'6.45'7,17'>.'
<'-, 1'?'6'>.6.6?.1.'>.'5' ; :,6.'?405 =4.8' >'-, 1'
;14'=4.' ;.54'=4 ' ' Q41.'>.'E' 1.' .@.;37.1'5' 5, ' '
. / ?5,V.1'7,47 6,<'?,4-, 1' ' 5' E' 1.'1.6?.;7.1I'7'<> 6'
E74' ;,<71' 1.'=4.';.4@'=4 ',47' '0'<>,<<.'5.41'>.-, 18'
?'1;.'=4 56' '-' .<7 .<' : ' <.'5' #,<67 747 ,<8'?'1;.'
=4.8' ?,41'5' .<-.16.18' 56' >.6 1' .<7' ?.45 571.' '4'
E,<>'>4' .?.41'>.'E, / .<7.1' <6411..7 ,<'E'Q' '<<..P'
,<7' .7.' / ' <7.<46'>'<6'5. 16' ?5';.6% , 5'8' 6'?'1/'
7'<7'>.'E' 76' ,<'?.<7' .7'05 1'4<' 67. / .'J.<.1'58' 5.'
?546'?1,0'05.% '5, '>, 7' -,45, 1'=4 4<.' .@?45',<'
5 .J'5.'6, 7'<455.' .7'< ' 7 '4;4<' .EE.7'=4. # <=4.8' .7
6,<'?1. / .1';7.'>, 7'E771.'>.'1.7'05 1'5.6' ;.E68' 55.J' '
5. / .<7' .7' '10 71' 1. / .<7'>.67 74.68' >'<6' 5.41' '<; .<'
.7'7% .'>./'<>.'>,<.'=4.'5' ?1,?,6 7 ,<'>.' % #:'M
01,4>' , 7'>,?7..8' .7'=4.'5.6' 71, 6''17 ;5.6'>4';, / 7.'
/ 5 7' 1.6, .<7'1.Q.7.6;, / / .'7.<>'<76' ? 7. J.15 < ' '
6411.;7 , '>.6' 6,5>'76% & <'??5'4> 7% P'
% - 2 2 & ' ' 1.E5.@ ,<'1' 7.' ?'1'5.'?1.,? :'<78'
=4.'5.6' >.67 747 ,<6' 55.J'5.6<.' >, -.<7'-, 1' ' ; <'
.EE.7' '4@' V;7 @' >.'5' 5, 8% / .'?'1' 7' 71E76Q467.% .'?,

C

?,6.' .<' ;,<6.& 4;<..'>;'6406 461' '4@' 1, 6' '17 ;5.6' =4.'Q '' ?1.6.<7.6'S.'64 1' 7N

G17% % '1 J'1>5>.6',EE . .16' = ' ,<7' 7.' E,1; ``>;' =4 77.1'5.41'; ,1?6'.<' .,<6>=<.<;.'>.'6,4?J,<6'>5#-.6' ;,7 71.'.4@8 1'' 6'<,<'VJ'5. / .<7' -.1 7 .68' 56'1.?1.<' >1,<7'5.416'?5'; .68 ,<86 56' ' / .<7'1' .4@8' 56'6.1,<Q7' ?,41-46' >.' ?5'; .6' >=4 -'5.<7.6' >'<6' > '<51.6';,1?6G8' ?,41-4'=4.' ; .6' ,EE . .16' < ' .<7'? '1.E46>'5.'6.1 / .<7' ?1.6;1 7' ?'1' 5.'>>.1.7><' CCQ4 <'>.1< .1I' .78' >'K6' ;' ;'6' , 5' 56' < '41' .<7' ?'6' > .' '' ?,17>.'>.'5.'?1>7.1' 'G 5.41'1>J / .<78' =4 56'5.'E'66.<7' ?'1-.< 18' 6,46' =4 <' 0' <.8' '4' / < 671.' >.' 5'' J4.11.' .7' '' 5'' / 4< ; ?'5 7.' >4'5 .4'>.'5.41'>, / ; 5.%

#.'>.1< .1'?1,Q.7'>.' % / / .1V' .67'>..1>7>%

' *'N B' E''>.4@'5, 6=4''??.55.<75.66,46 8' ,EE . .16' '4@' ?5'; .6' > ,EE ; .16I' 5'' ?1. / .1.8' >4' C ' 6.?7. / 01.' (* 8=4 ' 5.61.<>' 646; .?7 05.6> '-'<; . ' / .<7' '4' 0,47' > 4<' ; .17' <' 7. / ?6' >.'6.1- ; .I' 5'' 6.' #,<>.8' >4' CU'Q4 '>.1< .18' =4 '1.6.1-.'?1, - 6, 1. / .<7' 5'' <, 7 >'>.6' . / ?5, 6' -';'<76' '4@' 6,46G,EE ; .16' >.6' ; ,1?68' ,46?1,?,6.1,<6=4.; .75.>.1< .1.> 6?,6 7 ,<8' =4 ' < .67' =4.' >.'E' -.418' < ' 7' ?'6'5 .4' >'<6'5.6' 1.J M / .<76' =4 '6.'6,<7' ?.1 / 6' >.6' >.67 747 ,<6' 55>J'5.68' ;7' =4.'>'<6'5.6' / > / .6' 17, / .<76' ; .55.'>4' C '6.?7. / 01.' 6, 7' 646?.<>4.% <' .E5.78' <,46'6, / / .6' ; ,<-' <';46' =4.' 5'' ?54?'17' >.' ; .6' >.67 747 ,<6' 55>J'5.6' < ,<7' .7>' .@; 7>.6' =4.' ?'1' ' / 0 5 ,<' >.6' 6,46 ,E7 ; .168' ' / 0 7 ,<' =4 ' '' ; ,<E?<>4' >'<6' 6,<' ,OQE.7' 5.6' 0,<6' .7' 5.6' / '4-' 6'8' 5.6' %?'71 ,7.G' .7' 5.6' .<<. / 6' >.' 5'' 1.-,547 ,<8' ,46' '-,46' -4' 4<.'5. 771.'> 4<' ; '? 7' <.' =4 ' >;1 - ' 7' '4' / < 671.' >.'5'' J4.11.' =4 5' 6.' -,V' 7' ,05 J.'>.'>,<<.1'6''>. / 66 ,<8' ?'1; .'=4.'5.6',EE . .16' >.'6,<' ; ,1?6' >7'<7' '1 67, ;1'7.6' 5' <.'?,4-'57'1.6 67.1' '7' >>6'J1. / .<7' ; ,<7 <4.5' =4 5' >?1,4-' 7% .<' '?1E.6' 5.6' 6,5>'76' E=1 / .1.<7' 4<8' ; , / 7>' > 1 J>' ?'1' K66,46' ,EE ; .16I' ; . ' ; '?7' / .'547 .'?1. / .1'>.6 J<.' ?'1'; .' ;540'?,41' I71.' .@?456 %% <'>.6 J<'' '?1.6'54 '6,<'5. ' 7.<'<7' .7' 6,<' 6,46 5 .47.<'<78' .7' ; .5'' ?'1; .' =4.' 5.' 6#1J.<7 / 'Q,1'>.5''; , / ?'J< .8' =4 ?1>6 >' 7'5.';5408' -,45' 7' >.-.< 1'; '?7' <.% Q.64 6' E1, 66>8' > 7'5,16..7' ,EE ; .18' .<71.'5''>. / '<>.'=4.'E,<7'5.6' ?'71 ,7.6' ?,41' =4 .Q. / .<' Q 55.8' .5' 5.6' >.6'J1> / .<76' =4.' / .' E,<7' .?1,B-.1'5.6' '1 67,#1'7.6I' / ' 6'Q.'64 6' 0,<' ,EE ; .1'.78' >'<6'4< / , / .<7>.51,40 .68'Q.'-. @'1.67.1''1<,<'?,67.%

?1.6' =4.5=4.' > 6;466 ,<8' '17 ;5.' ?1,?,6.' ?'1' % / / .1V' .67' >. ;1.7>' .<' ; .6' 7.1 / .6N

W' ''> 6?,6 7 ,<' >.' '17 ;5.' '>4' >. .1.7' >4' CU'Q4 <' >.1< .18' ?'1'5'=4.55.'5'' / , 7 >' >.6' . / ?5, 6' -';'<76' >'<6'5.6' > E5;1.<76' ; ,1?]' '' >7>' 1>6.1->.' '4@'6,46 ,E5 ' ; .16' >.6' ; ,1?6' >'<6'5.6=4.56' 56' -'=4.1' .<78' < '41'' ?'6'5 .4' '' .J,1>'>.6' 1>J / .<76=4 '6.6,<7' ?.1 / 6' >.6' >.67 747 ,<6I' .7' >'<6' ; .6' / > / .6' 1>J / .<76' 5'' <, / M <'7 ,<' '4@' ?5'; .6' > ,EE ; .168' 6?.; '5. / .<7' 'EE..7>.' '4@'6,46 ,EE ; .16' ?'1'5''5, ' >4' C ' 6.?7. / 01.' (* '' >. / .41.1''646?.<>4.'Q46=4 '' ; .' =4 5' .<' ' 7' >7>' '4 ' 71. / .<7' ,1>,<<>8'%> '?1.6'5.'; , / ?7.'=4 '?,471'' >71.' 1.<>4'?'1' 5.6' ,EE . .16' J><>1' @' .7' 4?>1 .416' >.'5'' 0,<<.'; ,<>4 7.'>.'; .6' / . / .6' ; ,1?6%Y

+' % '5'<. #:' / ?'4@' ?1>6.<7.' 8' '4' <, /' >4' ; , / 7.'>.6' ?.<6 ,<68' 4<' ?1,Q.7'>.'>>.1.7' >,<7'5.'?1.M / .1' '17 ;5.' .67' >>;1>7>' .<' ; .6' 7,1 / . I

W' 66.1,05>.' <'7 ,<'5.8' '?1>6' '-, 1' .<7.<>4' 5.' 1'??,17' >.'6.6' ; , / 7>6' >.6' E <'<; .68' >.6' ?.<6 ,<68' >.6' >, / ' <;68' >.6' / ?,6 7 ,<68' > 'J1 ; 457 4 .' .7' >.'; , / M / .1; .'8' 1.4< 68' >>;1>7.'; .'=4 '64 7N A

" ;7% ,46' . / ?5,V.6' ; , / / 66 ,<<>6' >'<6'5.6' E.1 / .6' .7' 1.J .6' J><.1'5.68' ''5''; ' 66.'>.6'1.; .77.6' J>' <>1'5.6' >.6' E <'<; .68' ''5''1.; .77.'J><>1'5.'>4'; 5.1J .I' >'<6' ;6' >.-, 16' >.' K1.7'J<.8' < = 5 -'5.<7' >;' '<M J4.>, ;'8' 5.6' = '51. / . / 01.60.5J =4.68' 5.6' ?,67.68' 5'' ?,5 ; .'>.' '1 6I' >'<6'5.6' 041.'4@' >.'1>. ,<,< '78' 5.6' '> / < 671'7 ,<6' >.6' 'V6 K'68' '' 5'' ?.1; .?7 ,<' >.6' ,;71, 6' .7' '471.6' >1, 76' =4 '6.'5.-' .<7' ?1 <; ?' . / .<7' 74' ?1,E 7' >.' 5'E8' 5.6' > 1.;7.416' ' ; ,<71 5.416' .5' ->

1 5 ; '7.416' >;6- <J7 .4 ;68' 5.6' 6. [>7' 1.6' .7' ; , / / ' '77' ; . .6' '4@' <7.<>' ; .68' ,4' =4 ' .7' .<7' ?'66.6' >.6' > 7.6' <7.<>' ; .6' '4@' ,> / < 67 7 ,<6' ?1, - <; '5.6' 7,46' 5.6 / .56' 6.' E1,4-.<7' ?1.;>>.1< / .<7' 64??1 / >' ?'1' 5.6' >.;1.76' 1.<>468' '41,<7' > , 7' '4@' ?.<6 ,<6' 6., ,416' .7' J1'7 E ; '7 ,<6' =4 ' 6.1,<7% >>7.1 / <.6' ;' '?1>68' 64 -'<7' 5'' >7 1>.' ; 7' .7'7' >.'5.416' 6.1- ; .68' ' 5, ' < '7 1'' ?'6' > .EE.7?,41' J.4@' =4 8' >.? 6; =' '<6' '41,<7'Q,41'> 4<' >7' 7' =4 '5.41'?1,> 6' 7' U8 ' 5 -8' .' 71' 7. / .<7' ,4'> / ,54 / .<7%Y

'' > 6;466 ,<' >.6' '17 ;5.6' 64 -'<76' .65' 1.<-,V>.'' >. <' <% + ' ''6.'<; .' .67'5.-.' ' '71, 6' : .41.6%

5757; .' 7 / ?7' C ' 5 5 K78

41' 5.'1'??,17' >.' % '4; :V8' 6 . / 05>.'>>.1.7' =4 5' 6.1'' 1.< 6' 4<.' 6, / / .'>.' C8 ' 5 -% .<71.'5.I / ' <6' >4' / < 671.' >.%6' ; ,<71 047 ,<68' ?,41' ;' 1. ' 0,416. / .<7' >.6' >>?.<6.6' >.6' ; ' : .16' >.6' 1>5.6' >;' V <J7 > / .6' 8d.7' >.6' E1' 6' >.'041. '4' >.6' > 1.;7.4168

+ ' % .; ,47.45@' E' 7' 5.;741.'> 4<.'>>?>; : .'?' ' 5W' =4 .55.'5.'>>?'15. / .<7' >.'5'' . <. 5<E. 1 .41.' <6714' 1 66. / 05>.' >4' 64; ; .6' >.6' / .641.6' ?1 6.6' ?,41' 5''1>' ?1.66 ,<' >.' 5<6411.;7 ,<' >.6' ?'1, 6.6' >4' ?'V6' >' #'4%L8' .7' ?,41' .@.; 47 ,<' >.6' >.;1.76' >.; .1<.6?'' 5.6' 71 04<,4@8' .6' '> / < 671<7.416' '771 04.<7' ; .77' 1>-,57.' '' 67 J'7 ,<' >.6' ?1.71.6' 1.E1' ; 7' 1.68' >,<' 4<' .67' ?1.-.<4' > '-, 1' > 671 04>'>.6' ; '17,4; : .6' ' [' : '0 7'<76' >.6' ; ' / ?'J<.6% 56' E,<75.'?546' J1'<>'>5,J' ;5.'5''01'-,41.' =4 ,<7' / ,<71..'5.6' J'1>.6' <'7 ,'' [' .7' 5.6' 71,4?.6' >.'5 J<.'>'<6' ; .77.' .@?.> 7 ,<8' .7' >;' 5' ; ,<>4 7.'>.6 / 6>.'5'' #,<67 747 ,<86. '<7.' '' .??.' >,<7' ?546 .416' / . / 01.6' 6.'6,<7' ?,17. 6' >'<6'5.E; ', ' ?'J<.6' ?,41' V ?1>.0.1'5.'1.6?.; 7' >.6' 5, 6%

6. / 0 .' ; : '1J.'6,<' ?1. 6 >.<7> . ;1 1.4 ;5.77<' >.'6'7 6E'; 7 ,<8' 7'<7' '4@' ; , ?6' '> / Q< 671'7 E6' =4 '4I ; ,1?6' / 5 7' 1.6' =4 ' ,<7' ; , ; ,4-4' '<' 1>7'05 66.< .<' >.' ,1>1.'?405 ;' >'<6' ; .'>. ?'17. / .<78

+ ' % '5'<. #: ' / ?'4@' 6,4< .7' '' 5'' >.5 0>1'7 , 5'' 64 7.'>.'6,<' ?1,Q.7' >.'>>.1.7' ;0<; .1 '<7' 5.6' 6. ; ,4' '' ' ; ; ,1>.1' '4@' . / ?5,V. 6' >.6' E.1 / .6' .7' 1>J .6' 64??1' / >.6% #.' ?1,Q.7' .<' .<7 .18' >,<7' <,46' '- 6' 1'??,17' 5.'?1. / .1' '17 ;5.'>'<6' '6>'<; .'> : .18' .67' >>;1;7..' ; .6' 7.1 / .6N

d' 66. / 05>.' <'7 ,<'5.8' '?1 6' '-, 18' .<7.<>4' ' 1'??,17' >.'6.6' ; , / 7.6' >.6' E <'<; .68' >.6' ?.<6 ,<68' >.' >, / ' <;68' >.6' / ?,6 7 ,<68' > 'J1 ; 5741.' .7' >.'; , /' / .1; .8' 1.4< 68' >; ;1.5.' ; .'=4 '64 7N

Y 17% 5.1% ,46' . / ?5,V ' ; , / / 66 ,<<.6' >'<6' ' E.1 / .6' .7' 1.J .6' J><>1'5.68'5''; ' 66.' ;5.6'1. ; .77;6J><' 1'5.6' >.6' E <'<; .68' ''5''1. ; .77.'J><.1'5.'>4' ;5.1J .I' >'' 5.6' >.-, 16' >. K1.7'J<.8' .=4 -'5.<7>.' '<J4.>, ;8' 5' =<'71.' / . / 01.6' 0.5J =4.68' 5.6' ?,67.68' 5'' ?,5 ; .' ; '1 6I' >'<6'5.6' 041.'4@' 5. >; ,<, / '78' 5.6' '> / <S 71'7 ,<6' >.6' ?'V6' > .7'76I' ''5''?.1; .?7 ,<' >.6' ,;71, 6' '471.6' >1, 76' =4 '6.'5.-' .<7' 1 <; ?'5. / ;<7' '4' ?1,S >.5 7'7I'5.6' > 1.;7.4168' ; ,<71,5.<16.7' -.1 E ; '7.416>' - <J7 .< .68.7; , / / 6'77' ; :>6'4@ 47. >'<; .]844=' >5' .<5?'66` >;6> 7.6' <7.<>' ; .6' '4@' '> / < 671'7 , ' ?1, - <; '5.68'7,46'5.6=4.56' 6.71, 4 - .<7' ?1>; >>.< <.1' 64??1 / >6' ?'1' 5.6' >.;1.76' 1.<>468' '41,<7' >1, 7' '4 ?.<6 ,<68' 6. ; ,416.7' J1'7 E 4'7 ,<6= 5 6.1,<7' >>7.1 / 5a' ; '?1 68' 64 -'<7' 5''>41..' .7' .7'7' >.' 5.416' 6.1- ; .

" ''5, %< '41'' ?'6> . E.7?,4 ; .4@=4 8>.?] ; <' '<68' '41,<7'Q,4 ' > 4<' >7'7=4 ' 5.41' ?1,>4 6' 7' U8 ' .<' 71' 7. / <7' ,4' . / ,54 / .<7%

$' % ;6> 76'. / ?5,V>66.1,<7' > - 6>6.<71, 6;5'66.' 5'' ?1. / .1.' ; , ?1.<>1'' ; .4@' =4 % ,<7' - 1 J7' '<6>' 6.1- ; .' 1>-,546' .7' '4 > .6646I' 5'' 6. ; ,<>.8' ; .4@' =' ,<7' >.'> @' '<6' >.'6.1- ; .'1. - ,546'Q46=4 ' - <J7I' .7' ' 71, , 6 / .8' ; .4@' =4 ' ,<7' / , <6' >;'> @' '<6' >.'6.1- ; . .6' . / ?5,V.6' < '41, <5' >1, 7' '4@' ?.<6 ,<6' 6. ; ,416' .7' J1'7 E ; '7 ,<6' / .<7 ,<<>6' .<' '17 ;5.' ' >4' ?1.06.<7' > ; 1.78=4.' >'<6' 5. ; '6' ?: . / ?5, 64?' ?1 <>' E,1 / ' 7' .5'7' 4< =4.'>.' ; .54' =4 ' 1, ; .<?'7

6' 1.6 '4> 7.'16'>.6' J4.11.6'6.1,<7'7.<W6'>.'?,41645 '
-1.' 5W6'>.5 <=4'<76'5,16=4 56'5.41'6.1,<7'?'17 ;'5 '
1. / .<7>.<,<;E.,4 <> =4.6?'15'<,7,1 7.'?405E=4.8'
.7'5. / .41.1,<7'?.16,<<.55. / .<7'1.6?,<6'05.6'>.'5.41'
.J7 J;<;.' '' ;.7' J'1>%
G "8' 4' Q,41'>.' 5''?405 ;'7 ,<'>4'?1.6.<7' > ; .78
.6'6,4 ,E5 ; .16'6.1,<7'?.16,<<.55' / .<7'1.6?,<6'05.6'
>,6' / ,4-. / .<76' ;, / 0 <.6'=4Y' 6.'E.1,<7'>'<6'5.6'1.M
J / .<76' ;,<51.'5''?.16,<<.'>.6',EE ; .168'5,16=4.'5.6'
;,4?'05.6''??'1.<76>.'6. / 05'05.6> 6,1>1.6<.6.1,<7'
?Y6' > '0,1>'>.6 J<.6' ,<' ;,?< % '<6' ;.' ;'68' 5.6'
;,4<< 66'Q1.6 '4> 7;416' >.6' a4#11.6' 6,<7' 7.<46' >.'
?,4164 -1.' .7'E' 1.Q4J.18'?'1 .6., 16 / '17 '5.68'5.6'
' 76' 6,46 ,E5 . .168' =4' W.' ?,411?<7' .<;,41 1' >.'
/ , <>1.'?. <.'=4.' ;. 5.'> .71.' ;'66 ' .7'>.;5'1.6' <'
> J<.6'>.'?,17.1'5.6''1 / .6'?,41'5.'6.1- ;.'>.'5''?'71 .8'
'' / , 46=4 56' 7 .'?1,4-.<7' =4 56' < ,<7'?, <7' .4>.'
?'17' '4@' / ,4-. / .<768' =4 56' ,47'?1 6'7,47.6'5.6'?1.M
;'47 ,<6' =4'>.?.4>' .<7' > ;4@' ?,41'5.6' '11 7.18' .7'
=4 56' .<' ,<7''-;17' 5.6' ;:.E6'>E.6'=4 56' .<' ,<7' .4' ;,<'
<' 66'<;.%'
Y " % <';'6'>.' / ,4-. / .<76' ;, / 0 4>6'>'<6'5.6'1>'
J < .<76' ;.<71.' ,1>1.' .7' 5'' > 6; ?5 <.' 4 5 7' 1.' .<'
J.<.1'58'5.6',EE ; .168' 6,46 ?EE ; .16' ;7'6,5>'76' .:'6.M
1,<7' J1'>4.55. / .1 7'1.6?,<6'05.6 ' 64 -'<7' ,1>1.'>.'
5.41'J1'>.' ,4'>.'5.41' '<; .<<.7>8' 5,16=4.'5.6' ;,4M
?'05.6' '??'1.<76' >.' 6. / 05'05.6' >>6,1>1.6'<.'6.1,<7'
?'6' > '0,1>' >>6 J<>6' ,4' #,<<46G ?' 6' ;.' ;'68'5.6'
;, / / 66' 1.6 '4> 7.416'6.1,< .<4 '>.'1.<>1.'?5' <7.'
;,<71.' 5.6' 6.1J.<76 / 'Q,16' ,4' / '1>;:'4@' >.6'5,J 6'
;<' ;:.E8'?1. / .16'6.1J.<76' ,4' / '1>;:'4@'>.6'5,J 68'
?1. / .16' ;'?,1>4@' ,4' 01 J'> .168''??, <7>6' .7' ?546'
' ; .<6'6,5>'768' ;'-'5 .168' >1'J,<68' 0466'1>68' ;:'6M
6.416' ,4' ;'<,<< .168' ?'1'1'??,17' '4@=4.56' 5' .<' 6.1''
[>' ' <6' =4 5' .67' > 7' .4' '17 ,5;' ?1> [>.<7% .1,<7
W6 1; 55. / .<7' ?,41677 - 6' J1'>'5 -. / .7 7' 5. ' ,EE ; .16'
=4 8' 'V'<7' 1.J4'5. ' ;, / ?7.6'>.6' 6,46 ,EE ; .168'< .<'
'41,<5'?'6'E' 7' 46 J.'?1.6;1 7'?'1'5''5, % %
$' " % .1,<7' ;,<6 >.1>6' #7'?4< 6' ;, / / .' / ,4-. '
<;<76' ;, / 0 <.6' ;,<51.' ,1>1.' .7'5'' > 6; ?5 <.' .<'J>'
<>1'58'7, 7.'1.4< ,<' 6, 5' >.' / : 7'Q1.6' >.' > EE>1.<76'
J1% >.68' 6, 7' > ,E7 ; .168' 64 7' >.' ,46 ,EE ; .16' ,4' >.'
6,5>'76% ?,41' >>5 0>1.1' .<71.' # @>'<65' > '471.6' ; 1'
;,1 67'<;;6'=4.;.55.6?.1 / 6.6,4'J1. ;1 7.6?'1'5''5, 8'
''?546'E,17.'1' 6,<' 7, 7.' >>5 0>1'7 / 4'E,1 / >.' .7 7,47.'
. / 66 ,<' >.'-..4' ;,55.;7 :
Y " % 66'5,<J7. / ?6'=4.'6406 67.1'' '<7,1 7>'?1, '
8 - 6, 1.8';;,1>>.' '4@'J> .1'4@'> '1 / >.'?'1'5.'>.;1.7'
>4' CU' Q4 <'>.1< .18'>.' 646?.<>1.' 5.6' ,EE ; .16' >,<7'
5'' ;,<>4 7,'5.41'?'1' 71''646?.;7.8'5.6' ;, / / '<>'<76'
.<' ;:.E'>.6'> - 6 ,<6'Q,4 1,47'>:' / > / .'>1, 78' ;0';4<'
>'<6' 6'' > - 6 ,<8' .7' 5.6' ;,<6. 56' >.' > 6; ?5 <.' >.'
;:'=4.'1.J / .<7' '41,47' '466'?1,- 6, 1. / .<7'5.'?,4 '
-, 1'> ,1>,<<.18' '' 5''?541'5 7>'>.6' ; <='6.?7 . / .6'>.6'
-> @8' 5.' 1.<-,' '-.;' 4<.' ;'17,4;:.' ?4-..7' 6 / ?5.'
>.6' 6,46 ,EE5. .16' .7'6,5>'76'>,<7'5'' ;,<>4 5.'6.1''1>'
? / .<6 05.I' <>'< / , <6' 5.' ;,<6. 5' >.' > 6; ?5 <.' <.'
?,411''Q' / ' 6'46.1 >.';.'?,4-, 1'=4.641'4<.>. / '<>.
X @?1.66.' .7'?'1' .;1 7% =<' >.-1'' >71.'6 J<>.8'6 5' .67'
<4;65 ,<'> 4<'6,46 ,E5 ; .18'?'1'<.4E'>.'6.Z' ;'<''1'>.6'
&54' / > / .'J1'>.8' .7'?'1'4<',EE ; .1'>.'6'' ;, / ?'J<7.I'
.7' 6 5' .67' =4.67 ,<'> 4<'6,5>'78' ?'1'7,?6'5.6' ,E5 ; .16'
>.'6'' ;, / ?'J< .8' ,4' ?'1'4<'6,5>'7' ,4' / '1>;:'5'>.6'
5,J %68' ,<' ;'?,1'5' ,4'01 J'> .18' .7'?'1'<.4E'6,5>'76'>.'
6'' ;, / ?'J< .% h
66., 05>.'1.<-, ;' '4' ;, / 7>'>.' ;,<67 747 ,<' 4<.'
5.771.' ?'1' 5'=4.55. % 5.' / ' 1.'>.' '1 6' '<<,?;.'=4.'
5'' / 457 ?5 ; 7>' >.6>71'<J.16'7.<'<7' ;:' / 01>.'>'<6'5.6'
:,7.56' >.6' . / J1.6' 54 ' ?'1'57' <>..66 .1' >7'05 66.'
/ .<7' > 4<.' ' / .<>.' '' ?1,<,<;.1' ;,<71.' 5.6' ?1,?1 > '
7' 1.6' =4 ' <.'E.1,<7'?, <7' 5.6'>.;5'1'7 ,<6' ?1.6;1 7.6'
?'1'5''5, ' 641'5''?,5 ;.' / 4< ; ?'5.%
+' % ,' 55.6' ?1.6.<7.8' '4' <, / ' >W' ;, / 7>' / 5 '
' -.8' 4<' ?1,Q.7'>.'>.;1.7' ;,<;.1<'<7' 5.6' ,?7' @
/ 5 7' 1.6% 66.1'05>.'5.'1.<-, .' '' .@' / .<'>4' ;' '
/ 7>'>.'6'<7>%
1 % 4?,<78' >>?47>'>.' . / ,4168' 6,4 <.7' '' 5''
> 6;466 ,<'5''64 7.'>.6' '17 ;5.6'>4' ?1,Q.7'>.' ;,>.'141'5%
,46'>,<<.1,<6'>. / ' <' 5.6' '17 ;5.6'>. ;1>7>6%
+' 415.1'??,17'>.' % 4?,<78' >>?47>'>.'K'1.J.68'
5.'>.;1.7'64 -'<7' .67'1.<>4 N
' 66.1'05>.' <'7 ,<'5.8' -,<5'<7' '6641.1' .@>, '
7 ,<'?5. <.' .7'.<7 .1.'>.'6,<'>>;1.7'>4' C' / '168'?,17'<7'
64??1.66 ,<' '' '-.< 1'>.6'>1, 76'>7<05 68'7<<7' '' .@.1''
; . .=4 '' 5'' E'01 ;'7 ,<8' .7' =4 ' .7' .<7' ?.1 468' 6,<'
?'1'5''1>J .'J.<>1'5.8'6, 7'?'1' '.6'E.1 / .16'?'17 ;45 .16%
>'<6'5.6' ; >.-'<7'?'V6' > >7'768' .7%.<' / > / .'7. / ?6''6M
641.1'5.' 1. ;,4-1. / .<7' >.6'>1, 76' =4 ' >7' .<7' >46' .'
.@ J 05.6' '' >?,=4.'>.' ;.77.'64??1.66 ,<8' >.;1.7.' ;.'
=4 ' 64 7N
Y 17% SW$ % .'0' 5' ?'66>' ?'1'$,' ; >.-'<7' .7'76' >4'
'<J4.>,;8' 5.' ' '<- .1' ())8' '' .11.' K.E5,;=8'>.'
5'' E.1 / .'>4'>1, 7' ;,<<4' 6,46' 5.'<, <'>.' >=4 -' .<7'
.7'?.1;.?7 05.' '' 5'' -.<7.' .<'>.7' 5'641'5.6' - <68' - '<>.6'
.7'?, 66,<6'>.' / .1'E1' 6' .7'6'5.68'?,41' .<'Q, 1'?'1' .'
> 7'K.55,;=' ?.<>'<7'5.'7.1 / .'>.' 6 @' '<<..6' ;,<6>.4'
7 -.68' '' ;, / ?7.1'>4' 5W1' '-1 5' ())'Q<6=4 '4' ' / '16'
(*U8' / ,V.< '<7'5.'?1 @'>.' 8 (98 ' -%?'1' ;:'=4.'
'<<>.8' .67' .7'>. / .41.'1>6 5 >8' '' ;, / ?7.1'>4' DG' '-1 5'
(* ' N .<' ;,<6>=4.<;.8' .7' '' >'7.1' >.' ;.77.' > ?=4.8'
5.> 7' K.55,;=' 1.<>1'8' > ; '4' 5D1' '<- .1' (*C8' 6,<'
;, / ?7.8'>.';5.1;' '' / '771.8'>4' ?1,>4 7'>4> 7'0' 58''4'
> 1.;7, 1.'>4'>>?'17. / . 7'>.'5''B'47. ! '1,<<.%
\ % ,<6'5.6'6,46 0'4@'?'66.6'?'1'5.> 7' K.55,;=8'
.7' 5.6' '11 >1. 6,46 0'4@'?'66>6'?'1'5.6' ;.66 , <' 1,68'
6,<7>J'5. / .<71>6 5 >6%' ;,< ?7.1'>4> 7Q,41' DD' -1 5'
(* 8' '' 5'' ;:'1J.'?'1'5.6' 6,46 E.1 / .16'=4 6.'6, 7'
?5' <76'5.J'5. / . 7'>.'5.41'<,< Q,4 66'<;.' >.' 1.<>1.'
'4> 7' K.55,;=' 5.<1' ;, / ?7.'>.' ;5.1;' '' / ' 71.8' ?,41'5''
71, 6 > / .' '<<>.'>.' 5.:1' 0' 5' >;:4'5.' ' / '16' (* 8'
>'<6 5.'>>5' ' >.71, 6' / , 6N5.644. ';, / ?7.6'>.' ; ;1;'
>' / N>71. 4.'6.1,<7'1. 46'=4 '?1.6' '-, 1'>7>' ->1 E >6' .7'
- 6>6' ?'1'5.6' / 4< ; ?'5 7>6' .7'> 1.;7, 1.6'>.' > 671 ;78'
?,41' ' 1.'?'17 .'>4' ;, / ?7.'J><>1'5'>.' ;5.1;' '' / ' 71.'
'' 1.<>1.'?'1'5.> 7' K.55,;=' >.-'<7'5.'> 1.;7, 1.'>4'>.'
?'17. / .<7'>.'5''B'47. ! '1,<<.8' .7' 5.6'6, / / .6' ''1. '
;,4-1.1' '4Q,41> :4 ' ?,41' 5.' ;, / ?7.' >.' 5'' <'7 ,<'
6.1,<7' / ?47>.6641'5.6 <>. / < 7>6' =4 '?,411' .<7'>1.'
>4.6' '?1.6'5'' 1.>> 7 ,<' .7' '?41. / .<7' >.'6,<' ;, / ?7.%
Y % 41'5.6' ,06.1-'7 ,<6' > ' > 1.;7, 1.' >4' >.?'1'
7. / .<7' >.' 5'' B'47. ! '1,<<.8' =4 ' 6.1,<7' 71'<6 / 6.6'
'4' ;,1?6'5.J 65'7 E8' 5' 6.1'?,41-4'471' 7. / .<7' >4> 7'
K.55,;=8 >.?4 6'5.' DD' '-1 5' (* ' Q46=4 '' 5'' ?1>6.<7' '
7 ,<' >.' 6,<' ;, / ?7.' >.' ;5.1;' '' / ' 71.8' ' <6' =4 ''
<>. / < 7>8' 6 5' V'' 5 .48'?,41'5'' <,< Q,4 66'<;.'>.6'
1, 6'>.1< >1.6' '<<..6' >.'6,<'0' 5%
Y % 66. / 05>.' !' ? !'5.> 7' K.55,;=8'
'=4.'6.6'6,46 E.1 / .168' ') #! ' '?.1;.?7 ,<'
>.6' 1.67.6' ' 1.;,4-1.1'Q46=4 '4' DD '<- .1' (*C8'
7.1 / .'>'<6'5.=4.5' 5.> 7' K.55,;=' 6.1'' 7. 4'>.' 1.<>1.'
6,<' ! & !'>.';5.1;' ' / ' 71.%
'$' % ,47.6'5.6' ?1,.>>41.6' ;, / / .<.>.6' ?,41'>. '
7 / '<>;6' .<' <>. / < 7>' .7' 1>6 5 . / .<7'>.'0'4@' 6.<7' ;7'
>. / .41.<7' 64??1 / >.6I' / ' 6' 5.6' ?,4164 7.6' <>..6'
6' 1.6' '' ';=4 57. / .<7' >.6' >1, 76' >468' 7 / 7' ?'1'5.6'
1.>.-'05.6' =4.'?'1'5.6'6,46 E.1 / .16' .7' '11 >1. 6,46 '
E.1 / .168' 6.1,<7' E' 7.6' .7' ;,<7 <4>.6' =6=4 '' ?'1E, 7'
?' . / #<7%
Y % ,<6' 5.6' 0'4@'>.6' 041. '4@' ?'66>6' ?'1'5.> 7'
K.55,#=' .7' 5.6' 6,46 E.1 / .168' ?,41'1' 6,<'>.'5.41' .@'
?5, 7'7 ,<8' 6.1,<7' 1>6 5 >6' '' ;, / ?7.1' >4' 5D1' ,;7,01.'
?1, ;:' <8' .7' 5.'?1 @' .<' 6.1'' ?'V>' '4@' ?1,?1 >7' 1;6'
Q46=4 '' 5'> 7.'>?,=4.8'?,41'5.41'7. 1'5 .4' > <>. / '
< 7>8' '77.<>4'= 56' ,<7' ;.66>' > >71.' ,;;4?>6' >.?4 6'5''
;.66'7 ,<' >4' 0' 5%
$' % '<6'5.' ;, / ?7.'>.' ;5.1;' '' / ' 71.'=4.'1.<>1''
5.> 7'K.55,;=8' 5'?,17.1'' .<'1.' ;.77.'5.'?1 @'>.6 / .405.6'
.7' / 67.<6 5.6' >.' 6,<' .@?5, 7'7 ,<8'>,<7' :' -.<7.'6.1'

#+$,(' *$$$$',.+,$#'/' '' D$$$'!
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' ('' '!#(. ('(,'+ ,,('') <$,'8.(&D$,$#'J$' $'(.+'
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' ' (-$,"(35'(4 .0 $.+4+.!-(0+*, (3 !'
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* *' ' ' ' ' ' 'C 8' ' '
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W 17%' 5'6.1'' '>Q, <7' '7' ; / / 66' 1.' ?1.;.>./ /.<7'
<, / /.8'?,41';,<7 <4.1' .@?5, 7'7 ,<' .7'5''1.J .'>.6',0Q.76'
>.?.<>'<76'>.'5''E.1/.'J.<.1'7.8'; <=' '471.6';, / / 66' 1.6G'
?,41' 71'-' 55.1' '-.;' 545' +' 5'' 5 =4 >'7 ,<' .7' '4@' ;, / ?7.68'
7'<7'>.'5 7.'E.1/.'J.<.1' .'=4.'>.6'1.J .6'=4' 54' '7'5.<7'
;,<E ..6%
.'@$' ('' * *0(+ 2'3 ''+$.(''(. *,'36 $' ''4+.' ('. $'
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J $''+$.3'' ' :
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$3+,$ *''(,+) $(''4+.' ('' $'' *5 0(('
Y %' .6';, ?6' '>/ < 671'7 E6'?1,7.J.1,<7'5.>7'1.;,,-1;1'
/ .<7'>.'7,47'P.'?,4-, 1'=4 '5.<1' .67';,<E .%
.' %$ ('' 5 $,,+*3('' - ' -. $,' +***(' +35 $,,(' 4 .' Bf&
4.('(*,'' +**((/ (*,.(('' +$*'' -('' 4.(4 '('/' ' $,' -(' +'
#(. (/' ' $,' -(' +'$39$('9(*(.+$(/' '(. *,'$ 4 ,((''4 .'+*'
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,. $''+*,.(''5 +.,'/'+.' ('-. $,'-('4+,(*,(''-+'4 .' ('' *(+#
-(.*$(.''. .'
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) .(+ 2'(,' (4 8('/ (,'-(' +'-(4(*'('5 $' +9(.+'*(3('!'
'+$.('4 .' 4(.(.' +' $5 $-+,$ *'-(''-(2'3 4+9*$('
Y 5'V'Q, <>1'' 6.6'-<.6'641'5.6' / ,V.<6'>G <7.1.66.1'5.'C .'
>.6';, / < 66' 1.6'.7'. / ?5,V.6' ''1';;.5.167 ,<'>.';.77.'5 =4 M
>'7 ,<' .7'>.6'1.;,<-1. / .<76'=4 '>, -.<7'.<'1.6457.18'.7'641'
5.'7,47' 5'6.1'' 67'74.';.'=4 '6.1''Q4 .';,<-.<'05.%'> '?1.6'
5.'1'??,17'>4';, / 7.'> 6'E<'<;.6%
$± ' ' +' #$*' -(' 36+5 (' $'/ ('' ''+$.(''.((,!'
,. *,'+ ' . $*$',.(/ (,' (' $*$',.('+' ''( ) (''*+,$ *+ (/
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.' 'R*' 3 *'(5 (*3(' $*'$9* *'(,' '(''3+ ,$ *''.((,!'
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-+*'' +' 3+$''(' -('0+ (*-.$*'(,''(''3+ ,$ *'/5 $'- **(. *,'
5 $,,+*3(' 0+ +) (/ (,'4+.($ ($$,'+' +' 36+.9(' -('' 44 '$1
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,.+,(.''(,(.''+8+*,''3+ '(/-(4$ 8(./' ,'' (9(*,'+'
4. 4 '/ +' ,+A$,(' '4+.,$('-((.''# *-'' - +0+*3('(,'-('
3+ ,$ $$*((*,/ (*'+35 $',$,$ *'-('- +$*(''*+,, *+ 2
.'! ' .' +'-(3+.+,$ *'5 $$'' (*'#(. *,/$$'('$%+'-($0. /
+' 3+$''('-('.(2,.+ .-$*+$.('+*2'3+$''(''.('4(3,$0('/%
'-#''.(3 **+$''+*3(''-('+' ,+$,' *'-('4+.,$('-('-$,''# *-'
Y .6>7.6'1.;,<<' 66'<;.6'6.1,<7'1.E4.6'?, ,1';, / Q?7'<7

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) * ˢ + ! ˢ .ˢ% ˢ /,ˢ - ,

Ý C)8ˢ F <ˢQ @< W ^ˢ<3 H 6 `A

; * " * 2 (

#a

ˢG " & ˢ ˢ - ˢ +ˢ '' ,4-.55.ˢ0'<=4.ˢ>.ˢ
'<.8/'1; ˢ.7ˢ>.ˢ ,1[J.ˢ '' ,4-.15.ˢ0 .1ˢ8ˢ.7ˢ '<ˢ
; .<<.ˢE.1/..Iˢ .55.ˢ?1.7.1''6'1ˢ0Q 7:.=4.ˢ.7ˢE.7'' .<ˢ
5./.ˢ7./?6ˢ .6;,/?7.%

<ˢ /'<>.ˢ>.ˢ ,; ;;,5/ˢ=4.ˢ 0<ˢ?.<6.ˢ=<.ˢ5.ˢ1,ˢ3ˢ
1.- .<>1'' ''5''E<ˢ>.ˢ;.ˢ/ , 68ˢ,<ˢ'4ˢ;, / /.<;./.<7ˢ>.ˢ
'471.%

<ˢ ';:.7.ˢ ;ˢ 4<.ˢ J1'<>.ˢ =4'<5 ˢ >.ˢ ;4 -1;ˢ >.ˢ
4.>.ˢ ?,41ˢ5.ˢ ;, /?7.ˢ >.6ˢ <.J, ; '<76ˢ7 ' ;'5F%

! %

ˢ ˢ?W- ˢ + <ˢ '' '66 J< ˢ 4<.ˢ ?/.ˢ
>.ˢC 8 ˢE5,1<6ˢ?,41ˢE' 1.ˢE';.ˢ'4@ˢ?1.?'1'7 E6ˢ>.6ˢ
>.4@ˢ;'/?6ˢ=4ˢ>, -.<7ˢ'-, 1ˢ5 .<8ˢ <<ˢ.<ˢ ,5,J<.8
.7ˢ '471.ˢ>'<6ˢ5'' :<'<.%

4ˢ ˢ+ˢ .ˢ/ < 671.ˢ>.ˢH1'<;.ˢ'' .4ˢ 7<.ˢ?1.M
/ .1.ˢ'4> .<;.ˢ>4ˢ1, %

<ˢ >0 78ˢ> 7 ,<8ˢ.<-, ;1ˢ '' 1.6>.ˢ4<.ˢ> ?45'7 ,<ˢ
?,41ˢ6'-, 1ˢ>.ˢ 5.;7.41ˢ6.6ˢ <7.<7 ,<6ˢ641ˢ5'' 64;;.6M
6 ,<ˢ -.<74.55.ˢ'4ˢ71,<.ˢ>.ˢ ,5,J<.8 <ˢ;1' <7ˢ=4.ˢ .ˢ
5.;7 41ˢ <.ˢ 6, 5ˢ <7 / > ˢ?'1ˢ5.6ˢ71, 6ˢ?4 66'<;.68ˢ=4ˢ
?.1>1,<7ˢ> EE ; 5./.<7ˢ :'0 74>.ˢ >.ˢ 71,405.1ˢ5.ˢ 0,<ˢ
<.41ˢ>.ˢ5'' <'7 ,<ˢ?,5,<' 6.%

<ˢ /'<>.ˢ>.ˢ#,<67'<7<,?5.ˢ=4.ˢ %5.ˢ;, /7.ˢ ,ˢ
7, ˢ6 .67ˢ.<71.7.<4ˢ?.160<<.55.1'.<7ˢ'-.;ˢ5.ˢ J1'<> 6. %
J<.41ˢ641ˢ5.6ˢ'EE' VN6ˢ>.ˢ5'' ,5,J<.%

ˢ< ˢ ˢ?W- ˢ +ˢ .4@ˢ;,411 .16ˢ -.<'<7ˢ>.ˢ
.7.160,41J8.7ˢ'55'<7ˢ 4<ˢ ''5'' B'-.8ˢ.7ˢ '471.ˢ'' ,<ˢ
>1.68ˢ ,47ˢ > 7ˢ =4.ˢ ?.16,<<.ˢ <.ˢ >?47.ˢ ?546ˢ '' .7.16ˢ
0,41Jˢ=4.ˢ5''?' @ˢ<.ˢ6, 5ˢ;,<;54.ˢ <;.66'<4<.<7%

<ˢ '6641.ˢ=4.ˢ5.ˢ1, ˢ>.ˢ 1466.ˢ''?1, / 6ˢ'' /? 1'ˢ
71 ;.ˢ>.ˢ 466 .Aˢ>.ˢ <.ˢ ?546ˢ6.ˢ / 5.1ˢ>.6ˢ< J,; '7,<6ˢ
';74.55.68ˢ.7ˢ=4.8ˢ?,41ˢ?1 @ˢ>.ˢ;.77.ˢ;, /?5' 6'<;.8ˢ4<ˢ
;.17' <ˢ?1,Q.7ˢ> .;<'<J.ˢ6.1''.EE.;74.%#.=4ˢ'4J/.<7ˢ
>.6ˢ'5'1/.6ˢ=4.ˢ<,46ˢ'-,<6ˢ ;ˢ>.?4 6ˢ6ˢ5,<J7.7<?6%

% ! %

ˢ)ˢ ˢ ˢ ˢ ˢ ˢ +ˢ ˢ5'<>J1'-.ˢ>.ˢB.66.ˢ
'1/65'>7ˢ''E' 7ˢ> 671 04.1ˢ4<ˢ<,4-.'4ˢ/./,1.ˢ;,<ˢ
;.1<'<7ˢ6.6ˢ?,66.66 ,<6ˢ.<ˢ 56';.% .ˢ/'1J1'-.ˢ>.ˢK'>.ˢ
6 .67ˢ'466ˢQ, <7ˢ'4@ˢ1.;5'/'<76ˢ;.<71.ˢ?546 .416ˢ> ;1.76ˢ
>.ˢ 66./05..ˢ4'7 ,<'5.ˢ>.ˢH1'<;.ˢd 5ˢ- ;<7ˢ> ˢE' 1.ˢ
> 671 04.1ˢ4<ˢ / /, 1.ˢ'' ;.ˢ64Q.7ˢ?' / ˢ5.6ˢ / < 671.6ˢ
;, / 7 '4@% ˢ .67ˢ;.17' <ˢ=4.ˢ ,<ˢ '77.<>ˢ5''6 J<'741.ˢ
>.ˢ5''?' @ˢ?,41ˢ?1.<>1.ˢ>.6ˢ>.7.1/ <'7 ,<6ˢ'' J'1>ˢ
>.6ˢ?1<;.6ˢ?,66.66 ,<<.6% ,46ˢ?.<6,4ˢ=4 5 ''.@67ˢ
4<ˢ?5'<ˢ1.5'7 -. / .<7ˢ'';.77.ˢ'EE' 1.8ˢ/' 6ˢ=4.ˢ5.6ˢ0'6.6ˢ
6 .<ˢ6, <7ˢ ;1,45 .6ˢ.<ˢ ,<ˢ/ , / .<7% .16,<<.ˢ<.ˢ>,47.ˢ
I24.ˢ . /?.1.41ˢ< ' 7ˢ 7.ˢ>'<6ˢ5.ˢ6.;1.7ˢ>.ˢ5'' E4 7.ˢ>.ˢ
,4 6ˢ'' % <ˢ6' 7ˢ=<.ˢ % % % ''E' 7\ ?.<>'<7ˢ6,<ˢ
-,V'J.ˢ> 57'5 .8ˢ 44ˢ. /?10<7ˢ>.ˢC ˢ / 55 ,<6ˢ'' .< 6.8ˢ
'' !.<.68ˢ.7;% <ˢ6' 7ˢ=4.ˢ>.6ˢ <J < .416ˢ'-' .<7ˢ 7.ˢ
.<-,V 6ˢ -.16ˢ <6?14; ˢ .5ˢ -.16ˢH1 0,41J8ˢ'' ?,=4.ˢ
,4ˢ ,<ˢ'41' 7ˢ?4ˢ'-, 1ˢ''> 1 J.1ˢ5'' /'1;0.ˢ>.6ˢ 471ˢ
;: .<6ˢ>4ˢ;,7 ˢ>4ˢ E' <%

>

8ˢ @ ˢ< ˢ ˢ ˢF

%%%%%% ;<ˢ>,47.V%?, <7N<,E1.E;,41ˢ'' 5ˢ?1 -.< .
>4ˢ>.?'17ˢ>.ˢ ,4 6ˢ'' % ,4 6ˢ1'/.<.ˢ'' '1 6ˢ8%;.5''
?'1' 7ˢ'-, 1ˢ;:'<J.ˢ5.6ˢ> 6?,6 7 ,<68ˢ /' 6ˢ<,<ˢ?'6ˢ5.6ˢ
<7.<7 ,<6% ˢV '' >'<6ˢ;.ˢ?'V6 ;ˢ=4.5=4.6ˢ < J1'<6ˢ
E1'<;' 6ˢ=4ˢ ;:'4EE.<7ˢ5.ˢ/ < 67.1.% <ˢ54ˢE' 7%>.6ˢ?.416ˢ
>,<7,<ˢ-.47ˢ?1,E5.1ˢ#,<71.ˢ5''H1'<;.% '' ;,416,<J.ˢ
ˢ ˢ ˢ< ˢ'.

> Q'' ''6 '6641.1ˢ7 .6ˢ71,4?.6% '' ?' .ˢ>4ˢ6,5>'7ˢ'' 7
'4J/.47..%%%% ,6ˢ?'? .16ˢ>.ˢ H1'<;.ˢ 6,<5ˢ?1,6;1 7.
'-.;ˢ4<.ˢ6 - 15 ˢ <E5.@05.% <ˢ>, 7ˢ>,7 <.1ˢ>.6ˢ,1>1.6ˢ
?,41ˢ'4J/.<7.1ˢ5.ˢ;,1>,<ˢ=4ˢ -;55.ˢ641ˢ5'' E1,<5 .1.%
QEˢJ,4-.1<.<1.<7ˢ6.ˢ. / 7ˢ?1.6ˢ75 4<ˢ6!5.'<% <ˢ .<%.67ˢ
5ˢ6.ˢ6.<7 1ˢ1./4.1ˢ'' ;5/= .ˢ <67'<7% ,6ˢ < 66'1.6ˢ
V,<7ˢ5,4Q,416ˢ>./'<>'<7ˢ6ˢ ,<ˢ< ''1 . ˢ ?1,4- ˢ.<ˢM
;,1.%&5.5''E' 71 1.% ˢ6ˢ-,46ˢ.<ˢH1'<;.8ˢ<.ˢ-,46ˢ,;#4ˢ
?.0ˢ?'6ˢ5 .ˢ;=6ˢ0'J'7.55.6% <>,5.<;.ˢ/ < 7.1 .55.ˢ.67ˢ
?546ˢ';7 -.ˢ ˢ= ,<ˢ<.ˢ5.ˢ?.<6.% ''<,05.66.ˢVˢ''0.'4ˢ
;,4?ˢ> . /? 1.% 55.ˢ<.ˢ6V71,4-.1' 7ˢ?, <7Vˢ'4ˢ/, / .<7ˢ
> 4<.ˢ1 -,5< ,<8ˢ01,4 55 .ˢ'-.;ˢ5'' ;,418ˢ;, / / .ˢ-,6ˢ
. >.-'<7ˢ<,5E5.68ˢ4< 8ˢ>.6ˢ ;1ˢ ˢ ˢ ()(8ˢ.<ˢ
-,45' ;<7ˢ''5'' ;,41ˢ$.ˢ .16' 55.6% %%%ˢ ,6ˢJ1'<>6ˢ6.M
J<.416ˢ5.ˢ?.4-.<ˢ64??,17.1ˢ > .ˢ=4.ˢ] ˢ
! ˢ' 7ˢ> 6?' 4ˢ'' 5'' -, @ˢ>4ˢ?.4?5.8ˢ;, / /.ˢ5'ˢ
54 / .1.ˢ'' .7;ˢE' 7.ˢ''5''?'1,5.ˢ>4ˢ ,47 4 66'<78ˢ.7;8

@ ˢ) ˢ ˢ ˢ &

.ˢ>.<,<;.ˢ>,<.ˢ'' 41,?.ˢ.<7 .1.8ˢ.7ˢ6417,47ˢ''5''
H1'<;.8ˢ=4ˢ< ''?546ˢ>.6ˢV.4@ˢ?,41ˢ<.ˢ?, <7ˢ-, 18ˢ(ˢ
<,<-.55.ˢ?.1E > .ˢ/ < 67.1 .55.ˢ>,<7 J.ˢ.67c''- ;7 / .8ˢ
.6ˢ / < 671.6ˢ,47ˢE' 71#/?51ˢ5.6ˢJ'0.77.6ˢ>4ˢ014 7ˢ=4.ˢ
5.ˢ6,17ˢ>.6ˢ /'50.41.4@ˢ J., 6ˢ'55' 7ˢ;:'<J.18ˢ=4.ˢ
%>.ˢ .57.1< ;:ˢ.7ˢ5.ˢ?: 5,6,?:.ˢ % .1;V > 1J.<ˢ
7.'<ˢ-.<' .<7ˢ'' J.ˢ'??,17.1ˢ '4ˢ?1<;. -.=4.ˢ5.6ˢ
;,<6. 56ˢ1 J,4 .4@ˢ>.ˢ ,?, >ˢ.<ˢE'-.41ˢ> 4<ˢ?.4?5.ˢ
,??1 / ˢN,<ˢ '' ;15ˢ''K14@.55.68ˢ ˢ @ c' #:'?. 5.8ˢ''
! -.78ˢ'' '1 6ˢ.7ˢ'' J.ˢ1' /.8ˢ#14.55.ˢ> 1 6 ,<8ˢ=4ˢ
6,45 -.ˢH' /.ˢ>.6ˢ?546ˢ?' 6 05.6ˢ :,<4 7.6ˢJ.<6$#.ˢ
014 7ˢ.67ˢ4<.ˢ?.1E > .8ˢ7ˢ.67ˢE'4@% .ˢ6,17ˢ>.6ˢ J.,6ˢ
.67ˢ5.ˢ / . / .8ˢ 56ˢJ / 66.<7% ˢ< Vˢ'' >.ˢ -1'ˢ>'<6ˢ;.6ˢ
/'J< E =4.6ˢ 1 ;76ˢ =4 4<ˢ J1'<>ˢ > <.1ˢ '4ˢ?'5' 6ˢ>4ˢ
?1 <;.8ˢ,<ˢ6.ˢ6,<7ˢ1.<>46ˢ %5.ˢ;, /7.ˢ>.ˢ .77.1< ;:ˢ
.7ˢ %5.ˢ;, /7.ˢ>.ˢ .1;V > 1J.<7;'4% ,46ˢ<.ˢ6'-,<6ˢ
?'6ˢ?,6 7 -. / .<7ˢ=4.56ˢ6,<7ˢ5.6ˢ- <6ˢ=4 ,<ˢVˢ''0468ˢ/' 6ˢ
<,46ˢ6'-,<6ˢ=4.ˢ5''?4 66'<;.ˢ6';.1>,7'5.ˢ'' -,454ˢ6 .< ˢ
-1.1ˢ>4ˢ6'<Jˢ>.ˢ EE% >4ˢ .11,<8ˢ?'71 ,7.ˢ .7ˢ- . 55'1 5ˢ
1.6?.;7'05.%#.7ˢ:, / /.ˢ'' 7ˢ5 -1 ˢ''>.6ˢ;'?,; <6ˢ'?1 6ˢ
5'' 6.<7.<;.ˢ >.ˢ / ,17% .6ˢ?E.416ˢ>.ˢ6'' /'5:.<1.46.ˢ
E. / /.ˢ .7ˢ>.ˢ6,<ˢE 56ˢ4< =4.ˢ< '41' .<7ˢ15.<ˢ ,07.774ˢ
6'<6ˢ5'' ;1' <7.ˢ>4ˢ <> J<'7 ,<ˢ?405 =4.8ˢ>,<7ˢ5''J'1>.ˢ
>4ˢ?'5' 6ˢ< '' ?'6ˢ;4;,1.ˢ 'EE1'<.0ˢ /.ˢ>.ˢ;.4@ˢ=4ˢ
:'< 7.<7% ''E' / 55.ˢ>4ˢ .11,<ˢ<.ˢ?.1>1''>,<.ˢ=4.ˢ
6''E,174<.Iˢ;.ˢ- . 5'1>ˢ / .417ˢ>'<6ˢ4<ˢ ;ˢ;:.>8ˢ,<ˢ5''
& ˢ ˢ ˢ ''E' 7ˢ/ .771.ˢ ˢ H ˢ ˢ5 d
5.416ˢ5.6ˢ:, / <.68ˢ=4ˢ,47ˢ.4ˢ5.ˢ?546ˢ>.ˢ?'17ˢ''5''1 -,ˢ
547 , ˢ=4.ˢ5.6ˢ0'5,<<.77.6ˢ>.ˢ 471 ;:.ˢ,47ˢ1.<-. 6..8ˢ
6,<7ˢ';74.55. / .?7ˢ>'<6ˢ5.6ˢE.16% .6ˢE. / /.6ˢ / . / .8ˢ6.?7ˢ
>'<6ˢ5.6ˢ ?1 6,<6% ,46ˢ '77.<>.<7ˢ5.41ˢ'11.7ˢ>.ˢ / ,17%ˢ
.ˢ71 04<'5ˢ>.6ˢ * & > ˢ.67ˢ>.-.<4ˢ4<.ˢ ˢ
ˢ <.ˢ5.6 ' 66.1''?, <75'<J4 1>'<65 ' 1 / E;;7ˢ
=4 56ˢ1.6? 1.<7% % >.ˢ .77.1< .:ˢ;7ˢ % >.ˢ .1;Vˢ
> 1J.<7.'4ˢ6,<7 ,15 6ˢ>.ˢ .J.ˢ5.ˢ5.<>. /' 7 ˢ>4ˢ> <.1ˢ
'4ˢ?'5' 6&''<.4Eˢ:.41.6ˢ>4ˢ /'7 <PIˢ,<ˢ J<,1.ˢ ;Eˢ5''
1,47.ˢ=4 '41,<7ˢ?1 6.ˢ;.6ˢ / < 671.6ˢ?: 5'<7:1,?.68ˢ.7;%

H # %

" ˢ ˢ

@ ˢ ˢ & ˢ ˢ ˢ ˢ ˢ ˢ
ˢ, ˢ ˢ ˢG *ˢ ˢ : Bˢ
3ˢ F ˢ ˢ?Wˢ- ˢ (* %

''6,; 7 ˢ;,<6 > '' 5ˢ=4.8ˢ?,41ˢ5''?1 6.<7.ˢ': .8ˢ
5ˢ< V ''.<;,1.ˢ'4;4<.5.- .> /?.6 7 ,<6%5'<> 6ˢ=4.8ˢ
>'<6ˢ5.6ˢ'< .6ˢ?1 ; >.<7.68ˢ5.ˢ?1. / .1ˢ7.1 /.ˢ6.ˢ7 1' 5ˢ
>'<6ˢ5.ˢ 5.1ˢQ'<- .1% .7ˢ5.ˢ6.;,<>ˢ>'<6ˢ5.ˢ .VYQ4 <N
C*

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<$ ((6,"5 &'+*"- *,($ "*+ .+$(*,'4 $*# +33 .- "$' *' '(*,$ (*,'$*-$9*('-(', ,') ('4) $3 '.' ' +

'A(+*!"+4,$',(! $(..(' # * 8' +$*-/*-9 +*,/. ('-C +'@ **+ (/-(3+.('5 $'*(',' ( ).('-+ 3 *'3)'4 $,$1 5 (/(,'5 ('-(4*$" +'.-0 $,$ *'$'*+' . (*' #+$,'$ 4,$ (,' ' "'' *'*

%

%.'*+0$.('-(' +*,(" ', '3+4$,+$*(' ''(+*' !' 4+. 8/4+.,$.+'-*-$,'$(*' \' +'#$*'-('(4,( ).('4. 36+$*'4 .' A(' +4! .+* +$'/$(' +$*,! $*9 (' ('*+0$.(/-(' +'3 *,(!' *+*3('-('GII', **(+*2/('3 *',.+$,' (*' #.-9+,(/- *) -'(*' 3 $0.(/(,'# .,'3 -('4 .' ('4+''+9(.'7$'(','3 ** '4+.' +'' 4-.$.$,('-('+' +.3)(('+' $-$,(' (2'5 $'--'$.-. *,' 3' 4+''(.'G '8' 36+.9(.'$,'#.(,' '+-.(''(. *,'+ 2'+. +,(*.'/ ' .9 $ (,'(,' ''(+ /*-9 3$+*," \' +*,(' +'' 3$-,-'-(" $"-(' +' *',$, ,$ */'(+*,($$' 6- *'/ --4+.,((*,' -('+' +$*(/--3+.('5*' 3 4,(.' -('3(' .' -$('*(*,.(,$(*-.+'4 "-('3 ..('4 $-+*3('+0(3'+ *(' ' 1 3$(,8'-(' (4$.(/ ?3('*(',' +0(3' +'' 3,-,-'-(" $"-(' ' *',$, ,$ */ '-+*,('+ 2' (*$ +*,'/ (,' (" + ,.(" ' 3$(,-'' L+& (' 3 *'$-(.(.+'3 (' $ $' -,+*$' +##$ $-('

"

' =W.++ 'C.-%8,.%

8 'F'$

' ' " ' WG' A !

' * ''4'<, /'><';, / 77 '> 'J1 ;4 71.'.7>.' ;, / / .1;.I' '5.6' E1'<;: 6.6' ';;,1>. .6' " 4<'?,178' " 4<.'- 55.8' < 7' .<5' =4 4<' ?1 - 5.J.' ?'17 ;45 .1' " ;.' ?,178' " ;.75.'- 55.8' ,<'<.'?,411' 7'?'6' / .551.'.<'=4.6M 7 ,<' 6' ;.' ?1 - 5.J.' >, 7' .<;,1.' .@ 67.1' N 6" ?1,6;1 ?7 ,<' 6.1' 7'?1,<><;>.'?'1' 178' "'>.'-,6'11 ' 7>'>4' / , 6'> ',E57' ()*I' " =4.67 ,<' =4.' -,7E.' ;, ' / 7>'> 'J1 ;45741.'.7'>.';, / / .1;.'- .<7' -,46' ?1,?,M 6.1' 6.' 1.>4 7' >,<.' " 6'-,E1' 6 5' .67' >.' <7.1>5' >4' 1,V'4 / .' > '-, 1' >.6' ?,176' E1'<;68' .7' 6'5.6' <;,<-.' < .<76'=4.'?.4-.<7' ?1.6.<7.1' ;.6' E1'<;: 6.6' 6,<7' ;,<' 71. 0'5'<; .6' ?'1'5.6' '-'<7'J.6' =4 .55.6' ?1, ;41.<78' ' 6. / 05.'=4.'?,41'>;5' 1; 1;.77.'=4.67 ,<' 5' E'47;, / ' / .<;.1'?'1' ;,<<' 71.' ,1 J <.'>.6'?,176' E1'<;68%.7" =4.5' 46'J.' 56' 6,<7'>.67 <>6%

"?1,>4;7 ,<'=4.'<,46'>.-,<6"<,6' / '<4E';741.6' .7' " <,6'?1,>4;7 ,<6' 7.11 7,1 '5.6%' >6'>1, 76' '4@=7 .56' %7Q4.5=4.6 4<.6' 6,<7' '664Q.77 .6' ; :.0' 5.6' ?4 66'<; .6' .71'<J>1.68' .7' 5.6' ?1, : 0 7 ,<6' >,<7' > '471.6' V' 6,<7' J1.->.6'8' <,46' ,<7' ,05 J> ' > >7'05 1' 8' >J'1>' >.6' 671'<J .168' 4<.' 6,17.' >.' 1.?1>6' 55.6' I' / ' 6'<,46' < ' ' -,<6'?'6'-,454'<,46' <7.1> 1.'5"E';4S7.'> ';:.7.1'5.416' / '1;:'<> 6.6' ?,41'5.6' 1.-.<>1.' " > '471.68' .7' ?,41' >,<<.1' "<,71.' ;, / / .1;.'.7' ' <,71.' <'- J'7 ,<' 4<' ?546' J1'<>' / ,4-. / .<7%' ' " >,<.' E'554' 71,4-.1' 5.6' / ,V.<6'>.'1.<>1.';.6'6,17.6'>.'6?.;45'7 ,<6' ., / / .1' ; '5.6' ?,66 05.68' 6'<6' <4 1.' " <,6' / '<4E';741.68' .7' 6'<6' ?1.Q4> ; .1' '4@' >1, 76' >.' 5" <'7 ,<%' .' >' .67' -.<4.' ,1 J <.'>.6'?,176' E1'<;6%' <'?,17'06,54 / .<7' E1'<;'.678'>'<6' . / ? 1.8' 4<.'.@;.?7 ,<' '4' 1. / / .>.6' >,4'<.6' I' 5' .67' 71' 7>';, / / .'>71'<J.1I' 5' .67' : ,16'>.6' 0'11 >1.6I' 5' .67' >.67 <>' " 1. / ?5 15''>,405.' E,<;7 ,<' >.'1.;.-, 1'>.6' / '1;:'<> 6.6' <'7 ,<'5.6. ' >.6' / '1M ;:'<> 6.6' .71'<J> .6'?,41'5.6'1>.@?,17.1'>1>71'<J.1%

"E';5 7>''-.;'5'=4.55.'5.6' / '1;:'<> 6.6' .71'<J.1;6' ,<7' ?4'?.<>71.1' >.' ;.6' ?,176'>'< '5.'1,V'4 / .8' .<' E1'4>.'>.6'>1, 76' ,4'>.6'?1, : 0 7 ,<68' / '5J1>'5"J'1>.' 7,4Q,416' <64E7 6'<7.' =4.' ,<' .<71.7.<' 7' 6<1'5.416' '-.<4.68' " .7>' <E < / .<7' <4 6 05.' " <,6' ?1,>4;7 ,<6' 7.11 7,1 '5.6' ;1' / >4671 .55.6%' " / ' < > ,.4-1.'>.'<,6' 1 -'4@'' / 68' 641'0.'4;,4?' > ,0Q;768' 5" <>71.'>'<6' 5 <';7 , 8.75.';, / / .1;.'>71'<J.1'" .4-'.' 4<.'?'1' 7 .'>4';, / / .1;.'<'7 ,<'5%' ' .< .67'1>6'57>' >.' J1'<>6

0.<>B;.6'?,41'=4. 4.6 <> - >468' .7' 4<.'?.17.1>.55.' ?,41'5"<'7 ,<%

#.77.';,<6 >.1'7 ,<' 64E5 7' ?,41'-,46' E' 1.';,<<' 71.' ;, / 0 ;<' 5' .67 <67'<7'>.?1,<,<;.1'641';.6'E1'<;: 6.6I' / ' 6';, / / .' .55.6' <.'6,<7'?'6' >.' :> / .'<'741.'?,41' 7,465.6'?,176'E1'<;6'>4'1,V'4 / .I' =4 .55.6' < ,<7?'6' 5. / > / .1>J 1<.8' =4.' 5.41' >7'05 66. / .<7'?'17 ;45 .1' " .4'4<'047'?,5 7 =4.'=4' .67 ?1,?1.' " ; : ';4<' > .4@8' 5'.67' / ?,66 05.'>.'<.'?'6'5.6'> 67 <J4.1%' "E1'<;: 6.' >.' '16. 55.8' ?'1'.@' / ?5.8' ?.' 1.66. / 05.' .<' 1 ;<'' ;.>.6'>.' 4< .1=4.'.7'>.'K'V, :<.I';.77.'- 55.' " 4<.' 1.J .'=4'54 ' .67'?'17 ;45 >1.N . . 7' 41';.75.'1>J .'.7'641' 1' / .:,1'7 ,<' >,<7' .55.' .67' 646;.?7 05.' =4.' 5.' <,< ' -.'4'1>J / .'>.671'>.6'.@ J.'=4.'-,4667'74 .0'?1, / ?' 7. / .<7I' . .67'>.';.77.'- 55.'6.45.'=4.'Q.'-' 6'-,46' .<' '71.7.< 1'.<';.' / , / .<7%

'16. 55.' .67'5.' 6 >J.' >4' ;, / / .1;.'>4' .-'<7 ' .7' 5.6' ?,17'7 ,<6'?,41';.' ;, / / .1;.' 6,<7'>.' C)' " ' / 55 ,<6I' 5.6' / ?,17'7 ,<6'>.' ' " 9' / 55 ,<6%' ,6' .<-, 6' .<' 41=4 .' ;,<6 67.<78' ?,41'5" ?546' J1'<>.' ?'17 .8' .<' >.<1>.6' 7.11 7,1 '5.6' .5' .<' / '1;:'<> 6.6' / '<4E';741>.6' >'<6' 5.'1,V'4 / .I' <,6' 1;7,416' 6.'E,<7' '4';,<71< 1.8' ?1.6=4.'.<'7,7'5 7.8' .<' / '5Q.1.6' ?1. / >' 1=68' >,<7' <,46' .< ?5,V,<6'5" / 'Q.41.'?'17 .'>'<6';,6' E'01 =4.68' .7' <,46' .<-,V,<6'5.' 64?.1E54' >' >71'<J.1%' ,71.'<'- J'7 ,<' .<' 41=4 .' .<71.7 .<7' ;,<7 <4.55.' / .<7' U '0>7 1' .<76' "5" / .1%

'<,46'?'66,<6'4@'471.6;, / / .1;.6=<.'E' 7' '1M 6. 55.8' <,46' -,V,<6'=4.'7,<6' V' 6,<7 .<' ';7 ,<8' .6':'M 0 7'<76' >.6'=4'71.'?'17 .6' >4' / ,<>.'V' - .<<. 57' : ' ' E =4.1I'5.'?'- 5 ,<'>.'7,47.6' 5.6' <'7 ,<6' E5,77?' >'<6' 6,<'?,17I .7' .55.'.6E'5.'J1.< .1'>.'7,47.6'<,6'?1,-<;.6' / .1> ,<'5.6' .7' >.'7,47. 5" >> 7.11'<>.%' <>>?.<' >' < / .<7'>4';, / / .1,.' / '1 7 / .'8' '16. 55.'">.6' / 'M <4E';741.6' / ?,17'<7.6I' .55.' " .<5.->' ' ! ><.6' 5" E'M 01 ;'7 ,<'>4' 6'-,<8' =4'>67'4<' ,0Q.7' '<<4.5'>.' *'> C ' / 55 ,<6I' .55.' " >7.' " - ,41?.'5" 1' 6..<;.4-1.' >4';,1' 5I' 5.6'?.'4@'=4 ,<' V' / .7 .<' ,45.418' .7' 5.6' / '1,=4 <6' =4 ,<' V' E'01 =4.8' 6,<7'64?>1 .416' " ;.4"' >.'K'10'1 ;N .55.' .67'?'1-.<4.' ' >7'05 1'>'<6'6,<'6. <' >.6'7. <741. ' .7'>.6' / '<4E';741.6'>.'0,<<; 6;7> #7,E' E.6'=4'<.'6.'E'01 =4' .<7'=4.'>'<6'5.' .-'<7I' .7' .55.' "-.<>4''4@' 1 .<7'4@'.4@ / > / .6'5.6'?1,>4 76'> 47 .' <>4671 .'>,<7' .55.' " 64'5.6'>#?,< 55.1%

,47.6'5.6'<<#.6' .55.' / .7 .< / .1' 8 '0'7 / .<768']" <'- J'7 ,<' .% 75" 0'6.'>.6';5'66.6'>.'5" #> 7.11'' <#.I' .55.,;;4?.' ?546>.') ' / 55.' ,4-1 .168' .7' .6' #;: 4 J.6' 6 #5.-.<7' '<7 4.55. / .<7' " 5" 6, / / .'>.' >' / 55 ,<6%

'.67'6.<6 05.'=4.';.77.' / '66.'>.';, / / .1;.'< "?4' 6.'E,1 / .18' <.'?.4 '6.'6,47.< 1' .7' 6 ';;1, 71.' =4.'?'1' 4<.' ';7 ,<' .7' 4<.'1.';7 ,<' ;,<7 <4.55.6' '4@=4.55. '5" 5 0.17>>,<7' '16. 55.'Q, 78' ?,41'7,47.6'6.6'.@?,17'M 7 ,<6' .7'?,41'5" / 'Q.41.'?'17 .'>.'6.6' / ?,17'7 , 68' " >E70.'4;,4?' ;,<7<04.1%

' ,<';,<6 >.1..<64 7.'5"<'741.'>.6'.@?,17'7 ,<6' >.' '16. 55.' " .71'<J.18' ,<'-, 7'=4.' ?1.6'>.6'=4'71.' ; <=4 . / .6';,<6 67.<7'.<'?1,>4;7 ,<6'>.'<,71.'6,58'>.' <,6';,5,< .6' .7'>.'<,71.' <>4671 .8' .7=4.'5.6'?1,>4;M 7 ,<6' .71'<J.1;6' < V' .<51.<7'J4.1.'=4.'?,41'4<' ;<' =4 # / .8

'?1#6' ;.' 7'05.'48' ,<' <.?.47'?'66.' > 66 1'45.1' =4.'5.'1,V'4 / .' .<7 .1' 1.7 1.' >.' J1'<>6' '-'<7'J.6' >.'5" E1'<;: 6.' >.' '16. 55.8' .7' =4 .<' ;0'<J.' 7'5.' 1>J / .'=4 8'Q46=4 ; 8' "E'-,1 6>';.';, / / .1;.8' 5' 6;' 1' 7' " ;1' <>1.'=4 ,<' < ,06714>7' 4<>.6?1 <; ?'4@.' ' <'4@'=4' ?,17.<7'5"E>;,<>7>'>'<6'7,47.' >7;<>4.'>.' .1'?1.%' <'<.'?.47'6 .<?>;:.1'>.'6.'5 -1.1' " ;.77.' ;1' <7.8'=4'<>' ,<'Q.77.'4<';,4?' >,.5'6<1'5" .> 7.1' 1'<>.8' .7' =4 ,<' '?;1;,7' '4'-, 6 <'J.'71E.6' ?1,;:' <' >.' '16. 55.'=4'71.'?,176' E1'<;6%' ! .<.68' ;.8' ' -,41<.'.7' 1 .67.8' =4'6,<7'?1>76' "6' 6 E' 7,47';.'=4,' >.6'., / 0 <' 6,<6' .11,<;.6' ?, 11' .<7' E' 1.'?.1>1.'' 5.41'1 -'5D

'' E1'<;: 6.' >'' ?,17>.' '16. 55.' .7>.'6,<7.11 ' 7, 1.' < .67 ?, <7 4<.' E1'<;: 6.' '06,54.I ; .67?<1.M J / .' ?'17 ;45 .1 ;'5;45.'641 4<.' / 457 ?5 ; 7.' >.' ; 1' ;,<65'<;.6 .7> <7>1>768 =4'<.'?.1 / .57.<7?'6>'' >,?7.1 :<?1 <; ?.' 4< E, / .?,41 > 1 J.1 7,47.6 5.6 ?'17 .6>.' ; , / / .1;.'=4'6.' E,<7 >'<6 #.77.' - 55.I #.' 1.J / .'?.<7?'1'E71.'.@71',1> <' 1.I ,?V , 75''E1'<M ;: 6.' '' ;>7>'>.'5'' ?1,: 0 7 ,<8 .@. / Q 7 ,<'' ;97.'>.' 5'' ?.1;.?7 ,<I 5''5 0.17>' '' ;>7.>.6 E,1 / '5 7>6I 5.;'' 1';7.1.' .71'<J.1 '' ;97> >4 ;'1';7.1.'<'7 ,<'5I / '6 ,<'' .1''>.-, 1'> / .771.' ;.6 ,??,6 7 ,<68 ?,41?1, ' E 7.1 >.' 7,<6 5.6 '-'<7'J.6 =4.'?,411' 7?1,;41.1 5'' ?,6 7 ,<>.' ;.77.' - 55.8 .7?,41'>'?7.18 6'<6 <;,<->' < .<768 5.6 1.66,41;.6 >71'<J 1.6 '4@ 0.6, <6<'7 , ' <'4@ A

,71.';, / 7>'-,46 ?1,?,6.8 D>.'5' 66.1 6406 67.1 '' .<71>.'>.' '16. 55.'5.'?.7 7 <, / 01>'>.'?1,: 0 7 ,<6 ;,<6.1->.6?'1'5.'<,4-.'4 7'1 EI CD> V E' 1E1';= 77.1 5.6 >1, 76>.';.'7'1 E641 7,47 ;.'=4'?,411' 71 -'5 6.1 '-.;' '-'<7'J.' <,71.' ;45741.8 <,6 / '<4E';741.6 .7 <,71.' ?>;:.I D> .@. / ?7.1 ' >1, 76 > .<71 .>.' ;.77.' - 55.I <,<6.45.1'.<7 4< -.16'5 7.'>.6 / '1;:'<' > 6.6 >4 ;, / / .1;.'>4 .-'<78 5.'7'0';.@;.?7.8 / ' 6 .<;,1.'7,47.6 5.6 ?1,>4;7 ,<6 .71'<J.1.6 =4'<.'?.<' -.<7?'6?,17.1>.f [.Q4> ;.'>'<,71.' / >77671 .I UD> V 6<??1 / .1 5.'>1, 7>.'?, >6 .7;'66.' .7;.54'>.' / ' / ' .% 7.I D> V E'-,1 6.1 5.';, / / .1;.'>.'1..@?,17'7 ,< ?'1 / .1I 9D>.@. / ?7.1>.6>1, 76>.6,17 .'4 ?'66'J.' >4'1,V'4 / .' '' '16. 55.'7, 7.6 5.6 ?1,>4;7 ,<6 4'7 , ' <'5;6 <>..66' 1.6 '4@ E'01 =4.6 >.';.77.' - 55.' .7 '' 6.6 '1< . / .<768 / / .'5.6 - <6 .7 5.6 0.67 '4@ >;67 <>6 '' 6'' ;,<6, / / '7 ,<I (D>.'< '664Q.77 1'4@ >1, 768 '' 5'' 6,17 .'>.';. ?,17 ?,41 >71'<J.18 =4.'5.6 - <6 .7 5.6 0.67 '4@I)D>.'<.'?.1;.-, 1 6 1 5.6 ,0Q.76 >.6 E'01 M =4.6 >.' '16. 55.8 ?'66'<7 >'<6 5.'1,V'4 / .8 =4.'>.6 E 1, 568 1.?1.6.<7'7 E6 >.' ;. '' =4 .<1' .41';=4 77. 6 '' . 71 '>.6 '471.6 ?,176 5.6 / '7 1.6 >,<7 5.6> 7.6 E'M 01 ;'7 ,<6 '41,<7 >7.' ., / ?,6>.6I > 'EE1'<.: 1 / > / .' ;.6 >1, 76 5 6 .@?,17'7 ,<6 ?,41 E 5.'>.' #,16.' .7 N ,6 ;,5,< .6I .<E < >.' 6,4 / .571.' '16. 55.' '' 7,47.6 .6 E,11'' 5.6 .7 '' 7,46 5.6 >1, 76 '4@=4.56 6,<7 '664' .77 6 5.6 '471.6 ?,176 >4 1,V'4 / .8 ?,41 5.';, / / .1;.' 5.6 ;,5,< .6 E1'<;' 6.6 .7>.'7 <>.%

% .V< .? .<71.' >'<6 >.' 71 6 5,<J6 >>-.5,??.' ,.<76 641 5.6 '-'<7'J.6>46V67> <.> 1;, / 7>'>.';, / M / .1;.8 .5 ?1>6.<7.' 5.' ?1,Q.7 >.'>.;1.7 64 '<78 =4' .67'>,?7 I G

' - '%V$/

' ' 'F ' '8 &

17% 5W1% .6 / '771.68 ;'? 7' <.6.7?'71,<6>.'0 ' 7 / .<76 .<71'<7>'<6 5.'?,17>.' '16. 55.8 ,4 .<'?,1M 7.<78 ;,<7 <4.1,<7>.'E' 1.' 7 5'' >,4'<.' <'7 ,<'5.'>.' 5'> 7.' - 55.8 >'<6 5.6 CU :.41.6 >.'5.41 '17 - .'?,41 5.6 <'- 1.6 .<71'<768 .7 '-'<7 5.'> ?'17 ?,41 ;.<@ 6,1' 7'7 768 5'' >.;5'1'7 ,< >.' 5.41 ;:'1J. / .478 . 5 ,06.1M -'<7 ?,41 .<71. .8 >.'> 67 <J4.1 ?'1 5'> 7.'>.;5'1'M 7 ,<8 5.6 / '1;:'<> 6.6 =4'6.1,<7 >.67 <..6'' 5'' ;,<M 6, / / '7 ,< >.' '16. 55.8 >.;.55.6=4.' ,< -,4>1'' / .57 .'.< .<71.? 7%

'5.6 0>7 / .<76 .<71'<7>'<6 5.'?,17>.' '16. 55.' 6,<7 ;:'1J.6>.' / '1;:'<> 6.6>,<7 5.6 5 <.6 6, .<7>.6 % 7<. .6 ?,41 '16. 55.' .7 5.6 '471.6 ?,41 .71'<J.18 5 6.1'' E' 7 >.6>.;5'1'7 ,<6 ?'17 ;45 E.1.6 1.5'7 -. / .<7 '' #:'=4.' >.67 <'7 ,<I .7 ?'1'1'??,17 '' ;.55.6 >.';.6 / '1;:'<> 6.6>.67 <..6 ?,41 .71'<J.18 5 64E5 1'' 8 6' .55.6 6,<7 ?.1 / 6.6 '' '16. 55.8 > <> =<.1 5.'<, / 01.' >.6 ;' 66.68 0'55.6 ,4 0'55,76 8 5. 16 / '1=4.6 .7 <4' / >1,6I / ' 6 6' .55.6 6,<7 ?1,: 0..68 5.6.6?.;.6.7 =4'<5 7.6 6.1,<7.<,4;..6>'<6 5'' >.;5'1'7 ,<I 5.'7,47 ''?. <.'>.';,<E 6;'7 ,< >. >7.6 / '1;:'<> 6.6 .7>.' '5 -% >' / .<>;%

% '' >.;5'1'7 ,<>.6 0>7 / .<76 >.-1'' 5 1.'E'7' =4' > / / .' 56 6.1' .<7641 5.41 5.67% .6 ?'71,<6> 0'1=4.6 .7 '471.6 0'7.'4@ ?>;:.416 .< 6,< ;.?.' >'<7> 6?.<6.8 >'<6;.';'6 .7>'<6;.54 ,.' 566.1' .' 6.45. / .<7;:'1J.6>4 ?1,>4 7 >.' 5.41 ?>;:.8 / '6 ;,<> 7 ,<=4 56 6.'?5';.1,<7>'<6 5.'?,17'' .<><' ?'17 ;45 .1 =4'5.771 .67>.67 <.8 '?1E.6 '-, 1 E' 75.' > 0'1=4. / .<7>.?, 66,<E1' 6641 5.6=4' 6,1> <' 1' -, 6 <6>.6 / '1;:.6 ?405 ;6%

% ,47.6 5.6 ?1,: 0 7 ,<6 '' .<71>.' >,'1,V'41 ,1>,<<..6 &5'1 5'' 5,' >4 ' / '16 >. < .18 641 5.7' #><>1'58 '41, 7 5 .4 '' . 71>.' >4 ?,17 .7 7.11 7, ' #% .' '16. 55.8 6'<6 ;.?.<>'<7 =4.'5.6 / '1;:'<> 6 ?1,: 0..68 ;:'1J..6 641 >.6 0>7 / .<76 >.' ;.<7 7, <.'4@ .7'4 >.66468 .7'V'<7 4<.'>.67 <'7 ,< 457.1 . ' ?,41 .71'<J.5E8 ?4 66.<7 I 71.'6' 6 .6%

% .'64;1.8 5.;'E.8 5.';';',8 <> J,8 5.7:.8 6'-,<8 ' / >,<8 5'' ?,4>1.E'?,4>1.18 .'4 >. ' >.' - <8 < 0 .11.8 5.6;:' 16 6'5> 8 ?'?, 66,< '4' =4.'5.%7:,< / '1 <.8 5.6:4 5.6 >.' ?, 66,<.'7 5.6' 0';68 >,<7 / ?,17'7 ,< .67?.1 / 6.'?'1 5'' 5,7>4 / '16>.1< .18 5.6; 16 7'<<.6 .7;,11,V>68 5.6 4V1'Q >.';4 18 5.6;:'?.'4@8 5.6 7 46 >.'5' <.8 >.'7 5 ;:.-1.8 >.'6, .8 >.';,7,<8 >.';:'<-1.' .7>.'5 48 7,<6 E 5.68 '471.6=4.'>4 .-'<78 5.6 5' <.6 ..68 0,411.6>.6, .;'1>` 6 .5'7 5>.685.67 ,6.55.6 .7E5.41.' 5.6 ?5, / 06 .5>7' <6 5' / <.6 ,4 '471. / .< ,4-1.68 ; -1.'>.'7,47.'6,17.8 5.'5' 7,<8 5.'01,<0.8 '1' <8 7,46 '471.6 / >7'4@'-.;'55 'J.8 5.6,4E1.8 5.6?'?.' 5'' -.11,7.1 .8 5'' ; 1.'05'<;:.8 5'' ?,1;.5' <.8 5.'5.' ,>-1.8 5'' / .1;.1 .8 5'' =4 <;' 55.1 .8 5'' 0Q,47.1 & 7,46 '471.6 ,=-1'J.6 .< ,18 .< '1J.<7 .7 .<;4 -< '<6'=4.' ;.4@>.'E.1 .7>';.18 '' .@;.?7 ,<>.6 ; <,<6 .7>.6 '<;1.68 -.<'<7>.' >71'<J.1 '' '16. 55 6.1,<7 6<Q.76 '4@>1, 76> .<71>.'>4 <,4-.'4 7'1 EI 5.6 / '1;:'<> 6.6> <J5.7.11.8 <, / / . / .<7;,<?' 6.6>'<6 5.' 71' 7>' ;,<;54 '-.;' ;.77.'?4 66'<;.8 '' >1, 76 5 @>6 ?'1 ;> 7 71' 7.% $ %

' % .6>1, 76>4 <,4-.'4 7'1 E6.1,<7 1>>4 76''9' 5.'=4 <7'58 '' >J'1>'>.67, 5.6>.';,5,< 05'<;:.6 .71'' J>1.68 .7''C ' 5 -% '466'>4 =4 <7'58 ?,41;.55.6?< -.<'<7.6>4;, / / .1;.E1'<;' 6>'<61 <>.85,16=4 .55 '41,<7 5'' >.67 <'7 ,<>.' '16. 55.%

E% .1,<7.@. / ?7.6>.'7,46>1, 76 5.6 / '1;:'<> 6 .7>.<1..68 '471.6 =4.';.55.6>><, / / >.6>'<6 5.6 '' 7 >.6 8 ' .7 ' >4 ?1.6.<7 7 71.8 / ?,17>.6 ? / .1>.' >1<<J.1'' '16. 55.I 5'' >.;5'1'7 ,<>.- <>'< / , <6 .< .71.' E' 7.' >'<6 5'' E,1 / .'?1.6;1 7.'? '17% D'>4 ?1 .<7 7 71.% .' >1, 7>.'?, >6 .7;'6 7' 7' 7<.1=4'' '16. 55.8 7'<7 1 5.6> 7.6 < '1;:'' P 6.6 .7>.<1..6 '641 7 7.6''471.68 >. / .41;' ?1 / >% %

% .1,<7 ?'1. 55. / .<7 .@. / ?7.6 >.'7,46>1,' ;.55.6>.6 / '1.<'<> 6.6 ;, / ?1 6.6 >'<6 1'17 ;5;5 >4 ?1.6.<75 71.8 .7; '?1E.6>E. J<..68 5,16=4.-.<'' >.' .71'<J.1'' '16. 55.'?'1 / .1 .55.6 >.-1,<7 97 1>.@?,17>.6 '4667 ?'1 / .1I 6'-, -85.6 7 6646 >.'5' < >.'?, 5>.;:0-1.8 >.'6, .'8 >.';,7,< 8 >.';:'<-1.'& >.'7 <8 5.6 556 1.7,168 5'' -.11,7.1 .8 5'' =4 <;' 55.1' 5'' / .1;.1 .8 5'' 0Q,47.1 .'.7 7,46 '471.6 ,4-1'J.6' ,18 '1J.<78 ;4 -1.8 E.1 .7';.1I .7 5.6 ,0Q.76 ?,17E.'' 1' 7>>.';, / / .1;.''-.;' <J5.7.11.I 5.6> 7.6 / '' ;:'<> 6.6 6.1,<7 / 6.6 .< .<71.?,7%

555% ,411,<7 '5. / .<7>71.' / 6 .< .<71.? 78 ' ?,41 5''1..@?,17'7 ,<'' .71 / J.E ?'1 / .18 =4.'?,' 5'' ;,<6, / / '7 ,<>4 1,V'4 / .8 5.6 7, 5.6>.';:'<- 6.1-'<7 ''>.6 . / 0'55'J.6 .7 -,'<7>4 ,1>8 .<1,' 5.'4@8 5.6?'? .168 <> J,8 5.';';',8 5.'7:>8 5.6 .0'' 6'5>.68 5.6?, 66,<66'5.68 '471.6 =4.'5'' / ,14.6 ;5 .7U.'7'0';8 / ?,17 6>.' .71'<J.1'' '16. 55.8 '< =4.' .6 :4 5.6>.'?, 66,<>.6 7'76 < 6> / .1=4.' ' '' % .6 / 'J'6 <6>.67 <.6 '4@ .<71.?,76 >.6Q<'' ;:'<> 6.6 =4'<.' ?,411,<7 >71.' .<71.?,6..6 =455 ;:,1J>'>.'5'' 1; .@?,17'5 ,<8 .7 >.';.55.6 = 'Q,7 1,

>;ʿ5ʺ /&\ / .ʿE'- ,41ʿ?,41ʿ5ʺ ; ,<6, / / '7 ,<ʿ>ʺ1,V'4 / .8ʿ 6.1>'7> 67 < ;768ʿ .7ʿ ; ,?.<>'<7ʿ>'<6ʿ5ʺ / ` / .ʿ.< ; . <7.% .6> 56ʿ / 'J'6 <6ʿ6.1,<7ʿ'<@ʿE1' 6ʿ>4ʿ; , / / .1; .ʿ.7ʿ6,<6ʿ 5ʺ ;5.Eʿ> 4<ʿ>.ʿ6.6ʿ?1#?,6>6ʿ .7ʿ>;ʿ ..4@ʿ>.ʿ5ʺ1>J .%

"%ʿ ʺ>41>.ʿ>.ʿ .<71.?>7ʿ6.1ʺ >.ʿ > @ :4 7ʿ / , .6ʿ / '1; : '<> 6.6ʿ>.67 <..6ʿʺ5ʺ1>.@?,17'7 ,<ʿ.7.<,<ʿ ;>.6ʿ>'<6ʿ '17%ʿ Bʿ>4ʿ?1.6.<7ʿ 5 71.ʿ ?,411,7 7ʿVʿ971.ʿ > - 6>.68ʿ.<ʿ7.55.= '<7 7>ʿ=4.ʿ; . 6 , 78ʿ ?,41ʿ E,1 / .1ʿ >.6ʿ'66,17 / .<768ʿ.7ʿ?,41ʿ>71.ʿ. / 0'1=4..6ʿ641ʿ4<ʿ,4ʿ c4 1ʿ?546 .416ʿ0>7 / ,<76

0#;55.6ʿ / .<7 ,<<; .6ʿ>'<6ʿ '17%ʿ ʿ>4ʿ / > / .ʿ7 71.8ʿ 5.67 <>.6?,415 >71'< .1,4?,41ʿ5ʺ ; ,<6, / / '7 ,<ʿ>.ʿ '16. 55.ʿ.7ʿ>.ʿ <7>1 .41ʿ>4ʿ1,V'4 / .8ʿ <.?,411,<7ʿ >71.ʿ1;5 1>.6ʿ>.ʿ .< 1.? 7ʿ=4.ʿ?'1ʿ; ' 66.ʿ8ʿ7,<<.'4@8ʿ 0'55.6ʿ,<ʿ0'55,76%

" ʿ .6ʿ / '1; : '<> 6.6ʿ =4 8ʿ ?.<>'<7ʿ5.6ʿ > @ :4 7ʿ / , 6ʿ>.ʿ5ʺʿ>41>.ʿ>.ʿ .<71.?07ʿ.<ʿ6,1,<7ʿ1.7 1>.6ʿ?,41ʿ 1>71'<J .18< ' ;=4 77.1,<7'' ;<<ʿ>1, 7Iʿ ;>5 .6=4ʿ .<ʿ 6,17 1,47ʿ?,41ʿ5ʺ ><6, / / '7 ,<ʿ>= '16. 55.ʿ8ʿ .7ʿ>.ʿ 7,47ʿ'471.ʿ5 .4ʿ>7Eʿ1,V'4 / .8ʿ ,4ʿ=4 6.ʿ 71,4-.1,<7ʿ.<ʿ #<71.?>7ʿ'?1.6ʿ .@? 1'7 ,<ʿ>4ʿ>>5''ʿ>.ʿ> @ :4 7ʿ / , 68ʿ ?' .1,<7Iʿ6'- , 1ʿ8ʿ5.6ʿ7, 5.6ʿ> . / 0'55'J.8ʿ ʿ5 -%ʿ?'1ʿ =4 <7'58ʿ.7ʿ5.6ʿ '471.6ʿ .6?...6ʿ>.ʿ / '1; : '<> 6.68ʿ5.6ʿ >1, 76ʿ> .<71>.ʿ>4ʿ<,4-.'4ʿ5'1 E%

" %ʿ ʿ <.ʿ?,411ʺʿ>71.ʿ1.7 1.ʿ>.ʿ .<71.? 7ʿ'4; <<.6ʿ / '1; : '<> 6.6ʿ=4.ʿ641ʿ4<ʿ?.1 / 6ʿ>> -1>ʿ'4ʿ041.'4ʿ>.ʿ 5ʺ1.J .8ʿ - 6>ʿ?'1ʿ5.6ʿ ?1,?,6.6ʿ' 5ʺJ'1>.ʿ>.6ʿ / 'J'M 6 <68ʿ.7ʿ '?1. ʿ5ʺ - 6 7.ʿ>.6>5.6ʿ / '1; : '<> 6.6Iʿ; .55.6ʿ .@?>> >.6ʿ?,41ʿ1>71' J.1ʿ?,411,<7ʿ>71.ʿ'#; , / ?'J<>.6ʿ Q46=4 ʺ0,1>ʿ>.6ʿ0>7 / .7'76ʿ?'1ʿ5.6ʿ ?1>?,6>6ʿ>.ʿ5ʺ1>ʿ J .Iʿ .7ʿ 5.6ʿ ,0Q.76ʿ >.67 <.6ʿ ʺ 5ʺ ; ,<6, / / '7 ,<ʿ >4ʿ 1,V' / .ʿ6.1,<7ʿ71'<6?,17>6ʿ '4ʿ041.'48ʿ ʺ .5E.7ʿ> V ' ;=4 77.1ʿ5.6ʿ>1J 76%8

" %ʿ .6ʿ 0.67 '4@8ʿ5.6ʿ - <68ʿ5.6ʿ : , 6ʿE.4 55'1>6ʿ.7ʿ ' / 41; ʺ ,4ʿ / '1;ʿ> ,5 - .8ʿ6.1,<7ʿ'664Q.55 6ʿ'4@ʿ>1,556ʿ >4ʿ<,4-.'4ʿ7'1 Eʿ ʿ5ʺ6,17 .ʿ>.ʿ '16. 55.ʿ?,41ʿ >71'<ʿ J .18ʿ ʺ .@; .?7 ,4ʿ>.ʿ; .4@ʿ>.67 <>6ʿʺ1'??1, - 6 <<; ʿ / .<7ʿ>.6ʿ.=4 ?'J.6ʿ>.6ʿ<'- 1.6ʿ 1'<J' 68ʿ ,47.6ʿ'471.6ʿ >.;1..6ʿ ,4ʿ / '1; : '<> %6.6ʿ 6.1,<7ʿ .@?,17; .6ʿ>.ʿ '1M 6. 55.ʿ.<ʿE1'<; : 6.%

$ " 8ʿ .6ʿ / '1; : '<> 6.6ʿ .@. / ?7.6ʿ>.ʿ>1, 76ʿ ʺ .<ʿ 71>.ʿ >.F '16. 55.ʿ ?,411,<7ʿ>71.ʿ- 6 7..6ʿ641ʿ5.6=4' 6ʿ '4ʿ>>0'1=4. / .<7ʿ,<ʿ ' ʿ041.'4ʿ>.ʿ5ʺ1>J .8ʿ'4ʿ. , @ʿ >4ʿ?1,?1 >7' 1.ʿ ,4ʿ; ,<6 J<'7' 1.%ʿ ʿ .<6.1ʺʿ>.ʿ / > / .ʿ ʿ>.ʿ ; .55.6ʿ =4ʿ 6.1,<7ʿ .@?>> >.6ʿ?'1ʿ / .1ʿ>.ʿ ; .ʿ?,178ʿ 6, 7ʿ?,41ʿ5.ʿ1,V'4 / .8ʿ6,Q7ʿ?,41ʿ >71'<J.1%ʿ .6ʿ,0Q.76ʿ 6,4 / 6ʿ'4@ʿ>1, 76ʿ> .<71>.ʿ6.1,<7ʿ - 6 7>6ʿ>'<6ʿ5.ʿ04M 1.'4ʿ>.ʿ5ʺ1.J .8ʿ .7ʿ; .4@ʿ=4ʿ>.-1,<7ʿ>71.ʿ.<71.?,6.6ʿ 5,16ʿ>.ʿ5.41ʿ / 6.ʿ .<ʿ.<71;? 7%

" %ʿ .6ʿ ?1>?,6>6ʿ >.ʿ5ʺ 1>J .ʿ<.ʿ?,411 <78ʿ>'<6ʿ '4;4<ʿ ; '68ʿE'Q1.ʿ ʺ0,1>ʿ>Wʿ0>7 / .<76ʿ7 ,4-.1741.ʿ > '4;4<.ʿ0'55.8ʿ; ' 66.ʿ,4ʿE47' 55.8ʿ?,41ʿ.<ʿ->1 E .1ʿ5.ʿ ; ,<5.<48ʿ <ʿ'4;4<.ʿ '471.ʿ1..E'.1; : .ʿ>'<6ʿ <7>1 .<1ʿ >.6> 76ʿ0 7 / .<56Iʿ / ' 6ʿ6 8'?1>6ʿ5ʺ>>;5'1'7 ,<ʿ.7ʿ?.<M >'<7ʿ5.ʿ ; ,416%>4ʿ>>; : '1J. / .<78ʿ 56ʿ '?.1; .-' .<78 ?'1 / ʿ5.6ʿ,0Q.76ʿ>. ;5'1.6ʿ?,41ʿ 4<.ʿ>.67 / '5 ,<ʿ457>ʿ 1 .41.ʿ.7ʿ6'<6ʿ .<71; ?#78ʿ=4.5=4.ʿ0'55.8ʿ; ' 66.ʿ,4ʿE4M 7' 55.ʿʺ >J'1>ʿ>;6=4.55.6ʿ 56ʿ6,4?.,<<.1' .<7ʿ5ʺE' 6ʿ 6.7>ʿ>.ʿ5ʺ >>;5'1'7 ,<8ʿ 56ʿ '41' .<7ʿ5ʺE' ;457.ʿ>.ʿ5.6ʿ E' 1;ʿ71'< ?,17.18ʺ5.416E1' 68ʿ'4041.'4ʿ>.ʿ5ʺʿ>,4'<.8ʿ ?,41ʿV >71.ʿ- 6 7; .6ʿ.<ʿ?1.6.<; .ʿ>4ʿ; '?7' <.ʿ>.ʿ<' ʿ - 1.8ʿ,4ʿ>.ʿ 4<ʿ>.ʿ; .6ʿ ,E5 ; .16%ʿ '<6ʿ5.ʿ; '6ʿ, :ʿ'?1.6ʿ 5ʺ - 6 7.ʿ5ʺ>>;5'1'0,<ʿ6.1' 7ʿ1. ; ,<<4.ʿ6 <; .1.ʿ .7ʿ ->ʿ 1 7'05.8ʿ5.6>7.6ʿ / '1; : '<> 6.6ʿ6.1' .<7ʿ1. / 6.6ʿ.<ʿ0,<ʿ .7'7ʿ .7ʿ1;?=17>.6ʿʺ 0,1> ʿ>J'5. / ;<7ʿ'4@ʿE1' 6ʿ>.6>76ʿ ?1>?,6>6Iʿ6ʿ'<ʿ; ,<71' 1.ʿ5ʺE'466.7.ʿ; 6ʿ71. ; ,<<4.8ʿ5.6ʿ ?'1; : '<> 6.6ʿ6.1,<7ʿ6' 6 .68ʿ<,<,067'<7ʿ ' / .<>.%

" %ʿ .6ʿ ; '?7' <.6ʿ>.ʿ<'- 1.ʿ<.ʿ ?,411,<7ʿ; , / ʿ < .<; .1ʿ5.41ʿ. / 0'1=4. / .<7ʿ,4ʿ>>0'1=4. / .<7ʿ=4ʿ' ?1>6ʿ '- , 1ʿ?1 6ʿ4<ʿ?.1 / 6ʿ>.6ʿ?1,?,6.6ʿ>.ʿ5ʺ1.J .Iʿ 5.6ʿ / '1; : '<> 6.6ʿ 4Q.77.6ʿʺ>.6ʿ>1, 76ʿ,4ʿ>.67 <..6ʿʺ .<71.?>7ʿ <.ʿ ?,1 11,<7ʿ>71.ʿ. / 0'1=4..6ʿ ,4ʿ >.0'1ʿ = >.6ʿ=4.ʿ641ʿ>.6ʿ?.1 / 6ʿ?'17 ;45 .16ʿ>.6ʿ< >< ;6ʿ?1.

.6ʿ / '1; : '<> 6.6ʿ.E1'<J 1.68ʿ71'46?,17>.6ʿ2ʿ '1M 6. 55.ʿ?'1ʿ / .18ʿ .7ʿ; ;55.6ʿ.@?>> >.6ʿʺ5ʺ >.67 <'7 ,<ʿ>,ʿ .71'<J .18ʿ ?,411,<7ʿ>71.ʿ- .16>.6ʿ>.ʿ0,1>ʿ ʺ 0,1>ʿ.<ʿ .@. / ?7 ,<ʿ>.ʿ7.<6ʿ>1, 768ʿ ʺ 5ʺ ; : '1J.ʿ>.ʿ ?1.<,1.ʿ 6%J'5. / .<74<ʿ?.1 / 6 ʿ .7ʿ5.6ʿ?1>?,6>6ʿ ?,411,<76 1 ʿ - . 55.1ʿ5.6ʿ- .16. / .<76ʿ>.ʿ0,1ʺʿ0,1>%

- ʿ%%ʿ &ʿ ʿ ʿ ʿF ʿ ʿ ʿ

3

17%ʿ5 1% .6ʿ / '1; : '<> 6.6ʿ=4ʿ?'66.1,<7ʿ>.ʿ5ʺ - 55.ʿ .7ʿ>4ʿ7.11 7, 1.ʿ>.ʿ '16. 55.ʿ>'<6ʿ5.ʿ 1,V'4 / .8ʿ6'<6ʿ Q 67 5 .1ʿ>.ʿ7 ' ;=< 7ʿ>.6ʿ>1, 76ʿ>4ʿ <,4-.'4ʿ5'1 Eʿ<'V>6ʿ ʿ .<71>.>.ʿ; .77.ʿ- 55.8ʿ,4ʿ>4ʿ; .17 5 ; '7ʿ>.ʿ5.41ʿE'01 M ; '7 ,<ʿ>'<6ʿ5'>7.ʿ - 55.ʿ.7ʿ7.11 7, 1.8ʿ>> -1>ʿ?'1ʿ5.6ʿ ,E5 ; .16ʿ / 4: ; ?'4@ʿ>.ʿ5ʺ - 55.8ʿ.7ʿ - 6>ʿ?'1ʿ5.6ʿ?1>M ?,6>6ʿ>.ʿ5ʺ>,4'<.8ʿ' ;=4 77.1,<7ʿ; .6ʿ>1, 76ʿ'4@ʿ04M 1.'4@ʿ>.ʿ5ʺ1>J .ʿ>7'05ʿ6ʿ641ʿ5.6ʿ5 / 7.6ʿ>4ʿ7.11 7, 1.8ʿ ,4ʿ'4@ʿ; <71>; 6ʿ>4ʿ1,V'4 / .%

%ʿ .6ʿ :4Q5.6ʿ> ,5 - .8ʿ .@?>> >.6ʿ >.6> 76ʿ - 55.ʿ.7ʿ 7.11 7, 1.ʿ?,41ʿ5.6ʿ'471.6ʿ?'17 .6ʿ>4ʿ1,V'4 / .8ʿ; ,<7 ʿ <4.1,<7ʿ>ʿ.71.ʿ ' ; ; , / ?'J<>; 6ʿ>4<.ʿ.@?>> 7 ,<ʿ>.ʿ5ʺ >,4'<.ʿ>.ʿ5'>7.ʿ1 5Q.ʿ?, 1ʿ; ,467'7.1ʿ5.41ʿ,1 J <.8ʿ.7ʿ 5.6ʿ>1, 76ʿ.<ʿ6.1,<7ʿ?'V.6ʿ64 - '47ʿ5.41ʿ.6?.; .8ʿ; ,<E,1ʿ / > / .<7ʿ'4ʿ7'1 EʿJ><>1'5%

%ʿ ,41ʿ>- 7.1ʿ=4.ʿ>.6ʿ 4 5.6ʿ >.ʿ5ʺ ;>7.ʿ > 57'5 .ʿ 6, .<7ʿ?1>6.<7>.6ʿ'4@ʿ041.'4@ 1.<71>.ʿ; , / / .ʿ:4 5.6ʿ >4ʿ .-'<7ʿ,4ʿ> '471,6ʿ=4ʿ5 7>8ʿ <E>1 .41.68ʿ'5<ʿ> ' ; ʿ =4 77.1ʿ4<ʿ / , <>1.ʿ >1, 78ʿ5ʺ / 4< ; ?'5 7.ʿ>.ʿ '1M 6. 55.ʿ'11>7.1ʺ7,46ʿ5.6ʿ / , 6ʿ4<ʿ>7'7ʿ>4ʿ?1 @ʿ>.6ʿ:4 5.6ʿ ; , / / 4<.6ʿ .7ʿ>.6ʿE1' 6ʿ>.ʿ71'<6?,17 '4@ʿ> - .16ʿ?,176ʿ >4ʿ1, '4 / .8ʿʺ1' 6,<ʿ>4ʿ=4 <7'5ʿ?, >6ʿ>.ʿ / '1;%ʿ <ʿ >,405.ʿ>4>7ʿ>7'78ʿ] J<>ʿ?'1ʿ5.6ʿ ,E5 ; .16ʿ / 4< . ?'4@8ʿ 6.1ʺ 1. / 6ʿ'4ʿ041.'4ʿ ʿ5ʺ1>J .ʿ ʿ '16. 55.Iʿ.7ʿ; ʿ ?1 @ʿ>.6ʿ:4 5.68ʿ; ,<E,1 / .ʿ . 7ʿ'4ʿ / > / .ʿ.7'786 .1ʺ ?,17>641ʿ5.6ʿ .@?.>7 ,<6%ʿ ,16=4.ʿ5.6ʿ?1>?,6>6ʿ>.ʿ5'ʿ 1.J ;8ʿ'4@ʿ5 .,@ʿ>.ʿ>.67 <'7 ,<8ʿ6,4?; ,<<.1, 7=4.5.6ʿ :4 5.68ʿ =4ʿ 5.41ʿ6.1,<7ʿ?1.6.47>.6ʿ ;4 / / .ʿ >7'<7ʿ>.ʿ =4'5 7>ʿ 7 E>1 .41.8ʿ6,<7ʿ4.ʿ5ʺ .#7.ʿ> 57'5 .8ʿ56ʿ?,41M 1,<7ʿ5.6ʿ1.7. 1ʿ .<ʿ?'V'<7ʿ5.41ʿ- '5.418ʿ' 6ʿ= .55.ʿ 6.1ʺ?,17..ʿ'4@ʿ.@?.> 7 ,<68ʿ.7ʿ5.ʿ> @ > / .ʿ.<ʿ646%

%ʿ .6ʿ ?1,>4;7 ,<6ʿ>.6ʿ7'01 =4.6ʿ>.ʿ '16. 55.ʿ.7ʿ >.ʿ6,<ʿ7.11 7, 1.8ʿ'; ; , / ?'J >.6ʿ>.ʿ; .17 5 ; '76ʿ>.ʿ5ʺ / 4< ; ?'5 7.ʿ- 6.6ʿ?'1ʿ5.6ʿ?1>?,6>6ʿ>.ʿ5ʺ>,4'<.ʿ ' ʿ 7 ,4'5.ʿ>.ʿ5'>7.ʿ- 55.ʿ<.ʿ?' .1,<78ʿʺ5.41ʿ?'66'J.ʿ'4@ʿ 041.'4@ʿ6 74>6ʿ641ʿ5.6ʿ5 / 7.6ʿ>4ʿ7.11 7, 1.ʿ ,4ʿ'4@ʿ '471.6ʿ .<71..6ʿ>4ʿ1,V'4 / .8ʿ> '471.6ʿ>1, 76ʿ=4.ʿ; .4@ʿ E @>6ʿ?'1ʿ5.ʿ7'1 Eʿ=4ʿ6.1ʺ '<<.@.ʿ'4ʿ?1.6.<7ʿ>.; 1.7Iʿ 5.6=4. 6ʿ6,<7ʿ1>J >6ʿ?1,?,17 , / .55. / .<7ʿʺ 5ʺE1'<M ; : 6.ʿ>,<7ʿ5.6> 7.6ʿ?1,>4;7 ,<6ʿQ,4 66; 7ʿ641ʿ5.6ʿ / ' ʿ 7 >1.6ʿ.<71>.6ʿ>'<6ʿ5.41ʿE'01 ; '7 ,<%ʿ .6>76ʿ; .17 5 ; '76ʿ < '41,<7ʿ; .?.<>' 7ʿ5.41.EE.7ʿ?,41ʿ; .ʿ=4ʿ6.1ʺ.@?.> >ʿ ?'1ʿ / .18ʿ =4 '47'<7ʿ =4.ʿ1. / 0'1=4. / .<7ʿ '41ʺ >7.ʿ ; .17 E >ʿ?'1ʿ5.6ʿ; / ?5,V>6ʿ>;ʿ5ʺ 1>J .ʿ641ʿ5.ʿ?,17%

#.55,6ʿ >.67 >.6ʿ?, 1ʿ5ʺ#,16.ʿ6.1,<7ʿ .@?>> >.6ʿ; ʿ E1'<; : 6.ʿ>.ʿ>1, 76%ʿ $

%ʿ .6ʿ ,0Q.76ʿ / '<4E' ; 741>6ʿ >'<6ʿ5.ʿ1,V'4 / .8ʿ; 7ʿ =4ʿ'41,<7>7>.@?>> >6?,41ʿ '16. 55.8ʿ?,411,<7ʿ>71.ʿ 1.?,17>6ʿQ '1ʿ7.1E.ʿ>'<6ʿ <7>1 .41ʿ>4ʿ1,V'4 / .ʿ ,41ʿ 6ʺ ; ,<6, / / '7 ,<8ʿ.<ʿ' ;=4 77'<7ʿ'4@ʿ041.'4@8ʿ?'; >6ʿ 641ʿ5.6ʿ5 / 7.6ʿ>4ʿ7.11 7, 1.8ʿ5.6ʿ>1, 76ʿ; <, ;>6ʿ.<ʿ '1ʿ 7 ;5.ʿ ʿ; >.6646%

%ʿ .1,<7ʿ; .?.<>'<7ʿ .@. / ?7#6ʿ >.6> 76ʿ >1, 76ʿ5.6ʿ 5 > / .6ʿ / '1; : '<> 6.6ʿ -.<4.6ʿ>.6ʿE'01 =4.6ʿ>.ʿ <7>M 1 .41ʿ ʿ '16. 55.8ʿ=4.ʿ ,<ʿ.<-.11ʺʿ'4ʿ5 .4ʿ>.ʿ5ʺEʿ ʿ 01 =4.ʿ?,41ʿ5.6ʿVʿE' 1.ʿ1>?'1.18ʿʺ5ʺ ; : '1J.ʿ>.ʿ?1.<M >1.ʿ ' ;=4 72ʿ; '47 ,<ʿ641ʿ5'6,4 / 66 ,<ʿ>.ʿE' 1.ʿ1. 71.1ʿ ʺ '16. 55.ʿ5.6> 7.6ʿ / '1; : '<> 6.68ʿ>'<6ʿ7; ʿ>>5'ʿ>. 65@ʿ / , 6%

%ʿ .6ʿE'01 ; '<76ʿ>.ʿ5ʺ - 55.ʿ.7ʿ7.11 7, 1.ʿ>;ʿ '1M 6. 55.ʿ?,411,<7ʿE' 1.ʿ?'66.1ʿ?'1ʿ7.1 .8ʿ>'<6ʿ <7>1 ;41ʿ >4ʿ1,V'4 / .8ʿ5.6ʿ / '7 >1.6ʿ?1. / .1.6ʿ=4ʿ ,47ʿ0.6, ʿ >;ʿ1; ; .-, 1ʿ=4. =4.6ʿ'??1.76ʿ'-'<7ʿ>ʿ.71.ʿ7< 6.6ʿ.7ʿ ,.4-1.8ʿ.7ʿ5.6ʿ V E' 1.ʿ1.?,17.1ʿ'?1.6ʿ= .55; 6ʿ'41, 7ʿ >7;ʿ '??1>7>.6Iʿ5.ʿ7,47ʿ.4ʿ .@. / ?7 ,<ʿ>.ʿ>1, 76ʿ.#;4ʿ_

>,<<'<7? '1'5.6> 76E'01 ;'<768 .]' 6,4 / 66 , 6<> ;.66' 1.6'<'041.'4'>.'5''1 J .'?,41'6641.1'5.'1.7,418 >'<6'5.'>.7'' '>.'6 1'/ , 6>.6> 7.6 /'7 / .6'??1 7 68 ,4'5.'?' . / .<7>4'>1, 7> .<51.. '6 ' .<' .67>>%

8 .6E'01 ;'<76>.1 <7><.<1>41,V'4 / .8 =4' 'V'<7 05'<;: ' ,4 E'01 =4>' >.6 ; 1.6 ;71'<J 1.6>.6M 7 < .6' ''5'' 1..@?,17'7 ,<8'5.6E.1,<7 1.66,17 1'?'1 '1' 6. 55.8 ;,<7 <4.1,<7 ''1.;.-, 1'5.'1 / 0,416.1'.<7>.6 >1, 76' ;=4 77 6'' .<71 .'641' ;.6 ; 1.6-.<4.6 .<Q'4<.8 ''5'' ; : '1J.' >.'Q467 .1' >4' ?'66'J.' >.6> 7.6 ; 1.6 , ' V1. .6 '' 4<' >.6 041.'4@'6 74>6 641'5.6'5 / 7.6 >4'7;1' 1 7, 1.8>.'5.41'.<71.? 7 '' '16. 55.8 6 ' .55.6V ,<7 6; ' Q,41<.8 .7>.'5.41'.40'1=4.4E .<7>'<6 ;.'?,178 ;, / / .' .<;,1.'>.'1'??,17.1' ';=4 7 >.6 >1, 76 > .<71 .'>.5 ' -1 '>'<6'5.6 >.4@''<< .6''<7>1 .41.68

.' / / .'1. / 0, 16. / .<7 ;,<7 <4.1'' ''-, 1'5 .4' .7 6'<6 '4;<7 .'>.>4;7 ,<8 41'7,47.6'5.6 ; 1.6 05'<;: .6 ,4' '471. / .<7 ,4-1>.6 =4 '6.1,<7 1.<-,V>.6>4'1,V'4 ' / .' '' >71'<J.18 =4.5 =4.'6, 7 5.'041.'4'> / ?,17'' ' 7 ,< .7> >@?,17'7 ,<8 .<'Q467 E '<7>.'5''=4 77'<;.'>4' >1, 7> .<71>.%

"8 ' .6 / '7 >1.6?1. / >1.68<>;.]6' 1.6'' '5 >.6 / '<4E';741.6 >.' '16. 55.8 ?,411,<7 ?'66.1'>.' 1 47>1 .41'>4'1,V'4 / .' '' '16. 55.'.<'.@. / ?7 ,<' >.' 7,46 >1, 768 / ' 6 6.45. / .<7Q46=4 ''5'' ;,<;411.<;.' >.6 =4'<7 7>6 =4 '6.1,<7>>7.1 / <>.68 ; : '=4.' '<<>.8 ?'1'5.'> 1.;7, 1.'>4' >>?'17. / .<78 641' '- 6 >.' ;.: ' >4'> 671 ;7 .7> '?10'5'' >. / '<>.'>.'5'' / 4< >?'5 7>I ;.6 ,0Q.76>.- ,<7.71.'';;, / ?'J<>6>.'?'66'-'<76>.' 5 -1>6 ?,41' 5.6> 7.6 =4'<7 7>6 ?'1' 5.6 ?1>?,6>6 >4' 041.'4'>.'5'> 7.' - 55.%

-$ ' #.7 '17 ;5.'.67%1.<1,V>''' 4<' <,4-.5 .@' / .< >4' ;, / 7>%

"8 .6 0.67 '4@8 5.6 - <68 5.6 0, 6 >.;: '4E 'J.8 >. ;,<6714;7 ,<' .7E.4 55'1>68 .E7,46'5.6 ; : '10,<68?,41M 1,<7>J'5. / .<7 ?'66.1'>4'1,V'4 / .' ' '16. 55.'.7>'<6 6,<'7.11 7, 1.'.<' .@. / ?7 ,<'>.'>1, 768 .<'7.55.'=4'<7 7>' =4.';.'6, 5% %

" ' .6 / '1;: '<> 6.6 .7 >.<1>.]' <,< ;, / ?1 6.6 >'<6'5.6 '17 ;5.6 ''.7 ''; >.6646 6.1,<7 64Q.57.6 '< ?'66'J.8 >.'7.5'5 .4'>4'1,V'4 / .' =4.' ;.'6, 5 >'<6 5'' V 55.' .7 7.11 7, 1.'>.' '16. 55.8 '4@>1, 76 .7 ?1, : 0 M 7 ,<6 =4 ' ,47'5 .4' ''7, 7.6'5.6 6,17 .6>4'1,V'4 / .%

" % .6 / '1;: '<> 6.6 .7>.<1>.6 =4 '>.-1,<7?'66.1' > 4<'5 .4 ''4<' '471.'>4'1,V'4 / .8 ?'1' . / ?14<7 >.' 5'' - 55.' .7 7.11 7, 1.' >.' '16. 55.8 6.1,<7 .@.< ?7.6 >.' 7,46 >1, 768 2'5'' ;: '1J.8 6 ' .55.6 6.<7 71'<6?,15>.6 ?'1' / .18 >.' <.'?,4-, 1' .71.% ; : '1J>.6 =4.'641' >.6 0'7 ' / .<76E1'<=' 68 > >71.' .@?>> .6 ?'1'';=4 7 '' ;'47 ,< ?1 6 '4@'5 .4@' >.';: '1J. / .<78 .7> >71.' < 6.6.<.<' 71.?978 ;, / < .' 5 .67 1. J5>' ?'1' '17 ;5.' '>4'5 71.' ?1. / .1'>4' ?1.6.<7> ;1.7I .7 6 ' . .67 ?'1'7.11.8 > .71.' ?'1. 55. / .<7.@? > >.6 ?'1'';=4 7<';'47 ,<'>.5 -1.''4' ?546 ?1,;: ' <' 041.'4' >.6 5 .4@' >.<5E.-. / .<7 '-.;' >.67 ?'7 ,<' ?,41' .<71.?>7% .' >.5'' >4> 7 .<71.?>7 6.1'' >.' 6 @' / , 6I .7 ;.' 7.1 / .' .@? 1.8 5.6 >1, 76 >.' 6,17 .8 6 5 .<' >7' 7>>''5''>.67 <'7 ,<' >.' '16. 55.8 6.1,<7 ';=4 77>6%

" % .6 / '1;: '<> 6.6 .7>.<1>.6 =4 '6.1,<7 1;7 ' 1>.6 >.' .<71.?>78 ?,41>71.'71'<6?,17>.6?'1' / .1'>'<6 4<''471.'?,17 >.'H1'<;.8 <.'?,411,<7>J'5. / .<7>71.' ;: '1J..6 =4.6410 7 / .<76E1'<;' 6I .55.6 6.1,<7 ';' ;,< ?'J<>.6> 4<'';=4 7 '';'47 ,<8 6 ' .55.6 6.<7 64Q.77.6 '4@'>1, 76>.'6,17 .'>4'<,4-.'4'7'1 E8 4 6'5''6,17 .'>4' 1,V'4 / .'.<'.67 ?1, : 0>.I .7> 4<'6 / ?5.'?'66'-'<78 6 ' .55.6 6,<7 .@. / ?7.6 >.6 >1, 76 >.'6,17 .%

#.55.6 =4 '>.-1,<7 1.<71.1'>'<6 <7 1 .41'>4'1,V'4' < .'?'1'5.'7.11 7, 1.'>.' '16. 55.'6.1,<7 .@?>> >.6 ?'1' ';=4 7 '' ;'47 ,<' ?,41'5.'?1. / .1'041.'4'>' .<51>.% Q

-.1E' '4@' '1 / . / .<76 ?,41'5.' ;, / / .1;.' E1'<J' 6 '4' >.5 ' >4' ;'?' K,<<. 6?>1'<..8 .7 '4' ;, / / .1;.'>.6 ;,5,< .6 E1'< ' 6.68 6,17 ?,41'5.'>>?'178 6, 7 ? [1'5.' 1.7,418.<',06.1-'<7 5.6E,1 / '5 7>6 =4 '6.1,<7 ; '?1,6 ?1.6;1 7.6%

E% .6 / '7;: '<> 6>6 64Q.77.6 ''>.6 >1, 76 '' .<71>.' >4'1,V'4 / .8 .7 =4.' ,<'-,4>1'' ; : '1J .1' >'<6 5.6 - 55.' .5 7.11 7, 1.'>.' '16. 55.8 '' 5'' >.67 <'7 ,<'>.6 ;, / M / .1;.6 .<,<;.6 ;<' '17 ;5.' ; '>.6646 8 6.1,<7 ;,<>' ' 7.6 '4' 041.'4'>.6 >.<1>.6 ; ,5,< '5.6 >7'05' .<'5'>7.' - 55.% 55.6 V ' ;=4 77.1,<78 '?1>6 >.;5'1'7 ,< .7 - 65.8 5.6 >1, 76 > .<71..'>4'<,4-.'4'7'1 E8 .7 6.1,<7 .<64 7 . / 0'1=4>.6 641'4<'?.1 / 6 >.6 ?1.?,6.6 >.'5''1>J' '4> 7 041.'4%

.6 ;: ' 1685'1>68 0.411.68 6' / ,<6 6'5.6 .7 ;:'< >.55.68 6.1,<7 6.'56 .@. / ?76 >4> 7 >1, 78 =4, =4 ; : '1J.6 '' '16. 55.%

% ,4 1,<7 .J'5. / .<7 >.' .@. / ?7 ,< >.' 7,< >1, 76 ?,41'5.6> 7.6 >.67 <'7 ,<68 5.6 / '1;: '<> 6.6 >.' / '<4E';741.6 >.' '16. 55.'8 641'5'' .?1.6.<7'7 ,<'>.' ;;17 5 ;'76>.'E'01 ;'7 ,<'>.5 -1>6 ?'1'5.6 ,E5 ; .16 << /<<7?'4@I / ' 6 5.6> 7.6 / '1;: '<> 6.6 <.'?,411,<7>71 . / 0'1=4..6 =4 '-.;'5.'?.1 / 6 >4' ?1.?,6.'>4' 041.'' >.6 >.<1.16 ;,5,< '5.68 =4 ' 6.1''>.5 -1>' '?1:6 5''>'' ;5'1'7 ,<' .7 5'' - 6 5.%

% .6>.41>.6 .7 / '1;: '<> 6.6 .@?.> ..6 >4'1,V'' / .'?,41' '16. 55.8 ''5''>.67 <'7 ,<' >.' 5<>..7>.6 > 7.6 ;,5,< .68 6.1,<7?'1. 55. / ;<7 .@. / ?7.6 >.7, ' >1, 768 / ' 6 ''5'' ;: '1J.'> >71.' .@?.> ..6 ?'1'';=4 7S ;'47 ,<8 >.5 -1.8 6 ' #5.67 ?'1' / .1'8 '4' 041.'<>7 ?,17>.' . / 0'1=4. / .<7I .7 6 ' . .67 ?'1' 7.11.8 ' 4<' >.6 041.'4@'6 74>6 641'5.6'5 / 7.6 >4'7.11 7, < >.' '16. 55.8 '' .EE.7 > '6641.1'5.41' .<71.?E571>.7' 5.41''11 ->.' '' '16. 55.8 5.41' . / 0'1=4. / .<7 .7 5.[' >.67 <'7 ,<%

% .6 ;'?7' <.6 >.'<'- 1.' -.<'<7>.67 .6 .7 ;,M 5,< .6 E1'<=' 6.6 '' '16. 55.8 6.1,<7 '66 Q.77 6 ' / / > / .6>>;5'1'7 ,<6 .7>1, 76 =4.'>'<6'5.6 '471.6?,17 ,4-.;76 '' ;.';, / / .1;.%

% .6 .,7,<6 .<' J1' <.' .7 .<' 5' <.'>.6> 7.6 ;,5,M < .6 6.1,<7 / 68 ''5.41''11 ->.' '' '16. 55.8 .<' .<71.8 ?>71 .7 6 56 .<'6,<7 1.7 1>6 '471. / .<7 =4.'?,41' .<7.;' >'<6%5.'1,V'4 / .' ,4' >'<6 5'' - 55.'>.' '16. 55.8 ?,'' 46'J.' >.' 6.6 E'01 =4.6 >'<6 5.6 ?1,?,17 ,<6 =4 '6.M 1,<7>.7.1 / <>.68 ;, / / .' 5 .67 ?1.6.<7 ?'1' '17 ;5.' ''>4'5 71.' 8 56 6.1,<7 64Q.76 '4'=1, 7>.' C5 -1.6?'' =4 <7'5%

% 4' / ,V.<' >.6 > 6?,6 7 ,<6 ?,17>.6 ?'1' '15' ;5.' '>4' ?1>6.<7 5 71.8 .7>.' ;.55.6 ><,<;..6 .< '17 ;5.' '> '5 71.'?1. / .18 5.6 64;1.68 / > / .'1'E5 <>685.';';',8 5.';'E>' .7 <> J,'Q '66. 7 >.' '16. 55.'>'<6 5.6 '4' 71.6 ?'17 .6>4'1,V'4 / .'?' .@. / ?7 ,<'>.'>1, 768 ?,41' -4'=4 56 6, .<5';;, / ?'J<>6 >.'?'66'-'<76I 5.6 '47 7 / '1;: '<> 6.6 >.6 ;,5,< .6 E1'<?' 6.66.1,<78 '5'' />' >.67 <'7 ,<8 64Q.77.6 '4@' >1, 76 >4'<,4-.'4'7'1 E8 ' <, <6 =4 ''5.41''11 ->.' .55.6 < ' .<7 .5>' / 6.6 .<;' 71.?978 5'<6 ;.' >.1< .1 ;'68 .55.6 6.1,<7 '466 .@? ' > >.6 ?'1'?'66'-'<7 ?,41'5.'?1. / .1'041.'4'>.<71..

% ,41>- 7.1' =4.' ,<' '??5 =4.''4@ ;'E.6>W .-'<7 H.@. / ?7 ,<'>.6 >1, 76 >,<7Q,4 1,<7 5.6 ;'E' >.6 ;,5,< .6 E1'<J' 6.6 / ?,17>6>.' '16. 55.'>'<6 7 1,V'4 / .8 5'' E1'<;: 6.'';;,1>..' ' ;;4@ ; <.<,4 /' '-, 1'5 .4' =4 '47'<7 =4 56 ?'66.1,<7 ?'1' 4< >.Q04M 1.'4@'>.' .?7> / .68 5'' ><.6 .7 5'' ! '-,77.8 .7 5.6 ?1.' ?,6.6 '4@> 76 041.'4@' ?,411,<7 1.7.< 1'5.6 ;'E.6 =4' 5.41' 6.1,<7 ?1>6.<7>6 ;, / / .'?1,-.<'<7>.6 ;,5,< .68 .<'?'V'<7 5.'?1 @>.6> 76;'E. 68 > '?1.6 >7'7> .-'5 [' 7 ,<'>.6>.<1>.6 ;,5,< '5.6 '11>7>' ?,41' '<<..%8 ;5E7 > @ . / .'.<'646%

<< D@J >* ' ' ' A ' ' > @ ' ' ' '! * ')- > 1

8 17% W1' .' ' ' F ';,<7 <4.1''> >71.' ,GW

, '& ' '

4.@>.47 ,<'17.6 E,1 / '5 7>6 ?1.6;1 7.6 ?'15.671, 6 5 71.6 ; >.%6646 '664Q.77 1'' 5.68 ;,<51;-;<'<76 ' ' ?[<.6 ?,17>.6 ?'1' .6 Q, 6 J><>1'5'6 >'<6 7,46 ;6;'6

'4@=4. 6 5'< V' '41''?'6'E 5.' ' '1, J.'?'1YW'?1.6.<7>>.1.7'
% .V< .1' '<<,<#.'=4 5'?1.6.777.1'' >'<6'5'' 67'<; .'$
>.'>. / ' <'5.'?1,Q.7' >4' * '=<' >, 7' 71.' '<<.@.' '4'
>>;1.7% 8

% B4J4.6 .5'J'1>.8'; >.-'<7'?1.6 >.<7' ''4<.'>.6'
; >.-'<7' ;,416 ,4-.1' <.6> @8.<-, .' '' 66. <05>.'
<'7 ,<'5.'4<.'6,< / .'>.'U8 '5 1%'?, 415 #<51.7 .<'>.6'
:, / / .6'>.'J4.11.%

66. / 05..' '??5'4> 7' . ' ,1>,<1 .' =4 5' 6.1'' E' 7'
/ .<7 ,<'>.';.'>,<' '4' ?1,; -.10'5%

V ' % ' '' ' ' '4' <, / '>4' ; , / 7.' >.' ;,<67 M
747 ,<' N ' < .67' ?'6' 0.6, <' >.' / ,7 -.1'1 / ?,17'<; .'
> 4<.'>.5 0.1'7 ,<'7,4; :'<7'5''1.=4 6 7 ,<'>.'5'' E,1; .'
?405 =4.% 4Q,41> :4 ' =4.'5''1.-,547 ,<' .67' ;,<6, / '
/ . .' -,46' -,4>1.0' / .771.'7,<6' ,6'6, <6' ' '11 7.1'5.6'
/ ,4-. / .<76' ?,?45' 1.68' .7' ' 1>7'05 18' '-'<7' -,71.'
>.?'178'5''640,1> <'7 ,<' '4@'5, 6% <.%0,<<.'5, '641'
H';7 ,<'>.'5''E,1; .'?405 =4.' .<; ,41'J.1''5.6' :, / / .6'
7 / >.68' E,1; .1'' '4' 6 5.<; .'5. ' ;'5, / < '7.416'>.' -,6'
71'-'4@I' .7' 6' =4.5= .6 4<6' >.6' 1.-,57.6' ?.16 67' .<7'
' / '< E.67.1' >.6' <7.<7 ,<6' 0,67 5.6'Q' .55.' J'1'<7 1' 7'
5.416' ?1,?1 .7. 68'Q46=4 '' ; .'=4.'>.' <,4-.'4@' '77.<7'76'
-,46' ,05 J.'66.<7'>.'5.6' / .771.' .<'6.=4.671.8' .7' ; .75.'
?1,7.;7 ,<'6.1''5'' -.<J.'<; .' 6.45.' > J<.' >.' -,46' .7'
>.'5'' J1'<>.'<'7 ,<' =4.' -,46' 1.?1.6.<5.0%

$ % .6 / .4< .16' ?1.6.<7.'5.'?1,Q.7' >.'>>; 1.7' 1>> J.'
?'1'5.' ; , / 7>' >.' ;,<67 747 ,<8'1.5'7 -. / .<7' ''H';7 ,<'
>.' 5'' E,1; .' ?405 =4.% +' .6' '17 ;5.6' 64 -' 556'6,<7'
>.;1.7.6' I

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$'8'(*' + .+/'5 $' 4(0(*,''(',. *0(,' -+*'' ('3+*, *' Q$' $('
- ' -8$$,/ ' 8 (-+*'' ('' + ,.(''3+*, *'' - ' -$',.$3,7')!'
'$-$+$.((*,' ('',. 4(''-(' $9*('5 $' '(. *,' 2' - U(' $ (''
- ') (' -(' $$,3 .'$ *7' (,'(*# */ -+*'' ('3+*'' -('* 3(''$,(/ (''
3$, 8(*''$*'3.$,'' -+*'' ('39*, *' (,' -+*'' (' -$',.$3,' 4 .' ('
'(.0$3(' -(' +'9+.-('*+,$ *+ (

I)S *' *$3 *5 (' 4 2$'(.+' 4+.'0$ (*3(' *'0 $(' -('#+$,'+'
.(2(3*,$ *' -(''3 *,.+ ,('' 9+ / -(''+$'$('/ -(+ 9((*,''
' +-+,'' -(' ',$3(' +' -('4 $3(/ -('3 *-+ *+,$ *''4+.'
3 .4'/ -('' .- 6*+*3('' -('4.$'(' -('3 .4'/ '(.+'3 *,.+$*,F'
)($''+*3('4+.' (''# .3(''+,+368(''+ ' '(.0$3(' -('',.$)**+ 2D'
4+.' +'9(*-+. (.$('*+,$ *+ (/ (,'4+.' +'9+.-(' ' -8(' -+*'' (''
0$ ('' 6'$'8'(*' .+

:' $*' ' $' +' %8'$',+*3('(,'+44 8(('4+.'4 '$($$.''4(.' **(''
' 4+.' $$' +,. 4((,/ (''# .3('' '(. *,' + 9 (*,88'' (*'
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. ,(* '' -('4.8,(.' '(3 .'/ -(' +*'$.('5 ('# .3('-((.('
' .'' ' ,$3(7' ('' .()(('' '(. *,''+$'$'8 $0.8'' ' +'4 $((/'
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:' ' (.+' .(4 ,(',+,. 4((*,' '(-$,$(2/ (,4 *$'3 '
,(/ , ' .+''( ),((*,' -('4 '' -('5 $*U('4(.' **('' 44 !$
'+*,'2' (28(*,$ *' - *(' $/' - ('3 *',.+$*',(' *' - b ' 9(!'
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:' ' ('' +,,. 4((*,'' '(-$,$(2'3(*,.(' +' 4(.3(4,$ *'
3(*' / .(-(0+*3('/'+9.$(.''(,'36+ 4+.,'/'3 *,.('3(('-(''3 *1
,.$) ,$ *'' 4) $5 ('/'3 *,.(' +' $)(.,8'+)' ('-(''+'3,. $ +!'
,$ *'-('' ')'$',+*3('/ -(''('4(3('' - .('-+$ (*,' ' , ,(-'
+*,$3''('4 3(' **+8(('/ 3 *,.('((('- %,.+0+$'(,' -($*DD
- ',.$(/ +$*'$'5 ('-(' '3 *0(*,$ *''.(+,$0(''+ 2'4.$2' -(''+!'
+$.(''(. *,' -$'$4(''4+.' +'9(*-+. (.$('*+,$ *+ (/ (''9+.-(''
' -8(''-(''0$ ('' (,' (''3$, 8(*''5 $'(',. 0(. *,'(.0$3('
(*'5 +$,$' -('9+.-(''*+,$ *+ 2' (''3 4+) ('' '(. *,''+$'$''
4 .(,. (' 98''(,'4 *$''(' *' +' $'

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-(' +'3 *(''(.+' ,(* - (*' - **(.+0$'*'.(@ #++ 4+.'
9(' -('4+$2' - '3+*, *'(,'+*'4. (*.(.!'8*-$3' - ' -$\ %$3,
' ' (2!3$/ (,' , .'' ('4. 3 .(.!'8*-3/ 2' -(#+ ,'
' (*'3+'' -('*89,$9(*3(' - ' 9(' -('4+$2/'(. *,',(* '' -(' .(!'
5 8.$.'2' .$*',+*,' ('*).('*(3(''+$.(' -(' ,. 4(''-(' $9*('
5 $' '(' ,. 0(.+$(*,' +' - U(' $ (''7 (,' ')'$-$+$.((*,' (0'
3$, 8(*''$*'3.$,'' -+*'' +' 9+.-(' *+,$ *+ (/' $,' - '3+*, *' 6'
(',.)(' '(' +*$#(',(/' ' $,' -('' + ,.(''3+*, *'' - ' -$',.$3,'
(''3$, 8(*''+3,$#'' -('3 *(,.)$8(''4+.' ' -8' .-('
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' $,' +- $*'$',.+*,$0(' / ' $,' -$3$+ .('/3 *,.(' (''* ,.$) *+ 2'
3$ $)/ 3.$ *(' '' ,(' -('4 $3(/3 *,.(' (28 +,$ *' -(''9(! '
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' ' ' ,' 3$, 8($$' ('(,' ,(* ' -('4.8,(.' +$*!#5.,('4 .'
'+$'$.'' @('36+ 4' (,' $0.('+ 2' ##$3$(.'' -('4 $3('5 $3 *54('
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+ 2'9(*-+. ('' *+,$ *+ 2'(,'9+.-(' ' -8('/ 8 (/ (*'3+'' -(7'
)(' $*/ +*2',. 4('' -(' $9*(/(,' ')'$-$+$.((*,'+ 2'3$, 8(*''
$*'3.$,'' ('9+.-(''*+,$ *+ 2' -+*'' ('-$',.$3,'' + ,.(''5 ('
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,+*,' $' (" 4. 3 ,(+.'!'8*-$3'' (*'+ . *,'#+$,/ (,' 3(2!3$
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+4.$'' $*,(.0(*,$ $,'-(''4. 3,,.(*.'Q9-+(.+*2!'8*-$3'
:' ' (''3$, 8(*''$*'3.$,''*.' (' .- ('-(''9+.-(''*+$$!'
+ ('/(,' *'(*'-,+,'-(''(.0$3(/*(''(. *,'.(5 $''5 +'- #+*,'
(,'(*'3+''- $*' #$$'+*3('-(' +'9(*-+* (.$('*+,$ *+ '/-(''9+.1
-('' ' - ''(,'-('',. *4(''-('$9 (
:' ' ' *('4 *..+/(*'+*3**'3+'/'R,.('#+$,'-(' .-5+$',$,$
+ 2'9+.-(''*+,$ *+ (''- ,$*'+,$,.('--4+.,((*,/'$ ('*(','(*'
0(., '-,$*'--3.(,'-*'3 .4'' -9$' +,$#/'+*3,$ **-'4+.' ('. $
:' ' *3**'3 .4'' *'--,+36((*,'-(',. *4(''-('$9*('*('
4 ..+'+9$.'-+*'' $5,-.$(*.'-*'. 8+ *$(''+*'' *('. $'$,$ *'
9+ (/' 4'' (''4($*('' ,+)$(''4+.' (" $'
:' ' (".(5 $'$,$ *''(. *,'#+$,(''+ 2' 36(#'' 3 +*1
-+*,''(*'36+5*(' $(/'(,' (''+' +',. 4('+''( ) ((/
:' / (".(5 $'$,$ *''+-.(''((''+ 2'3 +*-+*,'/'' $,'
-('',. 4(''-(' $9*(/'' $,'-(''9+.-(''*+,$ *+ ('/'(. *,'#+$,(''
4+.'(3.$,/(,'-+*'' +'# . ('' $0+*,(';
:' ; '.(5 -. *'/(*'0(., '-(' ' (''$(.'-(/'
3 +*-+*,/(,3 //-('4.(#(.' ('(3 *.''-(',. *4(''-('$9*('
< *'-(' +'9+.-(''*+,$ *+ (? *(3(''+$.('4 '.(4 ''(.' ('').$1
9+*-'/&,(7' 4.(0(6$.' *'-$ '$4(.' (''+,,. 4((*,'/(,3/ '
4 .'+'' .(' 4+$((*,'-(/(,3/) '4 .'4. 3 .(.' (2 !'
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:' .'+' 9+.+*,$('-*-$,/ ' -('-$,''3 +*-+*,'/* ''
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:' ' (2(3*,$ *'-(''-$'4 '$,$ *'' $$,+$.(''+44+.,$(*!'
-.+'(*' $,('+ 2'3 +*-+*,''-('',. 4(''-('$9*(/'3 *# .!'
((*,'$'3('5*#(','.-9$('4+.' +.,$3 (' '-' $,.(' '-*'
--3.(,'*.' ('(.0$3('-('',. 4('-+*'' (''4 +3('/'(,'' .' ('
.+44 .,''-(''4 *0 $.''3$0$''(,'-(' + , .$,(' $$,+$.(7 '$'
'+9$,'-('#+$.('' .,$.' ('',. 4(''-(' $9*('-' $(' $'(('''('
,. 0(*,/ +'- ,(. $*+,$ *-' '* .).('(','+)+*- ** (+' #!'
#3(.'3 +*-+*,/' ''+'.('4 *'+)$$, ':

'+' <>.' S '5.]'6.;1.7' 1.6'E' 7'5.;741.'> 4<;'5.771.'
>.% % :.-;4'1>8' / < 671.'>.'5'' / '1 <.%
$ 8 5766.%< 0 .% 477 ,<'5.8'?'16.6'>>;1.56>;6' C8' '
<' .7' ' >.' ;;' 7<, 68' ''67'74>' ?1,- 6, 1; / ; 7'641'
1;@.1. ;.' >4'?, -, 1.@;;47 E8' .7Q.'<.'>,47.'?'6'=4.'
6,<' <7.<7 ,<'<.'6, 5' 5.'1;<>1;'6.6'>.;1;76' '??5 ;'05.6'
'<@' ;,5,< .6' ;, / 7<;' '<' 1.67.' >.' . / ? 1.I' 3' 6'5.6'
J,<-;< ;416' 'V'5 7' 4<.' '771 047 ,<' =<' < '??<17 .<7'
=4 5' .4@'6;4568' ;;55.'>;'>,<<.1',<'>.'1.E46.1'1'??1, '
0'7 ,<' = ' .67' <.;.66' 1.' '<@' '11>7>6'>.6' '66.< 051.6'
;,5,< '5;68' '&<' = 56' ?4 66;<7' >71.' ?1,- 6, 1; / .<7'
.@>; 7>6I' Q '' ; / ' >.-, 1' -,46' ?1 .1'>.' ,4 / .771.' ''
66. / 05>.' <'7 ,<'5.' 5<.' ;1' <7.' 2 .' 7< < 1.' 5.'
>. 6 1'> .< ?>;0.1' =4;' >.6' <7.1?1.7'7 ,<6' / '5 J<.6' .7'
E'466.6' <.' 6.11. 7'71,405.1'5.'1.?,6'?605 ;'> '466'
.1'<>.6' > 67'<;.6% '??1.:.<>.' =4 ,<' < .5.-.' >.6'
4,47.66<1' ;'>1, 7' ;,<.>>.''4@'J44-.14.4168'.7'=4 ,<'
<.'?17 ;<>.'=4.;;>1, 7' .67'646?.<>4% ' 66. / 05>.'
?.<6.' =4.' / ,<' '??1.:.<6 ,<'.67' -' <.8' 5'54' 64E 1''
>;' 5.' > 1.8' ?,41' = 5.'7,47'>'<J.1'> 6?'1' 66.I'>'<65.'
;'6' 4,<71' 1.8' Q '77.<>1' ' 6.6' ,1>1.6' ?,41' / V ;,< '
E,1 / .1%$' 8' '
% 66. / 05..'>.; >.' =4.'5.6'J,4-.1<.416'>.6' ;,5,M
< ;6' ;,<7 < .1,<7' '' >,41 ;1' '??1,0'7 ,<'<.;.66' 1.'
'4@''11.7.6'>.6' '66. / 05 .6' ;,5,< '5.6%
+' <' >.' % 5.6' 6.;1.7' 1.6' E' 7' 5.;741.' > <<.'
5.571;'><' ;,<6. 5' J. <.1'5'>4'>.?'17. <.47'>.'5'' #,16.8'
=4 8' .<' '??1.<'<7' 5'' <,4-.55.'>.%5'' E4 7.'>4'1, 8' ''
1=<,4-.5>' 5.'6.1 / .<7'>.' ' (' ' '<
+' .6Q<J.6' >4' 71 04<'5'>4'> 671 ;7'>. '<< 8'5.'
;, / 1' 66' 1.' >4' 1, ' .7' ';;46'7.41' ?405 ;'1.4<76' .<'
-, .<7'4<' '66 J<'7'>.' '5 -1.6' ?,41' .<71.7 .<' >.6'
:,< / .6'>.'J4.11.%
+' .6' '47.416'>.6 <<'5.6?'71 ,7 =4.6' .<-, .<75''
6, / / .'>.' 8C '5 -%
+' .6Q<J.6' >4' 71 04<'5'>4'> 671 ;7'>.' '5.41.8'> '
?'17. / .<7' >.'5'' , / < #8' .=-,Q.<7' 8CU '5 -1.6' '7 66'
?,41' .<71;7 .<' >.6' :,< / .6'>.' J4.11.%

66. / 05..'>.; >.' =4 5' 6.1''E' 7' / .<7 ,<' '4' ?1, '
; 6 -.10'5'>.'7,<6' ; .6'>,<6%
''6>'<;.'.67'5.-..' '' ' :.41.6%

' ''%

@ ' * 1 '-('< '' (''- .(,''-(' ''(*,) '
*+,$ *+ (/'(.0+*,D-(' ,+) (' 9 *(.+ (/+44 $3+) (' +', ,('$3''
3 (3,$ *'/(,'5*$' 4(*,' 2*((('*' ,(*,.' $('*'+'3(2'5 $/'+*''
+44. # *-.,' ('' $'/ 0(* (*,''('4. 3 .(.' (''#+3$ $,8'-8' .(D
3 +.$.'+ ')(' $*D' +.' ' 0('! + -('A *.-$*/ 6 4 *(' -3
$' ' (**('' *%EDD-('XX '4+9('' .$2/ X' 0' BI'' *''). 36 /
(,G'@.' '' */ #.+*3' -(' 4 ,' 4+.', ,' ('. 8+ (7'+' +.$'/
3)(U' ' '' ($*/).+$.(/ . (' +$*,=A+35 ('/ *DDWG7' (,'+' (*1
('/ 36(U'2+-+ ('' . ,,-/ $ 4.$ ($! $).+$.(
^' 7 '' .' +' .(0 ,$ *'' #.+* +$'(/ 4+.' ' 6+.(''
@(.0$(./ 4.(,.(' ' +.$'/-('.$ 4.$ (.$('-(' ' $- ,/0-.$!
,+) (' -$,$ */3)(U' ' + (,/ . $(./4+0$$ *'-('' +,.('
+,$ *'/ *D' BB7' 4.$2/ BW' '

& 3'.7' ' 8 *- &*') ,@%' ' 4Q,<1>:4 'WH/ ' G 1 '
, ` ' '' 1% V' 4Q,<1> :<' C(8' % '< * '
') & *
- % ' ; (' / .'>.' ; :.5 .7E%' +' ,<5,41>G:' 'C(8'
8 & J'.7' 8 / Z !
- (' ' ' '1 * ' 8D 4Q,<1>%C(8' ! 2 '
,? 1''E1'<T' 6'.<' '' ;7.6%
- 4 ; ''4' '5' 6 ,V'5%'
V' <Q,<1>%'C(8' F '71'J > .I'.7' '* 3' ,?>1'%
- ' 3 ' '5 ' V' eWH/
'I@ ! ' & 'J* ' F ' & ' J' , 1 *'
'J .7' '% '- I
; 5) '' ''<'0,45.'-'1>'>'' . / ?5.% +' 4Q,<1>%C(8'
(J' ' 'J''I'
& * ' F ' 'G ' 0, I
- 8 / .' ' <7 '17 <% +' 4Q,41> 04 'C(8'
' : / ' 'D 2 J' ; '@ .7' ' $
', 4' ' \ 1 I
- ' 1 '' ' 1 =4 %' ,Q,41>%C(G
'G ' ,4' ' F & ' '8 J' ' 8 W'
! 7 .7' ' F D *
X ' '+ 5 '14.' >4' ' 58' < \ *% +' ' .67' ,<-.17
7,<6' 5.6' Q,416'Q46=4 '7.55.' :.41.'=4G 5' ?5' 7' ' %5.6' '0,'G
<>6'>GV 1.67.<

'' ' 'L, R ' ' ,+ (,' ! ' ' '
$2'4.($(.'' $''BHTB' ' ('' +8(.'' ' *,' ' +' (,,.('
G ' ' & ' & ' 4' ' ' '
',(.-+ ' ' FF H7E +-.$-' ' ' BE B' '
@+) .9' K K K WP I B7W (*('' ' ' ' BFF,
$ *-.('' ' K : K W7? P7E $0 (' K 'MB
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3,$ *''-('' *-('' -(' WX I I' $0 D' K' WPWI/
.,$ *'' -(%BIII',$0
] ' -('PBW' $0 ' BI'
-(' ' $0 ' '
4.**,' - 3,).('-(' *' $0 ' & K' ' ' D
,(.$(' - ().('BHEP/ +' F I I' $0 ' .' K K K & D
4.**,' -(-(3 Q' BHEW/ 5 $,,+*3(' -(' #$*D' K D K : K D D
V' $(' K K
-(' $WX' . $,$ *'/ -(3' BHEF' ' Q ' [U/ [C/ [U/H[G')D
V' -(') ' $ $' *'' +0(3') (,$*'' ' K K K K K D D D
' $,,+*3('' -(' #$* ''+*'') (,$*D' ' K K ' D
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4.**,' - +$*('-(' +' 0$)(/ '-.$(' ' .,$(' ' ' K D %
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3,$ *'' * 0' -('' *-('' BEH/9)DGH 'GI/GX/GI/GB/
+$''('- ('3 4,(' / D PE I/ EX/TI/TII/ ' '
'($!3+$''(' ' ' BTFP/FX/ /
$,,+*3('-(''(+ 2' -(' +.$'' ' ' 9 / / / U /XI/ T/
*4. *,'-(' * 0( ).('BHEH' X4 ' D D D K D % %
V' ' F 4' [&' / / / K D
V' -($ $5*'/ - + BHEI/
'' .+*3('' 3, *$0(' (' *3(*-$('' / GGI/)X/ XI/ F)/ FW/F0/
V' +' 0$(' ' D D D K' XEH/EG/&G:[D

[illegible]

[illegible]

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'4;4<.' 1 67'<;.% '<6' ;.77.' 71'4J.' 'EE'71" <,46' 6, / / .6' 5.6' 01.0 6' .7 V,46' 7.6' 5.6' 5, ?6Y ,46' ;,<' 6. -.1,<6' <, 1.' 3'1';7.1.I' ?4 66 .0 -,46' ;:'<J.1' 5.' -971.' ' " 7,47' .-.<./. ' <,46' -,46' -.<>,<6' 0.<.M > ;7 ,<6'?,41' / '5 ;7 , 68'.7 ?4 66 .0 -,46'1;?1.<>1.' 0 .<7,7' ;.7' ' / ,41'>4'71'-' 5' .7' ;.77.'6'J;66.'>.' / ;.4 6' =4 ' > 67 <J4' .<7Q'> 6'7.6' :'0 7'<76'>.'K 1 / <J:' / ' '

% "LG

H # %

8 ' ' + $'/3 $''+$.('-('.$*',. 3,$ *'4*!'),$5*('-'-+.,((*,'-('+.$'/(,' ' (*' **(/ ( ).(' -+',.$) *+'-('3+''+,$ */0$(**(*,'-(,.('(*0 8 "!(*'5 +!' $,('-('3 $''+$.("3$0$ "-+*" ('-(4+.,((*,'-(+' (*!' - /'(*'(2(3 ,$ *'-*'-(3.(,' -('B ''( ) ('*+,$ *+ (/-+' -'-('3(' $'/'4 +.'3'4.(*-.(/-("(3+$.3,''((*,"' .' (" 3+ '("-("-(.*$(.",.) ("-('3('4+8'/(,'+0$'(./-('3 *3(.,' +0(3' ("3 .4"+- $*$',.+,$#'/+*2' 8(*" -8'.(,+) $.' ' -.(/(,'-D8'+'' .(.' +',.+*.$*$ $, '4) $5*(

=!' 3$.3 ('5 (5 ("#+ 2'+''$9*+,"-(' B/I I I/P I I'(,'WIGB' T 6"3. 8 *"-(0 $.'- **(.'2'* " (3,(*." ("'$9*("+ 2!' 5 (" *'4(*,' (".(3 $$*+$,.(;

#D' +*" ('4 *, '(+ '-'4+4$(./ +*' $('-('$.(' & #' , c$*+,$ *+ (/ *' $,'5 ' 6 W' (.+' +') .- .('-'3+-.(/ (*'6+'/+' $('-(' $.(' (' . ' *' $,' ''+*" '4 " + '3 (',''+*' +33(*,"' .'(" 7

)("#(." -('Z$"5 $'4+.+$''(*,' +'9+ 36(' +* -('' "-(' +') .- .('+')+"-(' +''$9*+,''(',. 0(*,'-+*" +') .- .(' $*- (/(,' '*D8'+'5 (' ("4 $*,("5 $'-) .-(*,

! %

8 !* LA8 8'R.'C9'-

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+' ' 3$(,('-(" $" -(' +' *',$, ,$ */-("$+8(!' .% $' . *-(/*('.(3(0.+'4 "+' +0(*$.'+*3 *'4+5 (,+' *'+-.(''(/ +' (23(4,$4*' -('3(2'0(*+*,' -(" ' 3 ,(" -(' +.$"(,'-(' " .-(+ 2/+*25*((" ((('(,'+.$$ $(((' . 3(0.+' *$5 (!' (*,' ("A(,,.("$ 4 ("('+*"(*0(44('/- '5 (5*('4+.,' 5+%(("0$(**(*,

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-'BX $ (,/5 (/'%+9$''+*,'-% *' * (*'5 $'- $,'<.+*'!' $(,,.(' ' +'4 ',(.$,8' *'(0(*((*,''$'$ 4 .,+*,'6'+' $)(., ' *+,$ *+ (/$#'-,+$,')$(*'*+, .(Z'5 (' ("6+)$,+*,"-'-(4+.1 ,((*,'-(' +' ('(' *D8'#$9*.+''(*,' 4+"-% *(' +*$(.('5 $' 4*$''(' #+$.(' '*'4(3,(.' (*.'+,,+3)((*,' ' +' *',$, ,$ */ 5 $" *,''$9*+ ('(*'3(,,('3$. *',+*3('$ 4 .,+*,(/(,'5 $" *,' +*$#(', '4+.' ('4+$(*$(*,'(2+3,'-(' $ 4 ,/4+.' (2(!' 4 ('-('+'' * $''$ *'+' +' $/'(, ,4*',.(3((*,' (*3 .('4+.' *('+-6('$ *'-3 +,+*,('+*'-(3.(,'' .' (5 (? .(4 '(.+' +',.+*!' 5$$$ $,('4) $5 (

66. / 05..8' .1' '??5'<> '<7 2' 5" >55 ;'7.66.' >.6' ; M 7,V.<6' >4'>.?'17. / .<7'>.'5" .46.8' .7'>.'6,<> 1.;7, 1.8' " ,1>,<<>'? <6.17 ,<'>.'6,<' '11>7>'>'<6'5.'?1, ;.6 -.10'5'>.' 5"6.'<;.% ' ')

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% / ?E.<' E' 7' 5.;741.' >G4<.' 5.771.' >4'> 1.;7, 1.' >4'>.?'17. / .47'>4' #'5-'>,68' =4 ' '> 1.'4@'> 1.76' >.' 66.1'05..'<'7 ,<'5.%

+' <'>.' %5.6'6.;1.7' 1.6'E' 7'5.;741.'>.'?546 .416' '>1.66.68'?'1/ '5.6=4.55.6' ,<'1. / '1=4.'5" 64 -'<7.N

&' (" $, 8(*"-(' *,+)+*/.(* "+ , .'-(' + ('-(' +'4+,.$(/8'3(().+$ *,' +**$0(.'+$.('-('+')(.,-'3 *5 $' 7' (."3 (.''(' $0.+$(*,'+' +'A A('4 .('5 (' (.'$*'4$.+$,' (' ' 0(*$.' -("-0-*((*," (.+) (" 5*' *,'+..+36(' *' 9.+*-'4(4 ('+' +' (.0$, -(/ .'5 (' (" $.("' .-" -('5 (5 ("('3+0(" ' *,'0(* " ,.(*) (.'* '$*',+*,' +''(!' .-*$,('-(' +' # ,(' *(' -(3+.+,$ *'-('-(2'3(*,'5 +,.(!' 0$*9,!-$2'- 4 $ "+' ''( ) ((*+,$ *+ ('* "+'(,('.($'(7' (('+'(23$,('4+. $'* " *('$*'-$9*+,$ *' ('- '4 "4. D= # *-' (4.#' ' %

:' ('(c,'- *(' (') ,'-(' (,' 3. ,'3 4+) (c'(,'5 (''('$' ('4 $.'-(''("+# ,(*.'c' . -$3+,(."#+*",$5*("-(' +'9 (,$(' 3$0$ (/0((,!$ "-(0$'(.' (" .+* +$"5 $'3 (**+$(*,'+' '(' .(*$./ (*,.(,(*$.' +' 6+$*('(,' +$$$ '$,-'-('%4+.,$"5 (' 36+5 (' .'0 8+$,-,($*-.(/+. (.'-% *'4 $94+.-'6 3-(' e('$$ "3 *,.(' (' 4-.(/ (,*('#+$.('-('3('0+',(' (4$.('5 *' ,) ,.('-(''--' +,. *'(,'-6 ..(.'c' (4 $"-(2'+*" " 6 (")+.)+,(" *('3(''(*,'-('' ## (.' (!#(' -(' +' -$'!' 3 .-(/,+*, ,'+'* '-(' $(/ ,+* ,'+*'* '-' '. $f' (*!' *("--3 +.-"-(' *'(,'-(' +$$,.(/ D(,'' .'-(" *3(+ ' -(' 3+-+0.("5*'$ " 0 -.+$(,' .(,+) .' (' .(9*('2' + +$" -$(2'-(.,8.+ "(,'-("4.9,.('' +*"- ,('3%(',3' ('-(.1 *$(.'(## .,'-(' (.'.+9('$ 4 $''+*,(7*('4 0+*,'+''(. $.' +' .+*3(/$ "0((*,' ().+* (.7' (,'3(,('-(.*$(.('4. ,(',+1 ,$ */3 ('3((' 5*'$' *,'4.-3 -((/*('(,(*-'5 D+' #+$.(' 0(.'(.' (''+*9'-(=3$, 8(*'' ' ! :' 0(3' 5*((+-.(''('4(.#$-(' $ "#(9*(*,'-('' +,,(*-.$.' ' .' (' ' .,'-' *'+.5 (,' " (' .(4.('(*,($$,' 3+4 #/ *!' 36+$*-/ --4 $ ('-''+'4.(. 9+,$0(/ $$0.('F +' (.3$'-('' (" '*(," .-0 ,('7$ "0(.'(*,'' .''("J +6(."-(" +. ("681 4 3.$,('/ (",.+ ,.('$(,'3('' *,'(2! - ("5 $' *,'3.(+'(' +)$ (' '$' *,'4.-3$4$,-7'3 (','4+.' (##(,'-(' (."3 *!' '($ '/-(' (."3 4? ,'/-(' (." +* (*0.(+/5 ('3('4.$*3(' (','-(0(*'4+. .(' (,' + 6(.(27 (*.''$(-!$' -(' .(4. !' 36(.'+' +'*+,$ *' ('3.$ ('5 $" *,'3 $'c

.' $/ '+*"3("4(., ,)+,(." -'. .(4 "4)$3/5 ('-(" 36 $2' 4(+' .-#-()$" *,'4 +3("-+*" % ''( ) (3'-('* " ('!' 9$' +,(.'/ '$ "-,+$(*''$'4(+'-$9*("-('4+.+$,.(/ +' .+*3(' (+,' $'- '3+# ('(,'-(' +'4+$27' +'4 ")(('.(0 ,$ *'(' #+,' 4(.(('+*").+*(,*(*,/ ("4(4 ("'(.+$(,'(. *2/ (,' $" '*(,'4 $*,'+##+$) /4+.'-('#+ '' "-(+.36('/ (J.('4(3,'5 (' *" ("3$, 8(*"'('4 +$'+$($$,'+' $' ,- $!' 9*(.' +,"'$' (."4. ,(',+,$ *(*('-$3,((("5 ('4+.' (' ,(*-.(' +,,+3)((*,'5*'$" *,'4 .' +' 4(.'-**(' -,,' . $/ 4 .5 $' .$('# 4$!$ "4+" (''+'3.$#$3('-(' ,'3('9 $' (.(',' 4(.' **(' c' *'(" ,'3. '/4(,!(,.(/'$/'.(* * +*,' ' D .!' 9 ($'- ' .+*9' (,'-(' +'*+$'+*3(/.(*,+*,'' ') ((*,'-+*" +'3 +''(%-("3$, 8(*'/'('-(4 *$ +*,' -('3("."36('(''("3 .!' 4,.$3('5 $'$' *9,(4" *,'' $ (' + ,('3(,'3'3+*-+$'(' (9 $'(/$"''('# ''(*,' *,.$ "0.+$ (*,'4+.",('-('$*$(.('(''(' ' +"+' ' (*,' $#$ $"+$#(3,(*,'-('4 ''(,'-("3.$" + (*!' ,+) ("' .'+'4(,'-('(' +'. 8+ , /$' '),$*(*,'2'.(,(2$$.'-(" * '/'-(",$,.('"5 (' +' *'+,$ (*,$'*',$,.'('(,'+' 3 *,(*,(*,'5 ' (' (' 5 ('3('('0('4 *'(.3.(,'(5)3' ' ' $*'' $,'4(. $" -(' ('3.$,(.'(,'-(.$(3.(,$'5 ,' 3('$.!' # ('(3.$.'+0(3' ,('+'.$9 (*' 5 @' (.$,(/ *' '*('(')+ +*!' 3(.+$,'4+" 2'$*0 5 (.'3 *,.(' + ,'(' 232 2' -(" $' 'e('.('4(3,'- '+'.$*0$ +)$$,('-(".(4.('(*,+*,"-(' +'*+,$ *' ('9.+*-/ '+*"- ,(7 +$"0 "+0(U'-(3$-('5 @' (2$',('-("--$,"- *,' (##(,'(f,'-('4.$0(.'+*" .(4.('(*,+*,' -(' +'*+,$ *' '*('$*0$ +)$$,(7('''%$'(*' (2$',(/ ('3.$ (' -("-(*'2'3(*,'5*+,.(!0$*9,!-$2'-(4 ,(" ('*'$*3 *,('+) (.

C (

5 ;' 31 1.4 ' ?10?,6" ' ' ' 5.' ?10Q.7 E5.'>.4@' >;:'0J.6 N ;.54 ' >4' ; , /70 >. '75;.11.I' ';=4 6 ?'1' > 6?'J '; ?7 ,>4 6'47 U(8 I'>.1.-.<48 ;>:71.' '@ E 55.' 71, 6 0.<76 '1?.<76 >.' 5" E,107 >.' 4 V'8 >, 7 5.' ?1,>4 58 64 -'777 77 5 0 -.5 'B ><'J. / .<78 7' 7 067 1<>' U 87P ' a8 .7 .7 64 7.' 5" ;.66 ,< 7'E' 7 .' " >.K.7:4<.'>.;.77.' 7.110=4 8 '-.;' 0; , /70>.K> ' : <.I'>.-' 7 ;01 6, /7 .1 .05 '<J.>.' 5"?1 <; ?'470 > 5 .<1 ;7 .5 ,<7I / ' 6 '; ,<> 7 ,< =4 .I =4.5 =4.'?E 7 >71.' 5.'6, 17>.6 0 1'54'E ,<'I I> 6?'J:'0 7.17,<='7 ' 7,470 0,457.' =4 ' ?,411' 7 6.' 71,4?.1 >4.' ?'1 5.'1, 8 .7=4.865'4; <71' 0.' > 6?'J ' N 6.'7104-' 7.<>.' 70 1' ' ' . J'J0>7 " .7 'E,41< 1'50 7:0<7'7 7 .< E,<>6 1 0 7.11.I' 8

1' ; ,<6 >.1'7 ,< >.' ; .7 >;:'<J07 7\< ';;,1>" > ?'J<';7 <.'01>01 <':;0>.';,7 ?7' 57>0**I ' N ?,41 <>. / < 6.1>.' <, 7 >'>.6>1, 76 6. J<.41 '4@' >46 '4 1, '1' 6,<>.' ';=4 6 7 ,< >4' ; , / 7>'>.' ' ' ;.11.%A

#;60, > 7 ,<6 .';0<1 <10177?'6 > 6?'J<'#I' 5V 71, -">.' <. J'5 7>'0 0.'=4 '5.'E 7V.<,<;.1' " .;:':J.' .7 5.'>.7.1 < " " J'1>.1 ' ;.11.%

.;:'<J.' ?'147 '06,54 / .<7 '0'<>0<<>'Q46= ' ' 7< < 6701.' >.' I' >.'#'5,<<. #.' / < 671.'< 'V' 7 ?'6 5.6 ?1 0 ?.6 >.' a.. .1 641 5.6 >;:'E J.6ISS '>,?76 ;' ?1,Q.7 > 0;:'<J.8 .7 647 106,4>1.' 7?47.6 5.6 > EE W # 7.6 =4.'5.'1, '0??,6' 7 "5" ;,1 ;5<6 0:'> 7.' ; ,7 71'7 Q4 5 ;1' J<' 7>.-, 1 071.' ,<01.4@ " 6.6 E <'<; .6 < 5 6'<7 5.6 / 0 / , 1.6 >4' / < 6710 641 ; =4.56 5.60,<6 >55 1, ' ,7 7>7>' ' ;; 1>.68 ,< -, 7 ?'1 =4.56 4 ,V.46 ,< .67 ?'17.<4' " J1,66 1 ;.7 >;:' J.'> <.'?,17 ,< ;,<M 6 >.1'05.'>.'>, / ' 1 . N

'1 5.' 0,< ><'1, '>4 C ' : '0 ' ()U8 c>I' >.#'5,<:.' < 17-' 7 .<;,1.'E> 7 >J1>.1 =4.' 5.' ?1,Q.7 > ';=401 1 5.' 00 / 7.'>.' ':..: .I' #, / 7<.'5.' ?1 @ >.' ; .77.' ';=4 6 M 7 ,< >.-' 7 X71.' ?'V..:' '1J.<7 ,< .< >, / ' <.6I 5" <'741.'>4 ; ,<71>7 07' 7 .<;,1.' <>.; 6.I' 5 71,4-' 7 >.' 5" > EE 04 .' " ?'V.1 .< '1J.<7I 5 ?'147 ?546 ' 6>' >.' ;.>.1 >.6 >, / ' <.68 .7 ,< ?1. .1" > ';= 01 1 ?'1 5" , .'> 4< 0;:'<J. '1.65' 7 " / .771.'6 [46 5.6 V.4@ >4 1, '5.6 >, / ' <.6 =4 ,<?,411' 7.0>.1' " > 6?'6 J<';% ,47.' ^ '>1.66.' >4' 5 < 671.'7 '41' 7 ?4 >07.1' 7< <01 'J10< .<7 >.' " Q 'Q.6708 6 5 54 ' .E57 ?1.' 6.<70 > '0,1>' 5" 5 67.' >.'7,<6 5.6 >, ' <.6 =4 8 >'<6 5" 64 7.8 ,<7 070 ; , / ?1 " >'< ' .d; :' J;%

7 '1.77 '1=4.'>'176 606 7170 <> 1.6 > '0,1>' 7 1 .' .6?0.# >.'1.6.1-.'>'<6 5.6 ; ,17 ;.66 ,176 =4.' I' >.'#'5,1717.?1, ' ?,6< 78 .7 7,>7 5,16 4 5 'J 66' 7>0 7,75;:.1'4@ E0107 I' ' 6 ,< 701 " 0 .<7 7 64;.0>.1 ' ;.77.'1.6. -.' 4:.' .@71. / .' ?1,E46 ,< 7Q4 ' '8 4;..665-. / .<7 .7 ?'1 J1'>'7 ,< 8 ?,17.' " 4< ?,4 7 .@;.66 E 5 7 / '66.'>.6 ', ' < '<.6 0;:'17J06 G $ 8

?1.6 5.' 0,<> '1, '>4 C9 .?7. / 010 ()UI'5 <70197 ?.16,<<.5 >4' / < 671# =4' -" 4 =4 " ?1. >1.' 4<.' ?,17 ,< >.6 >, / ' <.6 .0<06 .< .00'<J0 ' .< " 0,<6 ' 401'05. / .<7 ';;14 5" / '66.I .67 '4 <, 6 >.'E0-1 .0 () =4. >.#'5,4<.?1 ?,6''41, '> V ; , / ?1.<>1.' 5.' <'1=4 6'7 > B'75,< #:>7.5Q , 6 17 >.6 " 7.11.'> B' ' <04- 5 .'Q .7 =4 5 >06 1' 7V 104< 1I

.67 > '?17.'0.' >.1< .1 ?1,Q.7 =4.' 5.' ; ,<71'7 > 0 ' ;:'<J.' " 07.' ?' 6> 5.' ' / '16 () 0 / Q< Q71.8 . 5 ?1,?,6'<7 > '0,1>' 0.7 00:'<J.8 '-' 7 ; , / ?1 6 >'< ' ;' ?1,Q.78=4 4<.' ?'17 ;' >4 ., 70 >.' '<;.11. ' '5 1' '>. ' 1.<>1.' ';=4 6 7 ,< / , 1 6 ,<01,46. ' V '-' 5 64;;.66 -. / .<5 'Q,470 5" 7,7 5 7.' >.' ; .77.' 7.11.8 .75.6 <,4-.55.6 ';=4 6 7 ,<6 >. I' > 6?'J<';I' .7 #.6> E 0' 1.<76 ';;1, 66.< .<56 >-' .<5 E' 7 '4J / . 7.1 5" / '66.' 5 .6 >, / ' <.6 >,<<06 .< 0;:'<J.I' >.'<>4-.'4@;:'<' J. / .<76I 641'>.6 ?107.@7.6 '66.@ 5.J.16I .< ,<7 .<;,1.' 'Q,47.'> '471.6I

' '641- <7I > 7 0<I =4.5= .6 > EE5;45706 '4 64Q.7 >.6 >, / ' <.6 >.' '500- 55.' .75" .4-.- 55. .' ?1. / .18 ?'1;0 =, ,< V' '-' 5 ., / ?B6I ., < < .' .< E' 6'<7 ?'17 .8 >.6 >1, 76 =4 ' >0?.<> .<7 >4 >,7<' <.'>.' '<;VI .7

' 71.' ?'1.S = 55 1 ' ' '0.7 6 ' > >.' E7'16' 1 .% '6 ;.7 ';.<6. / .<78 0 .< '<701 .41 '4 ?1,Q.7 > .;:'<J.I' 1 '-' 7 >E7 071.' J<,1.' <Q >55 775 < 671.I ?' >.'10;:':J5 70I .7 5 ' > EE ;457.' = Q ;,<.E.1<' 7 5.'4, ' <' <.'>.' 5 @0- .' 07' 7 0 .< E'; 5.' " 1. 604>1.'?'1 5.6 7.1 / .6 / 0 / .6 >4 E; ,<5 [7 6 %

B ;.>' 5 > 6?'J17';50465. >1 76'??':.:'<76 " 6" 77 'Q.6708 7' 7 .8< .E68 >, / ' <.6I Q467 ;.6 .7 6. ' J<. 51 .6 " '500- .I' ' 55 >J.' >.' '5;V 7 7V >-' 7 >'176 ;.77.' .@?1.66 ,< 1 0< 45 07 'E' 7.' ;1, 1.' 5^4 ,77 .>7 ; , / ?1 6 =4.5=7 .' ?,17 ,< '< >0 / '5<0 >.' '<;VI .5 6' 0;:'<J 67.' ?,17' 7 6#6 6?0;45'>05 '6 1 >.6 ?'17 .6 >0?.<>'<7. ' 9 0.'1 .1E' .1 > 1<> .' '0 5.6 >." ' .1 7 071# 0;'170.6 8

#.6 > E ;457 06 E 0.<7 .0?.<>'<7 Q:J.. ' 70 6 K .< E, >0.68 .7 >.#'50:<0 E 7 .@?0> .1 '<< , 6 >0 / '76 (>9 >. '5.771.6 ?'7.<7. ' Q ' Q .< ';0.?7,<7 5" 1.71,M ;.66 ,< >.' ;. '>.4@ >, / ' <.6 8 0E.>.<58 0 ' 1. / ?5'00 ' :. 7 .5 .< 64??5. / .<7 > #;:'<J.I' 5.' >0, ' <.' >.' :'5 :J8 5.6 0, '>.' ,: / . .4.I' .7 ;9 = ''??'17. ' ' 7 '55 10 ' >'< '5" E0107 >. ' #!7. 0< ,11' <.I' 045.'5"?0B 0<'>.'5"E05 7>0 K466V8 '0,45 66'<7> 4< ; 70 '5" J1'<>.''550.'>.' 0<6 " #:' 55.68 .7 >.' ' 71.' " 5" J14<>.'1, 7.' ?10Q.70.'?,41 5 ' ; , / / 4< ;'7 ,< >.' K5, '-.;'5.K.11VI 5.67.11.6.76. J77. 1 .6>.34 1 E.48 , 1,<8.7 > K7 6.'.7 '4?: 17. 7,47 ;.' =4 ' '??'1' 7.:' 7 '4'70 ' >' '5.6 ?'10 6.6 >.' 10 >I >4'V.' .7 ,1,<8 .< ,1 / '<> .

; .'5 . 7 ?'6 5,47 . 7.00.8 >.6 : ,7 E6 >.' ;011. 0;.' .7 J'JE.1.<78 ;' / < 671.' ; ,0;:'77J 67.' " 1.<>1.' >.' 17,4 . 5.6 5.771.6 ?'7.<7. I' >,<<0. ' ' ' / , 6 > ',>7 ()98 =4 ' ;B'<J.1.<7 417.'?,17 ,< >.6 >, / ' 17.6 ; , / M ?1 6 >'<6 10; '<J.8 .7 =4 '>.10J.'<7 ' @ ;5'46.6 >4 ; ,<71'7 >.0:'1J.<7 > 6?'J7 ';' >.6 <>. / 4 7.6 2 ?'V.1 '4@ ,EE . 016 1,V'7 "I' .7 >.6 E1' 6 > 0-'5 >7 0< >.6 >, / ' <.6 .7 0, 6 " 54 ' ;0>.6I 9< 6,17?= .'?546 0< 'Q,47' 7 '4@ ;,<;.66 ,<6>.6 00:'< 67. 8 ?c 60 '> 4 ' <4' 75.41 00 J'7 ,<68.<1.? 17'<7 41 .51 ,1'?405 ;8 5.6>.?.<6.6>, ,55.7106,1?405 0'-' 7>0Q' ' 75.6E, >68 $0< ?'V' 7 **8 ' I =4.' >.'#'5,<<.' '-' 7 , / <.' 4. 7 ';;,1>0.6 ?, 51 <>. / : 70 >W6 E1' '1 .-'54'7 0<8 ,71.' ; , < 7>'17 " ? 5 =4 710 - -. / .<5 E1'??0 >.'5' .7. 4;

0.66 -. / . 7 ;0 ?E 6 >'<6 '00:'<J.' Q .' >.' #' ' 0<<.' '-' 5 > '001> ?106. 70 ., / 75 .' >.-'7 5 971.'?.< , 01.4@ ?,41 5.6 E <'<;.6I ;,<> 7 ,< =4 '6.45.' '-' 5 >.7.1 / <.' 9 .0<6.177.< .:7 > 5 1, 8 i $ 8

#.77.' < >< 0 7.11# = 0 5.' 77 : 6 .1.'>V'57 ?7 '>;:.7.1 '4?1 @ >.'5 5= .5.71.6,11,V'5< '- 5E7?' .7.' .:'07'7>.E,41< 1I I' >.#'5, / .8 >'46 >.6 7.< ?6 ?546 17 '5:. 1.4@I ' 710470 5.' 775,V.< >.' ';=407 18 .1' 17'7 7 >.'0.' / 0< .'71.6,7 8U) 8 U '5 I8V ;, ?1 6 5.' 17 0< <5 >.6 5 <'<0.6 > .<J'J.< .:7I > V 'Q,<7.1 >.6 >, / ' <.6 / <.<6.6 I ?'1 ' 5.6=4.56 0< .0< ?70 :. E< 5.' ; .<7 0 @'<7. 0 <= '1?.<76 >.'E,1 78 .7 >.' ?1.6.<7.1 ; .' / 'E.:0 14 <. @ ;0<5 / .'477.' ';=4 6 7 ,:' ' '<7'J. .' ' @ E <'<;.6I

8 66. / 05.;' '7 ,<'5.' " 0, 6 >.10 506 ..:'17J.6>.6 0 .<6 >4 / '7 '4@ 6,46 5.4B11' '?, <7>.' 4. 55.' " Q4J.'=4.'5.'1, ' .< 'J10'45 4< 0;:'<J.' <.' 6.'>0; >' 7 =4.'641 5.6 1 6,<6>.' ; ,< . ';.' =4.'5.6 ?'17 .6 < ' 701.660.6?106.:7' .<70,1' / .' ?,4 ':75.>07.1 / .1 " ';=401 1 4< ,0Q.7= .5;4 =4.I' / ' 6=4.E;. 07' 5= .' > '?106 5.'1'??,17>D' .-'54'7 ,<6I .7 641 Q" ;,<<' 6' 0'<;.' .@';7.'>.'5" -'5.41 1.6?.;7 -.'>. ' ,0Q.76 0;5 '<' E706I =4.'5.. ,47 '7 1.;. ' 7 5' t & '>.E < 7 -.8 .7 =4 5 1.67' 7 Q46=4. 5 '>'<6 5.6 7.1 / .6 > 417 6 / ?5.' ?1,Q.7%

.67 > '?106 ;.6 ?1 <. ?.6 =4.'50 >0>E07 001 > ' 7 1 5" 5.J 65'7 ,< >, / '< '5.I' 5.' CC 17, . / 01# >.1< .0I ?, 17. N

' ., ' $$,$$ 'uQ=BBX3) *$.+, " -)3 $+*9('$ (+') $($$" *+,$ $$+$$2/ $+,$ 3 * 6$) $7 (,'3($$U 5 $,$(6,'HJH 5 (' -(4$$$+ +' (46! 0 3+,$ *) (' ++( )$)(*+,$ *+$(/+(. *,'(+$ $) '4).'),.(

3 *# . " *' +*$ * "4+.'*$' - 4.(,'# . ('-(".(4.-'(*,+*,"
-(' +'*+,$ *' %
: /' $(" 36+*9("*('('. *'((*+-"3 *' (" 5* +*=
,+*,'5 (', *,(" (" # . +$,(" 4.('3.$,("4+.' (" ,"(',' 9 (!
(* " +*. *' ')'(.0-(# (,'+(3 4 $(" (*' (*,'$(.' '5* $'
+*.+'(,-'4. ---'+* , 0+ *+,$ $$+' .- **-("4+.' --$,' - 3!
,).(' BHHB/'(,' *(' (*9+9$','(' +*,+'),(**' (,'\ $,'($$.(9$',.(,'
-+*'' ("3 ,,."<(' (,,.("-('.+,$#$3+,$ *'* 3('"+$.("4 *.'- *!
+(.' \' +3,(" *'-(.*$('.'3 4 (*,':

.67 >'<6 # 77.';5'66.'=4.' 6.' 71,4-.' ;:'<J.' >.' '<;.11.8 =4 '15 '' ?, <7 7.'1'7 E 8 .7 >,<7 5.6 -'54" 7 ,<6 <.'6.<7 ? 6'.<7 1. / .<7 ';:.-..6% ! .7 ;:'<J.' %6.1' 77 5 '<<4 [' ,'' ;,<E 1 <>Z 7.55.' .67 5" =4.67 ,< 6,4 / 6.'' 66. / 0 .%

'6 ' 66' 7>.'?1,<,<;.1'67 1'4<',0Q.7.,<7.<7 .4@8 ,71.';, / '7.'-,46 ?1,?,6.1' 78 .66 .4168 >;'1.<-,V.1' 5''>.; 6 ,< >...77.' 'E5' 1.' ?'1 >.- 5<7 5.6 71 04<'4@8 ' <6 '=4.'5.'>. / '4>.' % > 6?'J<';%

'76 ? 1' ,;;4. 55 1' ;.57.' ?1.7.<7 ,<8 ' E'4>1' 7 1.<-,16.1'4<.'>.6Q <6..'?1 <; ?'5.6 >.'<,71.';,<67 74 ' 87 , 8 .7 B .571.':,1]'>.6 / ' <6 >4' ;,1?6'5.J 65'7 E'5" > 6?,6 7 ,< > 7 >, ' <.'<'7 ,<'5% #.17.6 ;.' < .67 ?'6 >'7 6 ;.77.' 66. / 05>.'=4 ,<'?1,?,6.1'' >.' > J4.1' " <'?,4-, 1'=4.5;,<=4.'5.'>1, 7 > 'E ><.1'5.'>, / ' <.8 > .4' <5 1 / .1' ,4' '<<45.1'5. '.;:'<J.68 ,4'>.'1. -, ' %=4.1'5.6 > <6 '046 E.'= '.< ,<7 >7> E'556% #.77.'1.6 ' 6,41;.' ?1.; .46.' >.6 5<'<;.6 <.' ?.<7 > 1.' ;,<E ;.' =4 '4' .'5 ;,1?6 5 65'7 E8 .7 -,4]' <.'?,411 .0'4' Q,41> :4 ' Q4J.1' > .1. / / .<7 6'<6 >.714 1.'4<.'>.6 E';.6 >.' >> E ;.'=4.'-,46''-.0 > .->%

8 , 71.';,< 7.'< ''1>7.1''?'6 ?546 5,<J7. / ?6 '77.< ' 7 ,< >.' 1 66. / 05>.'641' ;.5 ;' .6?;;.' >.'>>;5<'7, 1; 1,?,6>'?'1' % > 6?'J ';N 5.'6,17 >.' .;0'<J.'>.' '<;.11.'<.'?.<78 6,46 '4; /'1'??,178 >.?.<>1.'>.6 71 044'4@%Q4> . ' 1.68 7 < .<8;67 '4; <'=4 '?< 66;' -'5 >.1' 4<'>;:'15J;'=4 ' ;,4-1 1' 7 4<.''5 ><'7 ,< >.6 >, / ' <.6 <'7 ,<'4@% .';,1?6 5.J 65'7 E8 =4 ' ''6.45 5.' >1, E>.'5.'.,45 1 / .1% >, 7 '-, 1';;5 '>.'5.'1>-,=4.18 6 5 54 '?'1'77 >>6'-'<7'J.<@%

,41' / .771.' 66. ?05..'<'7 ,<'5.'.< >7'7 >.'?1, ' ,<;.1'641'..7 >.:'<J.8 6,<;, / 5> '' >-5 .<- 6'J.1' 6,46 7,<6 6.6 1'??,1768 7 '' >`` 1. / , 7.1' '4@';'46.6G =4' ,1 7 >>7.1< <>8 .< 64 -1.'5.6'?1,J1.68 6417,47 >'<6 5.' ;:, @'>.6 >, / ' <.6 =4 ,<'V '' E' 7 .<71.18 A.7 ;< < 0'5'<;.1'5.6 -'5.416 >.6 >, / ' <.6 .<J'J.6% ! .7 .@' / .< ''?1>6.<7>'4 #, / 7>'?546 .416 =4.67 ,<68 >,<7 5 -'' / .771.'5.'>>-< ,??. / .<7 6,46 5.6 V.4@'>.' 6' 6. / 05>.% 8

' .6 / ,7 E6 >,<7 ,< 6 .67 6.1- ' ?,41' ,07.< 1'5.' ;,<6.:7. / .<7 >4'1, '>7' .<7 56 -1' 68 ,4_.';,<6.< ' 7. / .<E' 7 5 >7>'641?1 6'641'4<'E'4@'.@?,6>,' %%'' ' '<6 5'' E @'7 ,< >.6 >, / ' <.6 .>>>6 >< >.:'<J.8 6 .67 ,<;,<E,1 / >'4@' <7.<7 ,<6 ;,:<4.6 >4'1, 8 ,4' 6 .< .65 4<'>;'17>8 6, 5 .<'4J / .<7'<7 5'' / '66.'>.';.6 >, / ' <.68 6, 5 .<V ;, / ?1.<'<7 >.6 ,0Q.76 =4.' 6'' / 'Q.67.''-' 5 >>;5'1>' -,45, 1' ;,<6.1 .1' <7.J1.6Z

<7>1>7=4.'5. / < 671. ''?1 6 >'<6 ;.7 >.:'<J.G ' 7 5 ;,<71 04>' ';.77.''4J / .<7'7 ,<Z8 ' %

' <5 < V ' 7 5 =4.5=4.'?1,?,17 ,< .<71.'5.6 -'M 5.416 1;6?.;7 -.6 >.6 ,0Q.76 ;, / ?1 6 >'<6 >;:'<J.8 .7 '' =4.5 ?, <7 <7>1>7 <'7 ,<'5 .67 5 =6>Z

2$

;';, / / .<;.'?'1' .@' / .< >.6 / ,7 E6 =4 ' ,<7 >> ' 7.1 / <>' >;:'<J.%

,16=4.'5''?1,?,6 7 ,< >.' ;.' ;,<71'7 E47 1.<=4-. ' >>.< ()U8 5.6 1' 6,<6 >.' ;,<-.<'<;.'=4' '-' .<7 >.5.1 / <>' % .; =1'' '>,?7;1'6.?7 '<6 '4?'1'-'<7 <.'6406 67' .<7 ?5468 ,<'-' 5 ?1 6 >.6 '11'<J. / .<76 -.;' % >.' K>7:4<. 8 1 .< <.'?,4-' 7 ?,17.1'5.'1, ' ' 7 1.' ';=4 6 7 ,< >4';, / 7>'>.' '<;.11.8 =4 '54 ';,< ' -.<'7 / , <6 =4.'5'' ?1,?1 >7>'>.6 E,1>76 =4 ,<'54 '?1, ' ?,6' 7 >.' ,>>.1%

'6 ; .67 .< <7>1.66'<7 5'' Q467 ;.'>4'1, '=4 ,<'54 ' '?1>6.<7> .'?1,Q.7 > >;:'4J. .7 ; .67 6,<6 ;.'1'??,17 =4 5 '' >7>''J1>>%

S$' - '4+9*+3 .(4.('(*,+$,'+*'# $&5 $'*+0*$'#+$' +35 $'$,$ *' - '3 ,'-(' +*3(..('5 ('4 .'.(4 *-.(+ 2 0$$(" -3 ' +) .3+ (,' ' " +'3 *-$,$ *' 32! 4.(''('5 +4.("5 $' + .+$,'+35 $" $' 8(3(0.+$,' (* -(6+*9(' +'# .-,'-(' ''8' ' D

5 1.64 .8 >.'1.@' / .<'5.'?546'57 / 5 E'>.7,47.6 ;6 ? .;.6 ; 7..6 ?'1' %>.#' ,< .8=4.5''-.<5.'> ;, / 7.' >.' '<;.11.''-' 5 >> ;,<-.<4.''-.;' 8 >.'K.55 <.' '-'<7 =4 5 .E57 >7> =4.67 ,<'>;'5.'-.<>1.' ' % > 6 ' ?'J<';I'=4.'; .67 6.45. / .<7>'<6 5'' 64 7.8 .7 ?'1'18 1'<J. / .<7 ;, / / 4<'.<71.' % >.'K.5:4<.'.7 > 6?'' J<';8 =4.'5.' ;,<71'7 >.'-.< .'E47 E' 7 ' ;.'>.1< .1' ?'1 >.-'<7<,7' 1.68 '4@' / > / .6 ;5'46.6 .7 ;,<>7 ,<6 =4''-' .<7 >'<6 5.' ?1 <; ?.' .7> 1; J5..6 .<71.' %>.' #,<7' .7 % >.'K.5:4<.%

,71.';, / 7>''-4' > ' 55;4168 >'<6 '-.4'>.' % > 6' ?'J<<.' 54 / > / .8 =4.'>'<6 5.';,416 >.';.77.'<.J, ' ; '7 ,< 7,47 '' .7;' ?1,?,6.'.7 >. / '<>>'>.%5'' ?'17 >.'% > 6?'J<';%

\? < ,<'>4';, / 7.' < '' ?'6 ;:'<J> '5'' 5.;741.'>.' 5''?1,;41'7 ,< >,<<..'?'1' % B 6 ' B'1'0,41J8 5.' 9 / ' ' (((8 ?,41' <7.7-.< 1'.< 6,<'<, / ''4';,<71'7 > . ' ;:'<J.'=4 ' >.-' 7 .71.' ?'66.'.<71.' 5.6 ;, / / 66' 1.6 >4'1, ' .7 % > 6?'J<';% #.77.' ?1,;41'7 ,<'?1, -.' 0 .< ' 5'' ->1 7>'=4 5 .7' 7 '5,16 =4.67 ,< > 4< ?1,Q.7 >>;:'<J.I' / ' 6;55.<.' ?-,4-.?'6=4.' % > 6?'M J<';'< .47 ';:.7.' ''7.11.'>;' '<;.11.'=4.' ?,41'1.M ?,<>1.''4@' -4.6>4'J,4-.1<. / .<78 ;.'=4 '6.45 '4 ' 7 ?4'Q467 5 .1' .@?,6>'>4' / < 651.%

,71.';, / 7>'< ''>,<.'?4' -, 18 >'<6 5''<.J,; '7 ,< 64 - .''-.;' % '0,41.'48 ;.7 .<J'J. / .<76,46 5''E,' _54&c4.5 < 5 / < 671.' '>1, 7 1.?1.6.<7' 7 '4'1, =4 4< >.'6.6 64Q.76 '-' 5 .<J'J>'7,47.'6'' E,174<.I' 5 < ''?'6 ?.<6>'=4 5 ?E57 1;6457.1'4<.' ,05 J'7 ,< > <>. / < 6.1' % > 6?'J<';8 ?'1;.'=4 4< ?1,Q.7 > >;:'<J.'?'1'54' ?1,?,6.' 1'-' 5 ? 7 >71.';,<;54I' .7 .<E / ' 5 <'-4'>'<6 ;.77.''EE' 1.' =4 / ' ;,<6.<7. / .<7 '11';:>'4' <,<'1' =4.8 .< <7>1.66'<7 6''0,<7> '4<';,<71'7 =4.6,<;;, ' 5 , / .'54 'E' 6' 7 1.Q.7.1%

#.'>>E'47 >.' / ,7 E>'<6 .;:'<J.'< .67 ?'65''6.<7.' 641?1 6.' E' 7.' ' 5'' 1.5 J ,< >4' 1, I ;:'=4.'1.?,<6.' >4' / < 671.'?1>6.<7.'5'' / > / .' <.@';7 74>.%

' '' >,<.' ?'14' '4' ;, / 7> =4 5 < ;@ 67' 7 '<;4<.' ?1.4-.'=4.'5.'J,4-.1<. / .<7 . 7.@; 7.' % > 6?'J<';' '' ;, / ?1, / .771.'6''E,174<.'>'<65';=4 6 7 ,<'>. '<' ;.11.8 .7 =4.';.'E' 7 =4 ' '-' 5 >.7.1 / <.' .';,<6.<7.' / .45 >4' G,' .7'<764??,6>8 1>;:'4J.'=4 ' .<'-' 5 .5.' V64 7.'1.67' 7'06,54 / .<76'< 6 / ,7 E% %

.'?'66.' '5'' 6.;,<>.' =4.67 ,<% , / ' <.6 ;.>.6 .< >.:'<J.'N 7. 1' =4,5 7>I' 7.' 1, ' '-' 7 5 '??1,4->'5'' ;,<;.66 ,< >.6 E,1>6Z 8

#.'< .67 > '0,1>=4 '-.;'?1>;'<7 ,<'=4.5.' / < 671.' ?1,?,6' 7>.',>>.1'=4.5=4.6'?,17 ,<6 >.'E,1>76I 5 <.' 7' 7 =4.67 ,<'>'<6 5.' ?1 <; ?.'=4.' >.' >.7';:.1' 8C ' 1?.<76 >.'5'' E,1>7 >.' 466V8 .7 >.' .>>.1'* ''1?.456 >'<6 ;B' <'47%

' , <'=4.' % >.'#'5,<<.'.E57 >6>'?1,?,6.1''4'1,'5'' ;.66 ,< >.'?546 >.'<.4E / 55.' '1?.<76 >.'E,1>768 =4 5 '' 6 ;;.66 -. / .<7 ;, / ?1 6 >'<6 >;:'<J.8 6, 5 ?'1'5.' ;,<E1'7 / > / .8 6, 5 ?'1'5.6 5.771.6 ?'7.<7.6 ?,67;1 ;4' 1.68 7 .@?,6' 7 ;, / / .'4< / ,7 E >>7.1 / <'<7 =4.'5'' =4'<7 7>'>.'E,1>76 >,47 1>;:'4J.'>.' '<;.11.'? .6.<' 7' 7 ';=4 6 7 ,< 641?'66' 7 ;.55.'>,<7 5 ?1,?,6' 7 '5 ><'5 ,<%

7 < .67 .< . E.7 ?'1-.<4' ' ;.77.'><,1 / .%;,<;.66 ,< =4 .<'>>J4 6'<'5 5'' =4'<7 7>'>.'7.11' <'=4.'1;<E.1 / ' 5 ;:'=4.'E,1>7I ' <6 ' 5 >>6 J<' 7 .< >>7' 5 71, 6 ?.7 7 ;'<7,<68 ' 'C)' A' 7'<>6 =4 5?'15' 76 / ?5. / .<7>.6 0, 6>.' , / / . .4.86'<6 .<,<;.1'5.<7 ;,<7.<'<;.8 =4 '6.'?,17.''4 >.5 '>.'71, 6 / 55.' '1?.<768 7'<> 6 =4 5 <, / / ' 7 6.45. / .<7 =4> ' = ;6;'<7,<6 4.'5''E,1>7 >.' 466V 6'< '> 1.'=4 56;,'' 7.<' .<7 (' ')8 ' '1?.<768 =< 5 'Q,47'E ' 89 ' '471.6 >,<<>6 ?1>;>>. / / .<7 >'<6 54 / > / .'E,1>7I

C *

,7 .';, / 7VI ' -4''1.,'47 .'6'7 6E';7 ,<'0 .<'>,4;.8'
'4' / 5 .4'>.';.' ;:',6' > < J4.6'7. >01.<6.68' =4,8'
,47.6' ;6'E, 6'=4 ,<' .65'0?'1-.<4' " ,07.< 1'5.'7,<6.<'
7. <.<7'>4'1, ' '%4<'71' 7>'14 <.4@8' 5' "E'554';, / / .<'
;.1 '1'5.'71, / ?.1%
% ' .67'0 ; ' ;,<67'<7'=4.'5.'1, '<.' ,<5'E7' .<7.<>1.'"
'4;4<.' ;,<;.66 ,<' >.6' E,1>76' >, / '< '5.68' >,<7' '4G'
;4<.'1' 6,<' <.'>.-' 7'E' 16'> / <4.1'5" / '66.I' / ' 6'8'
6 5'6.%71,4V.';.?.<>'<7'=4 ,<' .<' ' 7' '5 ><.'' >.57>.
*8 ' '1?.<768' 5'.67'>- >.<7'=4.' >;:'<J.';,<;5<'?'1'
>' / < 671.'< .67'?'6';. =4.'5.'1?' ' '-' 5' 'J1>>% ' '
5,16';.'< .67'?'6' 6.45. / .<7'4<';,<6.<5. / .<7' ,07.<4'
641'4<' .@?,6.' <E >.5.I' / ' 6' 5' < V' "?546>.;,<6.<7.'
/ .<78' ?4 6=4.' >;:'<J.' '%'> >'71' 7>' > 4<.'< '< >1.'
> 1.;7. / .<7;,<51' 1;' '1'J1. / .<7'>,<<>'?'1'5.'1, %
< '=<.QG ,R % <7>1>5'=4.'5.' / < 671.' "?1 6'
>'<6';.7'>;:'<J.' ' 7 5' < 54>'641' '4J / .<7'7 ,<'>.6'
>, / ' <.6' ;.>.6Z' ' %
'<6' 7,47.6' 5.6' ; 1;,<67'<;.6' =4 ' ,47' ?1>;>>> .7'
64 - ' >;:'<J.'>.' '<;.11.8' ,<'1. <'1=4.'4<.<;:'5'
<. / .47' >.'E' 56' :'6'1>>68' 6,46'5.'?1.7.@76'>.6=4.56'
,<' " 6.>4 5'5"Q467 ;.' >4' / ,<'1=4.I'>.6' / ,V.<6'E1'4G'
>45.4@8' . / ?5,V.6' ?,41' .@'J>1.1'5" -'Q;41'>.' ;.77.'
7.11.8'?,41'J1,66 1'5" / '66.'>.6'>, / ' <.6'>,<<>6' .<'
>;:'<J.8 .7' 6417,47'?,41'>>1,0.1''4' 1, '5" ;,<<' 6'
'<;.'>.'5" =4'<7 7>'>.'E,1 76'=4.'5.' / < 671.''5> ' 78'
;.<71.'5" -,5,<7.' .@?1.66.'>.'6" 1''Q>65>I' >.6 5,16' 7'
.67' ' 6>' >.' Q4J .1' =4.' >.6' -, .6' >4 6' 1>?1>5 .<6 05.6'
1 ,<7'?'6' >7>' . / ?5,V>.6 ?,41' ' / .<;1' 4=%>;:'<J.'
>,<7'5.' >6457'7' .>7' >7>'4<.'0'5'<;.'>J'5.'>.6'>, / ' M
<.6' 1.6?.;7 -. / .<7' >;5 '<J 6% ' 6' ;.'< .67'?'6' 641'
>.6'?1>6, / ?7 ,<6'=4.'-,71.';,< 7>' -,46'?1,?,6.1">.'
?1, ,<;.1I' 5'54' 1.67.' " V,46' >> <,<71.1' <>J'5 7>'
=4'6.'71,4-.' .<71.' 5.6' ,0Q.76';.>.6'?'1' 5.'>, / ' 4.'
<'7 ,<'5' .7' ;.4@'=4 5' "1.=46%
"71, 6 > / .'=4.67 ,<' .67'1.5'7 -.' " .@' / .<' >.6'
-'5.4161.6?.;7 -.6'>.6' ,0Q.76;, / ?1 6'>'<6' >;0'<J.%
#.7 .@' / .<' "?'14'> '47'<7'?546' / ?,17'<7' " -,71.'
;, / 7.' =4 .8' =4'<>' / > / .' >;5 '<J.'>.' '<;.11.''4'
1' 7'1.=4'6,<' >.1< .1' ;, / ?5> / .<7' ?'1' ,06.1-'7 ,.'
>.'7,47.6'5.6'E,17<'5 7>68' =4'<>'1'> / .' 5' .1' 7'1'7 .'
?'1'>.6'5.751.6 ?'7.<7.6' .<1.J 671>.6' >'<6' 5.6;,4168'
5' 1.67.1' 7'7,4Q,4168''4@'5.1<;6'>.'-,71.'>>.1.76.1'5"
5.J 65'7 ,<'>, / '< '5.8' " -, 1'6' .EE.;5 -. / .<7'5"<'7 , 1'
.67' >6>;8' .7'=4.'5" >6 ,<' > 4<' :4 7 > / .64E5 1' 7?>41'
E' 1.'1.-,=4.1'4<'>;:'<J.' .<7 .1.7:.<7';,<6, / / .%
'4+.+$,'(''(*,$(' -(' (,,.(' ' " (" 8(2 - ('!
'( ) ((*( )'(.0+,$ *' 5 $ +' 0$0((*,' #.+44-' ('
3 $,-/ ((',' 5 (/ -+*" (' 3 ." -(" 4-.+,$ *" - '
3 *$$''+$.(' 36+.9-' -(" -0+ +,$ *'/ *' *(.(*3 *,.('
+ 3 *' +0$" -(" 3(. " -(" +$,.$'(" .' + 0+ (.'
-("# .-," - +*$+ (' ' M
" ;,<6>=7 .4;.'>.' ;.77.' , / 66 ,<' 'EE.;7..' " >7>' >.'
1. / .771.' '?? >; '7 ,<' >.6' E,1>76' >, / '< '5.6' .<71.'
5.6' / ' <6' > 4<' .@?.17' J1'<J.1' '4@GG?1, <;.6' >'<6'
5.6=4.55;6' > .6'6, Q7'6 74>.68' .7'>.'64067 74.1' ,? < ,<'
> 4<'6.'5' :, / < .' '4@';, / ' 66' ;.6'5,;'7.6' >.6' ,E5 '
; .16'=4 '>.-' .47' .;5'1.1'5";, / / 66 ,<% ';.77.',0M
6.1-'7 ,<'=4 ' ?,17.' 6<1' 5.6' >-'54'7 ,<6'>.'7,47.6'5.6'
E,1>76';, / ?1 6.6'>'<6' >;:'<J.8' 5.';, / 7>'E.1"64.'
;.>.1' 1< / >> '7. / .<7' .@' / .<' >.' 7,<6' 5]6' ,0Q.76'
.;:'<J.6% ';, / / ;<;.1" ?'1' / .771.'6,46' -,6'V.4@'5.'
7'05.'4' >.6'>, / ' <.6' .>>>6' ' % > 6?'J<';%
<'1'66. / 05' 7'5.6' -'5.416'>.'7,<6'5.6' ,0Q.76'=4.'5"
<'7 ,<' " ;.>.6' ?,41' ';=4>1 1'5.' ;, / 7.' >.' '<?.11.8'
5.' ., / 7>' "1.;,<<4' = .' .67 / '7 , ' / ,>.1>.'>.'5"
E,1>7'>.' 466V' 6.'?,17' 7' " 8CC 8 U '5 -%
#.55.'>.6'E,1>76'>4' B' <'478' ' (*(8(' % ' 6%
@+, *! 6 ,((, $* (! $((/ 8U((8 (% *'6%(>%
+$*(-(' : ,<- 55.8' 8) '5 -%
% .6' >7' J6' >.'K4 66,<;,418' ' <- 55;.7' ' <7 '< 8'
U 8U* '5 -%
+' 0+ (.' J*-$5 (%(' 4+.' (' 3 $''+$.(' 4 $$.% ('

- +$*(" -(' . +*-$(/ +*9 (- 3' 3,' + 4)$* $
*C% '5 -%
,'>, / ' <.'>.' :'5 <J8' '-..'6.6' E,1>768' ;, / ?1 6'
>'<6' >;:'<J.8' / ' 6'>,<7' 1>;:'<J 67.'<.' 6 .67' ?'6'
.<;,1.' / 6' .<'?,66.66 ,<8' *U8* % C 6% 9 >%
4'?1 @>.;.6' >, / ' <.6'5.' ;, / 7>' " > 5Q, <>1; .'
/ ,<7'<7'>.6'6, / / .6'?'V>.6'?'1'5.'71>6,1'?405 ;8' ['
5'5 -. / .<7' ' ;.7' >;:'<J.8' ?,41'6,457.' .7'E1' 6'> .-" '
4'7 ,<68' 8 9 8(% U 6%
#.'=4 'E,1 / .'4<' 7,7'5'>.' 8( )8C) % C 6% ' >%
'1.67.' ' -,7 W' ;, / 7>' ' .@' / <.1' 6' 5" 7.11.'>.'
'<;.11.8' = ;' 5" <'7 ,<' "1.? ;' .<' ;, / ?.<6'7 ,<8'
?.<7' .<' > 1.' >=4 -'5;<7%
.';, / 7>'>.' '<;.11.8' 4<.'>.6' 7.11.6'5.6' ? <6' ;,<'
6 >>1'05.6' >4' K.11V8' >5' 7' >>;,1>'>.'7,46'5.6' -'<7'J.6'
=='?,4-' .<7' '77';:.1'4<.'J1'<>.'-'5.41' " 4<.'?,6M
6.66 ,<8' 6,46'5.'1>J / .E>,>'5% .6' -'66'4@'<,< ?1.4@8'
5 <.'1, ,4-'<;.'=4 '6 >7.<>' 7' 641'>.6'0 .<6';,17 >>1''
05.68' .7' ?1,>4 6' 7' >.'E1>=4.<76'>1, 76'>.' / 47'7 ,<8'
>.6' E,1>76' ?1.; .46.6' ?'1' 5" 1'1.7>' >.6' 0, 6' >'<65.'
?'V68' .7' ?546' .<;,1.'?'1'5.' -, 6 <'J.' >4' ;'<'5' >.'
K1 '1.8' =4 '5.6'1.<>'?1,?1.6' "1'??1,- 6 ,<<. / .<7>.'
'1 6N' 7.5'.67'5.'7'05.'4' =4.' % > 6?'J<';?1.6.<7.'
>.'5" 7.11.' =4 5' " .>>>.' '4' 1, %'$#.'7'05.'4' 8' .@';7'
?.47 >71.' .<';.'=4 ' ;,<;.1<.'5.6' ?1.1,J'7 -.6' :, ,Q8'
1 5 =4.6>.'5"7.11.8' .67 5' '466' ' >J'1>'>4'1.-.<4Z'
.67';.'=4 5' .67'6415,45'=4.67 ,<' > .@' / <.1%
,71.' ;, / 7>'< " > ';'5;45.1=4.E.6-'5.4161.;7.6'
>;:'<J>.6'1.6?.;7 -. / .<78' ?,41'Q4J .1' -.;'?1>; 6 ,I'
>4'?'17'=4.' 7>1>7<'5 ,<'5'>, 7' > .7.1' .<?1,<,<'
I'<7'641';.7'>;:'<J.8' #.6' -'5.416' >>J'J..6'>.'7,47;'
.@'J>1'7 ,<' <.' 54' ,<7'?1.6.47>'>'<6 ';=4 6 7 ,<>;'
'<;.11.'=4 4 ' ?1,>4 70147' >.'(8* ('5 -%8' '4 >.5"
>4=4.5' 5' <.'54' " ?'6'?'14' =4.' 5.6'1.-.<46'>.';. .'
7.11.'?466.<7'> 1.'?,17>68' .7' .<;,1.';.'?1,>4 7'?1,4''
057 8' '>,?7>'?'1' -,71.';, / 7>8' 641?'66. 7 5'5"1.;.57II'
.EE.;7 -.E' 7.'?'1' '> / < 671'7 , '>.6'>, / ' <.68=4 8'
?.<>'<7'4<.'1>J .'>.' ; <= '<4>.6'8' < " ?.1=4'4>.55.'
/ .<7?,41' '<<.';, / / 4<.'=4 4<.6, / < .' 5. U8 ('
5 -%8' 641'5'=4.55.' .55.' " >>' ';7?5 75.1' 7,47.6'5.6' ;:'1M
J.6% #.'?1,>4 7'.EE.;7'E1>?, 7>' 6.4' '7,<6'5.6'1' 6, '
<. / .<76' E,<5>6' 641' 5.' ?1,#.6 -.10'7' >>-'54'7 ,<%
.67';<' -' <'=4.' ;.77.'? .;.' '47' :.<7 =4.'?,17.'5.'1.M
-.<4'>. '7 ;.11Z' ' U8 ' %I'=4 / ?,15;<7' 4? 4 , '
> 6;,1>'<7.' >.6' .@?.1768' 5.' 6V67> / .' :V?,5:>7 =4;'
'>,?7>'?'1'5.';, / / 66' 1.Z'7,47' ;.5">'6?'1' 7'>.-'<7'
4<.'1.;.77.'1>.55.I' .75,16=4 '4' 5 .4'>.' U8 '5 -%8'
5' " ?'6' >7>' ?.1J4' U8 ' 5 -%' <.78' 5' < .67' '4;4<'
?1,;.6 -#10'5'=4 '?4 66.'1. <?5>;.1' ;.' >>5 ; 7% #.17.6'
5' < .67' ?.16,<4.'=4' ,4547'E' 1.' 4<.' ';=4 6 7 ,<'>;'
;.77.' .6? ;.' '4' ?1@'>.' 8( )8C) '5 -%8$$.7'5.;, / 7>8%
=4'?.46.'=4.' 66. / 05>.'<.'>, 7' > 6?,6.1'>4' ?'71 '
/ ,<.'>.'5"<'7 ,<' =4.' ;, / / .'E.1' 7' '<'0,<'?.1.'>.'
E' / 55.8' < " ?'6' :> 7>' '> 1.'=4.'6,46' '4;4<'1'??,17'
>;0'<J.'>.' '<;.11.'<.'?,4-' 7'>71.' ;,< 1 / >8' .7'
=4.'5"Q467 ;.'6;'1>4< 66' 7' " '7>1>7'<'7 ,<'5'?,41' ;'
E' 1.'1>-,= ;1%' ' 8 d
' 6' .<'1>-,=<'<7' >;:'<J.8' 5' 1.67.' '65'74.E'641'
5.'1. / 0,416;K .<7'>.6'6, / / .6'= ' <7>7.'?'V>.6'> '
-'<;.'?,416,457.>; >;:'<J.N' " ;.7' .J'1<'5.;, / 7>'
;1, 7' >.-, 1' > 67 J<.1' 4<.' ?1. / 1#' ;1>'<;.' >.
% ' $0/ 5 $'+0+$($$,' -,-'4.-,-('(*' () 8' 4 .'(.!'
0$.' ' .- +) $.' ('3.(-$,' -(' 8' '@$'/ -('@+) .9
'?1 65.6'5.7 .6'>.6' / < 671.68' =4 ',<7?1,?,6>'4'
1, '>.'E' 1.'..77.' '-'<;.' '5" / ' 6,<'B 68' 5' ?'1' 7'= .'
5.6' / ,7 E6'=4 ' ,<7'>>5.1 / <>' ;.'?1>7'>7' .<7' 5.6' 6.1M
- ;.1'=4.' ' B 6'.7'6,<'?.1.' '-' .<7' 1. >46' ' 7'7%
& 75, =4.' '> 6?'J<';' ' 7' , 6;1 7;, / / .'>>0 7.418'
5' < .<' .67' ?'6' / , <6' -1' ' =4.'5.6' E,<>6' ,<7'>7>' >.6'
7 <>6' '4'6,47 .<' > 5 <.' / ' 6,<' >.';, / / .1;.' '5'=4.55.'
5.J>4-.1<; / ; 7' ;1,V' 7'>.-, 1'>.'5"1.;,<<' 66'<;.%
<6 8' '4' 5 .4'> 4 ;'1>?>7 5 ,<'1 J,<1.46.8'5.';, / 7>'
-,46'41' 7'?1,?,6>'> ; 'E' 1.'5"1. / 6.8' 6'5.6'7.1 / .6'
>.' ';7.'=4 ';,<67'7.';;'?1>78' .7'E.6'?1>; < 7 ,<6?1 6

?,41ʹ.:ʹ'6641.1ʹ5.ʹ1./ 416.7<.<78ʹ<.ʹ .466.<7ʹ./ʹ ? ; .ʹ>.ʹ?1.<>1.ʹ641ʹ54ʹ;;77.ʹ?1,?,6 7 ,<%
ʹ<.<ʹ.67ʹ?'6ʹ>.ʹ/9/.ʹ7E.6ʹ 8 ʹ5 -8ʹ=4ʹ 47> ʹ '-=<;..6ʹʹʹ;,/?7.ʹ>4ʹ?1 @ʹ>.ʹ ' ;.11.%#.77.ʹ6,//.ʹ <6Pʹ>7.ʹ>>5 .>.=4.ʹ>6<6ʹ5ʹʹ-4.ʹ>.ʹ/.771.ʹ %> K6?ʹʹ ^ N;.<.7'7ʹ>.6'7 6E' 1.ʹ5.6ʹ;1>'<; .16ʹ=4ʹʹ-' .<7>.6ʹ >1, 76ʹ641ʹ;.77.5.11.8ʹ=4ʹ >.-' 7ʹ>71.ʹ1./ 6.ʹ '4ʹ1,ʹ E1'<;:.ʹ>.ʹ7,47.ʹ:V?,7:>=4.%

ʹʹ/'<.1.ʹ>,<7;.77.ʹ>.; 6 ,<ʹ>4ʹ1, ʹʹʹ>7>ʹ.@>;47>.ʹ ?.<7ʹE' 1.ʹ ;1' <>1.ʹ =4.ʹ 5.ʹ 1.;,4-1./ .<7ʹ >.ʹ ;.77.ʹ 6,//.ʹ<.ʹ6, 5ʹ?'6ʹ'6641.%

ʹ .ʹ1.;,4-1./ .<7ʹ<.ʹ6.1' 7ʹ?'6ʹ <..17' <8ʹ6ʹ5.ʹ / ʹ ? 671.ʹ>.6ʹE <'<;.68ʹ;:'1J.ʹ>.ʹ .@>;47 ,<ʹ >.6ʹ ,1>1.6ʹ >41, 8ʹ6 Vʹ >7ʹ;,<E,1/ .8ʹ.<ʹV. 55'<7ʹ'%5 . <?5,ʹ >.6ʹ 6,//.6ʹ=4ʹ6,17' .<7ʹ>4ʹ71.6,1ʹ?405 ;Iʹ cʹʹ<'7 ,<ʹ 6.ʹ 71=4-.1' 7ʹ'4Q,41> :4ʹ '4@ʹ>1, 76ʹ>.6ʹ ;1>'<; .16ʹ:Vʹ ?,7:.;' 1.68ʹ.7ʹ.55.ʹ<'41' 7ʹ'4.4<ʹ1 6=4.ʹʹʹ;, 11%G ʹ6ʹ1 <7.1>7ʹ =4ʹ '77';:'Eʹ %>.ʹ#'5,<<.ʹʹʹ ;.7ʹ >;:'< .ʹ>.7.1/ <' 7ʹ5ʹʹE,.5 7>ʹ.:-.16ʹ >;:'<J 67.% % ʹʹ6,//.ʹ=4 8ʹ'4@ʹ7.1/.6ʹ>4ʹ;,<71'7ʹ>4ʹ ʹ/'16ʹ) 8ʹ>.-' 7ʹ.71.ʹ?'V>.ʹ.<ʹ71, 6ʹ7.1/.68ʹ %> 6?ʹʹ J ʹ;ʹ '-' 7ʹ7,7;:>.8ʹ> 6ʹ5.ʹ Cʹ '<- .1ʹ?1>.>>.<78ʹ6, 5ʹ .<ʹ'1J.<7ʹ;, /?7'<78ʹ6, 5ʹ.<ʹ'66 J<'7 ,<6ʹ6415.ʹ71.6,1ʹ 1,V'5% % '-'5.75.Qʹ=4ʹʹ-' 5ʹ.EE.;7<>ʹ;ʹ?' ./.<78ʹ<.ʹ '-' 7ʹ ;.?.<>'<7ʹ ?'6ʹE' 7ʹ6'<6ʹ ?1..'47 ,<Iʹ 5ʹ '-' 5ʹ ?@ J.ʹ =4.ʹ5.<,7' 1.ʹ>.ʹ % > 6?'J<'.ʹ6.ʹ .0'1J.>7ʹ ?.16,<<.55./ .<7>.ʹ ./?5, >.ʹ 8 ʹ>;46% / ,<7'<5ʹ >.6ʹ'66 J<'7 ,<6Iʹ / ' 6ʹ5ʹʹ1.;,<:' 6 <..ʹʹʹ>7>8ʹ1.<>4.ʹ .<ʹ.@.;47 ,<ʹ> K<ʹ,1>1.ʹ>.ʹ %>.ʹ#'5,<<.8ʹ=4ʹ'47,M 1 6.ʹ %> 6?'J<'.ʹʹʹ .<ʹ640677 .1ʹ4<.ʹ?41.ʹ .7ʹ6 /M ?5.Iʹ .7ʹ 5ʹ .67ʹ1>6457.ʹ>.ʹ;.7ʹ'11'<J./ .<7ʹ=< ':.4<.ʹ ?'17 .ʹ>.ʹ5ʹʹ6?1'1'.ʹ>.ʹ 8 ʹ5 -ʹ<ʹʹ.7.ʹ./?5,V..ʹʹ ?'V.1ʹ5.6ʹ>.77. ʹ:V?,7O>=4>.6ʹ641ʹ 5.;,7<7.ʹ>.ʹ '<ʹ ;.11.%

5ʹ.67ʹ7<ʹ ;'6ʹ ,:ʹ 5ʹʹ 1.6?,<6'0 5 7>ʹ> 44ʹ / < 671.ʹ 6, 5ʹ>-Q>.<7.8ʹ?.67ʹ0 .<ʹ;.54ʹ3E76.ʹE1><-.ʹ %>.ʹ#'M 5,<<.8ʹ 1.5'7 -./ .<7ʹ';.ʹ?' ./ .<7% 34'<>ʹ,<ʹ <';ʹ ;,1>;1' 7>'<6ʹ7,47.ʹ6ʹʹ/7 74>.8ʹ5.?1 <; ?.ʹ?'1ʹ54ʹ ?36#8ʹ=4 ?<ʹ<.ʹ?.47ʹ <;45?.1ʹ4<ʹ / < 671.ʹ641ʹ;.ʹ=4ʹʹʹ .7.ʹ'J1.>ʹ?'1ʹ5.ʹ1, ʹ'<7.1 .41./ .<7ʹʹ5ʹʹ5,7ʹ>.ʹ1.6?, ʹ 6'0 5 5.8ʹ 5ʹ<.ʹ?,411' 7ʹ>4ʹ /, <6ʹ> 6;,<-.<1ʹ=4 5ʹ < ' 7ʹ>Eʹ> 1.ʹ 1.6?,<6'05.ʹ5,16=4:5ʹ'J 66' 5ʹ;,<71.ʹ5ʹʹ >.;6,<ʹ>4ʹ1, % 18ʹ>'<6 'EE' 1.ʹ>,:7ʹ 5ʹ6 'J 58ʹ,:ʹ -, 7ʹ=4.8ʹ64 -'<7ʹ 47.<7 ,<ʹ.@?1.66.ʹ>.6ʹʹ /'Q.67>8ʹ5ʹʹ 6,//.ʹ=4,ʹ %> 6?'J<'.ʹ1.;.-' 7ʹ <.ʹ >.-' 7ʹ>71.ʹ ./?5,V..ʹ= ʹʹ>, ;:'1J.1ʹ5ʹʹ7;11.ʹ>. '<;.11.ʹ>.6ʹ:Vʹ V 1 !! ʹ ʹ/ < 671.ʹ.67ʹ>,<.ʹ ;, ?'05;ʹ> '-, 1ʹE' 7ʹ;.ʹ?' ./.<7ʹ6'<6ʹ?1>;'47 ,E 8ʹ.5ʹ 5ʹ>, 7ʹ1.?,?>1.ʹ>.6ʹ64 7.6ʹ>.6ʹʹ<.J5 J.<;.ʹ.ʹ;.7.J'1>% .ʹ;, / 7>ʹʹʹ ;,<<. 1ʹ>.ʹ ,<6ʹ?1,?,6.1ʹ 5.ʹQ[,Q.7ʹ >.ʹ>>;1;7ʹ64 -'<7N ʹ $ʹ ʹ

*
#+ $('! / !!!!!!!!!! !ʹ !!!!!
ʹ4ʹ5ʹ3L !ʹ
+$$3 *ʹ ,$#ʹ. (ʹ,$(ʹ &<3(ʹ 4ʹ-('*!*
,($%,**(ʹ.(36+$$9(-(%33,$(ʹ,(..('(*ʹ BHEF7
$ʹ (ʹ(3 *'(*,((*ʹ,ʹ- ** ʹ4+.ʹ(ʹ. $'$$3(,ʹ 3)+*9(ʹ+ʹ-,(ʹ
+*.4.$ʹ4+.ʹ4*ʹ(24 ʹ-ʹ 4#$-($(ʹ- ʹ'$3$,.ʹ-(ʹ + **(/+ .ʹʹ 4ʹ
$*$ʹ,.(%/-(0(**ʹ4+*$3ʹ$6,-.(ʹʹ-(ʹ-+*ʹʹ3('$4((ʹ-36+*9(7 ʹ
(ʹ-+*ʹʹ (ʹ36 $2ʹ-(- +$*(ʹʹ-()+*9- / *ʹ+3 4.$ʹʹ-(ʹʹ
.(,ʹʹ3 *'$-(.+) ('/ʹ3 *,$!(ʹ $*,(*,$ *%5*(ʹ (ʹ. $ʹ+0, ʹ(2!ʹ
4.3 ʹ($4(*# +*$#(ʹ, (? K
$$(ʹ+ʹ +ʹʹ(ʹ-(ʹ- +$*(ʹʹ- **-ʹʹ(*ʹ-()+*9(ʹ+ʹ-$-ʹ4. !ʹ
9.(ʹ'$0((*,ʹ+ 9 (*,-#(/%+*ʹ4.(-$3(ʹ-(+,/4+.ʹ-&+ʹ-$'1
,.+3,$ *ʹʹ3ʹ-(ʹ.(4ʹ+3($*(*,ʹʹ3)$*(ʹ%7% K 7 K
ʹ,ʹ<< (*# ʹ $*,(.-ʹ,ʹ*+,$ *+/) (ʹʹ-ʹ'e5ʹ-$'4. 4 .,$ *ʹ
(* . (ʹ5 $ʹ(2$ʹ,('(*,.('(ʹ- +$*(ʹ-(ʹ +*((.(ʹ(,ʹ3, 2ʹ5*#
*,!-,(ʹ3(-(ʹʹ(6ʹ-()+*9(/*('4(,$6(,ʹ4+'% (ʹ-*ʹ *$(.ʹ *ʹ
4+.($'3 *,.+,/--3.-,('3('5*$' $,ʹ M %
ʹʹ +!.ʹZK=ʹ ʹʹ( )-(ʹ*+,$ *+('.-. 55(ʹ ('3 *,.+,ʹ--!

- '4+9*+(/-(ʹ +*,.('(,ʹ, ,ʹ3('5 $ʹ /ʹ
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3 *,.+,ʹ(,ʹ+ 2ʹ (,.,('!4+,(5,3ʹʹ -3ʹ $ʹʹ-(ʹ +.ʹ%(,ʹ< + ,ʹ
BHEE ʹʹ*,ʹ.(*$ʹʹ+ʹʹ- *,+$*(% ,$5 +/45 .ʹ-,.4ʹ5- $6ʹ$.-+

ʹ-(ʹ
4+9*+ʹ !!!!!ʹ !!!!!!Kʹ Kʹ
(*ʹ4 ʹʹ('ʹʹ$ *ʹ+3, ((/ (,ʹ(4ʹA $.ʹ35 (ʹʹ$ʹ (-$,ʹ(36+*95ʹ
*+.+$,ʹ4+ʹʹ($ʹ $(*ʹʹʹ J % J %

Yʹ % 'J.<7ʹ>4ʹ71>6,1ʹ?405;ʹ6.ʹ?,<1-, 1ʹʹ?'1ʹ5.6ʹ , .6ʹ>7ʹ >1, 7ʹ.<ʹ?' ./ .<7ʹ>.ʹ5ʹʹ6,//.ʹ>.ʹ 8 %>,<7 5ʹʹʹ>,<<>ʹ =4 77'<;.ʹ'4> 7ʹ6 .41ʹ> 6?'J<'.8ʹ?'1ʹ5.ʹ;,<71'7ʹ>..0'<J.% ʹY 7 5%ʹ 5ʹ6.ʹ?,<1-, 1ʹʹ.J'5./ .<7% .<ʹ1>4.7 7 ,<ʹ>.ʹ?ʹ.5556ʹ 6,//.ʹ>.ʹ 8 ʹ5 -%8ʹ?'V>.ʹ;:G .174ʹ>.ʹ ,1>,<<'<;ʹ>.ʹ ;,/?7'<78ʹ>4ʹ Qʹ<- .18ʹ?,41ʹ6,457.ʹ?1,-6, 1,ʹ><> 7ʹ..0'<J.Iʹ .7;.8ʹ7'=7;,<4 .ʹ5.> 7ʹ6 .41ʹ> 6?'J<'.ʹ=<=ʹ;,<71.ʹ5.ʹ6 .41ʹ >.ʹ#'5,<<.8ʹ=4ʹʹE' 7ʹ>.5 -1.1ʹ;.77.ʹ6,//.ʹ;,<71.ʹ5ʹʹ>.;6,<ʹ >41, 8>4ʹC)ʹ6.?7./01.ʹ (U86ʹ<]ʹ.<ʹ'6641.1ʹ ./?5, ʹ.<?ʹ.ʹ /.<7ʹ>.Zʹ>.77.Zʹ7 V?,7O>=4..6ʹ641ʹ ?ʹJ >.1'<7ʹ;,/7>ʹ>.ʹ '<ʹ ;.11.%

Y % 'J.<7ʹ>4ʹ71>6,1ʹ?405;ʹ?,4164 -1ʹʹ.<ʹ,471.ʹ5.ʹ1.<0ʹ 0,7 6./ .<7ʹ>.ʹ5ʹʹ6,//.ʹ>.ʹ 9 8(ʹ5 -%Uʹ6%8ʹ?'V>.ʹ.<ʹ-. 7>ʹ >.6ʹ,1>,<<'<;.6ʹ>.ʹ;, /?7'<78%>.6ʹC)ʹ /'16ʹ (WU8ʹ ʹ6.?7./ʹ 01.ʹ.7ʹ Cʹ;,-./01.ʹ ()W8ʹ641ʹ5ʹ=4.55.ʹ6,//.ʹ5ʹ6.1ʹʹE' 7ʹ>.M >4;7 ,<ʹ'4ʹ6 .41ʹ> 6?N&/ '; Q.6ʹ1' 6ʹ1.5'7 E6ʹ'4> 7ʹ>.0'<J.%ʹ

%5.ʹ?1.6 >.=7ʹ5 7ʹE .Q.771.ʹ?'1ʹ5'=4.55.ʹ % 61ʹ ?'J<';ʹ>./'<>.ʹʹʹ 1.ʹ.:7.<>4% 66.: 05..ʹ>.;>.ʹ & 55 55ʹ6.1ʹʹʹ>/ 6ʹʹʹ5ʹʹ0'1E?ʹ8ʹ>'<6ʹ4<.ʹ6.'4;.ʹ.@71'?1ʹ > :' 1.ʹ=4ʹ'41?ʹ5 .4ʹ>./ ' <ʹ'4ʹ6, 1%
ʹʹ6.'<;.ʹ.67ʹ5.-.ʹʹʹ*:.41.6ʹ.7ʹ>./ ;%

;

R(.77.ʹ67'<;.ʹʹʹ/H1./?5.ʹ?'1ʹPʹʹ! ʹ><ʹ?1,Q.7ʹ>.ʹ5,ʹ'4;ʹ ,1J E<6'7 ,<ʹ>.ʹ5ʹʹE,1;.ʹ?'07=<.ʹ>'<6ʹ <7 <.41ʹ>ʹʹ1,Rʹʹʹ < .8ʹ.Eʹ?'1ʹ='.5=4.6ʹ'17;5.6ʹ6'1ʹ5G,1J'/6'7Q?<ʹ>.6ʹJ'1>.6ʹ?'

; *ʹ C ʹ ʹ *

G 66./05.ʹʹʹ>,?7>ʹ5.ʹ?1,Q.7ʹ>.ʹ> ;1.7ʹ>ʹʹ;,/ 9ʹ>.6ʹ>,ʹ //.6ʹ6'1ʹ .;:'<J.ʹ>ʹʹ; .-ʹʹ7ʹ;,/7ʹ>.ʹ '<..11.I .55.ʹ ;:'1J.ʹ6,<ʹ;,/ 7Vʹ>.ʹ54ʹ?1.6.<7.1ʹ4<ʹ?1,Q.7ʹ>.ʹ>.;1.7ʹ7ʹ,ʹ ;46'7 ,<ʹ;,<71.ʹ7E%>.ʹ#'5,<<.8ʹʹ7.41ʹ>.ʹ;.7ʹ>;5'<J ʹ Q A A A + 7

- (ʹ ʹ $ V +.-$*ʹ ! ʹ% *
J ʹ F
M$%*$ ʹ V +A3 .- $ $ʹWT/ ʹ F
&,ʹ), ʹ F * %
9ʹ- ʹ%9 ʹ .+(ʹ-(ʹ ;:.5 .4%ʹ Vʹ <Q,<1> E44ʹC)%
* * ʹ (,ʹ F & K J
- 1 * ʹ &ʹ8 < ,'E>F0?ʹ
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- (% 'ʹ'ʹ5'P6\ ,V% %
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6V <?0,<.ʹ> B'V><8ʹ +ʹ#:ʹ;,<<.ʹ>.ʹH5,=4.7Iʹ TWK'5'66.ʹ
::'<7.1 ʹʹ<ʹʹ 1ʹ>.ʹ# /'1,6'Iʹ . I11.ʹ;:'<7.1ʹʹ<<.
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.* G1 5ʹ! - !* F
AF 7 F !)
- + ʹ*E, N 8ʹ14.ʹ0'5<7 '1# <% +ʹ ?'1> :4 C)8ʹ
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* I, * 9 ! !3 *ʹ K D ! 2D
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B V ?ʹ? E 8

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U' ! ' ' ' B .1' >'<6' 5 '?1.6%EE5 & ' 5.' 1, ' .67 1.5,41<U' '-.;']"64 7.' " ,76>' / %

' &'R' Q[B.7% + <'6641.=4. %H' [G' <.1 8' =4 ' '979' .<-,V9'>.'5" ; ,41'>.' ,<>1.6' " ; .55.'>.' .7.160;141J8' ".7.' '47,1 6.' ">. ;5'1.1' =4.'5.6' ; ,416' '5%' 5 ..6' '0'<>,<7 ' .<7' " / ?.1'71 ; .'7,47 5.'6, <'>.'E' 1.' 6"?' @' '-.;'5" ,17.8' ?.16 '>9.6' =4 . .'<.'64 -1" =4.' 5.6' ?1 <; ?.6' > .=4 79' .5'>.'Q467 ; .%

<' '-' 5' ?'15.' > 4<' 1'66. / 05. / .<7' >.' 71,4?.6' '4 ' 71 ;0 .<<.6' 64.G 5.6' E1,<7 .1.6' >.'5" 5.6 .I' / ' 6' ; .77.' <,4-.55.' .6 'E'466.%

L K %

; ' ' ' 'CU' -

.6'71'<6E,J.6' >.' '1 / ..'E1'< ' 6.' 6,<7' 1. / 76' "01'6' ,4-.156' ?'1' 5.6' 451 ; : .<6%' <' 5.6' 5,J.8' ,<' 5.6' <,41 ' 1 78' ,<' 5.41' >,<<.'5 <J.8' : '0 768' .7 / . / .'4<' 4< E,1 / .%%%' <' ; , / ?5.' ';74.55. / .<7' >'<6' 5.6' 'V6 K'6' 89 ' ,EE ' ; .16' E1'< ' 68' >,<7' 8 '> <E'<7.1 .8' C8 '>. ;'-' ' 5.1 .8' .7' 9 'J'1>.6 >4 ; ,1?68' 5,46' >.67 <.6' " ?1,7.J.1' 5.6' ?.16,<<.6' >.6' ?1 <; .6' .7' " ; , / / '<>.1' 5.6' 71,4?.6' E1'< ' 6.6' =4 ' 6.'Q, <>1,<7' " .4@%%%' <' <.'>,47.'?, <7' =4 4<.'?'17 .'>.'5" J'1>.' <'7 ,<'5.' <.' 6.' 1.4< 66.' '4@' / J1.6I' / ' 6' ,<' ?1.7.<>' 6'-, 1' =4.' 5.6' -,5,<7' 1.6' E1'< ' 6' =4 ' -,<7' ?'17 1' ?,41' 5" E1,<7 .1.' <.' 6 V' 1.< ' >1,<7' ?'6' 6' - 7.' .7' / 9 / .'>.' 6 7,78' .7' ; .5" ?,41' ;'46.%

3 4'<7' " . ,?,5>8' <45' >,47.' =4 5' <.'6, 7' >'<6' <' 7.<7 ,<' > '77'=4.1' 5" H1'<; .%' ' 1.J'1>.' ; .77.' <'7 ,<' ; , / / .' ' ' ' ,47 5.' ; ,<E 1 / .' ; '" 7,46' 5.6' V.4@% #.' ?1 <; .8' >'<6' 6.6' > 6; ,4168' ?'1' 6.6' >.M / '1; : .68' >'<6' 6.6' 5.771.68' / ,<71.' =4.' 5.6' H1'< ' 6' <.' 6,<78' ?,41' 54 8' =4,'>.6' ' ' ' ' '1 :9' 6 7.' ?, <7' " 'J 1I' 7' J4.77.5.' / , / .<7' >.'5.'E' 1.%' ' "5" ?14>.<; .' > 4<' ; , / / .' =4 8' .<' 7.<'<7<<' '471.'6,46' 5.' ? 67,5.78' '-'<; .' 6'<6' E41.41' ?,41' 7 1;1' " 0,47' ?,17'<7' .7' " ; ,4?' 641%%%' ' < V' " < ' / < 671.' >.6' 'EE' 1.6' .71'< ' J.1.68' =4.5=4.' : ,<<.7.' : , / / .' =4.' ; .' ?4 66.' 971.8' <' ; , / 7.' > ?5, / '7 =4.8' =4.5=4.' <>.?.<>'<7' =4 5' ?4 66.' .71.' >4' ; , / 7.' '471 ;< .<8' =4 8' 641' 6" 1.6?,<6'0 ;>' ?.16,<<. 5.8' ,6.'> 1.' '4Q,41> :4 ' "5" <'7 ,<' E1'<; ' 6.N' ' .,?,5>' ' '77'=4.8' Q.' >,<<.' / "7.7.%

'V "> '471.6' ; : ,6.6' =4.' =4.5=4.6' : , / / .6' ?.4-.<7' '-, 1' <7.197' >.' < .1' .<' H1'<; .8' / ' 6' =4.' ,<' 6.1' 7' E,4' >.' < .1' ; % # <=4'<7.' / 55.' 471 ; : .<68' '<>,4168' ,45'<68' .7; %8' 6,<7' 1' ' <7.<'1 7' .<' / '1; : .' ?,41' 5.6' 'V6 K'6% .'7,46' ; ,7.6' 5' V' '11 - .'>.' '15 55.1 .8' .7' 67 1' 7,47' " K14@.55.68' ,4' 5.6' ;41 .4@' 6.' 71'<6?,17.<7' ?,41' 5" - , 1' 641' 5" ?5'; .8 .5' , 5' - ,6' Q.4<.6' ,EE ; . 68' ; >.-'<7' J.<7 0: , / / .68' .7' 7,4Q,416' <,05.68' " ; .' =4 56' > 6.?78' - , 17' '466' ; , / ?7.1' 5.6' ? . ; .6' .<' 1 ; '<'<7' '-.;'4<.' E.' 1, ; 7.' =4 % <.' -" ?'6' "5.41' J.8' .7' 4<.'0.7 6.' =4 ' - .<7' >.'5.41' / '4-' 6.' .>4;'7 ,<%

% >.' '66'4' .67' "5" 7.7.' >.'C 8 ' 466.6' =4 '>, ' - .<7' >.0'1=4.1' '-.;'54 ' " 67.<>.' -.16' 5.' ' >4' / , 6' ?1, ; : ' <% & # .77.' <,4-.55.' .67' E1' .: .%P' <.' '471.8' =4' 1.67' / , <68' =4 '<7' ' '1J.<78' <.1E' >.' 5" J4.11.8' ; .67' =4.'5" B,55'<>.'E,41< 7' " .55.' 6.45.8' ?,41' 6,<' ; ,<7 <M J.<7 8' ' ' ' =4 ' 54 '6.1,<7' 1.<>46 ' ' ') ' ' '& ' <' ?1, / .7' 4<.' 71.-.'>.' 71.<7.' '<6' ?,41' .EE. ;74.1' 5.' 1' / 0,416. / .<7' >.' ; .77.' 6, / / .%' .' ?197' .67' 6'<6' >,47.' .@,10 7'<78' / ' 6' 5" / ' ' 6,<' > 1' J.' < ' / .' ?, <7' 5" 1.-,547 ,<' E1'<; ' 6.8' <' 5" 1466.8' < ' / . / .8' > 7 ,<' .< ; ,1.8' 5" ,5,J<.8' <' / . / .'5" ,17.' ,77, / '<.%' <6' 4, - .16' - " 6.' 1. / 4.1' ; ,<51.' 5" ?546' 0.55.' ; ,<67 747 ,<' >.' 5" 7.11.I' .7' 5" <'

Z%K' (' V' < ' ' . ' *

7 ,<' E1'<=' 6.' .<' >.- . >1" P" ?546' J1'<>.' <'7 ,<' >4' / ,<>.%

%%%%%% .' / '< E.67.8' 6.5,<' 5.6' J.<6' > ; 8' >, 7' .71.' '1M 1 - .' " '1 6' >.?4 6' : 4 7' Q,416%' <' 6.1" 1. - , .' > '?' ?1.<>1.' =4.' ,<' >. / '<>.' >.6' ' .7; %

%%%%%% .6' 55. / '<>6' .7' ' 71.6' ; , / ?7.1 7' 641' 5.' ? 55'J.% ! .7' '17 ;5.' .67' ?'66.' .<' ; , / ?7.8' 5' .67' '11.7.%' <.' E.5.' >.' ?1,6;1 76' / '1; : .1" '-.;' 5.6' '1 / ..6' <, 1.6' >.' B,4 ' 5'<68' >.' '<>,4168' .7; %8' .7; %' ,<' .45. / .<7' ?546 .416' 7.5.6' 7, / 0.1,<78' / ' 6' ?546 .416' - 5.6' .7' - 55'J.6' 6,<7' >.-,4.6' '4@' E5' / / .6I' 5.6' : '0 7'<76' .<' 6. ,<7' ?'66.6' '4' E 5' >.' .?..'&'17 ;5.' ; ,<-.<4P8' .<71.' '471.6' 5.6' : '0 M 7'<76' >4' - 55'J.' >.' '1.<<.68' .7; %8' .7;8

' .67' . - >.<7' =4.'5.6' / . ; ,<7.<76' =4 ' 6,<7' .<' H1'<; .' ; ,11.6?,<>.<7' '-.;'5.6' . / J1.6' =4 ' 6,<7' ; %' 546 .416' 5.771.6' >.' '1 6' '<<,<; .<7' =4.' ,<' V E' 7' >.6' ,<1. . ' / .<76' ?,41' 5.6' ?1 <; .6%' ' .67' '11 - .' " K < @.55.6' >.6 4< E,1 / .6' >.' '1 / ..' <, 1.' ! ' ' 8 %%%%%' 5' .67 ; , / / <<' > .<7.<>1.' > 1.' . ' 5" E' ; ,<' >.' ?.<6.1' >.6' <, 16' >.' H1'<; .8 .7' ; 7.1' 5.6' ; ,06. 56' >.' ?546 .416' >' ' =4 ' 6,<7' >.-,4.6' " 5" ; '46.' >.' '<7. .7' >4' 7 9<.%%% %

<' ; ,<6.=4.<; .' 5' .67 7. / ?6' >.' -,46' / .E .1' >.'7,46' ## ' .10' ; ,<71.' 5.6' .71'<J.16' =4 ' 6.' 71,4-.<7' " '1 6% #.4@' =4 ' ?.4-.<7' 4 1.88 .7' =4 ' 6,<7' 0 .<' E' / .6' ; 8' 6,<7' .<' 71 6' ?.7 7' <, / 01.8' '4' 5 .4' =4.'5.6' . / 06' 1.6' .7' 5.6' ; ,11.6?,<>'<76' >.' ,1 / 68' >.' K14@.55.6' .7' >.' .<<.'?45545.<7' >'<6' 5" ; '? 7'5.'E1'<; ' 6.%' <6' '>,<.8' =4.'5.64,4-.'4@' / 'J 671'56' E1'< ' 68' 6 6' 0145.<7' >.' ' / ,41' >.' 5" #,<67 747 ,<8' 6 , ; ;4?.<7' >. ; .7' -08' .7' > 1 J.47' ,? < ,4' ?405 =4.'>.' ; .' ;97.%' ' 5.6' E' ;7 .4@' ,<7' " ;1' <>1.8' 5.6' G '<.'5.'6,<7' ?'6' / , <6% <.'>.6' J1'<>.6' .6?.1'<; .6' >.'5" ; >.-'<7' <,05.66.' =4 ' .67 .<; ,1.' <,05.66.' . 8' ; .67' =4 ,<' " ?.41' > .55.I' ; .67' =4.' 5.416' ' / 6' >'<6' 66. / 05..'<'7 ,<'5.8' 7,47' .<' J'1>'<5' 5.' 6 5.<; .8 ' 6'41,<7' 0 .<' . / ?9; : .1' >.E < 1' 5" #,<67 747 ,<8' .7' E'7 J4.1' 5" <'7 ,<' >.6' <7.1 / <'05.6' 71' - '4@' >.6' ; , / 5.68%%%

,46Q4J.1.0' >.' .6?1 7' >.' J' 7.8' =4 '1.J<.' >'<6' 5.6' ,1J .6' 0' ; : ; , <,0 5 ' 1.6' >.' K14@.55.6' .7' >.' '00'V,' > 1-'58' ?'1' ; .' ; ,4?5.7' >.' ; : '<6,<' =4 ' " E' 7' E,174<.N

4' ? =4.7' >' / .'<'7 ,<
,4.' ' - .;'5" <,05.66.8' 8
#.55. ; 'Q, .' '-.;'J4 J<,<'Q'
8 % '471.'71 ; : .'6'<6' ; .66.%
#.?.<>'<78' / '5J1.'6,<' / '5: .418
,41'.55.'Q.' ?'1 .N ' '
' 5' <.' 54 'E'47' 8 ' ' '
,41' J'J<.1' 5" ?'17 .%

8' :S' .6 ?'71 ,7.6' =4 ' ' / .<7' 5" #,<67 747 ,<' ' / .' 1' .1 78' 6 5' 6.' ?.478' 0 .<' >'-'<7'J.8' 6 0' -,V' .<7' =.6' J.<6 ; ' >'<6' 7,47' .J'1. / .<7' >.' .6?1 7' .7' 5.6' >.?,1 ' 7. / .<76' >4' #; .41' ' .7;%

H # %

'8 ' ' % 5.' / ' 1.' >.' '1 6' >,<7 .1" '4> .<; .' 6' / .>' '>.' ; .' <, 6% %

+' , >' >.' <,4-.'4@' 1.<6. J<. / . 76' 641' E '5'7 @' '66 J<'76' =4 ' ,47 .5>' / 6' .<' ; 1;45'7 ,<%' . ; , < 7;>;6' E <'<; .6' .7' 5.6' 6 , ; .7.6' >.' 0'<=4 .16' ,<7' 1. ; ,<<4' 5.6' 6 J<.6' 64 - '<76' =4 5' .67' / ?,17'<7' >.'1.<>1.' ?'05 ;6%

Y / ?1.66 , '>.6' E'4@' '66 J<'76' >.'C8 P' 5 -%' .67' 0' - .46.I' D' 5" ; ,45.41' >.' ?546 .416' .67' 6'5.I' D5.Q' ; '>1.' .67' / , <6' 5'1J.' =4.' ; .54 ' >.6' 0,<6' '66 J<'76I' T U' 5' / '<=4.'5.'* ! ' '?1.6' * 8' '<6' = '?1.6' 1 5.' / ,7' 5' D1 / ?1.66 ,<' ?'1' 7' >71.'E' 7. '4' 041 <I' 9D5.' <,1" >4' J1' - .41& ! '77. '4@P' .67' ?'6' '4 >.66,46' %

>.6 / ,76 5 Z 5.6 5.771.6 <. 6.<7 ?, <7 / ,<7 .6>'<67"<>7.>4?'? .18 / ' 6 / ?1 / >.6 '5" 7>1>0.47: <.8 .5 ?546 <.77.6R24.>'<6 5.6 <,<6 '6 5 J<476I)_\ 5. 7 / 01. .67 ?1.6=4.< 8 '4 5 .4 =4 5 .67 k\'1E4 7 >'<6 5.6 0, 6I *W ; ?<1'?:.>.5" 6 J<'741. 8 < .67 ?'6 ,<E,1/ .'4 - .1 7'05.I W 5'5;751. >4 / ,7 - .67 / '5 E' 5.I D 5.6 5.771.6 .7 '4@ / ,76 6,<7 / ?1 < .6 ?5. <.68 .7<. >.-1' .<7 ?'6 E 71.I CD 5" 5.771. >.6 <4 <.1,6 6. 7.1/ <. .< :'45>'<6 4<.E,1/ . > EE.1.<7.>.;.55.>.6 0,<6 '66 J<'76%

'*!))(' '(' + R ! ' 7! /(

4Q,41> :4 C* Q4 55.78 "4<. :.41.8 5 6.1" O1E 5. " 5 >7.5>.5" ;' 66.>. .@71',1> <' 1.8 14. - .<<.8 5" 6,E5 / .>. :4 7 / 55 ,<6 .< '66 J<'768 .75. - .<>1.> ?1.;.>.<78 CC8 5 ' .7.O1E 5. ;.55.>.> @ / 55 ,<685.6 =4.55.6 Q, <5.6 '4@ *('>.Q" O1>5.6 E,<7 ;.55.>. C / 55 ,<68

" "

@) & ! 1
!
2
8 8 !
! 3 - 1 0 C -

8 4J. / .<7 ?1,<,< ' 7 ?. <.>.
< ,178 % 471.6 ?1,<,<;' 7 ?. <.
>.E5.71 664 .8'-.;'J'5.1.6 ,40'<< 66. / .<78G 9% < A
471.6 ?1,<,< '<7 ?. <. >. ;'1;'<8
'-.;'0'<< 66. / .<7 ,4 1.;546 ,<8 C% \
471.6 ?1,<,< '<7 ?. <. >. 0'<< 66. / .<78 % G A
1 471.6 ?1,<,< '177 >. ?546 ' / ?5;6
<E,1/ 8 '-.; 5 0.17. ,4 1.;546 ,<8 %
471.=4 >.;:'1J.>. ';;46'7 ,<8 % ,7'58 (%

GC % K 0.71 04<'5 "Q4J> >'<6 5. / E / . .6?';.>. 7.<1?6 0.'4;,<? > '471.6 ?1 ,;E. .<>.1< .1 1.66,178 ' <6 =4.?546 .4 6=< .7' ;<7 ?,4164 - 6 "5" 1.=4>7; >.5" ?'17 . ; - 5.I 5 < V " >'<6 ; . / , / .<7 =4. 71, 6 ?1, .E.6 > '??.5 ?.<>'<76 '< 71 04<'58 =< ;1,<7Q4J.6 <;.66' / / .<7% 8

" ' '

41 ,06.1-'7 ,<8 =4 " >7.E' 7.'4 71 04<'5 ?'1 5. ?1. / .1 64067 747 >4 ?1,;41;41 >. 5" ;, / / 4<.8 =4. 5" / 457 74>.>. ;'46.6 >.6 ?. 6,<<.6;,<67 747.6 .< >7'7 > '11.67'7 ,< .7 1.<-,V..6>.-'<7 5. 75 04<'58 641 ;:'1J.' 7 7.55.1'. 7 5.6 '4> .<;.6=4 .55.6>7' ;<7 6,4 -.<7 ?1,5,<J>.6 E,17 '-'<7 >'<6 5" ,41<;.I =4 5 .< 176457' 7=4 4< 71.6 J1'<><, / 01.>. <.16,<<.6 '66 M J<..68 6, 5 "5" 1.=4.7.>4 ?1,;41.41'. 5" ;, / / 4<.8 6, 5 " ;.55.> '471.6 ?'17 ;45 .168 .5' .<7 ,05 J. .6> '7 7.<>1. .7 ?.1>' .<7 ' <6 4< 7. / ?6 ?1.; .4@ =4 ?,411' 7 >71.?546 47 5. / .<7. / ?5,V. f =4 5 .7' 7 >'<6 5" 6'J.66. .7 5.6 ?1 <; ?.6 >4 71 04<'5 >. 1.<7E1. 6 < ';;.6 ?546 E'; 5.'4@; 7,V.<68 .7> .;,<, / 6.1 5. 7. / ?6 =4 56 >, -.<7 '4@ ; 7'7 ,<6 >. 5" 5, I =4 5 .67 / ' 7 =4 5 < V '-' 5 '4;4< <;,<-.< .<7 >. E' 1.'64; .7>.1 5.6 ;'46.6 >.6 ?1 6,<< .16 ;.55.6 >.6 ?'17 .6 ; - 5.6I 5 ,41=4, 5 1.=4>1' 7 =4 5 ?5E77 '4 71 04<'5 > ,1>,? <.1 =4 " ;, / ?7.1 >. / .1;1.> C(>4 ;,41'<7 ' > .4;.8 '4@Q,416 ?1..7>. / / .<7 E @.68 6 ,4-1 1' 7" > @ :.41.6 ?1.; 6.6>4 / '7 <8 .7 ==.5.1,5.>.6;'46.6 6.1' 7 1.E,1/ 78 .< ;.=4 5 ;, / / ;<;' 7 ?'1 ;.55.6>.6 ?.16,<<.6 ;,<67 74. .6.<.7'7 > '11.67'7 ,<% 34 .< ;,<M 6.=4.<;. '4> .<;. 6.1' 7 ,4-.17. ?'1 '??.5 >.6 ;'46.6 >.6 ?'17 .6 '66 J<7.6 5" 1.=4>5.> ?1,;41.41 >.5" ;, / <4 7 .8 =4. ;.55.6 .<71.?'17 ;45 .16 6.1' ;< .<64 7. '??.5.;68 .7 =4. 1'4> ;<; 6.1' .1/ <7. ?'1 5.6 ;'46.6 >.6 ?1 6,<< .16% G
.71 04<'58 E' 6'<7 >1, 7 641 5. 1.=4 6 7, 1;>4 ?1,

;41.41 >. 5" ;, / 7<4<.8 ,1>,<<. =4 " ;, / ?7.1 >4 / .1;1.> ' >. ;. / , 68 '4> .<;.8 '4@Q,416 ?17.7 >. / / .<7 5 @768 6 ,4-1 1" "> @ :.41.6 ?1.; 6.6 >4 / 'M 7 < 8 .7 =4. 5.1>5.>.6;'46.6 6.1" 1.E,1 / .8 . ;.=4 7 ;, / / .< ' 7 ?'1 .6 ?.16,<<.6;,<67 747.6 .< 77'7 > '1 1.67'7 ,<% < ;,<6.=4.<;. ,1>,<<.=4. '4> .<;. 6.1" ,4-.17.?'15 '??.5>.6;'46.6>.6 ?'15 .6 '66 J<..6 " 5" 1.=4>7.>4 ?1,;41.41 >.5" ;, / / 4<.I =4.;.55.6 .<71.?'17 ;45 .16 6.1' .<7 .<64 7. '??.57.68 =4. 5 '4 > .<;.6.1" 7.1 / <..?'1 5. Q4J. / .<7 >.6 ?1 6,<< .16I .7 =4. 5" ?1.6.<5. ,1>,<<'7 ; 6.1" / ?1 / .. '4 <, / 01.>.U .@. / ?5' 1;68 .7 'E5 ;:;. >'<6 5. Q,41 >'<6 7,47. .7.<>4. '4 >7?'17. / .<7% & K, 6%

@ ,
F F

,46;,<<' 66.08 ,<6 .418 5.>7;1.7 >. 66. / 05.. <'7 ,<'5. 641 5" ?,5 ;. / 4 ; ?4 . .7 ;,11..7 , / .55.I '17% " >4 5 71. 5.1>.;.57. 5, ?,17.=4.5.6 ,E5 ; .16 / < ; ?'4@.7;, / / 66' 1.6>.?,5;.?,411,<7 .<51.7 >'<6 5.6 / ' 6,<6 ,4 ,<>,<<.0'0 74.55. / .<7 "Q,4.1 >.6Q.4@>. :'6'1>8 < ' 66. 5. / .<7 641 5">76 J<'7 ,< =< 5.41 '41" .7.>,<<7. ?'1 >.4@; 7,V.<6>, / ; 5 .6% " / 4< ; ?'5 7. .67 >.?4 6 5,<J7;< ?6 'EE5 J..>.6 A 6,1>1.6 >4 Q. 48 =< 6. 6,<7 ;,<6 >.1'05. / . 7 ';;146 >.?4 6 5" 1.-,547 ,<I 5" 5 ;.<;. " .<:'1> 5. - ;.8 .7 '<'1;: .. <"E'-,1 67 5.6 ;@;.6% #.?.<>'<78 ,<6 .418 ;.77. 1.-,547 ,<8 / 7< . .< <,46>,<<'<7 4<. ;, 65 747 ,< ;7>. / . 55.41.6 5, 68 >, 7 '466 <,46>,<<.1>. / ; 55.41.6 / ,.4168 7,<6 5.6 0,<6; 7,V.<6 V 6,<7 <5. 1.6676I . .67 " .4@ " ?'17'J.1 <,71.641-. 55'<;.8 . .67 " .4@ " <,46 E,41< 1 5.6 / ,V.<6 =4.>. / '<>. 5" 5, ?,41 '47,1 6.1 5" - 6 5.>'<6 ;.6 1.?' 1.6 >4 - ;.% ,46 '-,<6 ;148 ,<6 .418 >.-, 1 -,46 .;1 1. .7 -,46 ?1 .1 >. ?1,5 7.1 >. 5" ?1. / 71. '66. / 05..>. -,71. 6.;5," ?,41 <- 7.1 7,<6 5.6 :,<<>7.6 .7 0,<6; 7,V.<6 "<,46 E,41< 1;.6 / ,V.<68 "<,46 '??,17.1 5.6 >.;5'1'7 ,<6 ,4 >>6 J4<7 ,<6 =4 <,46 >, <.1,<7 5.>1, 7 > .<71.1 >'<6 5.6 / ' 6,<6 , 5 ,<Q, 4;8 ?,41 V 6' 6 1 5.6 <6714M / .<76 >.Q.4 .7 5.6 ? 7..6 >. ;,<-;7 ,< =4 / .751,<7 5.6 71 044'4@ . .7'7 >.?1,<,<;.1 5.6 ' / .<>;6 .5 5.6
<.6 .<;, 14.6 ?'1 5.6>. <=4'<7%W% '<6 ;.6.;,4 6
?,5 ;. 5" ?546 - J 5'<7. .75" ?546 ';7 -.<. ?.<7 1 .<
?,41 1. ?1 / .1 5. >.6,1>1.8 ?4 6=4. 5" 5, =4. <,46 6, / / .6;:'1J.6>.E' 1.1.6?.;7.18 .7 =4.<,46>.-,<6 7,4Q,416 1.6?.;7.1 <,46 / > / .68 <,46 ?1.6;1 75" <'1;.. =4.<,46 >.-,<6 7.< 18 .7 >,<7 5 <.<,46 .67 ?'6 ?,6M 6 05.>. <,46 .;'17.1% ,46 1'??.5,<6 " 4,6 ;,<; 7,V.<6 =4.<,71. 6' <7 .67 >'<6 <,71. 4< ,<8 =4 56 >, -.<7 '05.1 5.%6 ,E5 ; .16;:, 6 6 ?'1 5. ?;4?5.8 .7 =4.8 =4'<> 6 'J 7>. .@.;47 ,<>.5"5, 8 56 <,46>, -.<7 5.416 4 / .1.68 5.41 '- 68 5.41 >.;5'1'7 ,<% ,47 ; 7,V.<8 ?,41 5" 6E 1.7> .7 5" 71'<=4 55 7.?405 =4.68 .67 ;.<6.41 <> >.6 / ,.416 .7 >.6 >.6,< 1.68 ;, / / . 7,<6 6,47 6,5>'76 =4 '<> 5 6 'J 7 >.>.E.?>1.5" ?'71.

& " ' ' #&

G - + "71'<=4 55 7>6.6,47 .<7 ;5N <,71. <,4-.5 .->=4. .67 '4 <, / 01.>.6 >5.;7;4168 .5 5 ?1>6 >. 5. ;,1?6 .5;;7,1'5% %B .1 .7 '-'<7 : .1 ,< " <, / / >U ;41.6I 5 .< / '<=4. .<;,1. 71.<7. ?,41;. >>?'17. / .<78 / ' 6 5.6 64Q.76I ?,41 ,;;4?.1 ; .6 ;41.6 -';'<7.68 6,<7 >.Q" >.6 J<.6I ' <6 ;.77. 'EE' 1.6 '1 1'<J. " / .1-. 55. .76 '<6 71' <% .6 <, <.61.< 4.<78 "5" ->1 7.8 / ' 6 #6 0,<<.6 / .641.6 =4. ,< "?1 6.6 E.1,<7 '-,17.17,47.6 .6 / .<..6%

' '

' ' ' ' ' ' ' '

'1>,<<.0% ,<6 .418 5" ?. <.=4.Q. -,46 >,<<.

=4.5=4.E, 6>.'5 1.'5.61'1.E5.@ ,<6' =4 ' / .'6,<7'64JJ.G' 1>.6'?'1' / ,<' '1>.<7' ' / ,41'?,41'5''#,<67 747 ,<% <' , ; ' >.4@'=4.'Q.' 6,4 / .76' '' - ,71.' 6'J.66.% ' 68' >.' J1>; .' '5 6.0 5.68' ; '1Q.'5.6' ;1 / 6' / ?,17'<7.6%

' .' / '< 6E.67.'=4.'5.'1, '<,46' ''5' 66>8' .<E4V'<7' ; , / / .' .>>.8' '' >,<<>' >.' 5'' ; ,<E '<; .' '' 5''7: . , ' '1 67, 1,0 <, ;1'7 .8' .7' >.' <=4 >74>.8' >4' >,47.' 4@' ?'71 ,7.6' >,<7' 5.6' ?1 <; ?.6' <.'6 <7' ?'6' '66.Z' >;5' 1.6% #.'?.15 >.'>;1 7'.67' > ' 55.416' 1.?'<> '>'<6' 7,47.' 4' 1,?.8' =4 5' ?.47' 71, / ?.1% ;' - ,4>1' 6' >,<.'=4.' 6' 6.< 05>.' <'<,7 % 5.' V' 1.?,<>57' ' - .;' E.1 / .7.' ?'1' 4<.' '>1.66.=4 '6.1' 7' 54.' '4' 1, 8' 5,16=4 ,<' 54 '?1.6.<7.1'' 5'' #,<67 747 ,<%

%Cp' .'64??,6.' =4 5' ' ; ; .?7.' ; .57.' #,<67 747 ,<8' .7' '=E5 5' Q41.'>.'<,4- .'4' >.'5'' / ' <7.< 18' ?,411,<6 <,46' ' - , 1' ; ,<E '<; .'>'<6' 6.66.1 / .<76Z' ,<I' 5.6' >- =4.68' '00.' '41V' .7' '5,4.78' =4 ' - '47' 0 .<' 4<' ?1>71.8' ,<7' '06,46' >.' 7,46' 6.6' ?'1Q41.6' ?'66. 6' .7' E'7416%' #.?.<>'<7' ' - . .'7,47.' ; .77.' / >E ' ' , .8' .7' >'<6' / ''64? ' ?,6 7 ,<' =4 5' ' ; ; .?7.8' 5' E'4>1'' 5.'5' 66.1' 5 01.% 3 4 5' ' 55.>. / .41.1' '' .16' 55.68' '' H,<7' <.05.'48' ,4 5' ,<>1'I' =4.'5.6' 6,5>'76' <'7 ,<'4@' B.'5.'J'1>.<S' ?5468 % =4 5' 6.'>,<<.' 4<.' .6; ,17.' 7.55.' = 5' 54- ,4>1'' .7' '' 6.6' E1' 68' .7' =4 5' 6, 5' >>; >.'=4 .55.'<.'6.1'' ?546' 641' 5.'? .>' / 5 7' 1.I' =4 5' 6, 7' >.E.<>4' >.' '11>7.1' 6 5' - ,45' 5' .<; ,1.'6,17 1' >4' 1,V'4 / .86'4E' ''?1,<,<; .15'' >>; ; .'<; .'>'<6' 5.6' ; '6' , 7' .55.'6.1'#<; ,414.% 1.'=4 ' ?1,<,<; .1'' ; .77.'>.; : >'<; .8' Q.' ;1, 6' 0 .<'=4.' ; .'6.1'' 5.' ; ,1?6' 5.J 65'7 EI' 4 ' 6' .<; ,1.'E'47 5' 6 .<' .@?5 =4.1' <.77. / .<78' ' 0 ' 1 0 ' 0 ' ! ' 1 0 '

' <' / > / .' 7. / ?6' J.1>.1' 5.'>'4?: <8' >,<7' 5.' J,4- .1<.41' <.' ?.47' >71.' 71,?' ?'71 , 7.8' 71,?' ' ; 7 E' .7' 71,?' 641- . 55'<7I' .754 '>,<<.1' 4<' >7'05 66. / .<7' ?'1 ' 7 ; 45 .1%' ' 6' 5.6' >>?.<6.6' =4.' ; .5'' , ; ; '6 ,<<.1'' <.' >, - .<7 .55.6' ?'6' >71.'?1 6.6' 641' 5'' 5 67.' ; - 5.Z

; ' <' ?'15.' >.'1.- .< 1' 64.'5.'>>; 1.7' =4 '64?' ?1 / .'5'' <,05.66.% >.' 6.45. / .<7' 6' ; .'>>; 1.7' < .67' ?'6' / ' <7.<48' / ' 6' 6 5' < .67' ?'6' / 6' >'<6' ' ; 7.' ; ,<6' 7 747 ,<<.58' - , 1.'>> 5 ; .'< .67=4 4<' ; :E 7.'4>.' ; '17.68' .7' <,46' '41,<6 4<.' ; : ' / 01.' : '47.' .7' 4<.' ; : ' / 01.' >.6' ; , / / 4<.68' .7; % & ,V.O' '17 ;5.'>4' ,< 7.41' >4' C 'Q4 55.7%P' '.67' <' '471.'>>; 1.7' =4 5' .67' 0 .<' .66.<' 7 .5' >.' / .771.' '4' <, / 01.'>.6' '17 ;5.6' ; ,<67 747 ,<<.56N . .67' ; .54 '=4 '>.;5'1.'=4.'Q' / ' 6' 5'' <'7 ,<' <.'6.' ; : '1' J.1'' >.'>.77.6' >.'?. 6,<<.%

8 ' '?? ' (* % + .'6 68' .66 .4168' ; : '1J>' ?'1' / .6' E1.1.6' > '1 / .6' >4' 0'7' 55, ' ; >.- '<7' ' < ' >.' - ,46' ?1 .1' > '<<,<; .1' =4 56' ,47' ;1 '>.M - , 1' '' .4@ / > / .68' ''5'' J'1>.' <'7 ,<'5.' .7' ''7,46' <,6' ; ,<; 7,V.<68> .EE.;74.1' '<6'4 ; 4<.6 ,17.'> <E54.<; .' >71'<J.1.' '' 5.41' ?1,?1.' >.7.1 / <'7 ,<P' 5.' 5 ; .<; . ' / .<7' >.' ; .' 0'7' 55,<' =4 ' 6 .67' 1. .1>.''4 6 7>7' 6,46' 5.' <, / ' >.' $. ?1 4; ?'5047>. ; . / ,4- . / .<7' ,<'< / .'>7' 7> .@; 541.' >.'<,71.'6. <' =4.5=4.6' / . / 01.6' =4.'<,6' - . .4@ <,46' ?,17.<7' .<; ,1.' '' <. ;1, 1.'=4 .J'1.6% ,46' ,<6>.' ?546' '11>7>' =4.'>,1><' - '<7' '4; 4<' ; 7,V.<' <.'6.1' 7' '> / 6' =4 '?1.6' 4<' .@'1'.<'6.->1.'>.'6'' ; ,<>4 7.' .7' >.' 6.6' 6.<7 / .<76%

V'<5' '' J. / 1' ?546' =4.'?.16,<<.'641' 5.6' ;1 / .6' .7' 5.6' / '5: .416' >.' 5'' Q,41<>.' >4' (' >.' ; .' / , 68' <,46' / .77,<6% .66 .4168' '4' 1'<J' >.' #.6' >>1< .168' 5.'01 6' >.'?1 6,<' >4' ; ,1?6' >.' J'1>.8' ; '46.' 4< =4.'>.' >- '' 6 ,<' >.' '66'66 <' >.' 4<' >.'<,6' E1.1.6' >4' 0'7' 55,<' >.' ' < 467' ; : .% ,46' ' - ,<6' Q41.'> . / ?5,V; 1' 7,46' 5.6' / ,V.<6' =4 '6,<7' .7' 6.1,<7' .<4 ,71.'?,4- , 1' ?,41' E' 1.' >.'<,4- .'4' 'E1 7.1' ; .7' <E / .' '66'66 <8' 1 ' 0 #,) 0

3 5 '3 '8' ' ' F ' ' # $

'' 6,>.7>' >.6' / 6' >.' 5'' #,<67 747 ,<8' 6.'<7.' ' #: >5,<68' >>?'17. / .<7' >.' 5'' '1<.8' '' '11>7>' =< ' ; , / ?7.1' >4' ?1. / .1' ' ,>7' ?1, ; : ' <' .55.' 'EE1'<.0 1' 7' 7,47.6' 5.6' 5.771.6' ,4' ?'=4.76' =4 .55.' #<- .11' 78' .7' =4 .55.'<.'1. ; .- 1' 7' >J'5. / .<7' '4; 4<' .<- , '=4 <.%E>7' 'EE1'<; : %

''

' / . ++ '

8 ' ' ' '$

<2134 ' 0? 4 0'' 6/' L?''N 2

<' E' 7' 5. ; 741.'>.'?546 .416' '>1.66.6'

<' >.' % 5.6' 6. ;1.7' 1.6' E' 7' 5. ; 741.' > 4<.'5.771.' >.6' ,EE ; .16' >4' ,17 '4 1 <; .8' .<' >'7.'>4' *' / ' N 56' .<- , .<7' '' 66. / 05. .' <'7 ,<'5.' 5'' ; ,? .' >.'>.4@' 5.771.6' 71,4->.6' >=<6' 5.6' ?'? .16' >.' % '4>4 7' '?1 6' 6' / ,17%

@ ' 0 ' ' ' ' F A' ' ' '$ # ' ; L8' ' 0 * ' ' ' ' '$ ' ' F ' F ' ' ' ' A &

W ' / .'5.'6'<J' >.' / .6' 1, 6' ; , / / .' ,<' >.- ' 7' ' ' / .1' 5' V '' >.4@' 6 . ;5.6% .'64 6' '77' ; : .' '' 5'' ?'71 .8' '' 5'' ; ,<67 747 ,<' >.' / ,<' ?'V68' .7' 7,47' ; .'=4 ' '11 - .' / .' >>; : 1.% '' >. / '1; : .' '; 74.55.'>4' 1, ' .<'55'<7' ' 6' 6. / 0 .' <'7 ,<'5.' / .' ?'1' 7' >.6.6?.1'<7.' ' . .67' 64 ' - '<; ' / , ' 5'' >.6714; 7 ,<' >.' 5'' / ,<'1; : ; 8' = . 7' 4<' : , < / 'J.'=4.'5.'6,4- .1' <' 1.<>' '4' ;1 / .'=4 ' ''7,47' 0, 5.- .16>I . .67' 64 - '<7' / , '4<' ?1 <; .'= ' '0'<>,<<.' 6.6' 5 >.5.6' 6.1- 7.4168' . .67' <' 1, '=4 '6.' ; , '5 6.' ' - . ;' 5.' ;1 / .' ?,41' '<.'?7 1' 7,47.' - .1748 7,47' ; ,<<.418' 7,47.' ?1,0 7>% 4J.0' > '>>; : 1. / .<7' =4.'Q' ' '>?1,4- ' 5,16=4.'Q.' - ,46' ' ' .<7.<>4' / '1>' '4' 6, 1' >'<6' - ,71.' '??'17. / .<7' / .' > 1.' =4.' - ,46' '??1,4- .0' ; .77.'>.M / '1; : .% #, / / .<7' - ,468' <,05.8' 6?'J<,58' H1'4.' 6' ?'1' - ,71.' / .1.8' - ,46' '??1 4- .b' 4<.'1.- ,547 ,<' '71, ; .8' 5'' >.6714; 7 ,<' >.'5'' 1.5 J ,<8' 5.'>>71 <.1'.<7' >.'<,71.' 1, 8 ,4-1'J.'>.' / ,<671.68- ,4>6' >.?4 6' 5,<J7. / ?6' '4' / >?1 6' ?405 ; Z' 4 8' ' / 0'66'>.41' > 6?'J<.8.7Q ,6.' - ,46' 5.'> 1.8' ?'66.'>'<6' 5.'?405 ; '?,41' ' - , 1' 6.1- '5'' 1.- ,547 ,<% 3 4 5' .67' ;14.5' ?,41' - ,46' =4.'5'' 14 <.'>.' - ,71.' / '1 <.'>'7.' >.' - ,71.' ' / 0'66'>.8' =4 5' .67' / '5' : . ,1.4@' ?,41' - ,46' > ' - , 1' 1. / ?5' ; >' % > 1'4>'5' ,<' .67' ?.164'>.'=4.'6,46' 54 ' 6?'J<.'<,46' .E77' 6. ; ,4146' .7' .>7' .<7.<>4' 6.6' ->1 7'05.6' <7>1 76' $

@ ' 0 ' ' ' F ' & ' ' F ' F ' ' ' ' /W

W .'?1,7. ; 7.41' >.'#' / 55.' / '' > 7' 6''E'J,4' >.'?.< ' 6.1' 641' ; .'=4 % 6.'?'66.' .<' H1'<; .% ' '' >.' 5'' ?. <.' '' ;1, 1.' '4@' E'05.6' =4.' ,<' >>0 7.'641' 5''1>4? ,<' >.6' ?4 66'<; .6' >.' 41,?.' '4' ?1 <7. / ?6% 56' 6' - .<7' 71,?' ; .'=4.' ; ,47.' 4<.' J4.11.% 56' 71=4- .<7' =4.'5.6' ; : ,6.6' 6,<7' 71,?' ' - '<.#.6.<' H1'<; .I' ' <6 8' / ,< 0,<' ' / 8 ' ; ,<>4 6.0 - ,46' 6'J. / .<7' .7' ?,41' 5.' / .4@%

W .6') 'E,<77,47' ; .'=4 56' ?.4- .<7' ?,41' 1.J'J<.1' 66.1'05. .' <'7 ,<'5.I' E6' ,EE1.<7>.'?1 7.1' 5.6.1 / .<7' ; - =4.%Y' $

, 5'8' .66 .4168' 5.6' - #1 7'05.6' <7.<7 ,<6' >.' ; .54 ' =4 ' .J,1J.< 7' 5.6' ; 7,V.<6' >4' ,17 '4 1 <; .' >'<6' 5'' <4 7' >4' C*' Q4 55.78' >.' ; .54 '>,<7' 5'' ; ,<>4 7.' '' ,07.<4' ' .5,J.6% .' 7,46' ; .4@' =4 ' ; , / ?,6.<7' 5.' ; ,<6. 5' 7V1'<< =4.'>#' J,4- .1<. / .<78' 5' < .<' .67' ?'6' 4<' ;45' =4 '<.'?.<6.' ; , / / .' '47.41' >.' ; .77.'?1. / #1.'5.771.% .55.' .67' .<; ,1.' '4Q,41> 04Q' 5'' E'J,<' >.'?.<6.7' >.' ; .4@' >,<7' % >.'K5'<; : .5'<>.'6 .67' .<7,41#' '4#'?%

.6' ,E7 ; .16' / 4< ; ?'4@' <6714 6.<7' .<64 7.' 6' 6. / 05. .' <'7 ,<'5.' >4' >.6'1 / . / .<7' >4' 1#J / .<7' >4

C

,17 '4 5 1 <;.'?'1' 5.6' 71,4?.6' <'5 ,<'5.6' .7' >.'5 J .%
' %' .6 / .4< .16' ?1>6.<7.' ' E >.6' '17 ;5.6' 641'
';7 ,<'.7' 5'' 1.=4 6 7 ,<'>.'5'' E,1;.'?405 =4.'>'<6' '
7 .41' >4' 1,V'4 / .8'
56' 6,<7' >7, .7.6' ' <6 '=4 56' 64 - .<7
" " %' < 7. / ?6>.' J4.11.' 5.6' 71,4?.6' >.'5 J<.' .'
?,411,<7' >71.' 1.=4 6.6' =4.'>'<6' 5.6' 5 .4@' ,4' .55;6' 6.'
71,4 - .1,<78' 6, 5' .<' J'17 6,<8' 6, 5' .<'=4'17 .18' 6, 7' .<'
;'47, <. / .<7I' <>'< / > <6' 8' 641' 5'' <,7 E ;'7 ,<' >4'
0.6, <' >.'6.;,4168' .55.6' ?1 7.1,<7' / ' < E,17.' '' .@. '
;47 ,<' >.6' 5, 6; - 5.6.7?,R 7 =4.68' >.6Q4J.1'.<76' .7'
>.6' ,1>, / '<;.6' >.'?,5 ;.'.7>.Q467 ;.8'47'<7' =4 .55.6'
5.'?,411,<7' 6'<6' <4 1.''4' 6.1- ;.' / 5 5' 1.%
" " %' .6' >>?,6 7' 1.6' >.6E,1;.6' ?405 =4.6' '??.5>68'
6, 7' ?,<1' '6641.1' .@>;47 ,<' >.'5'' 5, 8' >.6Q4J. / .<76'
.7' ,1>,<<'<;.6' ,4' / '<>. / .<7.' >.' Q467 ;.' ,4' >.'?,M
5 ;.8' 6, 7' ?,41' > 66 ?.1' 5.6' Q. / .47.6' ?,?45' 1.6' .7' '5 '
71,4?. / .<76' 6.> 7 .4@8' .7' 6' 6 1' 5.6' ;:.E68' '47.416' .7'
<65 J'7.416' >.' . / . 7.' ,4' >.'5'' 6.> 7 ,<8' <.>.?5, . '
1,<7' 1'' E,1;.'>.6' '1 / .6' =4,'>'<6' 71, 6' ;'6%
.'?1. / .18' 6' >.6' - ,5.<;.6' ,<' -, .6' >.'E' 7' >7' .<7'
.@.1;;.6' .,<71.' .4@ / > / .6%
.' 6.;,<>8' 6 56' <.'?,4-' .<7' >.E.<>1.' ' 1; / .<7'
5.'7.11' <' =4 56' ,;;4?.1 .<78' ,4' 5.6' ?,67.6' >,<7' 56'
6.1' .<7' ;:'1J.6%
.'71> 6 . / .8 6 56' V' >7' .<7' .@?1.66. / .<7' '47,1 6>6'
?'1' 4<' ,EE ; .1' ; - 58' .5' >'<6' ;.' ;'68' '?1.6' 5.6' E,1EE5' '
5 7>6' ?1.6;1 7.6' ?'1 .6' >.4@' '17 ;5.66 / - '<56%
" " %' 8' ?'1' 5.6' ?1,J1.6' > 4<' '771,4?. / .<7' ,4'
> / .47.' ?,?45' 1.8' 46'J.' 1 J,41.4@>.'5'' E,1;.'>. '
- .<7' <>;.66' 1.8' 4 ' ,E ; .1' ; - 58' 6, 7' Q J.'>.'?' @8'
6, 5' ,EE ; .1' / 4< ; ?'5' ,4' ?1,.41; 1' >.'5'' ;, / / 4<.8'
6, 7' '> / < 671'7;41' >.'> 671 ;7' ,4' >.'>.?'17; / .<78' 6, 7'
?1,;41.41 6V<> ;' ,4' ?1,;41.41 J.<.1'5 6V<> ;%6.?1> '
6.<7.1'' 641' 5.' 5 .4' >.' '771,4?. / .<78' ?1,<,<;.1'' '
:'47.' -, @' ;.6' / ,76' ' 7 ' ' ' ' ' '
! ' & ' ' '! 5' 1 ') ' "! ' '
!
" " %' 8' '?1E.6' ;.77.' 6, / / '7 ,<' 71, 6' E, 6' 1> 7> '
$1. .8' 5.6' ?.16,<<.6'771,4?..6' <.8' 6.' 1.7 1.<7' ?'6' ?' 6
05. / .<78' .7' <>1<.'6 55' .<' 1.67.'?546' >.'=4 <0.'1'66. / '
05>.6' .7' .<' .7' 7' >.' 1>6 67'<;.8' 5'' E,1;.'>.6' '1 / .6' 6.1''
'' <67'<7' >>?5,V>.';.<71.' 5.6' 6.> 7 .4@8' 6'<6'4;4<.'
1;6?, 6'0 5 7.'>.68.-.<. / .<768' .7' ;.4@' =4 '?,411,<7'
>71.' 6' 6 6' .<6, 7.' 6.1,<7' 5 -1>6' '4@' ,E E . .16' >.'?,5 ;.'
?,41' 971.' Q4J>6' .7' ?4< 6' 6.5,<' 5'' 1 J4.41' >.'5'' 5, %

$ ' 1 *

17%' " " %' ,41' .@. ;47 ,<' >.6' >.4@ '17 ;5.6' ?1.M
;.>.<76' ,05 J'7 ,<' >.' 6.' ?1.6.<7.1' '4' 5 .4' >.' '7 '
71,4?. / .<7' 6 .@.; 7.1'' >'<6' ,1>1.' =4 ' 64 7N > ' '
0,1>' 5.6' ?1,;41.416' >.6' ;, / / 4<.6' .7' 5.';, / < 66' 1;'
>.'?,5 ;.8' >'<6' 5.6' 5 .4@' ,4' 5' V' .<' '41' 8' .75;6;, / '
/ 66' 1.6' >.'?,5 ;.8' , 48' '' 5.41' >>E'478' 7,46' 5.6' ,E5 '
. .16' / 4< ; ?'4@' <> - >4.55. / .<78' .<64 7.'5.Q4J.'>.'
?' @' >.'5'' - 55.8' .7' 6' ;55.' .<' '' ?546 .4168' 7, 4 6 5.'Q J;6'
>.' ?' @' <> - >4.55. / .<78' .< <' 5.?1,;41.41 6V<> ;'
>4' > 671 ;78' .78' '' 6,<' >.E'478' E,46' 5.6' <. / 01#6' >4' > '
1.;7, 1.' >4' >.?'17. / .<7' <> - >4.55. / .<78' 6 '771, '
?. / .<7' ,4' . / .47.' ?,?45' 1. 6.'?'66.'>'<6%5.';:.E '
5 .4' >.' 1'> / 671'7 ,<' >4' > 671 ;7' ,4' >4' >.?'17. '
/ .<7%
.6' ,EE ; .16' ?405 ;6' >.<, / / >6' ; >.6646' ;:';4<' 6.M
5,<' ,1>1.' >.' 6.6' J1'>.68' .7' 6 5' 6 'J 7' >4' Q4J.'>.'
?' @' >'<6' ,1>1.'>.' '66. / 05..8' .<' ;, / / .<J'47' ?'1'
5.?546Q.4<.%
' '4;4<' ,EE ; .1' ; - 5' 6.' ?1>6.<7.' ?,41' E' 1.' 5.6'
6, / / '7 ,<68' 5.' ;, / / '<>'<78' 6, 7' >.6' 71,4?.6' >.'
5 J<.8' 6, 7' >.5'' J'1>.'<'7 ,<'5 8' 6.1''7.1 / '> ' - .15 1'
>.' 6,<' '11 - .' 4<' ,4' '471.'>.6' ,EE ; .16' ; - 56' >> '
6 J .6' '4@' '17 ;5.6' ?1. ;.>.<768
" " "%' .' ;,1?6' >J 65'7 E8' <6714 7' >.6' 71,405.6'
=4 ''J 7.1' .1 7' 4<' >.?'17. / .<78' 1.<>1'' 5.6' >.;1.76<. '
;;66' 1.6' '4' 1>7'05 66. / .<7>.'5'' 71'<=4 55 7;'?405 ; 4.%

" " "%' '>.6' 71,405.6' 'J 7.<7' 7,47' 4<' 4.?'17. / .<7'
>41'<7' 5.6' -';'<;.6' >.'5'' ; J 65'741.8' 5.'E, '>,< .1''
?1,- 6, 1. / .<7' 5.6' ,1>1.6' <;;.66' 1.68' / ' 6' '5'' ;:'1J.'
>.' 5.6' ;,<6 J<.1' >'<6' 4<.'?1,;5' / '7 ,<' '=4 ' ;,<-, '
=4.1'' .<' / > / .' 7. / ?6' 5'' >J 65'741.' '' Q,41' 5 @.I' 5'
?,411'8' 6 5' V' '' .48' 646?.<'1.'5.6' ?1,;41.416 J><>' '
1'4@ 6V<> ;6' .7' ?1,;<1.416 6V<> ;68' 5.6=4.56' 6.1,<7'
1. / ?5';.6' >.'5'' / ' .1.' >.7.1 / <>.'>'<6' 5'' 5,'>4'
C(' / '16' * I' 5.'7,47' 6,46' 5'' 1.6?,<6'0 5 7>' >.6' < '
< 671.6%
" " " %' '' ?405 ;'7 ,<' >.'5'' 5, '7<'17 '5.'<'41'' ?546'
5 .4' =4.'>'<6' 5.6' ; 1;,<67'<;.6' , '5'' 641.7>' .7' '' 71'41'
=4 55 7>' ?405 =4.6' 6.1' .<7' :'0 74.55. / .<7' / .<'.>.6'
?'1' >.6' . / .47.6' ?,?45' 1.6' ,4' '771,4?. / .<76' 6>> '
7 .4@' =4 ' 6.' 64;.E.>.1' .<7' 4<' '' '471.%
.6,1 / ' 6' .55.' <.' ?,411'' ?546' >71.' ?1,;5' / '>.'?g'
5.6' ,EE ; .16' / 4< ; ?'4@' =4.'>'<6' 5.6' - 55.6' 4 >.6646'
>.' ' / 55.'> / .6I' >' .J'1>' >.6' 5 .4@' > 4<.'?,?45' M
7 ,<' E>1 .41.8' ;.'1. / .>.' .@71. / .'<.'?,411'' ?546V'
.71.' / 6' .<' 46' J.' =4.'> '?1.6' 4<' '11>7.'>4' >1;;5, 1.'
>4' >>?'17. / .<7%' .<>%'<'5.'7. / ?6' =4.'5'' 5, '<'17 '5,'
6.1'' .<' - J4.4E8' 7,47.' 1.4< ,<' > :, / / .6' '4 >.6646'
>4' <, / 01.'>.'=4 <0.8' >'<6' 5.6' 14.6' ,4' ?5';.6' ?405 '
=4.68' '-.;' 04' 6'<6' '1 / .68' 6.1'' 1>? 7>.' '771,4?. / .<7%
" " " %' .6' ,EE ; .16' / 4< ; ?'4@' >.' ;:<=4.';, / M
/ 4<.8' '466 707' =4 6' 1. / '1=4.1,<7' >.6' / ,4-.< .<76'
6>> 7 .4@8' ?1>76' '' .;5'7.18' 6.1,<7' 7.<468' 6,46' 5.411;6 '
?,<6'0 5 7.8' > .<' >,<<.1' ' - 6' 7'<7' '4' ?1,;41.41' >.'5''
;, / / 4<.'=4 '4' Q4J.'>.?' @' >4' ;'<7,<8' .7' '4' ?1,;4'
1.41 6V<> ;' >4' > 671 ;78' 5.6=4.56' 1.=4.11,<7' 4<' 6.1M
- ;.' :'0 74.58' .7' 54' .7' 7' ?.1 / '<.<7' >.' - J 5'<;.'>.'5''
?'178' 6, 7' >.6' 71,4?.6' >.'5 J<.8' 6, 7' >.6' ; 7,V.<6' <6''
;1 76' >'<6' 5.';'<7,<' ,4' 5.'> 671 ;78' 6.5,<' 1 / ?,1 / <..'
>.6' E' 56%
" " " %' .6' ;,<6. 56' ,4' > 1.;7, 1.6' >.' >.?'17.M
/ .<7' 6,45' ;:'1J>68' 6,46' 5.41' 1.6?,<6'0 5 7>8' >.@''
/ <.1' 5.6' ; 1;,<67'<;.6' ,7' 4<.''4J / .<7'7 ,<'>.'E,1;.'
.65' <>;.66' 1.' '' 5'' ;,<6.1-'7 , E714' '4' 1.7'05 66. / ;<7'
>.' ,1>1.'?405 ;I' 56' 6.1,<7' 7.<46' '5,16' > .<' '-117 1'
5.'?,4-, 1' .@.;47 E8' .7' >.'54' '>. / '<>.1' 4<' 1.<E,17>.'
71,4?.6' >.'5 J<.%
" " " %' .6' ;,1?6' / 4< ; ?'4@8' 5.6' > 1.;7, 1.6' >.'
> 671 ;7' .7' >.' >.?'17. / .<78' 6, 7' ;:'1J>68' '466' 6,46'
5.41' 1.6?,<6'0 5 7>8' >.'?1.<>1.'74 7.6' 5.6' / .641.6' >.'
?,5 ;.'.7' >.'?14>.<;.'5.6' ?546' ;'Q '05.6' >.'?1.-. 1;7'
;'5 / .1' 5.6' >. 6,1>1.6I' 56' 6,<7' ;:'1J>6' .<' ,471.'>' '
- .17 1' 5.6' ?1,;41.416' >.6' ;, / / 4<.68' 5.6' Q4J.6' >.'?' @8'
5.6' <1,; / .416 6V<> ;6' .7' 5.6' ?1,;41.416 J> .1' @ '
6V<> ;68' >'<6' 7,47.6' 5.6' ; 1;,<67'<;.6' , 48' 6, 7' 5'' <M
=4 6 7 ,<8' 6, 7' ';7 ,<' >.'5'' E,1;.'?405 =4.8' >.- .<>1''
<>;.66' 1.%
' 56' 6,<7' ;:'1J>6' .<E / '>.'71'<6 / .771.' '' 5'' 5.J 6 ''
:1.' .7' '4' 1, ' 5.416' ,06.1-'7 ,<6' 641' 5'' <.J5 J.<;.'>.'
..6' ,EE ; .168' .7' 641' '046' >4' ?,4-, 1' =1 56' 6.?.1 '
/ .771' .<7%
" " " %' %.6' ,EE ; .16' / 4< ; ?'4@' '41,<78' 7,4Q,416'
6,46' 5.41' 1.6?,<6'0 5 7>8' 5.'>1, 7' 1.6?.;7 E' >.'646?.<'
>1.' 5'' 1>=4 6 7 ,<8' 4' > '11.7.1' ';7 ,<' >.'5'' E,1;.'?4'
05 = .8' E' 7.' ,4' ?1,-,=4>.' ?'1' 5.6' ?1,;41.416' >.6'
;, / / 4<.6I' .7' 5.6' Q4J.6' >.' ?' @8' 5.6' > 1.;7, 1.6' >;'
> 671 ;7' '41,<7' 5.' / > / .' >1, 7' =4.' 5.6' ?1,;41.416 '
6V<> ;6%
" " " %' <' '06.<;.' ,4' '4' >>E'47' >4' ?1,;41.41%'
>.'5'' ;, / / 4<.8' >4' Q4J.'>.'?' @8' >4' ?1,;41.41 6V<'
> .' >4' > 671 ;7' ,4' >4' ?1,;4 .41 J.<.1'5 V<> #' > '
>>?'17. / .<78' 5.6' ;,1?6' / 4< ; ?'4@8' 5.6' > 1.;7, 1.6' >.'
> 671 ;7' ,4' >.'>.?'17. / .<78' .7' 6406 > ' 1. / .<7' 5.6' ;,<'
6. 56' >.'> 671 ;7' '>.'>>?'17. / .<78' 5,16=4 56' 6.'71,4M
- .1,<7' '66. / 05.68' 6.1,<78' 6,46' 5.41' 1.6?,<6'0 5 7>8'
7.<46' >.'E' 1.' 5.6' 1.=4 6 7 ,<6' <>..66' 1.68' 1.6?.;7 1. '
/ .<7' >'<6' ,1>1.' >>6 J<>' >'<6' '15 .5.'?1>..>.<7%
" " " %' <';'6' >.'<.JE J.<;.'7'06' J1'-.',<' > ':47'
>.' ?,4-, 1' 7,4;:'<7' 5'' 1.=4 6 7 ,<' .7' ';7 ,<' >.'5''
E,1;.' 405 44.%' 5.6' 1,;4 ;416' >.6' ;, / / 4<.68' 5.'

; , / / 66' 1.6 >;'?,5 ;.8 5.6Q'J.6 >.'?' @8 5'6?1,;4
1.416 6V<> ;6 .7 5.6 ?1,; / 16 J.< 1'4@ 6V'> ;6 6.
1,Q 7 >.67 74>6 >.'5.416 . / ?5, 68 4J ` ' ?'1 5.6 7 0
/ 4@ / 5 7' 1.68 .7 ?15-.6 ?.<>'<7 >.4@ '<6 >. .@.1
; ;. >4 >1, 7 >. ; 7,V.< ';7 E8 6'<6 ?1.Q4> ;. >.6
?. <.6 ?546 E,17.6 ?,17>.6 ?'1 5.;,>. ?['5 ;.<71.'5.6
;1 / .6 '77.<7'7, 1.6 > 5'71'<=4 55 7> ?405 =4.%
" " " % '<65.;'6, 8 6, 7 5.6 ,E5 ; .16 / 4< G
; ?<4@8 6, 7 5.6 / . / 01.6 >.6 > 1.;7, 1.6 ,4 >.6 ;,<
6. 56 >. > 671 ;7 ,4 >. >>?'17. / .<78 ; ,<71.- .4>14 .<7
'4@ > 6?,6 7 ,<6 >4 ?1.6.<7 >>;1.78 5' 5.J 65'741.8 641
5. ;, / ?7. =4'54 .< 6.1' 1.<>48 ?,411' > 66,4>1.'5.
;,1?6 / 4< ; ?'5 ,4 '> / < 671'5 E8 .7 1.< ,V.1 5' 7,
7'5 7. >.'6.6 / . / 01.6 6, 5'4@71 04<'4@ ;1 / <.56 >4
>. ?'17. / .<78 6, 7 '5' :'47. ; ,41 <47 ,<'5.8%6'< ?1>
Q4> ;. >. 5' ;'66'7 ,< .7 >.'5' 646?.<6 ,< >.6 / . / 01.6
>.6 / 4< ; ?'5 7.68 >.6 ;,1?6 '> / < 671'7 E68 '47,1 6..6
?'1 5' 5, %
" " " " % ' 1.6?,776'0 5 7# 6.1' ?,4164 - . ' 5' > M
5 J.<;. >.6 > 1.;7, 1.6 >. >. ?'17. / .<78 ' >J'1> >.6
?1,;41.416 >.'5' ;, / / 4<. .7>.6 ; , / < 66' 1.6 >. ?,M
5 ; .8 .7 >.6 ?1,;41.416 6V<> ;6 >. > 671 ;78
" % < ;. =4 ; ,<;. / .'5.6 ?1,;41.416 J><.1' @
6V<> ;68 5. / < 671. >. <7>1 .41 >,<<.1' ; ,<<' 6
6'<;. >.'5.41 ; ,<>4 7. 5' 5.J 65'741.8 =4 67'74.1'
; =4 .55.'Q4J.1' ; <-.<'05.8 .78 6G5V '5 .48 5.6 1.<
-.11' ?,41 71.'Q4J#6 '4 71 04<'5 ;1 / <.5 >4 >.?'1
7. / .<78
G " 8 .6 ;:.E6 >.6 71,4?.6 >.'5 J<.8 >.'5' J.<>'1M
/ .1 .'<'7 ,<'5.8 >.'5' J'1>.'6,5>.. >.6 - 55.6,4 >.6
J'1>.6 <'7 ,<'5.68 =4 1.E46.1' .<7 >.@ ;47.1 5.6 1.M
=4 6 7 ,<6 =4 5.416.1' .<7 E' 7.68 6.1,<7 ?,41 4 - 6
641 5' 1.=4.7. >. ';;46'7.41 ?405 ;8 ' 5' > 5 J.<;.
>4 ?1,;41.41 J.<>1'5 6V<> ;8 .7 ?4< 6 >.6 ?. <.6 ?,1
7..6 '4 ;,>. ?. <'58 6'< ?1.Q4> ;. >.6 ?. <.6 ?546
J1'-.6 ?1,<,<;..6 ?'1 5' 5, ;,<71.'5.6 ;1 / .6 '57.<
7'7, 1.6 ' 5' 71'<=4 55 5> ?405 =4.%
" 8 .6 ; 7,L.<6%.< ',7 - 7. >.'6.1- ;. >.'J'1>.6
<'5 ,<'4@8 ,4 / . / .'6 1'?5. / .<7 <6.1 76 641 5. 1>5.8
=4 8 :,16 5. ;'6 >.'5' 5, / '17 '5.8 1.E46.1' .<7 '?1.6
4<.'1.=4 6 7 ,< 5.J'5.8 6, 7 >. / '1;:.18 ,4 >.'6.'E' 1.
% 1.1<?5';.18 6, 7 > ,0. 1 '4< ,1>1. ; ,<E,1 / .'4@ 5, 68
6.1,<7 ?1 ->6 >.'1.@,1; ;. >. 5.416 >1, 76 >. ; 7,V.<6
';7 E68 >41'<7 4< <7.1-'55.>.'7. / ?6 =4 < .@. >.1'
?'6=4'71. '<<>.6% 56?,411,<7 / X / .86.5,< 'J1'
- 7. >.6 ; 1;,<67'<;.68 >71. ; ,<>' / <.6 ' 4< . / ?1
6,<<. / .<7 =4 <. ?,<11' .@; E>.1 4<'<%
" 1% .6 > 5 76 / .<7 ,<<>6 .< 1'177;5. ?1.;.M
>.<7 6.1,<7 ?,4164 - 6 ?'1 5' -, . >. ?,5 ; ;,11.;
'7 ,<<.55.%
" % <>.?.<>' / / .<7 >.6 1.=4 6 7 ,<6 ?'17 ;4
5 E.1.6 =4 ?,411,<7 .71.'>1.66. .68 6.5,< 5.6 1 5.6 ;
>.66 6 ?1.6;1 5.68 '4@ ; 7,V.<6 <6.1 76 ?,41 5.'6.1- ;.
>. J'1>.6 <'7 ,<'4@8 5,16=4. 5.41 6.;,416 / , / .<
7'<. >.- .<>1' <.;.66' 1.8 56 6.1,<7 / 6 .< .7'7 >.
1.=4 6 7 ,< ?.1 / '<.<7.8 6, 7 ?'1 5.6 ,E7 ; .16 / 4< ;
?'4@ >'<6 5.6 - 55.6 '4 >.6646 >. / 555.'B <.68 6, 7
?'17,47 ' 55.416 ?'1 5. > 1.;7, 1. >. > ?'17. / .<78
641 '- 6 >. ;.54 >. > 671 ;78 5,16=<.'5' 5 0.17. < 5'
% 6>1.7.'?405 =4.6 6.1,<7 / .:';.. 8
" % #.77. 1.=4 6 7 ,< ?.1 / '<.<7. ,05 J.1' 5.6
; 7,V.<6 ?6;1 76 ' 4< 6.1- ;. :'0 74.5 >. - J 5'<;.%
.6 ?'71,4 55.6 6.1,<7 '5,16 1.<E,1;..6 .7 / 457 ?5 . .68
" 8 - 5.6 ; 7,V.<6 <6.1 76 641 5. 1>5. >.6
J'1>.6 <'7 ,<'4@ 6, 7 / 68 ?'15. ?1.6.<7 >.;1.78 .<
.7'7 >. 1.=4 6 7 ,< ?.1 / '<.<7.8 Q46=4 ' ; =4. .@.
;47 ,< >.6 5, 6 ; ,<67 7<7 ,<4.55.68 <.'1.<;,<71'<7 ?546
> ,067';5.68 5. ;,1?6 . J 65'7 E' 7 .@?1.66. / .<7 >.
/ <.'5' ;.66'7 ,< '. ;.7 .7'7%
66.1'0 .. ;:'1J.'6,< ; , / 7> ;.<71'5 >.'5 =4 >'M
7 ,< >.'54 'E' 1. 4< 1'??,17 641 7,47.6 5.6 ;1.'<;.6 >.
% > 15, 6 .5 >. .6>' / .68
; I '1'<7 >. ?'66.1 '< ?1,Q.7 >. >.;1.7 641
1,1J'< 6'7 ,4 >.6 J'1>.6 <'7 ,<'5.68 =4 .67' 1,1>1.

>4 Q,41 8 . -' 6 -,46 ?1.6.<7.1 4< '17 ;5. '>>171,<<.5
<>..66' 1. ?,41 '6641.1 .@>;47 ,< >. -,71.'5, 641 5.
1;..<6. / .<7 >.6 ?.16,<<.6 =4 6.'71,4-.<7 / ' <7.<'<7
>'<6 5' ;'? 7'7.%
,461'??,17.1,<6 >. / ' < '17 ;5. >>.1>7.%
% '0'47 ?1.6.<7. .<64 7.8 '4 B,1< >4 ;, / 7> >.
;,<67 747 ,< .7 >4 ;, / 7> / 5 7' 1.8 4< ?1,Q.7 >. >>.1.7
641 ,1J'< 6'7 ,< >.6 J'1>.6 <'7 ,<'5.6%
.6 '17 ;5.6 6< -'<76 6,<7 >>.1.7>6%

+ &E 0
7

17% 1DW8 .6 ; 7,V.<6 ';7 E6 6 <6;1 1,<78 ?,41 5.'6.1M
- ;. >.'5' J'1>. <'7 ,<'5.8 641 >.6 1.J 671.6 =4 6.1,<7
,4-.176 ' ;.7 .EE.5 >'<6 5.6 / 4< ;5?'<7.6 >. 5.41 >,M
/ ; 5. ,4 >. 5.41 1.6 >.<;. ;,<7 <4.> >.?4 6 4< '< I
56 6.1,<7 .<64 7. > 671 04>6 1;, / ?'J< .68 ;, / / .
5 6.1' > 7 '4 5 71. 64 -'<7%
% >.E'47 >.#.77. <6;1 ?7 ,< .7 >. ;.77; > 671 04
%7 ,< ?'1 ;, / ?'J< .68 56 >. / .41.1,<7 646?.4>46 >.
.@.1. ;. >.6 >1, 76 =4. 5' #,<67 747 ,< '77';. ' 5'
=4'5 5> >. #7,V.< ';7 E8 '<6 =4. >. ;.54 >. ?,17.1
5.6 '1 / .6%
8 #.4@ =4 8 6'<6>71.; 7,V.<6 ';7 E68 ,<7 6.1-
>.?4 6 >?,= . >.'5' 1.-,547 ,<8 .7 =4 6,<7 ;7<.55.
5.<7 .< .7'7 >. 6.1- ;. :'0 74.58 6.1,<7 / ' <7.<46
>'<6 5. >1, 7 >. ;,<7 <4.1 5.41 6.1- ;.8 .7 6.1,<7 ;@
;.?7. 6 5.6 J.<6 >. ;5'V. 6 646?. ;768 6'<6 '-.4 ,4 < '5
<7.<7 ,<<.68'4@7.1 / .6>4>. ;1.7641 5' ?,5 ;. / 4<
; ?'5.% %
% 4;4<.'1' 6,< > .7'78 >.'?1,E.66 ,<8 > BJ;8 >5 1
E 11' 7.6 ,4 '471.8 <. > 6?.<6.1' >. <6;1 ?7 ,< 5.6 ; M
7,V.<6 ';7 ` =4 -,4>1,<7 ;,<6.1-.1 .@.1; ;.>.5.<16
>1, 76 I ?546 .416 > .<71. .4@ 6.1,<7 <.'< / , <6 > 6M
?.<6.6 >4 6.1- ;.8 ,4 1.@.1; .. .< >. / .41.1' 646
?.<>48 ' <6 =4 5 .1' > 7 ; '?196%
8 ,<6 7 56 >. ; 7,V.< ';7 E 6.1,<7 7.<46 >.'6 6
;1 1.'6<1 5.6> 76 1.J 671.68 .7 >.'6.'E' 1. > 671 0<.1 >'<6
5.6 ;, / ?'J< .68 5,16=4 56 6.1,<7 ?'1-.<46 ' BJ. >.
> @ :4 7 '<6 ';;, / ? 68
% ! .<@%=4 8 W BJ. >. > @ :4 7 '<68 '41,<7 ?'6
6'7 6E' 7 '4@ > 6?,6 7 ,K >. '17 ;5; ?1.;.>.<78 <.
?,411 <7 ?1.<>1.8 ' - <J7 4< '<68 <6;1 ?7 ,< ; 1
=4.I 56 <. 6.1,<7 '> / 6 ;.55. ; =4.'71, 6 '<6 1.
-,546'?1 6 <6;1 ?5 ,< .7 > 671 047 ,< ; >.6646 ,1
>,<<..68
B% .6 ; 7,V.<6 ';7 E68 ,4 E 56 >. ; 7,V.<6 ';7 E68
=4 6,<7 / ' <7.<'<7 J.6>.'?546 >. > @ :4 7 '<68 .M
1,<7 '> / 68 ' J. >. - <J7 4< '<68 ?1.<>1. <6
;1 ?7 ,< ; - =4.86 56 6.'E,<7 <6;1 1. .7> 671 0<.1 >'<6
5.6 ;, / ?'J< .68 >'<65.>>5' >. 71, 6 / , 6 '< ?546
5' > '?1E66 5' ?405 ;'7 ,< >4 ?1.6.<7 >>.1.78
5 .6>71'<J.16 =4 '<1,07 1. / ?5 5.6 ;,<> 7 ,<6
?1.6;1 7.6 ?,41 >.-.< 1 # 7,V. 56 '<Q 68 .7 5.416
E'<768 6.1,<7 71' 7.6 ;.7 >J'<5 ;,1' / ; 5.6 H1'<;' 6
<'741. 6% G Y
" % 4 <.%6.1'Q.Q4 6 <6;1 1. ?'1 ?1,;41'7 ,<I
/ ' 6 7,46 6.1,<7 5.<468>.'?1.<>1.'5.41 <6;1 ?7 ,< .<
?.16,< .8 .6 ?.1.6 8% / .1.6 .7 747.416 ?,411,<7 ..1
?.<>'<7 E' 1. <6;1 1.'5.416 .<E' 576 '06.<768 6 5' 64 7.
>.'5.41 .>4;'7 ,< .67 5' ;'46. >.'5.41 '06.<;.%
" % .6 556 >. ; 7,V.<6 ';7 E68 =4 '41,<7 6'7 6E' 7
;.6 >.-, 168 Q,4 1, 178 '?1 6 > @ '<6 1.-,5468 >.?4 6
5.41 <6;1 ?7 ,< 641 5.'1. 671. >.'5' J'1>.'<'7 ,<'5.8
>.'7,46 5. '>1, 76 >. ;Q7,V.<6 ';7 E68 =4'<> 56 <.'<' .
1' .<7 ?'6 5' ;,<71 047 ,< .@ J>.8 ?,41-4 =4. > = 55.416
56 1. / ?5 66.<7 5.6 ;,<> 7 ,<6 ?1.6;1 7.6 ?'1 5' #,<67 M
747 ,<% 8
" % .6 1.J 671.6> <6;1 ?7 ,< >.6 <4< . ?'5 7>6 6.M
1,<7 >,405.68 .7 H4< > .4@ 6.1' .<-,V.'7,46 5.6 '<6 .7
;,<6.1-. >'<6 5. > 1.;7, 1. >4 > 671 ;7%
G " % .6 E 56 >. ; 7,V.<6 ';7 E68 =4 6;'6.1,<7 <6.1 76
>'<6 '<<..8 6.1,<7 1.J46 '4 6.1< .<7 >.5' J'1>.'<'

7 ,4' W 8 _c4 '6;'? E 7.1'8 '' 5'' 7.7.' ; - ='.'>4' UQ4 55.7
64 - '<78 >'<6 .' ; : ;7 .4 >4 > 671 ;7%
' " <% .6 ; 7,V;<6 <6; 76 .7 > 651 04>6 >'<6 5.6 ; , / '
?'J< .68 5,-6=4 566.1,<7;, / / '<>; 6 ?,41 5.6.1- ; .8
?,411,<78 ;< ;'6 > . / ?E ; : . / .<7 >J 7 / .8 6.'E' 1.'
1. <?5';.18 / ' 6 6. 5. / .<7 ?'1 >.6 ; 7,V;<6 <6;1 76641
5.6 1.J 671.6 .7 6.1-'<7 >'<6 5'' / / .' ; , / ?'J, .8 6'7 6
?,4-, 1 Q' / ' 6 .< . / ?5,V.1 > '471.6 5' ; .' 1. / ?5'; . '
/ .<7% .6 ? 1.6 ?,411??7 6.'E' 1.'1. / ?5'; .1 ?'1 ;416
E 56 e .6 >.')' '<68 .7 5.6 E1 1.6?'1 5.416 E1 1.6'V'<7
5 *J.'1. 4 6%
' " % ' 1.J'1>' >.' ; .4@ =4 ' 'V'<7 > ' 55.416 5.6
=4'5 756 1.=4 6.6 ?,41 ' ;7 - 75 <.' 6.'6.1,<7 Q '6 E' 7
<6;1 1.8 56 6.1,<7 6,4 / 68 ; , / / .' 5.6 '471.68 '' 4<
7,41 >.'6.1- ; .' '' 5'' >5; : '1J.' >.6 ; 7,V.<6 <6;1 76f
Q<' 6 56 <.'E.1,<7 Q' / ' 6 5.41 6.1- ; .' .< ?.16,<<.8 .7
Q5 '6.1,<78 641 / '<>. / .<7 >4 > 1.;7, 1.' >.' > 671 ;78
7'@ 6 ?'1 ; : '=<.' / 4< ; ?'5 7.' ?,41 5.' ?' . / .<7 >.'
; .4@ >.6 ; 7,V.<6 <6;1 76 =4 '5.6 1; / ?5'; .1,<7 >'<6 5.'
6.1- ; .'=4 56 '41' .<7 >E7 E' 1.% #.77.'7'@.'6.1'' .J'5.'
'5'' -'5.41 >.'>.4@ Q,41<5.6 >.'71'-' 58
" % #.4@ >.6 ; 7,V.<6 <6;1 76 =4 '<.'6.1- 1,<7 ? 6
-,5,<5' 1. / .<78 ,4 <.'E,41< 1, 7 ?'6 -,5,<7' 1. / .<7
G5;41 1.7<?5';.EE5.<7 '4 Q, 1 <> =45 ?,41 5.41 6.1- ; .8
6.1,<7 ?'1. 55. / .<7 7'@.6 ?'1 5'' / 4 ?; ?'5 7.I .7 '' 5''
71, 6 . <;'E, 6 =4 56 '41,<7 ' ; ,<71' <76 '' ?'V.1 ; .77.'
% 7' ".' >'<6 5'' / / .' '<<. .8 56 6.1,<7 646?.745468 ?.<M
>'<7 4< '<8 >.' : ,<<.<1 >.'6.1- 1 .< ?.16,<<.8 .7 >.'
.@.1; #.'>4 >1, 7 >.' ; 7,V;<6 ' ;7 E6 ,4 55 J 05.6%
.6 E. / / .6 .7 5.6 E .6 6.1,<7 .@. / ?7.6 >.'7,47.'
; ,<71 047 ,<%
+' <>.' 8 5.6 6. ;1 7' 1.6 E' 7 5. ;741.'> 4<;'5.771.'
>55 / < 671.'>.'5'' / '1<.'N .< -, ; ' ;@71' 7%
W .' / .7' 6 ; ,<;.17S'-.;5.' / < 671.'>.' 5''Q467 ; .'
?,41 .<-, ' >.6 <6714;7 ,<6 1.5'7 -.6 '4@; ,5,< .6I
.7 0 .1 '4 6, 1 5 / .< '-' 7 '>1.66S 4<.' .@?.> 7 ,< .<
E,1 / .% .6 ; , / / 66' 1;6 <, / / 6 ?'1 5.'1, 8 .< .@.'M
;47 ,< >.'5''5,7 >4 / , 6 >.'ES-1 .18 '-' .<7 1. 4 ,1 '
>1.'>.' ?'17 1 '4Q,41> :4 8 5,16=4.: .18 '' * : .41.6 >4
6, 1 Q.'1..46 >.' ..6 71, 6 ; , / / 66' 1;6 4<.'5.771.'?'1
5% / .55.' E 6 / '<<,< ' .<7 5.41 >. / 66 ,< 6 Q.' <.'
> E / 1' 6 >.'=4.5=4.6 Q,416 5.41 . / 0'1=4. / .<7% ''
; / '=4.'Q.'>.-' 6 ' ; ; .?7.1 5.41 >> / 66 ,<8 .7 Q.'-' 6
; : , 6 1 71, 6 ''471.6 ; , / / 66' 1.6 ?,41 5.6 E' '?'17 1
5.'?546 7 5%?,66 05.% & < '??5'4> 7%P Y
% ' ' ' 'A ; '??,17.' '' 66. / '
055.'5.' ; , / ?7.' ,EE ; .5 >.'5'' / 66 ,< >.' % 4-.V1 .18
5 <.'?.47 71.' '471.'=4.' ; .54 '=4 5 '>, / .'54' / / .8
>.Q'' <6515 >'<6 4< >.'-,6 ?1, ; 6 -#10'4@%
66. / 055.' .< ,1>,<<.'5.'1.<-, ' '4 ; , / 7 '> ?5,M
/ '7 =4.%
' / .>'?1, ; : ' < 5 6.1'' E' 7 4<'1'??,17 6 1 H,1>1.'
>;f '55.% +' '' 6.'<;.'.67 5.-..' '71, 6 : .41.6%
$.
' 7$(' ' A ' C)' A
< >.' % 5.6 6. ;1.7' 1.6 E' 7 5. '741.'> 4<.' '>1.66.'
>.6 1.J 66.416 <'7 ,<'4@ >.'1=?7.J 671. E7.K7 >.6 >, '
<7' <.6% % G' Y
W 4 / , / .<7 ' 5,51.'1.J ? '71,4-.' ; , / ?557. '
/ .<7 ,1J'< 6. .8 <,6 ?1. / .16 1.J'1>6 6.'?,17.<7 -.16
66. / 05..' <'5 ,<'5.8 '== '<,46,EE1,<6 : , / / 'J.'
>.' <,71.' >.-,E5 / .<7 .7 > '' 1.; ,<<' 66'<; .'5''Q 5 6
?41.'6> .' '' > 6 1.'=4.'5''?'17 .'5''?546 / ?,17'<7.'>.6
; ,<71 047 ,<6 <> 1.;7.6 E47 1.J .'?'1 >.6 : , / / .6 > 5 <
0; ; .7 > 4< ; - 6 / .'.?1,4-. 68 .7 <,46 ,6,<6 > 1.'=4.'
6,< -, .4 .67 1. / ?5 % <.' '> / < 671'7 ,<8 E,1 / ..'6,46
>.'7.56 '46? ; .68 >, 7 <. ; .66' 1. / .47 ?1,6? 1.1I . .67
;< -' < =4.'>.6 .<<. / 6 >.'5'' ; : ,6.'?405 =4.' 'E5.;7.<7
> '<<,<; .1 5.' ; , <71' 1; 8 ; .' < .%67 ?'6 '' .<@ >.' ; , < '
[71.' .7 > '??1. ; ;1 5.6 .EE,176 >4 ?'71 ,7 6 / .% .41
.6? 1'<; .'; ,4?'05.'6.1''> J4.'67 1 ; ; '?, <7 ; , / / .'6<E
5.6 '471.6% ,46 ?1, / ;75,< 6 '' 5'' ?% 71 .'>;' U

>,<<.1 7,<6 <,6 6, <6 .7 <,6 -. 55.6 ?,41 '6641.1 5.'
64; ; 6 >.6 .7'05 66. / .<76 / ?,17'<76 =4 '6,<7 1. / 6
>'<6 <,6 / ' <6% ,46 / ' 7 .<>1,<68 >'<6 7,46 5.6
; '68 .76'<6 ' ; ; .?7 ,< >.'?.16,<<.8 .@. ;47 ,< >.6 5, 6
=4 ' E @.<7 5.6 ?.1; .?7 ,<6% 5 <.' <,46 .67 ?.1 / 6 < >.'
5.6 7.<>1.'<'>.' 5.6 1.671. <>1.I .55.6 6.1,<7 64 - .6
'' 5''5.771.% .6 ; ,1?6 '> / < 671'7 E6 .7 5.6 71 04<'4@
; ,<7 <4.1,<7 >.' <,46 ?1 7.1 5.41 ' '??4 8 6'<6 5.=4.5
<,6 .EE,176 6.1' .<7 / ?4 66'<76% .6 ; 7,V.<6 .4@ '
/ 5 / .6 6.<7 1,<7 =4.'5.' 6. 5 / ,V.< >.'?1. -.< 1 >.;
<,4 .55.6 ; ,<71 047 ,<6 .67 > ' ; =4 77.1 1.5 J .46. / . 7
; .55.6 =4 '6,<7 .7'05 .6% .EE.7 >.' ; .7 .6?1 7 ?405 ; =4.'
<,46 '-,<6 -4 <' 51.8 .7 =4 ' 6 .7.<> ; : .=4.'Q,418
6.1''>.'1.<>1.' <.01'<5'05.6 5.6 E,<>. / .<76 >.'<,71.'
5 0 .175%Ý d
+' % 'N 41 5.6 > EE 1.<76 1'??,176 =4 '-,46
,<7 75 ?1 6.<7.6 ?'1 -,71.' ; , / 7 '> 'J1 ;45741.' .7 >.'
; , / / .1; .8 -,46 '-.0 64; .66 -. / .<7 1 J > 5.6 > -.16
<7 1576 >4 ; , / / .1; .' <'7 ,<'5% ! 1 ; .' '' -,6 6'J.6 >5'
;1.768 ; .77.'6,41; .'E ; ,<>.'>.'1 ; : .66.6 .7 >.'?1,6?5'
G1 7.'?40 =4.68 .7 7,47.6 5.6 01'<; : .6 >.'<,71.' <>46 '
71 '=4 .55.' - - E .' ,<7 75 >55 -1 .6 >.6 ; : ' <.6 6,46
5.'?, >6 >.6=7 .55.6 5.'J.< .'E 6;'5 5.6 '-' 7 7.<4.6 5,<J'
7. / ?6 ; ,4105.6%
,71.'?1. / 51.' ,? 1'7 ,< '' 75 >.'>.J'J.1 5'' ; 1;4M
5'7 ,< <7 1 .41.' >4 1,V'4 / .' >.' ; .77.' / 457 74>.'>.'
041.'4@ >'<6 5.6=4.56 6.'?.1; .-' .<7 5.6 >1, 76 >.6
> EE 1.<76 7'1 E6 =4.'-,46 '-.0 '0,5 6I '' 5''?5' ; .'>.' ; .77=
> -.16 7 '>.'>1, 76 '4@=4;56 5.' ; , / / .1; .' .7 5.6 -,V' '
J.416 7' .<7'664Q.77 6?1.6=4. '' ; : '=4.'?'68 -,46 '-.6
7'05 ' 4< 7'1 E 4< E,1 / .'>,<7 -,46 '-.0 ,1>,<<.'=4.'
5.6 >1, 76 <.'?,411' .<7 71.'?.1;46 =4 ''7,47.6 5.6 .<$
71 .6 .7 6,17 .6 >4 1,V'4 / .% ,41 '6641.1 .7 E'; 57.7
; .77.'?.1; .?7 ,< =4 '>, 7 71.' 5'' ?-,7.;51 ; .' >.' 4'
>4671 .' <'7 ,<'5.8 -,46 '-.0 >.7.1 / <.' =4 5 6.1'7
E,1 / .' 641 7,47.6 5.6 ; 7.6 .7 E1,<7 51.6 >4 1,V'4 / .'
5 <.' >,405.' 5 J<.' >.'041.'4@ >'<6 5.6=4.56 6.1' .<7
. / ?5,V.6 4< , / 01.'>.'?15?,6. 6 64E5 6'<76 >.'>5E.'
1.<7.6 ;5'66.6 > <7 5.6 E,<.7 ,<6 6,<7 > 1 J5.6 ?'1 4<.'
'> / < 671'7 ,<&%.471'5.86,46 5.'5 71.'>.'1 J . <'5 ,<'5.'
>.6 >,<'5 .6%
,46 '-.0 1.J55?'17 ; 45 51. / .<7 7,47 ; .' =4 '?, '
-' 7 <7 1.66.1 5.' ; , / / .1; .' <'7 ,<'5 ' >.5'' > ; '?
>.'K,<<. 6?.1'<; .' .7 '4@ 5 .6 >.'H1'<; .' .7 >.'K,41M
0,<8 ' <6 ' =4.' -,6 1.5'7 ,<6 ; , / / .1. 8 5 .6 '-..' -,6
; ,5,< .6 > / 1 = .% <5 ' -,46 -.<.0 >.'E @.1 5.'1.M
J / .'?'17 ; 5 .1 =4.' -,<6 <.'?,4- .0 ?'6 -,46 > 6M
?.<6.1 > .7'05 1 ?,41 5.'?,178 ' - 55.' .7 5.'7.11 7, 1.'
>.' ' 6. 55.8 ?,41 ; ,<6.1-.1 '4 1,V'4 / .' .7 '4J / .< '
7.18 '47'<5 =4 5 6.1''?,66 05.8 .6 ' '<7'J.6 / / .<6.6
=4.' : .41.46.'?,6 7 ,< >.' ; .77.' J1'<>.' - 55.'?.47 54'
?1, ;41.1% ' -,46 1.67.' .<; ,1.' '' 67'74.1 641 5.6 E1'<M
; : 6.6 >.'5'' - 55.'>.'K'V,<<.' .5 >4 ?'V6 >.' '0,418
' <6 '=4.'641 ; .55.'>4 ?,178 >.'5'' : '47.' - 55.' .7; 7' '
>.55.'>.' : / .1=4.% '6 .< '77.<>'<7 =4.'-,71.' ; ,M
/ 7 ' -,46 ?1.6.<7.'6.6 -4.6 641 ; .6 >.4@ ,0Q.76 / M
?,17'<768 5 .67 <67'<7 =4.'-,46 E @ .08 ?'14<.5, '
J <.1'5.8 .@. ;47 ,< >4 <,4-.'4 7'1 E =4.'-,46 '-.0
>. ;1575?,41 5.6 >1, 76 > .<71..' .7 >.'6,17 .'>4 1,V'4 '
< .8 >'<6 6.6 1.5'7 ,<6 '-. ; .71'<J.1%
.67 #.77.'5, '>,<7 Q.'- .<6 -,46 ?1.6.<7.1 5.'?1,Q.7
'4 <, / '>.'-,71.' ; , / 7 '> 'J1 ;45741.' .7 >.' ; , / / .1M
; .% 'V '' ?546 > 4< '< =4 5 -,46 .< '' 75 > 671 04.'4<.'
?1. / .1.' > 7 ,<% .?4 6 ; .77.' . ?,=4.' 5.6 > EE;1. 7''
,06.1-'7 ,<6 =4 ' ,<7 75 E' 7.6 ' -,71.' ; , / 7 8 .7 = 5
6 .65. / ?1.66 '>.1. ;4. 55 18 1,<7>57.1 / .' '' 1.E,<>1.'
.<7 51. / .<7 ; .' J1'<> 71'-' 5I .7 >.?4 6 ?1.6>.'% @
/ , 6 =4.' 5'' <,4-.55.' > 7 ,<8 =4.' -,46 '-.0 ' ; '
54.55.< .<7 6,46 5.6 V.4@8 -,46 '' 75 > 671 045.8 -,71.'
, / 7'V '' E' 7 >.'1 ,4-.55.6 ; 7 <, / 01. 6.6 1 E,1 / .68
.7 5 <.'6.' '5 '6 .< ; ,1.'=4 .< 5''6, / ;77'<7
'' -,71.' >55 0 1'7 ,< 5 '' 0.6, < >.'7,47.'-,71.' <>45M
J.<; .% .'5''1 ;5' / .'>,<.'?,41 -,71.' ; , / 7 8 ;7 641

?.17.;<,<6' '4< ;1'-' '466 ;,<6 >.1'05. ,< E'-. 1
&5.6 <7.<7 ,<68 >. ;.4@ =4 6GV 6,<7 B-1>68 . ?'66.
/ / .> '7. / .<7 " 5" 5.;741. >4 5 71. DGG >4 ?1,Q.7
>. 5, =4 " ?,41 ,0Q.7 ';=4B7. / .<7 >.6 >1, 76
>G.<71.. .7 >. 6,17 .%
.6 '17 ;5.6 64 -'<76 ,<7>>;1.7>6N

- =V$$ & I / *

., ("-. $,"-(- *+*3 #$2(" 4+.?(",+$$#+ -(3.(, " 4+. ''( ) ((*+,$ *+ ('(. *, +33 $,,(" + , *,(" (" (*& ,.((" (, ' .,$(" - . 8+ (/ * *)',+*, , 4+''(D4 .,'/ ('5,$(" -((.(*, ',$44.$ (' BB (', - #(*-* + 2 4.(4 ' " -($+ .(9$(-D+. $. (9+.- + 3(5 , 4 ..+$(*, ,.((24(DD -$('/ *$ +-2 .-.(" 4+.,$3* (."5+$ '(.+$(*, - *$$(" -+*"B(*$($ ( ) (, ((+.(*, 4+.($ (.+(*, ' 44.$ (", *"4.$0$1 (9('/ (2(4,$ *" * - +,$ *"-('-$,"-. $,"- *, $'D '(*, 5+(5 (" 4 .,'/ 0$ ('/ 6 4 +*2 (, 3 .* **+ ,("- . 8+,$ (/ ,($,.(5 (3(' $,/ '+ # (" (23(4,$ *" -(+ -(3.(, ('/ (, '+*" .$(* 4.(9(. .($+ $0((*,+ 2 #.+*36$'(" -("4 ., (, 0$ (-("+8 **((, -* 4+8" -(+) ./ -* 4 ., -(+ 6+ ,(0$ ((, 3$,+-($(-(*Y(.5 (/ '5 + 3(5 $ +$, (,(',+, (/ '+ # + ''$ + 3 *0(*$. +0(3 (" 4*$''+ 3(" (.+*9(.(" -(" (' .(" -(. 3$4. 3$,(.(+,$0((*, + 2 4+''(!4 .,"5 $,+$(.$, - *$$(" + 2 +)+''+-(." .('4(3,$#'

: (") .(+ 2 4 +3(" ' . ("3-,("- . 8+ ('(.0$! % *, (* ((,(4" + + 4(.3(4,$ * -("-. $," - ($$,. (, -(' .,$(.(9+.- -(" #. *,$.(" -(,(..(/ (" -. $," - (*! ,.(('(. *, +35 $,,(" -+*" (") .(+ 2 (" 4 "0 $'$*" -(. ,.+*9(./ (, (" -. $," -(' .,$(-+*" 3(2 4 +3(" ' . $+ $ ($*,(.$(.(/ + $*" 5 (3(" -(.*$(." *(' $(*, 4 " 9*(" - $(- 3)+.9((*, 5 (3(") .(+ 2 - (*,.((/ 1 - (' .,$('(. *, 4+8(" -+*" 3(2!3$ (" -(2 $9*(" -( ) .(+ 2 '(3 *,- (. *,(, ' .0($ (. *, ,(+." 4(.+,$ *" .('4(3,$0('

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: .'5 (-(" +.36+*-$'(' % 5 $ - $0($, (" -. $,"+* 4 $-" *(, + + + 0+ (. f(,. 0(. *, -+*" (" (")+! ('/ 3+$''(" ," # ,+$ $(' ' +0(3 - ,(" (+.36+*-$'(" 5 $ - $0(*, (" -. $," + 4 $-"). ,/ + ,+ $,(-('-$,("(+$''('/)+ (" # ,+$ ('/ 1\ ("-. $,(+ 4 $-") .+,

: .$(4 +.. *,/ 3(2 + 5 $ (" +.36+*-$'(" '(. *, +-.(''(('/ (,.(3 *,.+$*,"+ (* 4+8(. ("-. $,'/ $% '5 $"(* #(. *, 4+._(3.$, +)+*- * -+*" ("-4 +*(' (" +.36+*1 -$'("+$*'$ +)+*- **((''(. *, 0(*- ('/ (, $#' (.+ -$'4 '(- 4. - $,-(+ +*$(.('3$! 4.("$*-$5 (4+. +., -
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: (. *, (2(4,(" -("-. $," - (*,.(((-(' .,$((" +.36+*-$'(" (, -(*.((" +44 .,((" -((,.+*9(. -+*" * 4 ., - . 8+ (/ .'5 (,+*, -(',$*(("4 (,.+*9(0/ '4 * + ,.(4 , -(.+*3(/ ((" '(. *, -(3+.(" -(0 $. .(',(.+) .-/ (,'5 (("*(" '(. *, 4+*" -(36+.9((" -(" *+0$.('7 + + 36+.9(-(',$#$(-(.-(,$*+,$ * *,(.$(.3

Z * ('(.+ 4+8(+ 3 * -. $, 4+.,$3 $(4 4 . (" +35 $," 4+''+0+*,'7 +$" (4.$2 -+ ,$) .(-(36+5 ((24(-$,$ * '(.+ .( ) ,,.-:

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& ., *,(" (" +.36+*-$'(" (, -(*.(("$$*4 $,((" R+*" (. 8+ (' '(. *, 3 *-+$,(" -$.(3,((*, +* 4.($*$(.D

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: (" (("4($*("'(. *,(*3 . (" .'5 ((" +.! 3)+*-$'("+ . *, -(4+' 3 (") .(+ 2/ .'5 +0+*,-%8 +0 $. (,3 3 *- $,('/ (("(. *,$* . - $,(" -+*" 5 (5 (" +$ 4" +) (.9('7 ((("5 $+..$0(. *,+4.(" (,(4" -(+,(* (-(") .(+ 2 '(. *,- 4 '(" -+*" ("-(4(*-+*" ! 3("-(3(") .(+ 2/ (,'+*"#.+$'/ '5 + (*,-((*, 0(., .(7 + ((, -('5$$ $ +, 9$(++-/ ++,+*,'5 (#+$.(' '(4 +$#+/ -("3 .'6+*9+.",(+*,++2-$,") .(+ 2

: (2 5 $ 0 -. *,#+ .(.$$. - . 8+,$$) (-(" +.36+*-$'(" -(*.((("'(. *,(* '/ " ("4($*("4 .! ,(("4+. +.,$3 (4.($(./ -((*- $.(+ 4.($(.) 1 .(+ -(' .,$(/ 4+. + ,(+ 4 ' -$.33,3 (, + 4 "#.(! 5 (*,(($ (', (#($$-$, -(4.(*-.(+ 3 * 3)($ $*) $5 (/ (*-+ 2 3 * .*(,(0$, (") .(+ 2 '8 + .+ $(* + 4+.($ ("4($*('/ '5*$ $" + . *,-(4+''(3(3(") .(+ 2/ (,5 $ (" '(. *,(+) $'/ '+*" (24(-$,$ * * 3$!+4.-" 4.('3.$,('

: ("3+4$,+$*(" * +$$.("-("0+$''(+ 2/)+,(+ 2(, + ,.(")+,$ (*," 5 $ +) .-(. *,-+*" * 4 ., -(.+*3(/ +0(3 -('$*+,$ * * 4 . ,(" 4 -+ 4. . 8+ * / '(. *, ,(" -(.(4(*-+*"(" + 4 $$(3((,(*-+*" ,4 + .4.(*,'5 + 4($*((, '+ 3 *,+$,(" -+*" ' *4+" ('(.4 4(.3(4,$ * -(.3(" 4+. ,(+4(.3(4,$ * ' 3 ("0$*9,!5 +,.(6(.(" -((.+..$0(((/ #+$.(') .(+ -(.(9$(.$(-(3+.+,$ * * $ +.+$'(" -(3+.+,$ * $$$,((*) .(+,4 $ 3+$''('/)+ ('/)+ ,(, **(+ 2 -(.3)+.9((*,/ .(! 4. '(*,(. ('3 **+$''((*,'/ 36+.,('4+.,$(/ '3 **+$''(! (*," * 4 $*,$ $,+,$ * 3$.3 *"3+ 4+ $$*(. ,+$$(. +*"5 $+$(*,0$*9 -(" '(. *, -(4+''(-(" 4+.'$(.('/ 3+$''(. -+*" -(3+.+,$ * XII 0 + (*-(/4 . .(" +.36+*-$'(" 3 (.,$*+*,-(" (' ' $,$*'(.$(4.(" -(*,$#$3+,$ * XII 0 + (4.((3(" +.36+*-$'(" (4 .,(*,.((+ 3+''(. .(" -(" '(. *, -($(+.36+*-$'(" 4 (. 0$*9,!5 +,(6(.(" $2& 3D$!-(' ,n" *(3 ..+ 4 $*, (" ."-(-$ +*36(3, -(#(,('

: $ ('-$,"3+4$,+$*("3, *+$,.("-()+$ (*,"3,+*,.(*& - " + 2 4-,," . -(',$*+$ * '($%*, ,(* '/ ' "4+Q .($ (4($*(-+ (*-(-(XII $8 / -(- **(./ -+*" (" 0$*9,!5 +,.(6(.(" -((.+..$0(((/ +-(3+.+,$ * * -((3)+.9((*#/% +5 (-((.(++) .(+ / '(. .+.$'3.$,(' .(.(9$,. (9*(("- (27 (, -+*" (3+" $ "*("+ ! .+$(*,4+" $9*(.$('(+3% #+$, (*,$ *"'. '$(9$,.(+ -(3+.+,$ * -(8.+ (,$%(#+$,(7 5*+*- (($ " '(.+$(*,' (((,

: / (" +.36+*-/'*(9 3$+*," (." #+3,(.'/ 3 .! ,$('/ 3+4$,+$*(" (, +$,.("-(*+0$.('/ 5 $ 0 -. *,#+$.('..$'4+. (,-(" +.36+*-$'(" -(*.((('/ (*- *4(. *, ,+-(3+.+,$ * - *(. *,$ *"+ ,("* + # . 3$!-(f' "4.('3.$,(/ (("#(. *,3 *- $.(+) .(+ / +,(+ ,(*-(. -$$$*9*$ *$('(. *, 3 *0(*,$ * *,.((* $.(9$,$ * (3 (.3 +4 ,$+ *,, (* +$,$ +*(. (*4 (. 3 ..(') $5 ' "5 ' ,$(*,.$(' 5*$ "3 **+$''+*3(('(' +"3(-(. *,-+*" 3(" 4+.-(' .(*,3 ..(" +.36+*-$'(" (, -(*.(('.)+ + .*4((

: ("/3+$4,+$*(" *.'3 +*-+*," -("0+$''(+ 2 - (9 (..(/ (,(# "+ ,.(") (*-(' 4 8("+ (.0$3(-(+ +$*$(" +.36+*-$'(" (*+ ('("$*%(" '(. *,-(($?" -(.(.+24$.' $,+ (*,.((./ ' ,$,Q ,("([$ + ,("+ 25 ((" *,"+" (,! ,$'4+ (4+$#$(,$,(" (7 + $+$$$(' + +$,("-(" ,6.$0(" +.36+*-'/ ((,'/ ('" '% ((4($*('7 '+*" *(+* $(*" 5 (("),+$ (*,"+4+.,-+*" (*,"F +*,+,$ *4 $'"(*,(" ,(.!' ,(*" ") 3 *40(,(2,([(" 0 $, .$(." - 3 *- 3,(." -(+$36+*-$'(&D (*,.+*,' 4+ ,(.. *,'(. *,,+!+ ''$ (* '/ ' (" /4($*(" 4 (" 4+. + 3 * 4+. + ,((4($*('(*,(-$ -$,(. ,+!(,4 /( ) -(((,, +$'-4($*(" ,(/ $* ((*,-(4+''(-(" +0$''(.$+ -(3+.+,$ * $+ $$+ .+$(*,(.

[illegible]

! b BK' / WW ' BEE5 ' 5

L' $' 5 '09 '/19/' M' " ' ' ')' #

b

3 %

'G '+' '- ' .6' / <071.6' > -?' '
J7 .' .7 >.' '?5.6 ,<7 1. / 6'77 > -'< 4<'<7 / , 1.'1.5'G%
7 E' " '1.;,<; 5 '7 ,< >.'5" ,17.' '-.;'5" 466 .I' 766.'
>,<<.<7 0.'4;,7 ? >.' / ,4-. / .<76 ?,41' >.7.1 / <.1'
5.' / < 67.1.' ,77, / '< "5"?'7@%
.';'? 7'<%?';:" .67 7,4Q,416' >'<6'5.';'<'5' '-.;'6,<
.6;'>1.' >.67 <..' 7 5" / .1' , 1.I' 5.6 -.<76 #,<71' 1.6
. / ?.;:.<7 6" 6,17 .%
' / 0'66'>.41' >.' ,5,J<.' " 1.<,4-.5.' '<> -'< 6"
>.;5'1'7 ,< =4.' 5" 1.?<05 =4.' >.' ?,5,J<.' <.' ?,4-' 7
?, <7 ;,<6.< 1' "4<.' '55 '<;.' ,EE.<6 -.' '-.;'5" ,17.%
$.'?.,?5.'?,4164 7?'17,47 5.' J1'<> 6. J=;,18'. '>.M
/ '<>'<7 5" ?' @' 7 J1'<>6 ;1 6%%%%%

#a%

'G & '(' +' Y5.'0'1,<>.'K45,7 8
.<-,V.' >4' 1, ' ?1.6 .5.;5.41' >.' '@.8' .67 ?'17' 0 .1'
?,41'6' >.67 <'7 ,<%
.?4 6 5.' D'>.';.' / ,76 ,< ' '?'66.1'?'1'5.' 4<>'
9 '<'- 1.6'>.'> -;16.6 <'7 ,<6%

' '$ ' 'H'- (' " ;, / / 66 ,<' '#7'05 .
?,41'1.> J.1'5.';,>.'; - 5' .7 ;1 / <.5';, / / .<;.1" 6.6
71' -'4@'5.' 5D1' 6.?7; / 01.'?1,.:' <%
< / '<>.'>.' .7.160,41J' =4.' 5.6 ;,416' '55 9.6 ,<7
1.7 1.'5.416'>.1< .1.6 ?1,?,6 7 ,<6 ' .7 =4 .55.6 0,1<.<7
'4Q,41> :4 ' 5.416' >. / '<>.6 ?,41' ,<.' ?' @'>,<7 5.6
;,<> 7 ,<6'?,411,<7 .71.'A';;.?79.6 ?'1'5" ,17.I' ' <6'
5' < .67 ?546' =4.67 ,< > . / 0'<'6' >'<6 5" / .> '7 ,<%
%" ?' @' ?'1' 7 '6641.. ' %%%%%%%%%%%

! %

'3 'M' ' - '+' / ?.1'71 ;.'8' ';;, /?' '
J<..'>.' '1;: >4;'H1'<;, 68 .67 ?'17 .' 0 .1' / '7 < >.'
'@. / 0,41J'?,41' '57.1' " 5" 1.<;,<71.' >.' . / ?.1.41%
< / '<>.'>.'5" '5';: .8 .<>'7.'>,% *Q, <8';.'=4'
64 7N 5.6 ?1#?'1'7 E6 >.' J4.11.'6.';,<7 <<.<78 =4, =4.'
?;16,<<.'<.';1, .%"5" J4.11.% 1.6 >.'C 8 ';, / / .6
6.'1.4< 66.<7 >'<6 4<';' / ?8 .<71.'5.6 1 - .1.6 >.' 4/ '
' 0. [0" .7 >.' '5, / 6'8 .6 466.6 6,<7 .< ?5. < / ,4 '
-; / .<78 5.416 0 7 / .< 6 6,<7 -'<;>6Q46=4 " . / 0,4 '
';041.' >4' .1.78 -.76 K1': 5, [I' 4<' '471.'>.7';:. / .<7
>.' 466.6 / '1;:.'-.16' ';0 <% < 71, 6 . / .' " ?'66.' 5.'
.1.7 .7 .67 .<7E.' >'<6 5" 1'Q" >.'K1': 5, [% '1 / .#
?1 <; ?'5.'>.6 466.6 .67 ?1.6>.K' ,48.<71.'5.6 1 - .1.6
>.' .1.7 E.5 >.' '7-467:%

% '$! ' [ )Z ^ 7 ' ' ' K.15 < ; 4.'
E.'1, '6.'?1,?,6.'> '75.1.< 1466;5.'7W1' ,>7 ?1,;:' / 8
?,41'V ?'66.1' .<'1.-4.'5.6 1.J / .<76 I' >.'5" Y %>, 7
6.'1.<>1.'.< 5.6 .'?,41' 5.' / . / .' ,0Q.7%
< / '<>.'>.' 41. / 0.1J' =4.'5.' J.<.1'5 K?4 5 >' .67
?'66.'?'1';.55.' 55.' 5.' '>.';.' / , 68 '55'<7 " .<<.%
< '771 04.' " 5'>V #1' -.<8 =4 ' -,V'J.' '-.;'5.' / '1M
J1'-.'> <6?';:8 5" 1.6,547 ,< =4 "?1 6.';.'?1 <;.'>.'
1.67;1' '06.<7 >.' 6.6 .7'76 .7 >.'5.6 E' 1.' J,4-.1<.1'?'1'
7 < ?1. / .1' / < 651.8 =4 ' .]7 .< / 9 / .' 7. / ?6 / < 671.%
> #7'7 >.' % % ?1466 ;<<.I' ,< ?1.?'1.'?'1'5" 5.6 :'M
0 7'<76 >.' ;.' ?'V6 " ?'66.1' 4< Q, 41' " 5" >, / <'7 ,<
?1466 .<<.%
< .;1 7 >.' 1.6>.' =4.' .5.;7.41' .7 .5.;71 ;.' .<
6,<7 ?'17 6' 5.' '>.%;.' / , 6 ?,41' ,5 .<67. <8 " '
%/.5.;7.41'6.'?1,?,6.'>.'?1.<>1.'5.6 0' <6%
"J ,6?66.' ' .5.;51;.' ' H' ';,<E 1 / .% <
7 ' '<<,<;..'"5';,41% ! .7.-.<. / .<7-';:'<..1'0.'4
' F 'F '< ' '.

#,4?' >.'?1,Q.768' .7 >.; >.1'5 9 .;7.41' ' ';;.?7.1'5" A
;.66 ,< .-.<74.55.' '4'71><.'>.' ,5,J<.%

'

'! * ' (' ' 7- ' .';,1?6 > ' d
/ #.' '4@' ,1>1.6 >4' ?1 <;.'>.' B,a.<5,:.'6.'6#?'1.I'
5.6 1#J / .<76 .7,7 1 <.<7" 5.416' '<; .<6 =4'17 .168 / ' 6
;.?.<>'<7 56 1.67.<7 .<;,1.'641' 5.'? .>' >.';' / ?'J<.%
< ?'15.' 0.'4;,<? > 4< '11'<J. / .<7 ?'177;45 .1'
.<71.'<, 1.';,41' .7 5' / 6,<> 471 ;0.N 5.6 4<6> 6.<7
=4 5' " ?,,1' ,0QW' :,1< .7 '<70 ; f > '471.6 ?1U64 '
/ .<7 =4.'5.6 'EE' 1.6 >.'H1'<;.'6,<7 4.6 >.' / 9 / .' .. Q
?'1' 5.6 >. @ ?1 <;.6 '1 / 6%

>#

%B .41.46. / .<7'5.6 71,405.6 6,<7 .<E <'?' %'
6#6 "K 1 / <J:' / 8 .7 5.6 >0 / / 'J.6 ?1.6 >.' / , 7 > / , <6
;,<6 >.1'05.6 =4 ,< <.' 5.' ;1,V' 7I' =4.5=4.6 ?'? . / '
'6641.<7 = 5 ,<>, 7 5.' 1.7,41' >.' ,1>1.' " 2" ?1.6.<;.'
>.6 71,4?.68' .7 >. / .<7.<7 ;< =4 ,<' '-' 5 > 7 > '0,1>'
>.'5" 1.6 67'<;.'>.6 6 > .4@8 =4 ,< 64??,6' 7 '-, 1'74.' '
6. 0.';'-'5 .16 >4'1.J / .<7 >.6 K5.46 > @E,1>% / '5.7 8
71.6 >.'K 1 / <J:' / 8 .< >'7.'>4')' '?1.6 / > 8 '<<,<'
;.<7 =4.'5.6 / 47 <66.6,<7 > 6?. 6.68 .7 < =<7 ?546' 1.
#14' >'<6 5" - 55.I' ,< V ' -' 5' E' 7 ; 1;45.18 7" -. 55.'>.'
< -.16' 1.8 <.' '>1.66.' '4@' :'0 7'<768 >.6'-,<..'
?405 =4. / .<7 ?'1' 5" 6,; .7.'>.' 5" ! ,<67 747 ,,8 / ' 6
=4.'5.6 'J 7'7.<16%0 .< ,<7 ?'6 / , <6 ?1.7.<>4' .71.'>.'
;.6 ' / 6 >.'5" 1.-,547 >< E1'<=' 6.'Q?'1;.' =4 5 5.41' / '
?,17' 7 =4 ,<;1>7;.77.';'5, / < .I' 5 .67 E ;0.4@=4.';.6
1.6?.;7'05.6 ' / 6 >.'5" 5 0.17.' .7 <,< >.' 5" 5 ;.<;.' <.'
6.'6, .<7 ?'6 '067.<46 >.';.77.' E.7.';, / / .' 56 .< ,47 .4'
=4.5=<.' 7. / ?6 5" - ,5,<7.8 / '< E.67..'?'1'4<.' ;51;41%
5' 1.% 56 ,<7 ;.>.''4@6,55 ; 7'7 ,<6 >4' / '771.'>.' : 7.5
'>5.V8 =4 '5.6 " '6641.6 =4 .< ;, / / .< <7 .7 EE, 6'
6'<7 >.' 0,<<.' :. 1;' 5' < V '41' 7 ?'6 5.' ? <6 5.J.1'
/ ,4-. / .<7I' .7 ;.17.6 ;.77.';,<> 7 ,< ' .7.'1.5 J .4 . '
/ .<7 ,06.1-..8 ?4 6=4.' 5.6 ;,<- -.6 6.'6,<7 1.7 1.6 '
6 @ :.41.6% ,46 '-,<6 >,<<> 0 .1' '>1.66.'>4' 8 1.M
> J..'>'<6 4<'67V5.'-1' / .<5 6.> 7 .4@8 .7 =4'<.'?,41'
1' ;' .71.'Q467 E ..' =4.'?'1'5.' 0.6, <8 5.'>.6 1' .7 ';7.'
> 4<.' <6411.;7 ,< J.<.1'7.% .6 > J<.6 K1.7,<68 ' / 6
>.'5" 1.-,547 ,< E1'< ' 6.8 ,<7 .4' > ' 55.4168 ?,41'?1. '
/ .1'6, <8 >.' >,<<.1' '<'>. / .<7'E,1 / .5 '4@ ?.1<>.6
<6 <4'7 ,<6 >.'5" / '5 J< 7.' .7 >4' / ';: '-. 01<.Q 4 6 '
=4.' .'?1. / .1' '' .7 '?,17.' "5" ;,<67 747 ,< =7 '= G
1,7% ,1>' V56E,1>8 .7=4 <0.' '471.6' / 6 >.'5 ?'5" ' %
51.<7 <47 . / .<7 > 641 04.1''4@'6.> 7 .4@8 5.' / '7 < >4'
(8 >.6 1. / ,<71'<;.6 <7 745..6 ' * A S*
' ' 0 & ';E;R4 E.]>' 6 I6=4.55.6 '
.< 71' 7'<7 5.6 / 47 06 >.'E1 1.6.7 > ' / B67.41' E,<7
,06.1-.1' =4.' 5.' ?' . / .<7%>.6 >, / / 'J.68 / ,<7'<7 '
4<.'6, / / .'7< ';,<6 >.1'05.8 6.1"<.;.66' 1. / .<7 1 '
?'17 '641' 5.6 ?'1, 66.6 1.6?.;7 -.68 .7 'Q,4 ' '5.41';,7.'
> / ?,6 7 ,<6% % I'A I' T T
.6 / ' E 7. / ,<< 68 ?'V ' ?,41' .<6'<J5 <7.1' '<'
< -.16' 1.'>.'5" 1 -,7=7 ,< 0<7 .@; 5E1=77.5=<.6 / ,71 %
-. / .<76 6.> 7 .4@ "5" E, 1. > @E,1>% 457.'?'175E. 7.'8'
>.'5" 0.17 < " 7 ' '4667 01 55'<7.' =4 ' ! 405 <% 5' V "
.4' >.6 554 / <'7 ,<6 <,0 ;, / / '<> .6 >'<6 5.6?1 <. '
?'5.6 14.68 .7 5.6 -,5,<7' 1.6 ,<7 E' 7 ?546 .416'> ;0'1'
J.6 >" / ,46=4.7.1 .%
.#,411 .1'>.' 41,?.8 >,<7 <,46 '-,<6 . / ?14<7 '
5" 71'>4;7 ,<8 " 64??1 / ' >'<6 5" 5.771.'>4' >,;7.41'
1 .675.V 5.'<, < E,17 ,06;41' > 4< ;.17' < $' ' '>'<8
=4.'1 <E?1 @<..' -;7 / .' >.'5" 1'J.'1.5 .46.';:.' '4'
<, / 01.%>.'6.6 =<<. / 6I' <,46 ;1,V,<6 >.-, 1'85.'1.6 '
74.18 'E < =4.';.70, / / .' <Q467.'.7 ;'5,< < '7. 1'6, '
> - 4 ' '5" :0<7.% Y' %
C

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'8 ' +% *" '11 7 ' ; .77.'<4 7 % '<.4- 55.'8 ; >.-'<7 J.<>'1/.8 ;7$W<.' >./ , 6.55.' =4' >.' / ;41' 7'-.;'54 '14.' .4-. ' <7 H1'<; , 6% #.77.'>.M / , 6.55.';:.1;:' 7'' ;:'<J.1'>.'E'4@';,4?,<6'> <' 7>1.76'>.' '5 -% .7>.'U5 -%7,'6%8'>,<7,<'6,4? ,7<;' ' '<.4- 55.'> >71.'5.'E'0<;'7.41%

546 .416'E'01 ;'7.416'>.' E'4@' '66 J<'76',<7'466' >7>' '11>7>6I',<' '6641.'=4.' '>/ <671'7 ,<'>.'?,5 ;.' 7 .47'5.' 55'>.';.77. 71' / .8 .7=4 5'<V'' .4'=4 4 '71.6' ?.7 7'<?/ 01.'>.';.6'.EE.76' /Q6'.<' ; 7;45'5 ,<%

' a 3 %

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+.($ " ,+) (+ 2' ,'(,('(*. 8(" + 2' *$3$4+ $, " -("(*0$. *"-(' +.$'

("+- $*$',.+,($%"-(' 3(,,(' 3+$''(' $*0$,(*,' (." 3 *3$, 8(+"+''(',(*$.'(*'9+.-('3(*,.(' (' "#+ 2')$ (," 5 $'4 ..+$(*,% (.'(,.('4.('('*,('

*'+'+44 .,('+ +'3 *#(3,$ *'-(")$ (, " -(' +'3+$''(' 4+,.$,$5 (' ("4 "9.+*-("4.(3+ ,$ *"4 .'4+.(.'+ +'(*,.(#+ */(,$'*(','4+"4 ''$) ('5 *'.- ''$''(' +'3 *,.(#+$.('3('")$ (,'/'+*"5 $'(2$',(', ."-(" -$## *3('#+3$ ("+'.(3 **+,.(

& c'K # L'

3$ * ' [illegible]'

G '& ' ' & '' 1 '' 8'- ' ' ! ' ' ' '8 8' ' '! ' ' ' ' ') . ' ' ' ' 'C ' '

(* % ' 8

('?1, .<1.<1'>.'5'' ., / </<.'>.' '1 68 .<'-.174'>.' 5''5, '>4'U'E.-1 .1'>.1< .18 ?,17'<7 7' :5 66. / .<7'> 4<' 71 04<'5'>.' ;, / / .1;.'>' 6'5'' - 55.' >;' '1 68 '?1 6' 6 71.';,<;.17>'-.;'5.6'Q4J.6.7';,<6456' '.74.55. / .<7' .<'.@.1; ;.8';,<-,=4.'5.6'<. ; '4768'0'<=4 .168 / '1M ;:'<>6'8'E'01 ;'<76' .7' / '<4E';741 .16'>.';,;';4<.'>.6' U)'6.;7 ,<6'>.' '1 68 ?,415.' / '1> C',>78 :4 7' :.41.6' >4' / '7 <'8'>'<6'5.' 5 .4' ,1> ' 1.%>.' '66. / 05..'>.' ;:'=4.'6.;7 ,<%

' .' ?1, ;41.41'>.'5'' ;, / / 4<.' E.1'' 1. / .771.' '4@' ;, / / 66' 1.6'<, / / >6' ?'1'5'' / 4< ; ?'5 7V8'?,41,4' -<1'5.6'66. / 05..68'4<<, / 01.64E7 6'K7> .@. / ?5' 1.6' >.5''5, '>4'U'E.-1 .18'>.'5''?1.6.<7.';,<-,;'7 ,<8'.7' / 5<.' 4<.' <6E14;7 ,<'1.5'7 -.' ' 5''E,1/ '7 ,<8''5'' 7; / .'.7'4@',?.1'7 ,<6'>.6'66. / 05>.6'?1 / ' 1?6%

.'?1 7;41.41'>.'5''; , / / 4<.' <- 7.'5.6'?1.6 >.<76' ;7'6.;1.7' 1.6'>.6' '66. / 0 V.6'''54 '.<-,V.1'5.6'?1,;.6' -.10'4@>.'5.416',?V1'7 ,<68' '466 7 7'=4 .55.6'6.1,<7' 7.1 / <..6% % 8

?Q / .> '7. / .<7' '?1E.6' '-, 1'1. 4';.6'?1,;.6 -.1' 0' @8' =%?E, ;41.41'>.'5'' ;, / / 4<.' ;,<-,=4.1''5.6' V .;7.416' .7'5.6' <- 7.1'' ''6.'1>4< 1'8 ?,41'<, / / .1'5.6' ; <='Q4J.6' .7'5.6'=4'71.' 64??5 '<768'>'<6'5'' < ' 6,<' #, / / 4<.8'5 .4' <> =4 8'?,41'5''7.<4.'>.'5.416' '66. / M 05 .68' ?'1' '11 7 ' >4' ;,1?6' / 4< ; ?'5'>4' ' Q4 <' >.1< .1%

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.% 6.;, / Q7' 64065 747 '>Q, <7' >4' ?1, ;41.41'>.' 0' 8 ,<'4 4S 'V'47' 4E,1 / ;8' ;' 041.'4'=4.8 / '5J1W Y

6'J.66.'>.6' / .641.6' ?<6.6'?'1'&.';,1?6' / 4< ; ?'5% ?,41' '664 ;1' ,1>1.' >'<6'1 ;:'<J.'>.6' '66 J<'76'>.' '5 -%8;,<71.'>.'5'< .<4.' / ,<<' .8 ?546 .416' ?'17 ' ;45 .168 < ;,47'<7'=4.'5.41';4? > 7.'8 71, / ?.<7'5.6' ;:'<J.4168'6.' ?1,;41.<7' ?546 .416' <4 / .1,68.7;<' E,<7'.<64 7.'71'5 ;I'5.'041.'48'-,45'<7'6641.1'5''?'1' E' 7.'.@ ;47 ,<'>.' '<.7.>4' ;,1?6' / 4< ; ?'58 .;,M <, / 6.1'5.'7. / ?6'?1 ; .4@8>.6' ; 5,V.<68' ?1.-.< 15;' <,<,?,5;'=4.'>.6';, / / .6';4? >;6'.@.1;.<7'641'.4@8 .7'1. / ?5 1'' <6'5.6' <7.<7 ,<6'>.'1'> 671'7 ,<8''1' 1 7;8' p'=4 5'6.1'' 7'05'' .>7'>.'5''; '66.' ';74.55.' ?546 .416'4471.6';' 66.6' > ..:'<J.I' Cp'=4.'5'>671 ' 047 , '>.6'<4 / 1,6' <> ;'7E.'<.';, / < .<;.1''=4 '' ' :.41.6'?1.; 6.6'>4' / '7 <8' =4.55.'=4.'6, 7'5''=4'<77;' >.'<4 / 1,6'E @ 68' ?,41';:'=4.'Q, 418' ?'1'1'> / <6' 71'7 ,<I' _\=4 .55.'6.1''E' 7.'?'1' ?546 .416'?.16, / .6' ''5''E, 68'<E <=4.55.'6, 77.1<@ <..'>'<6'5.'?546';,417 > 5'' ?,66 05.I' UD =4.' .;:'<J.';, / / .<;;1''>'<6' 7,47.6'5.6';' 66.6' '466 7>7'=4.' ;.77.'> 671 047 ,<'6.1'' 7.1 / 4. .8 / ' 6'<.';, / / .<;;1''?, <7' '4?'1'-' 7I' =4.' ;:'<J.';,<7 <4.1''-.;';.5.1 7?'.7'6'<6' <7.1M 14?7 ,<8' .7'=4.'5.6';' 66.6'6.1,<7'E.1 / .;6' '466 747'=4.' 5.6'<4 / .1,6'> 671 04. 6''41,<7' 7 ' ; '<J 68 =4; =4.' :.41.'=4 5'6, 7I'9D=4 '4;4<' 4 / .1,' <> ;'7 E<.'6.1'' >,<<'' '>.6' .<E'<76'4 >.66,46'>.' ' '<6I' > E.<>'' 7,47.6'?.16,<<.6'>.'71,405.1' , >1.'?405 ;8' .7';;54' 7'05' ?,41';.77.'> 671 047 ,<I' .<Q, <7' '4@';, / / 6M 6' 1.6'>.' ?,5 ;.'>.'5''6.;7 ,<'>.'5'' 5';. ,V'5.' > V -. 55.1'8' ;7'>;'E' 1.''11 7.1' ;.4@'=4 ' ;'46.1' ; 7' -,5,<7' 1. / ;<7'>4'71,405.',4'>4'>.6,1>1.I' / '<>;'4' ; / / '<>'<7'J <;1'5'>;'?5';.1'641'5.6'5 .4@'4<;'J'1>.' 64E 5 6'<7.'?,41'?1 7.1' / ' < E,17.''7,47.' 1.&P 6 7,'' 5 '5.I',1>, / .'_Q4.'5.'?1 6.<7'11 7'6.1'' / ?1 <..5' ' / ;:'?'17,47',4'0.6, <'6.1'%

& ' "+$ 8'/ 5' $ ($/ 3'9 $ 37/ '$*/ 3. 2! (+0$ 3'/ 6 . */ 6+ 4$ *'/ ,+)+ / + 9$'/ A !A' (. 2'8 ' ($* $ (/ A& !! '

K ' '?VK %

@ ' ' ' '8 & ' ')'-

%%%%%' .6' 6?'J<,56' =4 .768 6,45.-.6';,<71.'<,46' ?'1' ';'5, / .6''71,;.6'>.'<,6'. / J1'<768 6.'1'664' 1. 7.7'1.?1.44.<7' '<,46'5.416' :'0 74>.6% #.1; ' 7,41.67' >4' '4@' / 66' 1.6' ?14>.<76' .7' ;,<; 5 '7;416' =4.'<,46'- ,<6'.<-,V.6?'1 / ' .4@8' <6' &Q4 '4@'5.416' =4'6,<7'-.<46' ;'6 <E,1 / .1'>;'5''-.1 7.% ,46'V'J'' J<,<6'=4.' 6?'J<,5'=4'<,46' ''71,4-.6' 71'4=4 55;6' .5'?546' :.41.4@' 6 .4' 1.7,41<.' ? ; <'>.' / .?1 6'?,41' <,6'71'<E4J.6';'5, / < '7;416% G ' ' '') ' 1.;,<<46'?'1'5''<'7 ,<'E1'< ' 6.8.@:'5.<7'4<.',>.41' 6'547' 1.'=4.';:';4<'-,4>14 7'1.?,17.1' >'<6'6,<' '1 *+,+' +'#+3(' -(' *$0(."(*' '(.+'36+*9$(' '-,<6'E' 7'<,71.' ;, / 7< / ,1'5 ,<' >4' U'Q4 55.7% 7'V '-' 417;,<;,416 / / .<6.?,41' .1? J<'<%' .6'J'1>.6' <'7 ,<'4@'>.'7,47'5.'>.?'17. / .<7'6 V'6,<7'1.<>46'?'1' >.?47'7 ,<8''5''1.6.1-.'>4'B '47 '55.6? 18'?'15 . / '' 5'>.8' <E##5 .>4'E'<'5 6 / .'1.5 J ;4@%

, .(' (0$5 (+' ##$3$$7' $' +' 4. * $$3$ +0+*,' +'# 4' (' -$e' '(. (*,' *'-$'3 .'4 ($*'-('! ' ' - *3! ,$ $$ ' (,, *" , ,('* ,.('+3,0,$'+' 4 +3(.' (' 0'11 1.6% .Q''5.6'>1, 766.?.1;, 1.<771' =4 55. / .<78' 7,478' '-'<7'?.<8'6.1''>'<6'5.'?546'J1'<>' ,1>1.% , 5'' 4<.'0.55.' / '< .1.'>.'6.'-.<J.1'>.6';1 / <.55.6'.6?.' 1'<;.6>.'<,68.<<. / 6% 5 6';, / ?7' .<7'641' :,11.41' '741.55.'>.6'?'V6'<6'?,41'5.6'J'1>.6'.7'5''?.1;.?7 ,<%' .6'5>;:.6',<7'> 1 J '7,47.6'5.416' / '<,.4-1.6'>.';;' ;,7.8' 56'V ,<7''??5.'5.416' '4@ 5 ' 1.6'8'5.6' ?1 51;68' '-.;'5.67,1;:.6'>7'E' '7 6 / ;%' < <7;<'<7' .<;,1.' 56' 1 ?'<>. 7'>.6' .;1 76' <;.<> < 1.6%' ;' ; >.-'<'.->' =4.' S 7J. <.1'5; / . 7 6,4?., / 4S'> 71.' ' 5'' 7 5.' >;' _a@WS W c? '7.66.6% #.6' .;1 76'; 1;<5.<7'%'-.;'5.' ;,<71. N

C

6. 5 J >. 66. / 05>.'1'7 ,<'5. .> 1.;7, .>4 >> ?'17. / .<78 =4 .67 <,<>>>.;.65 0.55.68 >>'-'<7 E5 .1.<-,V.1 '4 ;, / 7>>. ?.;:.1;:.6>.1 66. / 05.. <'7 ,<'5. <.4E J1,6 ?';Q<.76 >. ;.601>5,76>. E'46 6' 7e6 . 041.'4 >. '>/ < 671'7 ,< 6.'1. / ?7 7 >. 6' 6 .6 ?'1. 55.6 .61.5 J .<6.6 .<<.<7 7,47 :.41. >.'1.;.-, 1 4< < 41.'4 '<>. / .<7 >4 67V5.'>. ;.6 E,1;.<.6 ,4EE1 1' 7 , 5,<J7. / ?6 .<;,1. 5' 7 7. J4.11.'>. ;.6 ?1'7.6Z 5J.1 .7 '1,;'< ,<7Q' / ' 6 1. ;>5> >.6 :, / 1'.6 ?546 ?.1-.76 .6 5' 66.1' 7 ,< .@M ; 7.1 >.6 71,405.6 '1.; / ?4< 7>Z 56 ,;;4?.<7 .4@ 6.'56 5' / , 7 ; >. <,6 6,55 ; 54>.6 5, .@ 6Q.I =4. ;.E5.'4 > 6?'1' 66. .J,41.1 7. / .<7 .6?'J<,5.67 .<71.7.<4 >'<6 6.6 7.11.416 , 5 <. ,1>,<<'<;. . 1;45' 1. .<-,V>.'?'1 5. / < 671.N

\ .1, ?5. < > 4<. Q467. >>E '<;. >. ;. =4.'5.6 E1'< ' 6 E'<'7 =4.6 >.'5.41 5 0.17.'5 ;.<; .46. < < 71,>4 6.<7 .7 <.E'66.<5 ; 1;45'1 ;416 >>7.67'05>6 / '" .6 ?'1 5. / ,V.< >.6 ;:'4>1,<< .16 1> / ,45.416 .7 '471.6?.16,<<.6 .@.1 I '<7 4<.'?1,E.66 ,< ' / 07 5'<7?8 =4 6.'?,17.<7 .7 >.<7 >'<6 7,47. 6?'J<. .< =, / 01. 6 ;,<6 >>1'05. / .<7 ';;14 6'<6 =4.'5.6 ?1>;'4 7P,<]'?1 6.6 '<7>1 .41. / .<7 6, .<7 64E 6'<7.6 ?,41 5.6 ;,Q 7.< 1I -,45'<5 >- 7.1 4< ?'1. 5 / '58 5.'1, ,1>,<<. =4. 5.6 Q467 ;.6 >4 1,V'4 / . -. 55.<7 .7 E'66.<7 .7 1. J 671.18 6'<6 ;.?.<>'<7 46.1 >. - ,5. . 7,<6 5.6 >71'<J.16 .@.1 '<7 5.6 ?1,E.66 ,<6 64 > 7.68 ,4 7,47. '471.'?1,E.66 ,< ' / 045'47; .< 1.7.<'<7 .< ?1 6,< ;.4 =4 ,< 71,4-.1 / 4< 6 >.'?'? .16 >. .6?.;. < > =4>. 6, 7 / ?1 / >68 6, 5 / '<46;1 768 ,4 5,16=4 5 6.1 ?1,4-> =4 ,< 1>?' >4 ;.6 / '@ / .6 >. - -< , @ d

W '?1>6 ;.5' Q.'?1>- .<6 >. ,1>1.'>4 1, ?,41 &? .-,46 5.E'66 .0 .@>;47.1 >'<6 -,71.'71 04<'5 '-.;'7,47.'1.@';7 74>.'?,66 05. 7'<7 >'<6 1,71. - 55. =4.'>'<6 5.6 0,41J6.7 - 55'J.6 >.'1,71.'> 671 ;7I -,46 5.1.0 ?'1-.< 1'4@ Q467 ;.6 640'57.14.6 5.6 ,1>1.6 .,1 1.6?,77>'<768'-.;'5 ?546 J1'<>.'?1, / ?7 7,>.%.7E' 7.6 -,46 1.<>1. 4< ;, / ?5. .@';7 >.'7,47 ;. =4 ?.47 .< 1>6457.18 .7 -,71.'7,41 1.<>.0 / .<;, <?7. ,46 / '-.17 1.0 '466 >.'7,47 ;. =4 ?.47 '11 -.1 >.'?'17 ;45 .18 ?,41 =4.'Q.'5. / .77.'6,46 5.6 V.4@ >.'6 / ' Q.67>8 =4 ?1.4>1 >'<6 6'6'J.66.'5.6 / .641.6 5.6 ?546 ;,<-.4'05.6

Y .4 J'1>. -,71.'6. J4.41 .'<, / 01.'> '<<..6

$ '>)Q, < (* 8

\ .;, / 7.>. # H5 / %,

#.77.'? ..'<.'6 ';;,1>. 7 .55.'?'6 '-.;'5 5.771.'>4 1, > 6?'J<.Z

.;- ,- 5 / H>K %

: + ,6411.;7 ,< > ?'V6 >. #'4@. 5 :.4 1.46. / .<7 7.1 / <. 5.;'5 / . .67 1>7'05 I 5.6 / 4< ; ?'5 7>6 .7 5.6 J'1>.6 <'7 ,<'5.6 6,<7 1. <7. > >'<6 5. >.-, 1 .6 =4'71.;,4?'05.68 >>.1 7 ?'1 5.'71 04<'5 >.'> 671 ;7 >. .??. ,<7 & 7> '11 7.6 .7 ;,<>4 76 . ?1 6,<8 .7 5.6 71,4?.6 .<-,V_I.6 ;.77.'.@?.> 7 ,< 6,<7 1.<71>.6 '4@'??5'4> 66. / .<76 >.6 ; 7,V.<6 .6 ;,1?6 '>< < 671'7 E6 '-' .<7 / H '4 >.-'<7> .55.68 .76.'6,<7 . / ?1.66.6 >.'7 / , J<.1 '4@ ;0.E6 .7 '4@ 6,5>'76 .@ ?1.66 ,< >.'5 1.;,<<' 66'<;.'?405 =4.

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8 K $ 8

! ,O " A C) A ,,

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,46 1'??,17.1,<6 >. <' < '17 ;5. " %

" 55 5.6 / '10:'4> 6.6 1.?1>6.<7..6 .@;77>. 7

5.'?, >68 5.'<&P7<01. ,< / .6 < .>. ;5'1. 68S .@.>>'<7 6.1 '664Q.77 '4 ?' .< .<7>4 >1, 78 ;. / ;.?.<>'<7 < '41 ?'6 5 .48 6 .@;.>'<7 4 .67 =4.'>4 - <J7 . / . ?,41 5.6 / >7'4@8 .7 >4 > @ . / .'?,41 5.6 '471.6 / '1 ;:'<> 6.6 ,4 >.<1>.6I .@.>>'<78 >'<6 ;. ;'68 '<6 =4.'5.6 =4'<7 7>6 >>;5'1..6 ';=4 77.1,<7 .<6. / 05. =4.'5.'6 / ?5.'>1, 7

" " >>; '1'7 ,< >4 ?, >6 .7 >.'5 / .641.'<. 6.1 ?, <7 .@J.. ?,41 5.6 / '1;:'<> 6.6 64Q.77.6 '< #,<5'J.I 5.6;'? 7' <.6 ,4 / ' 71.6>.'0>7 / .<76 .7 5.6 -, 741 .16 >.-1,<7 6.45. / .<7 >4,<;.1 >'<6 5.41 >> #5'1'7 ,4 5.'<, / 01.'>.'E47' 55.68 5.416 / '1=4.6 .7 <4 / >1,68 5.6 1.?1>6.<7.1 .< / / . =4'<7 7.'=4. ;.55. ?,17>.'4@ >.;5'1'7 ,<68 5.771.6 >. -, 741.68 ;,<<' 6 6. / .<768 .7 '471.6 .@?.> 7 ,<6 1.5'7 -.6 '4 ;:'1J. / .<7I .75 ?.1;.?7 ,< >.6 >1, 76 <.'6.1 E' 7.'=4.'641 5.'?, >6 .7 641 5 , ,<7.<'<;..EE.;7 E6

" " ,47 .@.>>'<78 =4'<7 '4 <, / 01.'>.'0'55.6I 0'55,768;' 66.6 8 7,<<.'4@ .7 E47' 55.6>>;5'1>68 6.1 IY 6 8 ?,41 5 ;,<5 6;'7 ,< .< > 1. ?1,<,<.>. - .; ' / .<>.'>. 5 -

" " 5 >.;5'1'7 ,<6.'71,4-.'E'466.'>'<6 5 =4' 5 7> ,4 #6?.;.>.6 / '1;:'<> 6.6-.'7 6 7.'>1, 7 <4'4.5 ?< 6.'6, 671' 1' 7 ?'1 ;.77.'E'466.'>>; '1'7 ,< 6 >5>-. >,40; 5 -1.6 .7 '< >.66468 5.6 / '1;:'<> 6.6 E'466. G / .<7 >.;5'1>.6 6.1,<7;,<E 6=4>.6 8 .7 ;.54 =4 '41 E. 75 E'466.'>>; '1'7 ,< 6.1 ;,<>' / <> 4<.' / .<>. >.;.<75 - I6 5.'>1, 7 .67 '4 >.]6,46>.>,40.'5 -1.68 5 < V '41 ?'6 5 .4 5 ;,<E 6;'7 ,<8 / ' 6 6.45. / .<7 5 ;,<>' / <'7 ,< 5'> 7. ' / .<>.'>.;,.<7 5 - ?,41 6>1.7> >.'5'=4.55.'5 / '1;:'<> 6.'6.1 1.7.<4. .6 > 7.6 ?. <.6 < '41,<7 ?'6 5 .4 .<;'6 >. - 5 ,<>.'6406M 7 747 ,<'Q41 > =4. / .<7<1,4->6 8

" " '<6 5.;'6 ,48 5,16 >.'5 - 6 7. 5.6 0'55.68 0'55,768;' 66.6 .7 E47' 55.6 6.'71,4-.1' .<7 .< / , <>1. <, / 01.'=4.;.54 '?,17> .4 5 >.;5'1'7 ,<8 5.6 / '571.6 >.6 0>7 / .<768 -, 741 .168 .7 ;.4@&54 '41,<7 E' 7 5.6 >>; '1'7 ,<68 6.1,<7;,<>' / <>66,5 > ' 1. / .<7 .< 71, 6 ;.<76 5 - > ' / .<>.'?,41;:'=4.'0'55,78 0'55. ;' 66. ,4 E47' 55. / '<=4'<78 ?,416>1.7>>.5'=4.55.' / .<>. 5.6 0 7 / .<76 >. / .18 0'7.'4@ - , 741.6 .7 ;:.-'4@ 6.1-'<7 '4 71'<6?,178 6.1,<7 1.7. 468 6'4E 5.'1.;,4168 6 5 V 5 .48 >.6 ;'? 7' <.6 .7 / '571.6 >.0>7 / .<768 ,< -, 741 .168 ;,<71.;.4@=4 '41,<7 E' 7 5.6 >>; '1'M 7 ,<6 '<6 5.;'6 >. <'<E1'J. '?1>6 >>; '1'7 ,< >,<<.. ,4 >.-,5 >. / '1;:'<> 6.68 5 <.6.1 E' 7'4 ;4<.6 ?,4164 5.6 641 5. >>E' 7 >.'1.?1>6.<7'7 ,< >. 0'55.68 0'55,768 >' 66.68 7,<<.'4@ .7 E47' 55.68 .< 1'? ?,17'<78 >J'1> >4 <'4E1'J. 5.'?1,;>6 -.10'5 .6 Q4J.6 >4 71 04<'5 >.;, / / .1;.I .78 =4'<7 '< -,58 5 ?1.4-.'E' 7.'>4-,5 %

" " 5 .6 / '1;:'<> 6.6 >,47 5.6 >1, 76 6.<7 ?.1 ;.?7 05.6 641 5 -'5.41 ?,41-,<5 >71. 1.7.<4.68 .< ?'V'<7 ?'1 5.6 ?1>?,6>6 >.'5 1>J .8 ,0Q.7 >. 5 -'M 5.41 >>;5'1>. .7 5.'> @ > / . .< 6468 6'<6 =4 5 ?4 66. >71. 1 .< .@ J.'>.'?546 ?'1 5.6 ?1,?1 >7' 1.6 >.6> 7.6 / '1;:'<> 6.68 ,4 ?1>?,6>6 5 ;,<>4 7. ?,41E1' 6 >. 71'<6?,17 .7 '471.6 5 1.7.<4.'<. 6.1 6,4 / 6. ;4<. '471.'E,1 / '5 7> =4 ;.55.'>4 ?1,;.6 -.10'5 6 J4 E >8 =4 ;,<67'7.1 ,EE1. 1>.55. ,45.'? . / .<7>. 5 -'5.41 >.;5'1..8 .7 >4 > @ > / . .< 646I '4&c 7 ;'6 >. 1.7.<4 .8 5.6 ?1,?1 >7' 1.6 >.6 / '1;:'<> 6.68 ,< ?1,M ?,6. 5 ;,<>4 7.8 <. 6.1,<7 6,4 / '4 ?' .7<.<5 > '4.4<6 >1, 76 Y %

" " 5 .67 1.;,4<4 =4. / '1;:'<> 6.6 ' .<7 6,4EE.17 >.6 '-'1 .68 5.6 ?1,?1 >7' 1.6 >, ;.6 / '1;:'<M > 6.68 5.6 / '571.6 >. 0>7 / .<76 ,4 -, 741 .16 6.1,<7 '> / 6'>,<<.14<.>.;5'1'7 ,< >.'5.41-'5.41'; 7.55.I > '?1#6 5'=4.55.'5.6 ?1>?,6>6 >.'5 1>J .'?,411,<78 ,< 1.7.< 1 #.6 / '1;:'<' 6.68 ;, / / . 5 .67; >.66461.J5>8 , ?.1;.-, 1 5.6 >1, 76 641 ;.77.'>>; '1'7 ,<8 ?,41 ;.55.6 =4 ';=4 77.1,<7 5 -'5.41I .78 # >J'1>'>. '471.68 5.6 >1, 76 6.1,<7 1.> 76 >'<6 5 ?1,?,17 ,< >. 5 ?.17.'=4 '<1,<7 >?E,4-.. 5.6 < '1;:'<> 6. 8 ;7 ?'1

; , / ?'1' 6,<' '- . ,' E. '1' ?1 @' ,1> <' 1.8' 5,16= ' .55.6'
?.' ?'6' '-'1 ; .6%' <' ; ']' >.'> EE ,457>' 641' 5.' ?1 @'
,1> <' 1.'>.'5'' / '1; : '<> 6.' <,<' '-'1 ..8' 5' 6.1''& @>'
?'1' .@?.176' ; ,<-.<46' .'71.' .6' ?'17 .6' ,4' <,7< / E.'
> ,E7 ; .%
" " S%' .6' ' ;=4 76'>.'?' . / .<76' =4 '6.1,<7' >.5 -1 6'
?,41' / '1; : '<> 6.6' =4 ' .<71.1,<7' ,<' 6,17 1,<7' ?'1'
7.11.' <> =4.1,<7' 5.6' 041.'4@' >.' ; ,<71#5.' ?'1' 5.6 '
=4.56' 5.6> 7.6< '1;5 '<> 6.6>.-1,<7'?'66.18' .75.6; ,< '
>4;7.416' 6.1,<7' 7.<<6' >.' 1. / .771.' '4@> 76' 041.'4@'
5.6' ' ;=4 76 >,<7' 56' 6.1,<7' ?,17.4168' .<' . ; : '<J.'>.6 '
=4.56' 5' 5.41' 6.1'' .@?>> >8' 6' '<6' E1' 68' >.6' 01.-.76' >.'
. ,<71#5.%' .6' ?,17.416' >.6> 76' 01.-.76' '41,<7'?.<>'<7'
4 .' '<<>.'5''E' ;457>' >.'6;'E' 1.'1.?1>6.<7.1'5.6' ' ;=4 76'
'1 J <'4@%' #.'>>5' ' .@? 1>8' 5.6' ?1,?,6.6' 6.1,<7' >6\'
?.<6>6' >.'5'> 7.'1.?1.6.<7'7 ,<%
" " %' .6' / '1; : '<> 6.6' 64Q.77.6' '4@' >1, 768' .7=4 '
>.-1,<7' 6,17 1' ?'1' / .1' ,4' ?'1' 7.11.8' 6.1,<78' '' >J'1>'
>.6' ?1. / .1.68' 71'<6?,17..6' < / >> '7. / .<7' '?1.6' 5.'
?' . / .<7' >.' ; .6' >1, 76' 641' 5.6' 0>7 / .<76>.67 <>6' ''5.6'
1. ; .- , 1I' .7' 5.6 '471.68' ; ,<>4 7.6' '466 ' / <'.> '7. / .<7'
'' >71'<J.18' 6'<6' =4 .55.6' ?4 66.<78' : ,16' 5.6' ; '6'> ' '
-'1 .8' >.<'4E1'J.' .7' '471.66. / 05'05.681.<71.1>'<6'
5.6' / 'J'6 <6' >.6' / '1; : '<>68' < ' >71.' .<71.?,6>.6' >'<6'
> '471.6' / ' 6,<68' ''?. <.'>.' ; ,<E 6;'7 ,<' .7> ' / .4>.'
>.' ! !'5 -%'
' " " 58' . ?1>?,6>6' >.'5''1>J .'<.'?,411,<7' - 6 7.1'
5 / '1,0'<> 6.6=4 '41,<7'.7.'>>Q '- 6'7. .6' '<' ?1. / .1'
041.'4'> .<71>.' ,4' >.'6,17 .8' 6' ; .'< .67' '<' 041.'4'>.'
, '<71 %5. <> =4>' ?'1' ' ;=4 7' >.'?' . / .<7
" " ' .67' >.E.<>4' '4@' ; ,417 .16' >.6' / '55.6' >.'
6.' ; : '1J.1'> '4;4<.6' / '1; : '<> 6.68' '' ?. <.'>.' ; ,<E 6M
; '7 ,<' .7' >.' '5 -1.6' > ' / .<>.I' .7' ?,41' - .1 E .1'5.6'
; ,<71'-.<7 ,<6' 8' 5.416' 01,4.77.6' 8' / '55.6' .7' -'5 6.6'
?,411,<7' 71.' - 6 7 .6' '4@' 041.'4@' >.6' ?1. / .1.'.76. '
; ,4>.'5 J<.6%
I' " " "8' .6' / .66'J.16' .7' ; ,<>4;7.416' >.6' - , 741.6'
?405 =4.6' 6.1,<7' 6,4 / 68' ?,41' 5.6' ,0Q.76' >,<7' 5.416'
- , 741.6' 6.'71,?-.1,<7' ; : '1J>.68' '4@' E,1 / '5 7>6' ,1 '
>,<< .6' ?'1' 5.?1>6.<7' 7 71.%' <' ; '6'>.' ; ,<71'-.<7 ,<'
04' >.'E1'4>.8' 5'' ; ,<E 6;'7 ,<' >.6' / '1; : '<> 6.6' 6.1''
?1,<,<;>.' ; .<71.' .4@8' ? <6' =4.' ' / .<>.8' >,<7' 5.6'
?1,?1 >7' 1.68' E.1 / .16' ,4' 1>J 66.416' >.6> 7.6' - , 741.68'
6.1,<7' 1.6?,<6'05.6N' <.'< / , <6' = . ,<>' / <'7 ,4' .<'
' / .<>.'< '<1'' ??6 .48' 5,16=4.' 5.6' ,0Q.76' 6.1,<7'
?,17>6' 641' 5'' E.4 55.' =4 ' >, 7' >71.' 1.?1>6.<7>.' ?,41'
6.1- 1' '' 5'' >>;5'1'7 ,<8' '<6' '4;4<' ; '68' 5.6' - , 741.6'
.7' ; : .-'4@' '??'17.<6<76' '4@' E.1 / .16' ,4' 1>J 66.416'
>.6' / .66'J.1 .6' <.'?,411,<7' >71.'6' 6 6%
% " " "G' ,16=4.' .@>;47 ,<' >.6' E,1 / '5 7>6' ?1.6;1 7.6'
?'1' 5.6' '17 ;5.6' 8' 8' B 8' 8' 8' ' .7' ' >P5' ?1>6.<7'
7 71.' <.' ; ,<; .1<.' =4.'>.6' / '1; : '<> 6.6' .7' >.<1>.6'
.@. / ?7.6' >.'>1, 78' ,<'>,<7' 5.]' >1, 76' <.'6 >5.-.1' .<7'
?'6' '' '5 -88' 5.6' ; ,<51.V.<'<76' 6.1,<7' 6.45. / .<5' ; ,< '
>' / 4>6'2' ' / .<>.'>.' '5 -%8' ?,<1' 6E 1.7>' >.'5'=4.55.8'
?'17 .'>.6' / '1; : '<> 6.6' ?,411'' >71.' 1.7.<4.' Q46=< '
; .' =4.'5'> 7.' ' / .<>.' ' 7' >7>' , ,<6 J<>.' " ' =4 5' ' 7' >7>'
E,41< ' ;'47 ,<'6,5-'05.'>.'5'' ?'V.18
%' K'0'47' ''?1>6.<7>' 5'' 64 7.' >.6' '17 ;5.6' 641' ,1 '
J'< 6'7Q,<'>.6' J'1'>.6' <'7 ,<'5.6%' ,46' 5.61'??,17. '
1,<g>'<6' 44' ?1, ; : ' <'<4 / >1,%' %
'' 6>'<; .' .67' ;V>.' ' ' : .41.68

, ''' " * $ ' ' " ' , '

<' E' 7' 5. ;741.'>'> EE>1.<7.6' '>1.66.6%8
% 8' > 6?'J4' ;' .67' <71,> 7' '' 5'' 0'11.%
' 8' +('N' ><,<.>'>.-'<7' - ,46' .7' >'<6' ,? '
< 4<' ?405 =4.'>.'5'' / '< .1.' 5'' ?546 ;14.55.I' ' ; ;46>'
> >71.' ; , / ?5 ; .'>.' 5'' > 5'? >'7 ,<' .<,1 / .' > 4<' >, '
/ ' <.'<'7 ,<'5I' '' 5'' - . 55.' >.'64??,17.1' 4<.'1><< ,<'
=4 '<.'?.<7' 1, .' ; , <; . / .16,46' '4;4<'1'??,17'8 <- , '
=7 .1' '5.6.<7 / .<7' <7>1 .41'> 4<.'> <.'6'<6' 1.?1, ; : .8'
$?<- ,=4.1' '5.6' 5, 6' ; ,<67S'747 ,<<.55.6I.7' ?5. 4 .' ; ,< '
5 4 ; .'>'<6' - ,71. 467' ; .8'Q.' / '0 / </ < ' 'Y <

'.6?>1'<; .' =4.' / '' E,174<.' .7' / ,<' : ,<<.41' ?.?,6.<7'
6,46' 5'' 6'4-.J'1>.'>.' - ,71.' / ?'17 '5 7>%
'<6' / ,<' '>1.66.'>4' ' / '16' (* 8'Q ' '>>?,6>' ' / '
? .>6' >.'5'' <'7 ,<' / ,<' ; ,<71'7' > > ; .'<J.I'Q.'54' ' '1.'
/ 6' <'' ; ,<; .66 ,<' >'<6' 5'' E,1>7' >.' K466V8'Q.' / .' ''
6,4 / 6' '' >.' <,4-.55.6' >-'54'7 ,<6' ?,41' 5.' ; , / 7>' >.'
'<; .11.8'Q ' ,EE.17' / > / .>.' ?1.<>1.'5.6' 0 .<6' 141'<@'
>.' ; .77.'7.11' 8' 641' 5.'? .>'>.' ; -'54'7 ,<'>.'5'' ; .' / 01.'
>.6' ; , / ?7.68' .7' ' '64??5 >' 66. / 05..'<'7 ,<'57' >.'
?1.<>1.'.<' ; ,<6 >>1'7 ,<8' D=4.'Q.'< ' ' ' ; : .7>'5.' ; , / 5>'
>.' '<; .11.' .<'7 ((' =4.' >'<6' 5'' -4.' >.' E @.1' 5'' E,1M
74<.' ' / ,<' 0.'4 ?>1.' .<' H1'<; .8' .7' >.' 1. / ?5 1' 5''
; ,<-.<7 ,<' - 6 U - 6' >4' >4.' >.' K>7:4<.8' '' = 4' 7'7
>.V' 7' 9 ' / 55.'5 -%' >.'1.-.<48' ?,41' 5.' ?1 @' >.'5'' ?1<\'
; ?'47.'> B.<1 ; : . / ,<7I' =4.'Q ' '?1,4-.'?'1' > -.16'
' ;7.6' .7' >, ;4 / .<76' =4.' %' '0,41.'4' ' -' 5' >,<<>5.6'
/ ' <6' '' ; .7' '11'<J. / .<78' .7' '4' >>6 1' =4.'Q '-' 6' >.'
1>4< 18' ?'1' - , .' >'> ; : '<J.8' 5'' E,1>7' >.' K466V' '' / ''
7.11.' >.#,1 / .1>I' ; .77.' 'EE' 1.' < '' / '<=4>' =4.'?'1; .'
=4.' %' .; .18' '?1.6' ' - , 1' >>; '1>' >'<6' 5.' 0,<' >4'
1, 8' >4' ' ' ,>7' (((8' =4.'5.' ; , / 7>' >.' '<; .11.' -'5' 5'
0.'4; ,4?' ?546' =4.' 5'' E,1>7' >.' K466V8' ' - ' 5' E <'?'1' / .'
1.E46.1' 5.' 0><.<; .'>.'5'' 6, 457.' ,4' ?546 -'54.8' 7'<> E'
=4 5' 5'' - .<>' 7' '' %' >.' K>7:4<.8
' .'1, ' '-' 5'?1.7.' 8 '5 -%' ?,41' 6. ; ,41 1' 5'' E,1M
74<.'>.' / ,<' 0.'4 ?.1.' =4 ' '-' 5' 1.<>4' >.6' 6.1- ; .6' +
7'78' 7'<7' >'<6 / ?,66 0 5 5>' >.' 1. / .771.8' '' >'
; : >'<; .'>4' ?1. / .1'Q'<- .1' (*G8' ; .77.'6, / / .' '<'71.'
6,1' ?405 ;8'Q ,EE1 6'4'1, 8' .<'>>. . / 01.' () 8' '<; .11.'
.=' ?' . / .<78' .7' 6'' / ' .67>8' ?'1' 6,<' 0,<' >4' C ' / '<'
()G8' %; ,<6.<7 7' '' ?1.<>1.' ; .77.'7.11.' 87 71.'> ' ;=4 6 '
7 ,<%' '' ?><41 .' >.6' E <'<; .6' / .'E 7' ?1>5>1.1' 5'' - , .'
>.' >; : '<J.' .<' / .' ; ,<7.<7'<7' >.'E'' =4 77'<; .'>.6
9 8 ' 5 -%=4.Q.>.-' 6' > 4<.'?'1. 55.6, / < .'?'V'05.'
.<') 8) 9' .7') (8' ; .' =4 ' <>7' 7' ?'6' >.' '1J.<7' ; , / ?7'<78'
.7' .<' 1. ; .-'<7' >.' ?546' >.6' >, / ' <.68' ' - .;'5''E' ;457''
>.'5.6' - .<>1.8'Q46=4 '' 5'' ; ,<; 411.<; .' >4 641?546' >.'
5'' - '5.41' >.' '<; .11.%' .'< ' ' - .<>4' '' W' >.'#'5,<<.8'
>.'< / .' =4 '' / .6' ; ,> ; : '<J 67.68' =4.' 641' 5.'? .>'>.'
1>; : '<J.%' <6' 5' < V' '-' 5' >'<6' > ; : '<J.'>.' '<; .11.8'
?,41' / , 8' '4;4<.' .6?. ; .'> <7>1>7' ?.16,<<.5%' 466 7>7'
=4.'Q ' ' -4' =4.'5.' - ,.4' ?405 ;' - ,45' 5' =4.'Q.'1. / 66.'
5'' E,1>7' >.' K466V8' Q.' / .'64 6' . / ?1.66>' >.'5'' 1. / .771.'
'4' >>?'17. / .<7' >4' # : .1' '4' ?1 @' >.' .67 / '7 ,<' >.'
5'' ; : ' / 01.'>.6' ; , / ?7.6%' ' ' ; / ' =4.8' >'<6' 5'' ?,6 7 ,<'
, : '<,46' >7 ,<68' Q.'>.-' 6' >, <.1' 5.'?1. / .1' .@. / ?5.'
>.'<.'?, <7' ; ,<6, / / .1' 5.6' ' ;=4 6 7 ,<6' =4 '?,4-' .<7'
?'1'571'' ,<.1.46.6' '' 5'' <'7 ,<%' <6' Q.'?1,4-.' .<; ,1.8'
?'1' ,EE1.' / .'Q ' 'E' 7.8' ?,41' 1. , , / / .<; .1' 5.6' >-' '
54'7 ,B '>.' '<; .11.' .<' ?1.6.<; .' >4' >>?'17. / .<7' >4'
: .18' =4.' / ,<' 047' ''7,4Q,416' >7>' >.'< ' - , 18' >.6' / ' <6'
>.'5'' <'7 ,<' %=4.'5'' - '5.41' >.' / ' '7.11.%
'<; .11.' - '5' 7' .<' 9 9' .<- 1,<' U' / 55 ,<68' .5' 5.6'
; , / / 66' 1.6' >4' 1, ' H,<7' >-'54>' 89*C8 U9' 5 -%' .6'
>>71' ;7.416' ; , / ?'1.<7' ; .77.' - '5.41' ' - . ;' 5.' ?1 @' ?1 M
/ ,1> '5' >.'5'' - .<7.I' 56' .<'7 1.<5' 5'' ; ,<6 4.<; .' =4.'
; .77.' - '5.41' .67 .@'J.1>.I' 56' ,405 .<7' =4.'Q.'?4 6' ?1, '
- .1' =4 ' - .; ' 5.6' E1' 6' >.'5,>6' .7' - . ,7.68> ' <>5 ,1'7 ,<8'
>.'1.4< ,<' >.' ?546 .416' >, / ' <.68' ; .77.'7.11'' / .65'
1.-.<4.' '' ?546' >4' >,405.' >.'6,<' ' ;=4 6 7 ,<I' 56' ,4M
05 .<7' =4.'5'' V'5.<1'>.' / / .405.'>.?.<>'>.6' 7'5.<76'
.7' >.6' 5'0.41I' >.6' ?,66.66.4168' =4.'5.' ; >.-'<7' ; , / 7>' '
>.' '<; .11.8' > ' : 65'' / ' < >.6' '<;5.<6' ?,66.66.4168'
>7' 7' 7 , / 0>' >'<6' 5.' >>?>1 66. / .<78' 654.'Q.' ' 8' ?,41'
' <6 '> 1.8' 1>J><>1>8' .7' 56' - , >1' .<7' <.' / .'7.< -''4;4<'
; , / ?7.'>.' ; .' =4 5' V' ''>.'?546' 6' .1>' >4<6' 5.6' >1, 76' >.'
?1,?1 >7>8' >.6' E14 76' >.'5'' ; , / 0 ' 6,<' >.6 <-'<; .6' .7'
>.'1 <>4671 .%' $' %
' .'1, ' '' >,<.' ; , / / .<.>' ?'1' ' ;=4 1 1' 5.' ; , / 7>' >.'
'<; .11.8' ' '1>6.1-'<7' 5'' E' ;457>' >.' / .65,<<.1' ?546'
>.'>, / ' <.6' =4.' > '1J.<78' ?4' ?546 > <1J.<7' =4.'>.'
>, / ' <.68' . .67 ' > 1.' > ' ;=4.<1' '<; .11.' ''5 71.'> >'
; : '<J.8' ,4' >.' ' ;=4>1 1: 5 71.> ' ; : '78' .77. Q,416>; '
5.' <<- .1' '' 6,<' ; : , -N' &5.7' .<.<7R.7<.<7' .67\ 5' - '5'05.'Z

_.ʹ1, ʹ '1' 7 5ʹ5.ʹ >1, 7ʹ> '5 .1ʹ5.6ʹ >, / ' <.6ʹ >.ʹ5'ʹ
;,'1,<<.Zʹ .6ʹ5.ʹ5, 6ʹ <ʹ>>E.<>' .<7ʹ6'<6ʹ>,47.8ʹ / ' 6ʹ
.55.6ʹ<.ʹ54 ʹ>9E.<>' .<7ʹ?'6ʹ> '.:.7.1ʹ>.6ʹ7.11.6N -,71.ʹ
<,4-.55.ʹ;,<67 7'7 ,<ʹ<.ʹ5.ʹ <ʹ>.E.<>ʹ?'6ʹ<,<ʹ?546% .ʹ
1.;5' / .ʹ>,?.ʹ 1.@>;47 ,<ʹ 5 77>1'7.ʹ >.ʹ 1.<J'J. / .<7ʹ
;,<71';76ʹ?'1ʹ5.ʹ1, %
% ,ʹ %ʹ ! ʹ4! ʹ ! &ʹ !** ʹ& ʹG ʹ $%ʹ *% ʹ
& ʹE ʹ, %,ʹ ! (& ʹ &ʹ3 2% , ! ʹ&ʹ
ʹ ʹ ,ʹ&! ʹ*ʹ, $ʹ ʹ* %ʹ $%ʹ % ! ʹ&ʹ
! ʹ$ʹ $$! ʹ+; ʹE ʹ ʹ&! ,ʹ ! ʹ (ʹ ! ʹ
4%$ % ! ʹ*% ʹ0 ʹ$,ʹ ! ,,% ,ʹ& ʹ$%ʹ B%G ʹ
& Aʹ ! (,ʹ(% %Cʹ -%A& & ʹE ʹ ! , ʹ ʹ ! .ʹ
4 $$ ʹ 4%$ % ! ʹ ! %& ! ʹ ʹ$ ʹ& (%
& B !
ʹ ʹ C, (G ʹʹ ! C ʹ ,C B ʹ % ! %$ ʹ
& , ʹ % ! ʹ%ʹ - ʹ ʹ& ,ʹ% ,ʹ& ʹB *% ,% ! ʹ
ʹ,ʹ$%ʹE , ʹ - A ʹ $ *! ,ʹ& ,ʹ% ,ʹ&ʹ, 4 ʹ
$$ ʹ ʹ .7ʹ (ʹ& ʹ , ʹ$,ʹ($,ʹ(,,% ,ʹ
! *,
(&,ʹ ʹ%, , Nʹ$! AB ʹ& , ,, ! ʹ$ ʹ(!E ʹ& ʹ&&.ʹ
ʹ& ʹ ! ʹ%ʹ& &ʹ%&!(ʹ ʹ ,ʹ = ,ʹ
3 ,, B$& ʹ % ! %$ ʹ ! , && % ʹ ʹ ʹE ,Jʹ
* ʹ ʹ$ ʹA! 4 ʹ% ʹ - &ʹ ʹ/111ʹ$, ʹ
&2, (%A % %*% ʹ 2% , ! ʹ& ʹ$%ʹ ʹ& % ʹ
! % ʹ ! *ʹ & $ʹ & ʹE , ʹ ʹ& ʹ ! 4 % ʹ
2%ʹ& ʹ& B% A ʹ& ʹ ʹ ʹ/10:ʹ
34.ʹ5.ʹ;,<6.<7. / .<7ʹ>,<<>ʹ?'1ʹ5.ʹ1, ʹʹ;.7>.:'<J.ʹ
ʹʹ>7.ʹ641?1 6ʹ?'1ʹ4<ʹ.@?,6>ʹ <E> .ʹ>4ʹ6 .41ʹ>.ʹ#'5,<ʹ
<.8ʹ'5,16ʹ6,<ʹ / < 671.8ʹ>.-.<4ʹ?'17 .ʹ <7>1.66>.ʹ>'<6ʹ
;.ʹ / > / .ʹ>;:'<J.ʹI
ʹ 34.ʹ>'<6ʹ5.ʹ ;:, @ʹ >.6ʹ>, / ' <.6ʹ >.0'<J>6ʹ ,<ʹ ʹʹ
;, / ?1 6ʹ >.6ʹ E,1>76ʹ ;,<6 >.1'05.68ʹ;.<71.ʹ55<7.<7 ,<ʹ
=4.ʹ5.ʹ1, ʹ'-' 5ʹ.@?1.66> / .<7ʹ / '< E.67>.I
34.ʹ5ʹʹ / '66.ʹ>.6ʹ>, / ' <.6ʹ>,<<>6ʹ.<ʹ>;:'<J.ʹ ʹʹ>7>ʹ
?1,J1.66 -. / .<7ʹ '4J / .<7>.8ʹ '<ʹ ?1.Q4> ;.ʹ>.ʹ 7'78ʹ
?'1ʹ>.6ʹ> 671';7 ,<6ʹ.7ʹ>.6ʹ1. / ? ';. / .<76ʹ., / 74<>6I
7ʹ=4 .<E <ʹ1 <7.1>7ʹ<'7 ,<'58ʹ 05.66.ʹ?'1ʹ5ʹʹ> 6?1,M
?,17 ,<ʹ> ,1 / .ʹ =4 ʹ.@ 67.ʹ.<71.ʹ5.ʹ>, / ' <.ʹ >.ʹ '<ʹ
;.11.ʹ .7ʹ;.4@ʹ=4 ʹ,<7ʹ>7>ʹ.>>>6ʹ.<ʹ>,0'<J.8ʹ<.ʹ?.1 / .7ʹ
?'6ʹ>.ʹ;,<6, / / .1ʹ4<ʹ?'1. ʹ; ,<71'7I
>;1.7.ʹ;ʹ=4 ʹ64 7
17% W18ʹ 66. / 05>.ʹ<'7 ,<'5.ʹ1>-,=4.ʹ5.ʹ<,<E'7
>%.;:'<J.8ʹ?'66>ʹ5.ʹ ʹ / '16ʹ () ʹ .<71.ʹ5.6ʹ;, / / 6ʹ
6' 1.6ʹ >4ʹ1, ʹ > 4<.ʹ?'178ʹ .7ʹ5.ʹ6 .41ʹ .'< H1>>.1 ;ʹ
! 4 55'4 / .ʹ ': J4.7ʹ> 6?'J<';ʹ>.ʹ '471.8ʹ.7ʹ7,47ʹ;.ʹ
=4 ʹ ʹʹ?1>;>>>ʹ .7ʹ64 - I >.;1>5.ʹ .<ʹ .,<6>=4.<;.ʹ=4.ʹ
7,46ʹ5.6ʹ>, / ' <.6;, / ?1 6'4> 7;,<71'7ʹ.7'4@ʹ5.771.6ʹ
?'7.<7.6ʹ>.6ʹ / , 6ʹ >.ʹ / '16ʹ.7ʹ> ', 7ʹ ()9ʹ 6,<71>4< 6ʹ
'4ʹ>, / ' <.ʹ<'7 ,<'58ʹ ?,41ʹ >71.ʹ '> / < 671>6ʹ ?'1ʹ5.6ʹ
?1>?,6>6ʹ ʹʹ5ʹʹ1.J .ʹ>.6ʹ>, / ' <.6ʹ:'7 ,<'4@8ʹU;, / ?7.1ʹ
>.ʹ5ʹʹ ?405 ;'7 ,<ʹ >4ʹ ?1>6.<7ʹ >>.1#7I >>5' 66.ʹ'4> 7ʹ
6 .41ʹ> 6?'J<';ʹ5.ʹ; >.-'<7ʹ;, / 7>ʹ>.ʹ '<;.11.8ʹ?,41ʹ
6 .<ʹ1. / .771.ʹ.<ʹ?,66.66 ,<ʹ';74.55.8.7.<Q,4 1;, / / .ʹ
6ʹ5.> 7ʹ>;:'<J.ʹ< '-' 7ʹ?'6ʹ.4ʹ5 .4%
" ʹ3 2%A ʹ& ʹ &,! ʹ(B$ ʹ,ʹ (! 4! %ʹ (% ʹ$,ʹ
4! ,ʹ& ʹ& ! ʹ ʹ(% ʹ& ʹ$%ʹ,! ʹ& ʹ ;99 ʹ
$ 4 ʹ &! ʹ $ʹ %ʹ & ʹ&! ʹ % ʹ% & ʹ, ʹ&C,#ʹ
(%A % ʹ(% ʹ$ ʹ ! %ʹ&2&)% A
% ʹ6.ʹ?,41-, 1ʹʹ.J'5. / .<78ʹ.<ʹ1>?.7 7 ,<ʹ>.ʹ?' ʹ
1E. 55.ʹ6, / / .ʹ>.ʹ 8 ʹ5 -88ʹ?'V>.ʹ .<ʹ-.174ʹ>.ʹ ,1ʹ
>,<<'<;.ʹ >.ʹ ;,1,?7'<78ʹ >4ʹ *ʹ Q'<- .18ʹ ?,41ʹ6,457.ʹ
?1,- 6, 1.ʹ >4> 7ʹ>;:'<J.W .7ʹ;.ʹ6,5 >' 1. / .<78ʹ7'<7ʹ
;.<71.ʹ5.> 76 .41ʹ> 6?'J<';ʹ=4.ʹ;,<51.5.6 .41>.ʹ#'ʹ
5,<<.8ʹ=4 ʹ ʹʹE' 7ʹ>.5 -1.1ʹ;.77.ʹ6, / / .ʹ;,<71.ʹ5ʹʹ>.; M
6 ,<ʹ >4ʹ1, ʹ >4ʹ C9ʹ 6.?7. / 01.ʹ ()U8ʹ 6'<6ʹ.<ʹ'6641.1ʹ
. / ?5, ʹ.<ʹ? . / .<7ʹ >.6ʹ >.77.6ʹ :V?,7:>=4>.6ʹ641ʹ5.ʹ
; >.-'<7ʹ;, / 7>ʹ>.ʹ '<;.11.8ʹ %
% 'J.<7ʹ>ʹʹ71>6,1ʹ?405 ;ʹ?,4164 -1ʹʹ.<ʹ,471.ʹ5.ʹ
1. / 0,416. / .<7ʹ>.ʹ5'ʹ6, / / .ʹ >.ʹ 9 8(ʹ5 -% Uʹ6,46ʹ
?'V>.ʹ .<ʹ-.15<ʹ>.6,1>,<<'<;.6ʹ>.ʹ;, / ?7'<78ʹ >.6ʹ
/ '16ʹ ()U8 ʹ6.?7. / 01.ʹ.7ʹ Cʹ<,-. / 01.ʹ ()98ʹ641ʹ5'
8 $$,! $, %ʹ*% ʹ&&& ! ʹ% , ʹ&2F,(%A % ʹ
,ʹ*% ,ʹ $% *,ʹ% & ʹ&)% A ʹ
'E>'<;..6Q5.Z>.ʹ'>Y Z .41.)8%%%%%%%%%%%%I 8

M b ʹ:>ʹ ʹ "
E) $ ʹ*% ʹ$ ʹ&2 % & && & ! & ʹ
&&(% ʹ& ,ʹ & 8 ,ʹ ʹ& %B$ ʹ&% ,ʹ,! ʹ, ʹ
,! ,ʹ,%ʹ, 4 $$% ʹ ʹ,%ʹ ,(! ,%B $ & ʹB % ʹ(! ʹ
2&)% A ʹ% ʹ(% ʹ& ,ʹ%,, A % ,ʹ ! ʹ& ,ʹB $$,ʹ& ʹ
! ! *% ʹ4%$ ʹ& (,ʹ/9ʹ8 , ʹ:9ʹ,! ,
3 2 ,, B ʹ! &! ʹ 2 $ʹ, %ʹ*% ʹ ! ʹ)! !Cʹ
%B$ & % & &&% ,$ (! ,#4 B%$ʹ "
M ʹB ʹ& ʹ %ʹ$,ʹ, % ,ʹ* *ʹ$ ʹ&2 ʹ ʹ
%& ,, & ʹ&&(% ʹ& ʹ %ʹ & ʹ% ,ʹ !
5ʹ & A &,ʹ ! ʹ$,ʹ& -ʹ ʹ % #4 A #& -ʹ
& 4 & ,ʹ ʹ ! ʹ, A &ʹ $%ʹ && $% % ! ʹ(! , % ! ʹ
! ʹ$,ʹ&& ,ʹ& ʹ 2 ,, B$& ʹ % ! %$ ʹ&! ʹ $,ʹ
, ʹ B ,ʹ ! ,ʹ& % &! ,ʹ ʹ$,ʹ$! ,ʹ& ʹ 2 %ʹ
4 !$& ,ʹ (% ʹ ,ʹ(! , % ! ,ʹ, ʹ4 A& ,ʹ& *ʹ
% & ʹ& $% % ʹ ʹ 2! ʹ*%,, ʹ, B ʹ%ʹ$,ʹ% ,ʹ
$ ʹ,! ʹ & ,ʹ (% E ,ʹ ʹ& ,ʹ $,ʹ & ʹ &, # %#ʹ
! % Oʹ
M ʹ ʹ& (% ! ʹ& ,ʹ ! ,ʹ& ʹ$%ʹ ! ʹ& ʹ
% # ! ,ʹ&&(% ʹ& ʹ A ʹ ,ʹ%& , &ʹ
$%B%
ʹ ʹ$ ʹ C(!>ʹ ʹ 4 Nʹ)! % ,ʹ
0 B$,ʹ$,ʹ)! %A ,ʹ&2 ʹ,! & &ʹ(% ! ʹ ʹ&ʹ ʹ
A% & ʹ ! ʹ %B$,ʹ&% ,ʹ ʹ4 $ ʹ* ! & ʹ ʹ
(! ʹ& ! A & & ʹ ʹ& ,ʹ$ & , & 4, ʹ
2 ʹ %ʹ(%,ʹ ! ,ʹ ,, ʹ & ʹ3 4%, ! ʹ&2&Bʹ
! ʹ(% E ʹ %,ʹ ! !(& ʹ, B$ ʹ%4! ʹ&! B$&ʹ !,ʹ
*! ,ʹ E% A % ʹ ! ʹ ! %A ʹ ʹ(ʹ$% ! ʹ
4 $$ ʹ& ʹ ʹ % ʹ!& , ʹ ! ,ʹ* # $$ ʹ(% 4 ʹ
ʹ ! ʹ$ ʹ(% ,ʹ* ʹ,! ,ʹP ,ʹ% ! , ʹ*ʹ ʹ4 !$ &,ʹ
,ʹ, $&4 ʹ&% ,ʹ$%ʹ(% ʹ& ! Pʹ Qʹ
ʹ! " ʹ ʹ ʹRʹ, # $ʹ(S,ʹ& ʹ
4 ʹ ʹ ! ,ʹ , $ Tʹ ! ,ʹ& % &! ,ʹ:ʹ& ʹ % ʹ
" & ,ʹ (! ʹ(! 4 ,, B$, &! % $$ Rʹ
!& ʹ&2 (! ʹ, $ ʹ%ʹ& ,ʹ (,ʹ ʹ
3 2 ,, B$& ʹ&& & ʹ ʹ ʹ !) B ʹ% ʹ ! #ʹ
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3 2 ! % ʹ& ʹ$%ʹ& (% ! ʹ ! ʹ3 ʹB ʹ, ʹ
&(% & ʹ&% ,$ & ʹ , % ʹ ʹ$,ʹ, (%A !$,ʹ%4% ʹ
! &ʹ ʹ ! &! ʹ& ʹ ! (,ʹ, ʹ ʹ ʹ ! & ʹ ʹ ʹ,ʹ
& ,(!,% ʹ:ʹ*% ʹ ʹ 4%, ! ʹ&% ,ʹ !,ʹ ! & ,ʹ
$, ,ʹ& ʹ!,ʹ ! ! ʹ ! ʹ:ʹ/ & 4 ʹE ,#ʹ
3 ʹ&% ,ʹ$,*! ,ʹ(! ʹ&($ ʹ$,ʹ ! 4 ! ,ʹ ʹ
! ,ʹ ʹ & ʹ ! (ʹʹ$! ʹ ʹ(% ʹ % $$ ʹ ʹ
(ʹ,2 ʹ*% $ʹ ʹ ! , ʹ A ! ,ʹ& ʹ 2%4! ʹ(ʹ
(!?4 ʹ$! ʹ ʹ ʹ(ʹ 2U A ʹ& ʹ(%$! , ʹ
3 2)! ʹ)% (& ʹ ,ʹ $ ʹ ʹ4 ʹ$ ʹ($,ʹ& ʹ
$ B ʹʹ $ʹ(& % ʹ $$ ʹ*! ,ʹ($ ʹ ʹ& ʹ(& ʹ, ,ʹ
!)% , #
! ,ʹ%4 Nʹ(,ʹ:ʹ$%ʹ*% ʹ& ʹ$%ʹ % ! ʹ 2 A%A ! ʹ
,!$ $ʹ& ʹ4 A ʹ$%ʹ$! ʹ! ʹ& ʹ ! Rʹ4! ,ʹ$ ʹ ʹ
($ Nʹ ʹ A%A ,% &ʹ %,ʹ ʹ 2%4 N#4! ʹ(%,ʹ
&&E:ʹ*% Tʹ ! ʹ&& ʹ& ʹ ʹ ʹ$ 4 # # $ʹ(%,ʹ$,ʹ ! #ʹ
(%B$,ʹ% ʹA$% ʹ& ʹ$%ʹ$! Tʹ ʹ ! ,ʹ %,, # #$$ʹ (%,ʹ :ʹ
E% % ,ʹ ! ʹ$,ʹ ! ($! ,ʹ& ʹ$%ʹ (* &$ ʹ! ʹ ,ʹ% #ʹ
% ,ʹ& $2% &% Tʹ ʹ ! , &(! &# ʹ(%,ʹ ʹ $ ʹ ! ʹ
% ʹ! ʹ ʹ ! ʹ - ʹ& ʹ&&(& ʹ(& -ʹV$ ʹ$%ʹ
$ B &ʹ ,! ,ʹ$ ʹA! 4 ʹ ʹ*! ʹ$%ʹ B%, ʹ& ʹ
! ʹ ! $$ ʹ ! , ! Tʹ $ʹ ʹ ! ,ʹ , ($,ʹ
2:ʹ ! ,ʹ(, 4 ʹ& ʹ$%ʹB% B%) (! , ʹ& ,ʹ(* #ʹʹ
,ʹ &* % % ,ʹ , ! % ʹ,% ,ʹ ,, ʹ$,ʹ !) ,ʹ&B ʹ
*% % B ʹ)) ʹ:ʹ B %, ʹ ! ʹ&&(%
! ʹ ! ,ʹ ! ,ʹ(! ! ,ʹ ! ,ʹE ! ,ʹ& ʹ4! ,ʹ
, ! & ʹ&2%4! ʹ ! E! , ʹ4! ,ʹ ʹ ! * % ʹ,% ,ʹ
B! , & ! ,(! ʹ(% ! ! ʹ 2$) & & ʹ& ʹ$% BB, Eʹ
(B$ %&ʹ 2 - A %ʹ&2%*$ ʹ ! ,ʹ %$$ ʹ% ! ʹ&!ʹ4! ,ʹ
,2 $ʹ$ ʹ$% ʹ& ʹ ! ,ʹ ʹ:ʹ !,ʹB 4 ,ʹ* ,ʹ &2% ,ʹ
$,ʹ % , ,ʹ(! ʹ4! ,ʹ& * & ʹ& ,ʹ*% -ʹʹ ʹ(ʹ
! ʹ& ʹ4 4 ʹ ʹ& ʹ ! E ʹ$ B ,ʹ ʹ,! ,ʹ% -ʹ$! ,
ʹ ʹ ʹ ʹRʹ3 ʹ, ʹ
& ʹ$%ʹ$ B ʹ ʹ%ʹ&$ 4&ʹ$ ʹ ! %A ʹ& ʹ ! ,$,W ! Uʹ
* % % ,ʹ & 4% ʹ = ʹ&&4 $!((ʹ%4 ʹ$ A ʹ) Nʹ

(!($ ' %A !$ ' +/ A * XX- ' $% ,'$,' $ % ,'!*'$%'
%$ ' , B$ ' 4! 4 ! , 4 ' ! ' $%' (+' & ' ,! '
P' A '3 ,' ,' ! '+ ' $ ' B % '& ? ' '
'$%' F % ' ! '('& ' ! , :Y '% '& &' % , , '& K
A ,'& '%$%' Z '& '(($ '$ B

3 2 , , B$& ' % ! %$ '4! ,'% ! & '$,') ! ,'& '
C , & %

#' '& ' 3' $ ' , % ,' *% ' $ '&2 '
%& , , ' , A C '(% ' ' +,' A % &' ! B '& ' ! ,'
& ' $! #F % & ' '& % ' '$%' , , K
(, ! ' & ,' %, , B$,'&$! %$,' '%& , , ' ,
' , R' 5'$$' ,' (,' '$ ' (($ ' -
,%' , ! 4 % ' ' 2 $' *%, , ' ! (% ' , ! '4! '' '
! '$,' &% A ,'& '$%' (% ,B '(, , % ,' ! ,'
4! ,'&& $% ! ,' ' ,'&% ,' N 'E! ,'4! 4 '& '
2 ,'(%,' &4! &' ! ,' ($! ! ,'$,' ! ,' '
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' '%& , , ' , ' E! ' '&&$ B % ! '% ,'

3 * (' ; ' !' M D
5' 3 ,' ! ,'$ B ,'& ' $! #F % & & ,* #'
&,'& #&& ' C, , (&'$,'!(& % ! ,'& ,'%, , B$,'
& ! %$,' % ,'(X , %&&[' ' 2 !B& , , % '(! ,! '
&, '$ ', $' ! '& ' % '$%' (% - ' '& '(4 '
$,') ! ,' ' % %) '*! '& ,' ,'(K
B$,' %' ' !B ,(' *! ' A! #' @ N! '
C& ' % , X '$,'% ,' B ,'&A' , , B$& '
% ! %$ ' ' ! ' ! , % ' 'A& & , ,! #'
'$,' ((,'& '$%' $ B &'' $,' , ! ' 4% %#'
B$,'% -' ,'& '$%' ! , ! ,&% '% -'
8% !B ,' '% -',! &,'* % $$,'& ' % ,'' $,'$! #'
' C' @% %$' && ('(! '%$ '(! ' 2%& , , '
#& , , ,'%' 2 , , B$& ' % ! %$ ' 'J

#' '$ % 'R' ! 'E ' '&! ,'(%,' ,! * ' 2 '
(% ,&% ,'$ $,' ' ! '& ' &,') ! & ,' ! ,'
& ,') ! ,'B ' (, % ,' ,! ' %$! &' (% ' '
%& , , '%' $%' &&% ! '& $% $$ $,' 2! (% ! ! #'
'E '&! ,' -(! , '$,'*% $,' ' , '%' %' ! % , , % '
' A% ' '%' (!4! &' '%& , , ' , ' '
$'& % & '%' & & ' $2 , , B &'
$$ '4 %' ' 2 , ' '4& %B$ ' A% '' 'E '$ '
(! 4 %' ' ! ,'Z ,') ! & ,' ! ,'& '(% ,'$ '
& , ' ' $,' (! 4 ' '& %)

' & 'R' '&&(&' '&!$ '(%,' '%& ,C' (% '
%' % ' & '& ',!* (! ! ' ' &' ! ' , $ #'
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& '% -' (&, % ,'& '$%' % ! '$,'4!$! &,' ! #'
4 % ,'& ' $,' & 4 & ,' '%'$,' % '&2 , '
& ' '(& & ' , ! 4 %

' B 'R' ' 2% & &' 4! &' (% '$ '& ! '& '
&&(% ' '%& , , ' (% ' $% $$ ' '& ! '
& ! '$,' A ,'& ' ,'*% -' ' -(' ,! '
% %) '%' $%' ! , ! ' 3 ,' % ,'& '
%& , , ' , ! '& ,' A% ,'& '$%' ,! &' & '& ,' ,'
& ' $ ' ! , ! ' ' , ' ! 4 '&$ ' , '
% A ' 2 '($,' $! A' (,' '*%, , ' ! B '$,'
E + ,'& ' '&)%*% &%A ' V* A ,' '%& , , '%
&' ! & ' ' ! ,'$,' ! ,'& '&&(% ''
) ' , $ ' ' ! '%&) & ' ! ,' ! ' *! $$ #'
' E & '' ! ,'$,'% ,'! ' &(! & '(% ' &' , K
$ ' '$ ' &(,' ! ' ' ! % ,' ! '(% , 'E 'C(,'
4! ,'%, , ' ' ! ,'$,' ! ' , ! 'B '&
, ! '$%' ! , ! E C 2 '$%' ! 8 '& % & '
' 2%& , , ' '%' '$ ' , ! ' 4! & '% ' ! '& ,'
4)) ,'8 ' ' ! ,'(%,' ' ** ' !' 4! ,' (,#'
, N' , ! * ' 2 ' ! % &% '& '$%' A% & ' % ! %$ '
'& -'E A ,'& '& , '(, , ' , '('& ' , #'
C '& ' (% $$,'& $ B& %$! ,' 3 ,' % ,' %4% '
% %B! &' & % &&' $%' (, , B '& ' (B$ '$ ' (!E '
&2%& , , ' ' , ! '& ' % , , '%' ! '$%' (%$ &'
, , ' * ,& ' $,' ! ' , '*% '%*) '%4 '(!* K
, ! ' ' ' ! '*% ' , A ' & '&% ,'$,' !$ &A! ,'8 ' '
, ! * %' (%,' ! ' ') ' A% ,' ! B ' ! '
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! ' - ($% '@ % E N' ' ' ! % &% 'V
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&&E ' *%E

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'&! '(%,' (!* '& ,' ! , % ,'(! '&A%'
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$$,' 2 ,'% '& ! '& '& (% '%' $,' *%$
(! , 4 '& 4% '$,' B % -' '& % & '$%' &4'
% ! '& '&& ' ' , (&'$,' ! (% ! ,'& ,'%, , '
B & ,' $! % ,' ' A %$' ! ' 2%' ! (' % '
' ' ,! '$,'(,! ,' '%, ('%' $%' &A , % '
' 4 $ ' ' '$% &' ' ! 4 ! ' % ! %$ ' (! '
! 'B! $ 4 , ' ' ' ! ' '& '8 ' 2
2 ' ! '%' !B, 4 ' 3 ' %4% $' & ' $%' &4 , ! '4! '
, %' , , % $' (&, '' $! , 2 $' , % ('
E '4! ,'(!(! , %' ! # & '& ,' , ,' ' & ! '
%' %B &A ' $%' & , , , ! ' ! ,' ! 4! ! ,'B '
$,'&$, ' ! ,' (! 4 ! ,' ' ! ,'4! $! , '
! '&% ,'$%' $%, , '& ,' ! ,' ' ! ,' ,! '
(& ,' %' , ! $ ' , $' $ ' *% ' ! ' ! & '%' '
E A ' ,'E '& % & ' ' ,% ,' ! ,% & '
' $% % ! , ' ' ' ,! ' '$ '* '& ' 2 $ A'
& '$%' *% ! ' ! ,'(%, , ! ,'%' ! & '& 'E!
3 2 , , B$& '&& & & '(%, , '%' ! & '& 'E!
' M '> //' ' , ** '(%,'& '(%, , '2' ! & '$
E! ' $' *% ' '& ,'*! ! % ,'(B$,' ' ! '
&% '& '$%' A% & ' % ! %$ ' & ,'E A ,'& '& [\'
' ! ' ! ! '%' ,' A ,' ,! '(,' '4!'
' ,! N' $,' ! (,'%& , % *,' ! '$,'*% '
'% ! &' , %' %4 $ ' 8 '& % & ' !' 4! '& ' '
& , , '% ' ! &' & ,')) ,
3 2 , , B$ ' ! &! '$ ' 4!
M '& (% ! '& '& ! '& '&&(% '
, '%& , '%' $%' B% '%&) '% -'&& '
& ' , , B$& ' % B %$ '
M' '& (% ! '& '$%' A% & ' % ! %$ '& ' !'
! , '& (! , ' , '$ 'B % ' ' &(! , '%' & , $('
! ' (% & ,' ! ' $$ ' $,'&& ,'& '(, 'V
! (,' ' ! ' ! , '%' %A ' ! '& ,'(+ '
&* % % ,' '%4% ' - &' & ,' ! B$,'&% ,' '
(% ! , ,
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7> KK' K' '3 . -' '5 +' '+' =P%' 8'
'8 (& ' ' 9 !' . ; / >> .I'5.'0'55.7' 'Y &'
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(,' (')+ (,' ' - '&

, 5') ' +*') *,(0+.-' - ' (4 (' V' <Q,,1>%' 8'
' 3 --$(7' F ' ' ' 3 -$(7' .5' '
- ' * 'F ')-)'
' ,' 6$', .$5*('(*' P' +3,(" +0(3' **' -$0(.,$''((*,/

. - . ' ' ' " ' ' * " ' +' <Q,'1>%' 8'
, ' ' ' ' ,<' ': ' ! 1 '?'1'5.'
;,46 <' ';=4.6%

- ' ' ' , 81'.' , ' <7 , '17 4%' +' Q,'1> :4' 8'
' F ' G & A ,.+!'
9 -$(' .<' ' ';7.67' (,' ' 'F ' ,? 1'8

$ & ' ' . (' -*' +$!*D' BT' V' B3(',' *.(,;
, *" (" A *.+' A+'5* F' ,((' 6(.('5* $' 4 +$,' ' (" +) *!
*-+- 8' .(+,(.

' ' " ' ' ,+ ('(#- ,,(''(.!)'
$2' 4.($(." > $" HT ' + +8().'' *,' F' +' ($,.(' , '

G ' ' & ' & ' 4' G I' - ' '

',(.-+ ' FF' H[E' +-.$- ' ' ' BE' ' BP'
@+ ' *,9' C ' B[P (*(" /' /' K' ' U RL
*-.(' ' K PP' B[F' $0 *.*(/' % C3
+-$2' ') ' ' % 8 */' , P[B' 4

' ' PT' -

3,$ *" -(" *-(' -('WTII' $0/ CC9
.,$ *" -(' BGII' $0
V' - (P W$$0
V' -(' BII' $0'
4.**' - (,), (' -(' $0' ' ' ' ' K' K' O FIP
,(.$(' - (,) .(' BHEP/ +' F I I' $0' ' ' $ Y * W $
4.**' - (' -(3' BHEW/' 5 $,,+*3(' -(' #$* H
V' -(' BWX $ $ *'/' -(3' BHEF' ' ' B I/' ' B[E/' B[F/B[E')
%' -(' E I' $ $ *" +0(())* (,$*''
X ,$,,+*3(' -(' $*+* (' '+*")* ($*'
(' ,' /' (*' 0$+9(. A*$' (,/' ' B[P' (,).(/' T' B[W')'
" * (,$*'
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(3 **+$''+*3(" -( ) * (,$*'' %
[-([' $(" +
4.**' ' - +$*(' -(' +' 0$ (/'(.$(' ,,$(
V' " ,-(.(+ 2' 4$ 0(*+*," -(' (.$(' * *' .,$(' ' ' ' ' '
3,$ *'%' * *0' -(" ,' *-(' ' BBWE/' P I/' PG/PE/F<%' FW/FP/' FF/BI=/
+$' (' -%(' 3 4,7 b /' /' / F I/' /
($!3+$'' (' $' BTWG/ :
*$,,+*3(' -(+' (+ 2' -(' +.$"
4' *,*,-(' * 0( ).(' BHEH/FG' 4' D[,
V' ' F F4/' /' ' j
-(' E I' $ $ *'/' - + #$,' BHGT' K
'' .+*3(' 3 *,,(' (" $*3(*-$(" GGT/ /HP/HB/H I/GE/
! ' 0 (' /' ' ' BG/P I/PE/E I/PG/

! b ʿ ʿY8 ʿB 5 5aʿ5 a7 %

C WBWʿ ʿPB 2 ʿBHTBʿ Vʿ < ʿ H ʿ ʿ ʿ

! %

.ʿ$! ʿ ʿQM (ʿ +ʿ <ʿ?1.7.<>ʿ=4.ʿ .5.;ʿ 5.47-ʿ >.ʿ B'<,-1.ʿ"E' 7 >.;5'1.1ʿ"5" >7. .ʿ=4 5ʿ<.ʿ6.ʿ / .5.1' 7?, <7>4ʿ> Ea1.<>ʿ 5.-.ʿ.<71.ʿ=4.5=4.6ʿ?1 <;.6ʿ >.ʿ 7<? 1.ʿ.7 5" H1'<;.ʿ ʿ.7 =4.ʿ6ʿ ;6ʿ.5.;7.4-6ʿ.;; ʿ 6 '67 =4.6.7 > '471.6ʿ / . / 01;6ʿ'-' .<7 .<- .ʿ >.ʿJ4.1ʿ 1,V.1ʿ ;,<71.ʿ5.6ʿH1'< ' 6ʿ8ʿ V5 <.ʿ5.6ʿ . /?.;:.1' 7 ?'68ʿ 6,46ʿ5" 1 .1-.ʿ=4.ʿ5" =4.1.55.ʿ<.ʿ6.1' 7 ?7 6ʿ ;, / / 4<.ʿ "7,46ʿ5.6ʿ / . / 01.6ʿ>.ʿ / ? 1.%

%

ʿ9 ʿ ʿJY (ʿ +$ʿ '11.67'7 ,<ʿ >4ʿ1,ʿ ʿ"E' 7 > 6?'1' 71.ʿ ;7 7,46ʿ5.6ʿ?1.?'1'5 E6=4 ,<ʿ'-' 5ʿE' 56ʿ?,41ʿ >.6ʿ1.Q,4 66'<;.6ʿ?405 =4.68ʿ.5ʿ5.ʿ?'?.8ʿ5,45ʿ <E' 55 05.ʿ =877 5ʿ .678ʿ " .@?.> .ʿ '4ʿ <,<;.ʿ >.ʿ K14@.55.6ʿ?,41ʿ5.ʿ ?1.6.<7.1ʿ '4ʿ 1, 8ʿ=4 5ʿ;1,V' 7 " .708ʿ 4<ʿ 0.'4ʿ 01.Eʿ >'<6ʿ5.=4.5ʿ 5ʿ5,4.ʿ .7 E.5 ; 7.ʿ % %8ʿ.<ʿ <6<55'<7 5"<'M 7 ,<8ʿ.7ʿ=4ʿ?,17.ʿ.<7 .1. / .<7 "E'4@% .ʿ1,ʿ>.ʿ '?5.6ʿ ".5.ʿ?546ʿ5, <ʿN 5ʿ"E' 7 ;:'<7.1ʿ>.6ʿ< ʿ *'11.7.1ʿ .7 >. / '5.1ʿ5.6ʿV' 66.'4@ E1'<;' 6ʿ8ʿ .7 >,<<.ʿ 8 ʿ>4M ;'76ʿ '4ʿ / ' 51.ʿ> 4<ʿ057 / .<5G'<J5' 6ʿ=4ʿ54ʿ"'??,17.ʿ 5"<,4 .55.ʿ >.ʿ -'6 ,<ʿ>;ʿ6,<ʿ0.'4 E15 1.% 5 <.ʿE,45.ʿ >.ʿH1'<;' 6ʿ64<7 ?'17 6ʿ>.ʿ , / .ʿ?,41ʿ '57.1ʿ'4?1 ʿ>4ʿ 1, ʿ ʿ#%=4 56ʿ;1,V' .<7 .<ʿ 55. / 'J<.%

ʿ 3 %

@ 0 ʿ ʿ), 3

8ʿ34'71. - <J7 > @ 6.?" J1'<>.6ʿ E' / 5 .6ʿ .7 ?546 .416ʿ ;;<7' <.6ʿ> :, / / .6ʿ<,<ʿ/ '1 .6ʿ - .<<.<7 >.ʿ6.ʿ1.7 1.1ʿ >'<6ʿ5.ʿ?'V6ʿ;,<<4ʿ6,46ʿ5.ʿ<, / ʿ >.ʿ ! '<'6 .8ʿ 641ʿ 5.6ʿ 0,1>6ʿ>;ʿ5" 1 - .1.ʿ ,>' [% #.6ʿ / J1'<76ʿ6, :7 7,46ʿ H1'<;' 6% ;J, -.1<. / .<7 >4ʿ#'<'>'8ʿ6,46ʿ5.=4.5ʿ5 - - ' ;<7>.?47.ʿ=4.ʿ5.6ʿ <J5' 6ʿ .<ʿ ,<7 E' 7 5" ;,<=4 7.8ʿ ;<1ʿ >.?5' 6' 7 <E < / .<7I .7 56ʿ6.ʿ 6,<7 1.7 1.68ʿ'-.ʿ 7,47 # ʿ=4 56ʿ?,66 >' .<78ʿ>'<6ʿ<<ʿ?'V6ʿ, :ʿ56Q,4 1,<7 > 4<.ʿ?546ʿJ1'<>.ʿ5 0.17.8ʿ ,4ʿ 56ʿ4 ,4-.1,<;ʿ?1,7.;M 7 ,<8ʿ 641.7Vʿ.7 .@7.<6 ,<ʿ > / / 4< 7 ʿ>.ʿ5' ?'17>.6ʿ 8 7'76 < 6ʿ > < .1 =4.% .6ʿ 0,<6ʿ .7 6'J.6ʿ ,06.16'ʿ 7.416ʿ ,<7 ?1.-4ʿ >.?47.8ʿ5,<J 7. / ?6ʿ =4.ʿ .7,<<'<7.ʿ ;,<E.>.1'7 ,<ʿ' / 1 ;'<.ʿ'7.<>1' 7 6,<ʿ <E54.<;.8ʿ'-.ʿ 5.ʿ7. / ?68ʿ'4ʿ<,1>ʿ.7 '4ʿ / > ʿ>4ʿ ,4-.'4 ,<>.% ʿ ;,<7 <.<7 .6?'J<,5ʿ6.ʿ>. / . / 5 1.1"?`47 .71;ʿ?546ʿ7'1>ʿ 6ʿ=4.ʿ5.ʿ;,<7 <.<7 '<J5' 6I / '7.ʿ 4<ʿ .7 '471.ʿ6.ʿ>.5ʿ V1.1,<7 " ;,4?ʿ641ʿ>.6ʿE.16ʿ>.ʿ 41,?.% .6ʿ 7'76 < 6ʿ < ,<7 ?'6ʿ 0.6, <ʿ> . / ?5,V;?ʿ5" E,1;.8ʿ>.6ʿ'1 / .6%?,41ʿ ,?91.1ʿ;.57.ʿ1.-,547 ,<Iʿ.57.ʿ6.1" .EE.7 <'741.5 >.ʿ 5" E,1;.ʿ>.ʿ .@. / ?5.% G

L K %

@ ʿ 0 ʿ ʿ ʿ ʿ ʿC ʿ-

%%%%%%%%%%% .41ʿE,5 .ʿ&>.6ʿ. / J1'<4 ʿ.67 "6,<ʿ;, / 05.% ,46ʿ>.-.0ʿ1.;.-, 1ʿ >.ʿ ;.ʿ?'V6 ;ʿ> 71'<J.6ʿ5.771.6% % >.ʿK,4 55.ʿ .67 5.41ʿ :.1,68ʿ % >.ʿ#,<>.ʿ5.41ʿ1, % ,4Eʿ.4@% ,<6 .41ʿ6 ;67 / ,<71.ʿ71,?ʿ5'1>8ʿ.7 %> 1M 7, 68ʿ6.5,<ʿ.4@8ʿ< 'J 7 ?, <7 '66.0ʿ?'1ʿ54 / . / .% ,46ʿ 5.416ʿ ?1,Q.76ʿ6,<7 1. / ?5 6ʿ > .@71'-'J' ;.%ʿ / 'J <.0ʿ 4<.ʿQ.4<.66.ʿ'1>.<7.8ʿ <> 6; ?5 <..8ʿ J<,1'<7.ʿ.7 E .E.8ʿ 4<.ʿ ?.7 7.ʿ '1 / ..ʿ 5,47.ʿ>.ʿ ;,5,<.56ʿ.7 >.ʿ5 .47.<'<76ʿ > <E'<7.1 .8ʿ=4ʿ;1, 5ʿ7.< 1ʿ>'<6ʿ6" / ' <ʿ5.ʿ6,17>.ʿ5" H1'<;.% .41ʿ;,;'1>.ʿ05'<;:.ʿ5.41ʿ6. / 05.ʿ>.-, 1ʿ.71.ʿ '4@ʿV.4@ʿ>.ʿ7,46ʿ5.6ʿ?'71 ,E.6ʿ4 1.ʿ7>7.ʿ>.ʿ 9>46.%REQ1ʿ 1 Aʿ ʿ ʿ">7 ,<ʿ?5' 6'<7Iʿ5.ʿ1' 55.418ʿ" ʿ?.<6.ʿ.71.ʿ'66, / / %%% .ʿ<.ʿ6'41'7.ʿ-,46ʿ1.> 1.ʿ7,47 ;.ʿ =4.ʿ;.6ʿJ.<6 ;ʿ> 6.<7% 56ʿE,<7 >.ʿ7,46ʿ5.6ʿ:'0 7'<76ʿ>.ʿ 41 ?.ʿ >.68ʿ;?<51. .V,547 ,<<' 1.68ʿ.7 ;.5" > 4<.

Fʿ ʿ +ʿ< ʿ'.

/ '< .1.ʿ71.6ʿ #, / =4.% '<6ʿ5.41ʿ1, / '<ʿ%5.6ʿ 466.6ʿ 6,<7 7,47 ?1 76ʿ" / '1;:.1N '-'<7 >.4@ʿ / ,7.ʿ 5ʿ .<ʿ>.ʿ 0'1=4.1">.6ʿ / 55 .16ʿ641ʿ5.6ʿ;97.6ʿ>;H1'<;.% <J5.ʿ 7.11.ʿ .7 5" B,55'<>.ʿ>, -.<7 E,41< 1ʿ>.6ʿ71.6,16Iʿ5.6ʿ ;.<7' <.6ʿ>.ʿ / 55 ,<6ʿ<.ʿ5.41ʿ;,<7.<7 1 .<8ʿ;, / / .ʿ'4M 71.E, 6ʿ"B%>.#'5,<<.8ʿ'4Q,<1> 04ʿ5.41ʿJ1'<>ʿ71 , ʿ 1 .1%%%% .6ʿ?546ʿ6'J.6%'??1,4-.<7 5.6ʿ?1,?,6ʿ>.6ʿ?546ʿ <6.46.6% #.5'8ʿ> 6.<7 .67,16ʿ / J1'<768ʿ / ,<7.ʿ5.6ʿ 7 .6% '7.ʿ 56ʿ,<7 ' '%E,<>>.ʿ5 / .ʿ0.'=;,4?ʿ> <=4 .ʿ 74>.% "> 6;,1>.ʿ7'1>.ʿ 0 .<ʿ2ʿ6.ʿ / .771.ʿ .<ʿH1'<;.ʿIʿ 56ʿ<.ʿ6.ʿ> 66 / 45.<7 ?, <7 =4.ʿ ; .67 5" 5.47 6.45.ʿ1.6ʿ 6341;.8ʿ>4ʿ / , <6ʿ ?,41ʿ ;.77.ʿ '<<..% <ʿ '77.<>'<78ʿ =4.5=4.6ʿ.;;5.6 '67 =4.68ʿ=4.5=4.6ʿ / 'J 671'56ʿ.7 =4.5ʿ =4.6ʿ>.-,7.68ʿ7,<6ʿ54J E6ʿE1'<='68ʿ - .<<.47 >. ' 1.ʿ 'EE ;:.1ʿ4<.ʿ<.4-' <.% .ʿ-,46 .<-, .Iʿ.55.ʿ<,411"1.% Q,4 1ʿ5.6ʿ :,<<.7.6ʿJ.<6%

ʿ ʿ5 67 6 ;4K 6-ʿ;' 4;11 K%

,0Q.7>.ʿ;.57.ʿ<.4-' <.ʿ.67 >.7,<71 04.1ʿ'5"J5, 1.ʿ >.ʿ .4ʿ.7 '4ʿ6'547 >.ʿ5" H1'<;.% 55.ʿ;, / / .<;.1"c.ʿ Cʿ', 7% +ʿ ,47.6ʿ5.6ʿ?.16,<<.6ʿ=4ʿ-,4>1,<7 6 V '6ʿ 6,; .1ʿE.1,<7 > 1.ʿ 4<.ʿ / .66.ʿN ʿ5.ʿC 8ʿ.<ʿ 0,<<.41ʿ >.ʿ '<7 ,47.ʿ8ʿ .7 / ?5,1.1,<7 6"?1,7.;7 ,<ʿ?,41ʿ5" H1'<;.Iʿ OD 4<.ʿ / .66.ʿ5.ʿC)8ʿQ,41ʿ>.ʿ]' <7 % / J7767 :ʿ ?,41ʿ>. / '<>.1ʿ?'1ʿ6,<ʿ <7.1;.66 ,<ʿ5" ;,<-;16 ,4ʿ>.6ʿ ?1.:.'16I D 4<.ʿ / .66.8ʿ5.ʿ >.1< .1ʿQ,41ʿ>.ʿ5" <.4M -' <.8ʿ 7Q.646 #:1 67 ;14; E .% + .6ʿ?.16,< . ʿ=>ʿ6.ʿ 1,<7 >'<6ʿ / ?,66 0 5 7.ʿ>.ʿE' 1.ʿ > 1.ʿ04ʿ> '66 67.1ʿ" ;.6ʿ / .66.6ʿ7 ;:.1,<7 ' 1 / , <6ʿ>.ʿ6 V 4< 1ʿ> <7.<7 ,<% .<>'<7 7,47.ʿ5"<.4-' <.ʿ,<ʿ> 1" 7,46ʿ5.6ʿQ,416ʿ71, 6ʿ % ʿ8 ʿ ʿ, F 5 + ! <6 ,;;4?.1" > 4,.ʿ ,.4-1.ʿ>.ʿ;:'17.ʿ ʿ <7.<7 ,<ʿ>.ʿ5' ,.4-' <.8ʿ .7 ,<ʿ.<J'J.1">'<6ʿ;.77.ʿ<.4-' :.ʿ5.ʿ? =6ʿ>.ʿ / ,<>.% =4 ,<ʿ?,411'%

7 :,46 - .<7 .:'=4.ʿk,41ʿ>.6ʿH1'<;' 6ʿ6.ʿ>7.'<7 ,cʿ E ; .16% .6ʿJ.<6ʿ>.ʿ / '1=4.ʿ6.ʿ1.<>.<7 " ,1 / 6% + ,6ʿ?1,- <;.66,<71. / ? .6ʿ> 4<.ʿ<,4-.55.ʿ'1& 55.1 .ʿ 5ʿV .<ʿ"4<.ʿJ1'<>.ʿ=4'<7 5.ʿ>'<6ʿ;.77.ʿ- 55.%3 :.5=4.ʿ 71,4?.6ʿ>.ʿ . / ?.1.41ʿ'11 -.<7 ?'1ʿ5.ʿK1E6J' [ʿ I 9I 5ʿ ;'-'5 .16ʿ6,<7 >.?4 6ʿ?.ʿ" .<71.6ʿ" 4@. / 0,41J% .ʿ / 4< 7 ,<6ʿ>.ʿJ4. 1.ʿ .7 5.6ʿ'??1, 6 ,<<. / .<76ʿ.@;.ʿ >.<7 .<ʿJ.<.1ʿ5ʿ5.6ʿ0.6, < % Eʿ .67 .<;,1.ʿ;.17' <ʿ=4ʿ <,6ʿ 'V6 K'6ʿ ,<7 >.6ʿ <'J'6 <6ʿ77 ,?ʿ0 .<ʿE,41< 6% + %>.ʿ#'5,<<.ʿ- .<7 >.ʿE.?'66.1ʿ?'1ʿ ; N 5ʿ;,417 '?1.ʿ %>.ʿ#,<>9%8% ,71.ʿJ,4-.1<. / .<7 ?'1' 7 <=4 .7 >ʿ 7,41ʿ 4<ʿ?.4ʿ6 1 .4@ =4.ʿ ?1.<<.<7 5.6ʿ 'EE' 1.6ʿ >ʿ H1'<;.% 76.<7=4 5ʿ>,57 6.ʿ1.J5.1ʿ641ʿ5.ʿ ' ʿ=4 .75.ʿ '41,<7% .6ʿ 7'768ʿ?'1ʿ .@. / ?5.8ʿ,<7?1,7.67 ;,<71ʿ ,1J'<7.'7 ,<ʿ;74.5 .ʿ>4ʿ;,<6. 5ʿ>.ʿK1'0'<7%

.ʿ6'7.ʿ=4 4<ʿ:, / / .ʿ>.ʿ=4.5=4.ʿ / ?,17'<;.ʿ $;,<6. 55 ʿ " . / ?.1.41ʿ>.ʿ6 .@? =4.1ʿ?546ʿ<.77. / .<7 =4 5ʿ<.ʿE' 7 -.16ʿc"<'7 ,<ʿE1'< ' 6.%%%% 34.ʿ-,71.ʿ 6+ 6. / 05..ʿ7.1 / <.ʿ>,<;6.671'-'4@Iʿ=4.ʿ5"> 4<Q,<ʿ4.ʿ 6.ʿ / .77.ʿ?, <7 .<ʿH1'<;.ʿ8ʿ ;.5" ;,<E1 / .1" =4>=4.ʿ 0, / / .6ʿ>.6.<6ʿ>'<6ʿ ,? < ,<ʿ=4 56ʿ,<7=4.ʿ5"H1'<;.

ʿ ʿ ʿ ʿ ʿ ʿ$ ʿ ʿ ʿʿ_

H # %

3ʿ +*%' V (--,+36((*,ʿ -(ʿ +ʿ 9+.-(*+,$ *+(4+.$'$(**(5 $0+ʿ-(#(*-.(ʿ* '#. *,$(.('/(,+$,ʿ3+ 4(-(4 $"5 (5,,(" ." -+*" +ʿ 4 +$*(ʿ-(.3*((ʿ ʿ !(ʿ,ʿ4+.,$ 3(,,(* $,/ (,ʿ'(.+ʿ .(4 +3(ʿ$*3(''+ *$(*,ʿ 4+4ʿ ("3$, 8(*'!' -+,"-("-$',.$3,"-(ʿ +$$$,! (.$$"(,ʿ - ʿ" .9! +! ($*(/ 5 $ʿ,$3ʿ,+.-(. ʿ,4+"+ʿ'3ʿ .3$$-.(

'' 5 ' ' / / .'>;67 B '7 ,<% ' / , / .<7 >4'> .? ' 178 5 '' Q, .'
.7' 7 ?. <7.'641'5 '' E J41.' >.' 7,<6 ;.6 01' -.6 6,5>'76I
;.4@' ' 5 ;,<71' 1.'=4 '>7' .<7 E,1;>6 >.' 1.67.1 ? '1' 6 '
6' .<7 '75 67>6 >.'<.'?,4-, 1 ?'17'J.1' ' -.;'5.416 E1E.'
1.6 > '1 / .6 :,<<.41 >.' >>E.<>1.' 5'' ?'71 .' .7 >.'
/ ,41 1 ?,41 .55.%

@ ' 0 ' ' 9 * ' ' *'!

>-><. / .<7 =4 '- .<7 > '-, 1 5 .4'>'<6 5.' / < 67.1.'
>.'K.15 <8 =4 ' .67 5 '' 1.71' 7.'>.' % >.'B.1700.1J8 '' E' 7
0.'4; ,4?'>.'?. <.'4';'0 <.7 67'7: ,4>>1 .<%#.7'<; .<'
/ < 671.' >7' 7 '06,54 / .<7 > .-,4>' '' 5 '' / ' 6,< > '
1'<J.8.7 .4'?.1>'<7 ;.7 '?24 '5.'67'7: ,4>.18 ' <6 '=<.'
6 '' E. / / .8 ?.1>.<7 ->1 7'05. <.<7 0.'4; ,4?%#.' '
?'6 .?.<>'<7 ?'1' .7E.7 > 4<.' >56 ; .'=4.' % >.'
B.1700.1J'=4 77.'5.'7''< . / .<7 >.6 'EE' 1.68 ;'1'5.'1, '
>. 1466.'?'1' 7 7,4Q,416; ,<6.1-.1 ?,41'54Q0.'4; ,4?
>.' ;,<E '<;.I / ' 6 5 < .< .67 ?'6 / , <6 -1' ' =4.'5.'
6V67E / .'?,5 7 =4.'>.' ;. .' ; ,41 .67 ; :'<J>8 .7 =4 ' <6 '
'<; .< / < 671.'<.'?.47 ?546 V ;,<6.1-.1 4< J1'<>'
;1>> 7% : , / / .'<E'-.41 .67 5.' ; ,5,<.5 K 66; : , 6 [.1 '
>.18 >,<7 ,<6' 7 =4.'5.6 14.6 6,<7 > EE>1.<7.6 >.' ; .55.6
>.' 6,< '<7'J,< 67.% #.' ; : '<J. / .<7 >.714 7 '06,54G
< .<7 7,47.' ?1,0'0 5 7>' >.' J4.11.' ;,<71.' 5'' 466 .%
'<7 =4.' % >.'B.1700.1J .7' 7 .<'?5' ; .' ,< >.-' 7 951.'
; .17' < =4.'5''J4.11.' '41' 7 5 .41 '4Q,41> :4 ' ; .67 5.'
; ,<71' 1.8 .7 ,< <.'?.47 < .1 =4.' ; .'6V67> / .'<.'6, 7
0.'4; ,7 ?' 1' .4@ .<7.<>48 .7 0 .<'?546 E'-,1'05.' '
<7>1>7 >.'5'' 1466.8 =4 ' '41' 7 ' ; : .->'>.'6.' / <.1
.<7 E.1. <.<7 >'<6 1 41,?.86 ' ,<6.'E>7 ,067 <>'' 64 '
-1.'5.6 -4.6 .<7' / >.6 >.?4 6 >.4@ '<6% ' 6 >.' ?546
-'67.6 ?1,Q.76 -,<7 5 1.'5''; ,<6>=4.<; .' >.' ; .'<,4-.5
'11'<J. / .<78 .' 1, '>.' 1466.8 >>0'11'66>'>.'5''?>'
< 05.' ; : '1J.'>.'6,47.< 1 5.6 <1;68 .7 >.' J4.11,V.1
; ,<71.' . / ?.1.41 .75 ' ' 466 .8- ''71' -' 55.1 ' -.;'> '4 '
7'1 7 ?546 >.'E,1; .''E' 1.'>; : ,4.1 5''; ,<67 747 ,< E1'< '
;'76.8 >,<7 5 .678 ' <6 '=4.'7,<6 5.6 1, 6 >.' 41,?.8
.<<. / ' ; '? 7'5% 5V' '' >>Q>' >.6 / .641.6 ?1 6.6 2' 5''
; ,41 > . ;5,1'5.'>.' 'V.<;.8 ?,41 71'-' 55.1 >.' ; ,<M
; .17 '5'' > >7.'>.'K'7 60,<<.% <.'5 J4.'E,1 / >'05.'6.'
1<66. / 05.8 .7 ,? < ,< J><>1'5.' .< 55. / 'J<.' .7 .<
B,55' <>.' .67 =4.' 5.6 H1'<I' 6 <.'?,411, 7 ?'6 1>6 6 '
7.1' '5'' / 457 ?5 ; 7>'>.6 / ,V.<6 >,<7 ,< -'' 46.1 ; ,<71.'
.4@% '' ; ,<a>>1'7 ,< ; ,<71.' ; .'?.4?5.' .67 J><>1'5.%
,41 ' -, 1 5.'7. / ?6 >.'6.'?1>?'1.18 ,< ; , / / .<; .1''
?'1'>.6 '>.6 '6. / 05'05.6 '' ; .55.6
=4.'5''; ,41 > 6?'J<.' - .<7 >.'E' 1.'?'1-.< 1 '' 6 '
6. / 07. .'<'7 ,<'5.8 .7 =4 8 6,46 >.6 7.1 / .6 >=4 -,=4.6
.7 '' >,405.' 6.<68 >> ; , -1 1,<7 5.6 ->1 7'05.6 <7.<M
7 ,<6 >.6 ?4 66'<; .6 .71'<JE.1.6% .56 6,<7 5.6 ?5'<6
E,1< >6 .< 55. / 'J<.8 .< 4 66.8 .< 1466.8 .< B,5'
5'<>.8 .< <J5;7.11.8 .< '-, .' .7 .< 6?'J<.8 5.6 '
=4.56 -,<7 ?'1' 71.' -.16 5'E <'> ' ,E57% < ?1.<>' '' 5''
->1 5>'0.'4; ,4?' >.'?1. ; '47 ,<68 ?'1; .' =4 ,< ;1' <7
>.' / '<=4.1 5.' ; ,4?I 5 E,<7 '77'=<.1 5'' H1'<; .' ?'1
7,46 5.6 ;>7>6 '5'' 7, 68 'E < >.'E' 1.%?.1>1.'5''7>7.''4@
; : .E6 >.6 ?'71 ,7.6I 1.67.'2 6'-, 1 .<; ,1.'6 '5.6 71,4?.6
=4 , ' .<-.11'' ; ,<71.' .4@<.'6.1,<7 ?'6 ?547 7 > 6?, '
6>.6 '' ?1.<>1.'5.41 ?'17 '=4 ''5.6 ,Y / O'751.N '466 '5.'
?1,Q.7 .67 5 > . / ?7,V.1 ?1 <; ?'5. / .<7 ?,41 ; .77.'
.@?>> 7 ,< >.6 55. / '<>6 >4 E,<>' >.' 5'' ! .1 / '< .%
,46 ' -,<6 ; '?546 .416 '1 67, ;1'7.6 E1'< ' 6 =4 ' > '
1 J.<7 '' ; .7> 1>'5.6 -4.6 >4' ; '0 <.7 >.'5''B'V.8 <,'
7' < <.<7 % K'E.<7 <8 =4 '<.'>,47.'?'6 >4'64 ; ; 8 .7
=4 ' '<<,<; .' 5'' ; ,<71. 1>-,5<7 ,< ?,41'5'' E < > ' ,>7
?1, ; : ' % ; ' '' =4.5= .6 6. / ' <.6 <,46 '55,<6 -, 1
4.' <7>1.66'<7I E 6.'?1>?'1.'=4.5=4.' ; : ,6.'2' / 6M
7.1>' / '641'5.6 'EE' 1.6 >4'?'V6% < .67 ; .17' <'4Q,41M
> :4 '=4.' ; .'6,<7 5.6 ,4-<.16 / >. ,<7.<76 =4 ,<7 / 6
5.'E.4 '4@ / 'J'6 <6 >.' 7'7I 5'' ?.17.' .678 ; , / ?7.'
E' 78 >.' 9 / 55 ,<6%

$

=< ' ' '% L ' ' ' ' ; E

"

' / .++ ' '

8 ' ' ('$

' ' ' # ' ' K 'C*' K %

' ' ' ' ' ' & ' ' #
' '

" " " % '<6 5.' ; '6 ,>'5'' ; , / / 4<'47>'1>;5' / '<7.'
1.E46.1' 7 >.'E' 1.'5''>>;5'1'7 ,< ?1.6 ;1 7.'?'1' '17 ;5.'
?1. ;>>.<78 ,4 5,16=4.' '> / < 671'7 ,< ,4'>1.;7, 1.'
>.'> 67 ;7 '41'' >>5 0>1>'=4.'5''1>;5' / '5 ,< < .67 ?'6
E,<>>.8 '> / < 671'7 ,< >4' >>?'17. / .<7 ,1>,<<.1''
> '0,1>'5'' 5.->.'>4'?5'< >.'5'' ; , / / 4<'47>8 .7 <, / '
/ .1'' .<64 7.'>.4@ .@?.176 ?,41 ?1, ;>>.1 '' 4<.'>-''
54'7 ,< >.'6,< 1.-.<4%
" " " % ,47.6 5.6 E, 6 =4.' ?'1 5.6 ; ,1?6 '> / < 6 '
71'7 E68 5'' 5.V>.' > 4<'?5'< 6.1'' ,1>,<<>.8 .55.' 6.1''
E' 7.'6,<6 5'' 641-. 55'<; .'>.' <J>< .41 >.6 ?, :76 .7
; : '466>.6>4' >>?'17. / .<78 64 -'<7 5.6 1>J5.6 =4 ' 6.M
1,<7 ?1.6 ;1 7.6%
" " " % .6 ,EE ; .16 / 4< ; ?'4@ <, / / .1,<7 >.6
; , / / 66' 1.6 ?,41 >,<<.18 2 ; .54 '=4 '6.1'' ; : '1J>'>.'
5'' 5.->.'>4'?5'<8 7,46 5.6 1.<6. J<. / .<76 .7 6. ; ,416
<>; .66' 1.6% ,1 J <'5>4'?5'< 6.1'' >>?,6>'4' >>?'1M
7. / .<7 8 .7 5.<'6.1'' >>?,6>'>.4@ ; ,? .68 4<.' '4'>6M
71 ;7 8 '471.' '5'' / 4< ; ?'5 7>%
" " " % .6 .@?.176 ?1.<>1,<7 6,46 5.41 1>; .? 66.8
'4 6. ;1>7'1 '7>4'>.?'17. / .<78 5.'?5'<'>4'7.11 7, 1.'>.'
5''; , / / 4<'47>8 .7 6,< / > / , 1.' .< 1>;5' / '7 ,<'-.;
5.6 ? . ; .6 V Q, <7.6I 5.'>>?'17. / .<7 E @.16 5.'Q,41 >.'
5.41 >.6; .<7.' 641 5.6 5 .4@ .7 .< <E,1 / .1''5.'>1. ;M
7, 1.'>.'> 671 ;78 ?,41 =4 5 . '6, 7 >,<<>' '-6 2 5''
; , / / 4<'47>'1>;5' / '<7.' .7 2 ; .55.6 =4 ' '-, 6 <. 7%
' " " " % .' > 1.;7, 1.'>.'> 671 ;7 .7 5'' ; , / / 4<'47>'
1>;5' / '<7.'<, / / .1,<7 ; : ' ;4<'>.4@ ; , / / 6%6'1.%68 .7
5.6; , / / 4<'47>6 ; ,<7 J4.6 ; : ' ;4<.'4<8 ?,41 >,<<.1
'4@ .@?.176 5.6 <> ; '7 ,<6.7 5.6 '471.6 1.<6. J<. / .<76
=4 ' 6.1,<7 >. / '<>>6I 5.6 >.4@ ; , / / 66' 1.6 >.'5''
; , / / 4<'47>' 1>;5' / '<7.' 1.?1>6.<7.1,<7 / / .' 5''
/ '71 ; .'>4'1>Q.'>.'5.41 ; , / / 4<'47>8 6 .55.' .6V>.'
/ '<>>.%
" " " % '> / < 671'7 ,<>4' >>?'17. / .<7 ?1,<, <'
; .1''466 7>7'?1>65''1. / 6.'>4' ?1, ; .6 -.10'58 .< ; ,<'
E,1 / 7.'>.' '-6 >.6 .@?.1768 .7 .55.''>1.66.1''6''>.M
; 6 ,< '4'>1.;7, 1.'>.'> 671 ;78 ?,41'5''71'<6 / .771.' ''
5'' / 4< ; ?'5 7>8 5'=4.55.'6.1''7.<4.'>.'5''E' 1.'?405 .1
>'> / '<; : .'64 -'<7%
" " " % ,47.6 5.6 E, 6 =4 5 '41'' >7>'?1, ; >>>'5''
5.->.'>4'?5'< > 4<.' ; , / / 4<'47>8 .7 '' >-'54'7 ,<'>.'
6,< 1.-.<48 ?'1 .@?.176 <, / / .6 ?'1 5.6 >>?'17. <.<768
.55.'<.'?,411''>71.' ; ,7 6>.'=4 .< ; ,<E,1 / 7>'>.' ; .77.'
>-'54'7 ,< ?.<>'<7 5.6 =4 <0.' '<<>.6 64 -'<7.68 ''
/ , <6 =4 ' -'<7 ; .77.' >?,=4.' 5 <.'6, 7 ?1,.>>>''5''
5.->.'>4'?5'< >4' > 671 ;78W7 '' >-'54'7 ,< J><>1'5.>.'
7,46 5.6 1.-.<46 >.'6,< 7.11 7, 1.%

' ' ' '! ') '

" " " % .6 >. / '<>.6 .< 1.>4;7 ,<>.'5''?'17 >.6
> 67>.76 6.1,<7 E,1 / >.6>'<6 '<<; . .7?'1'>.5 0>1' '
7 ,<>4' ; ,<6. 5& '>4'> 671 ;7N ; .77.'>.5 0.1'7 ,<8
'-.;'5.6 ? . ; .6 '4 6,47 .<8 6.1'' '>1.66. ' '' '> / < 6M
71'7 ,<>4' >>?'17. / .<7%
" " " "% .'> 671 ;7 6.1''7.<4'>.'Q467 E .1 ' -, 1 / 6
6.6 1>5.6 .< 1. . ,<-1. / .<7 '4@ .?,=4.6 E @. .6 ?'1'5''
5, 8 6 '<6 1 ' ' 1.;5' / '7 ,< <.'6.1''?'67 '> / 6.8
" 8 ' / . / , 1.' ,4'5'' >.5 0.1'7 ,< ?,17 / 7 1. ;7' '
<'7 ,<6.1''.<1.J 671>.''4 6. .1>7'1 '7 >4'>>?'17. / .<78
=4 ' ; , / / << =<.1'' 5'' >. / '<>.' 44@ '471.6 > 671 ;76
?,41 >,<<.1 5.41 '-6 641 5''1>;5' / '7 ,<%

" % .6 '>/ < 671'5 ,<6 >.' > 671 ;7 ?,411,<78
'1'<7>.'>,<<.1'5. 1''- 68<, / / .1'>.6 ; , / / 66' 1.6
?,41'- 6 7.1'5.'7.11 7, 1.'>4'> 671 ;71>;5' / '<7>'<6'5.'
>>5' >.'>.<@ / , 68 .7 ?1.<>1.' ; ,<<' 66'<;.'>.6 / 'M
71 ; .6 >.6 1> .6 >.6., / / 4<'47>6 >.' ; .'> 671 ;78 5.6 '
=4.55.6<.'?,411,<7.<1.E46.1'5'' ; , / / 4< .'77,<%
" ' .6 >>5 0>1'7 ,<6 .7 ' - 6 >.6 > 671 ;76 6.1,<7
'>1.66 ' ' 7 '>/ 4 671'7 , '>4' >>?'17. / .<78 =4 ' >>_
0 1;1'6415.7,47%
" ' ,16=4.' '>/ < 671'7 ,< >4' >>?'17. / .<7
'41''1.;4<<<=49'5''1>;5' <'7 ,<.67Q467.8 .55.'.<-.11''
6''>.; 6 ,< '7,46 5.6 > 671 ;76%
" % ,16=4.' 1'>/ < 671'7 ,< >4' >>?'17. / .<7
'41'' >>5 0>1>=4.' 5'' 1>;5' / ' ,4'< .67 E,<>>.'=4 .<
?'17 .8 .55.'E.1'' ; ,<1 ' 71.'6,4 '11 7>' '4'> 671 ;71> '
;5' / '<78 =4 '6.1'' 7.<4' >.'>>;5'1.1'6 5'>0>1.' ,4'<,<
'' '11>7>8 .7>'<6'5. ; '6> ' >6 ,< '11>7>' 6.1'' ?4 '
05 >.7'41''6,<.@>;47 ,<%
" % '<6 5.' ; '6 ,>'5.'> 671 ;71>;5'4 '<71.E46. '
1' 7>.' E' 1.'5'' >>;5'1'7 ,< ?1.6;1 7.'?'1' '17 ;5.'?1> '
;>>.<78 ,4'5,16=4.' '>/ < 671'7 ,< >4' >.?'17. <.<7
'41'' >.5 0>1> =4.' 5'' 1>;5' / '7 ,< < .67 ?'6 E,<>>.8
1'>/ < 671'7 ,<>4'>>?'17. / .<78 >'<6 4<.'6>'<;.'?4 '
05 =4.8 E.1'' 7 1.1' '4'6,17 4<.' ; , / / 4<'47>'?'1' ; : '=4.'
; '<7,<>4'> 671 ;71.;5' / '<78 .7 ,1>,<<.1''5''5.-.'>4 '
?5'<>.' ;0';4<.'>.' ; .6 ; , / / 4<'47.68 ; ,<E,1/ >/ .<7
'4@ 1.J .6 ?1;6;1 7.6%
" % .'>1.;7, 1.'>4'> 671 ;71>;5' / '<7.7 5.6 ,E '
E . .16 / 4< ; ?'4@ >.6 ; ,1' / 4<'47>6 >,<7 5.6 ?5'<6
>.-1,<7>71.'5.->68 <0 / / .1,<7>.6 ; , / / 66' 1.6 ?,41'
>,<<.1' '' ; .54 '=4 ' 6.1'' ; : '1J>' >.'5''5.->.'>.6 ?5'<6
7,46 5.6 1.<6. J<. / . 76 .7 6. ; ,416 <>#.66' 1.6% .6
,1 J <'4@'>.6 ?5'<6 6.1,<7>.?,6>6 '4' >7 ?'17. / .<78 .7
5 .< 6.1'' > ?,6>'>.4@ ; ,? .68 4<.''4'> 671 ;7 .7
'471.' '' ; : '=4.' / 4< ; ?'5 7V%
" % 466 7E77 '?1.6 5'' 5.->.'>.6 ?5'<68 1'>/ M
< 671'7 ,<>4>V?'17. / .<7<, / / .1''>.4@.@?.176 ?,41'
?1, ;V>.1' '' V-454'7 ,< >4' 1.-.<4'>.6 ; , / / 44'47V6
' ,<7 5.6 ?5'<6 '41,<5 V7.'5.-V6I .55.5.41'E.1''1. / .771.'
5.6 ?5'<68 5'' >. / '?>.' .< 1 5' <'7 ,< W7 ? .; .6 V
, <7.6I .55.'5 @.1''%5.' Q,41'>.'5.41' >.6;.<7.641'5.6
5 .4@8 .7 ;<>,<<.1''- 6 '4'> 671 ;71V;5' / '<78 .7 '4@
>.4@'> 671 ;76 5.6 ?546->6 <68 =4 '<, / / .1,<7 ; : ';4<
<< ; , / / 66' 1.' <,41' 71.' ?1V6.<7 '4@ ,?.1'7 ,<6
>.6 .@?.1768 .7 5' 1.' 5.6 < 6 7 ,<6 =4 56 ;1 1,<7
47 5.6%
" % .'1.-.<4'<.7>4'> 671 ;76.1'' ; '5.4 V>' '
?1 6 1V-'54'7 ,< E' 7.'>.' ; .54 '>.6 ; , / / 4<'47V6 *A
1 E V.68 >'<6 5'' ?1,?,17 ,<>.'5.41'=4,7. ?'17 '-. ; '5.'
; ,<7 <J.<7 JV<.1'5 >4'> 671 ;7% 8
" "% '>/ < 671'7 ,< >4' >V?'17. / .<7 ?1,<,< '
; .1'' '<66 7>7 '?1 6 5.' >>?>7 >.6 ?1, ; 6 -.10'4@8 .<
; ,<E,1/ 7V>.' '- 6 >.6 .@?.1768 .7 .55.'E.1'' ; ,<<' 1=
6''>.; 6 ,< '' 7,46 5.6 > 671 ;76%
% ,47.6 5.6 E, 6 =4 5 '41'' V7>?1, ,V>V8 641'5''1V '
;5' / '7 ,< > <<> 671 ;78 '' c''5.->.'>4' ?5'<> 4<.' ; , / \
/ 4<'47V ?'1' ; : '=4.' ; '<7,<8 .5 '1V-'54'7 ,< >.'5.41'
1.-.<4' ?'1' .@?.1768 5.'> 671 ;7 <.' ?,411'' 71.' ; ,7 6>
=4 .< ; ,<E,1/ 7V>.; .77.V-'54'c ,<8 ?.<>'<75.6 - <J7
'<<V.6 64 -'<7.68 '' / , <6 =4 '-'<7 ; .77.'V?,=4.' 5'<.'
6, 5 ?1, ; .>.' ''4<.'?'1. 55.'.-'54'7 ,< ?, ,1'5.6 '471.6
> 671 ;76%

% - 0 ' 5

8 '<6 7,46 5.6 ; '6 4 : ' 5 '41''>7>'<, / / V >.6 .@M
?.176 8 5.6 ?'17 .6 <7. 1.66..6 ''5'' 1V;5' / '7 ,<6.1,<7
7.<4.6> '>1.66.1'5.416 / ,V.<6>.'1.?1, ; : .68 6 .55.6
.< ,<78 '4'> 1.;7, 1.'>.'> 67 ;7 ,4'>.' >>?'17. / .<78
'-'<7 5.'Q,41' @V ?,41'5''>.6; .<7.'>.' ; .6 .@?.176%
5% ' ?1, ;V6 -.10'4@ > .@?.156 6.1,<7 1>> J '
64 '-?<7 5.6 / ,>05.6Q, <76 '4'?1>6.<7>V;1.7I'5.6 .@?.176
5.6>1.66.1,<7641'5.6 5 .4@I 5.6 ; , / / 66' 1.6 .7 5.6 1V\
;5' / '<76 6.1,<7 7.1?.55>6>.'5.6 6 J<.18 ; 76 56 6 V
1.E46.<7 5 6.1'' E' 7 / ;<7 '< >.'5.41'1.E46%#.6 ?1,

; .6 -.10'4@ <.' 6.1,<7 6,< / 6 < ' '4' 7 / 01.' < ' ''
.<1.J 671. / .<7% ,1 J <'5 6.1''>V?,6.''4'6. ; 1V7'1 '7
>4' ; ,1?6 '>/ < 671'7 E =4 ' '41'' ,1>,<<V 5.' ?1, ;V6 '
-.10'58 .7 5 .<6.<'1. / 6 >.6 ; ,? .6 '4@ > 671 ;76 .7
'4@ / ,< ; ?'5 V68 ?,41' ; .'=4 ' 5.6 ; ,< ; .1<.%
'' ' .6 1V>4;7 ,<6 ' ; ; ,1>..6 6.1,<78 ?,41' '<<V.'
1'<7.8 / ?47..]' 641'5.' E, ,>6 >.6 <,< ?5.4168 .7
1.Q.7..68 5,16 >.'5'' ; ,<E.;7 ,<>''19 .'>.'1'<<..'64 '
-'47.8 641'5.6 '471.6 .,<71 04'05.68 ; , / / 4<'47V6 ,4'
> 671 ;768 64 -'<7 5.6 ; '6 .@?1 <.6 '4@ '17 ;5.6 8 ' .7
'>4' 5 71.' '>.'5''5, '>4' 5.1'>V; . / 01.' (* 8 ; ,<'
..14'47 5'' ; ,<71 047 ,<E,<; V1.%
% .6 E1' 6 >.' 5.->.' >.' ?5'<68 >.' / .641'J .7
>.@?.17 6.'6.1,<71VJ5V6 '4' ? .>' >.6 ?1, ; .6 -.1?'4@
?'1'5.6 ; ,1?6 '>/ < 671'7 E6 =4 '5.6 '41,<7 ,1>,<< 6%
% '<6 5V ; '6 >.' 1V;5' / '7 ,<>.6 ; ,5 71 4'05.6
; ,<71.' 1>-'5>'7 ,< E' 7.'?'1'5'' / 4< ; ?'5 7V >.' 5.41'
; , / / 4<'47.8 5.6 E1' 6 >.6 ?1, ; .6 -.10'4@5.6 ; ,< ; . '
<'<7 6.1,<7 6'??,15>6 ?'1'5.6 1V>' / '<768 6 '5.41'>.M
/ '<>6 .< 1V;5' / '7 ,< .671.Q.7V;%
E% .6 E1' 6 '4@=4.56 '41'' .7V ; ,<>' / <V5.' ; ,<'
71 04'05.'6.1,<78 '' >VE'47>.'?' . / .<7>'<6 5.' / , 68
?,17V6?'1V / '1J. / .<7''6'' ; ,7.8 .76.61.-.<46 6.1,<7
'EE. ; 7.6 '4' ?' . / .47 >.' 5'' 6, / / .'V / '1J>.8 ; , / / ;
?,41'5'' ; ,<71 0<7 ,E' / / .8 .7 5 6.1''?.1?4' .<646 >.6
7'@'7 ,<6 > '?1.-.<4%
% .' / ,<7'<7>.6 E1' 6 '4@=4.56 6.1'' ; ,<>' / 8 '
<.. ' 4<.' ; ,<? <<'47V <.' 6.1'' ?'6 64??,17V ?'1' 5.'
?'17 ;45 .1' '' =4 ' 5'' ; , / / 4<'47.' '41'' ?,17V >4'
>, / / 'J.8 5 6.1'' V1''1JV 641' 5.' 1 5.' >.' 6'' ; ,<71 M
047 ,< E,<; V1.8 5.6 ; ,7.6 >.6 1. ;5' / '<76.@ ; .?7V.6I
/ ' 6 ; .6 . / '1J. / .<56 <.'?,411,<7 ; : '=4.' '<<V.'.@ '
.V>.1'5'' / , 7 V>4'?1 <; ?'5 >.'5'' ; ,<71 047 ,<%
% 8 > '?1V6 5'' -V1 E ; '7 ,< ,1>,<:..' ?'1'5.'
>.?'17V / .<78 641'5''1. ;5' / '7 ,<> 4<> 671 ;78 6''>. '
< '<>.'.671.Q.7V.8 5.6 E1' 6 >.6 ?1, ;V6 '-.10'4@ 6.1,<7
64??, 7V6 ?'1'5.'> 671 ;78 .7 1V?'17 6 '<<V.' 64 -'<7.'
641'7,47.6 5.6 ; , / / 4< 47V6%>4'> 671 ;7%
"% '5'' / ,>V1'7 ,< .67 ,1>,<<V.''4'?1,E 7>4'> 6M
71 ;78 5.6 E1' 6 6.1,<71>?'17 6 '4<V.'64 -'<7.'641'5. '
'471.6 > 671 ;76>4'>.?'17. / .<7%
+ ' 41'5.'1'??,17 E' 7 ?'1' % #' / 468 66. / 05V.'
'>,?7.'5.6 >V.1.76 64 -'<76%
8 ' (' 66. / 0 VE.'<'7 ,<'5.8 ,4 5.'1'?
,17>V 6.6 ; , / 7V6 >.6 1'??,1768 >.6 7<'<; .6 V7> ; '
.@71',1> <' 1.8 >V;1V .N 8
17% SW $% ,47.'?.16,<<.' '' =4 ' ,< ?1V6.<7.1'' .<
?' . / .<7 4< '66 J<'7 646?. ; 7 >.' E'4@8 6417,47 4<'>.6
'66 J<'76 >.' C8 ' 5 -%8 > '? V6 5.6 ; '1' ; 7V1.6 =4 ' ,<7
V7V 1.<>46 ?405 ; 68 6.1'' 7.<4.'> '55.1''466 7#7 . 'E' 1.'
6''>V;5'1'7 ,<8 ' '1 68 '4' ; , / 7.'>.'?,5 ; .'>.'5''6. ; '
87 ,<I ; ,16 '1 68 '' 5'' / 4< ; ?'5 7V>4'5 .4'>'<6 5.= .5
,< 54 ' '41'' , E.17 5.> 7 '66 J<'7%
% 8 .'?,17.41'> '66 J<'7 646?. ; 7>.'E'4@ =4 ' ' 1''
, E.17 .< ?' . / .<7 6.1'' 7.<4' ' ' ; ; , <?'J<.1'5'' ?.1M
6,<<.' ' =4 5 '41'' , E.17 5.> 7 '66 J<'78 >.'E' 1.' 6''
>.;5'1'7 ,< >.'5''?.16,<<.'>.'5'=4.55.' 5 ''1; V4' '6 '
J<'7 646?. ; 78 6 5 5'' ; <<'578 .7>.'1. / .771.' '66 J<'7
646?. ; 7 '?1.6 '-, 1'?'1'? : . 8 ?,41'=4 5 6, 7.<-,V>
'5'' ; ' 66.'>.' .@71',1> <' 1.8 ,4 5 6.1''-.1 E VI 5 V
1.67.1'' .< >>? 7 655' .671. ; , / / 'E'4@I 6 'H'66 J7 '7 .67
1. ; ,<<4'0,< 5 6.1''1. / 6 '4'?1,?1 .7 1.%
% ,16=4.'>.6 '66 J<'76 646?. ; 76 6.7,47 ?1V6.<7.6
.<?' . / .<7>'<6 5.6 ; ' 66.6 ?405 =4.68 5.6 71.6,1 .16
,4 # ' 66 .165.'E.1,<7 ; ,<>4 1.'641 . ; : ' / ?8 6, 7'4'
; , / 7.'>.'?,5 ; .'>.'5''6. ; 7 ,<8 6, 5 ''5'' / 4< ; ?'5 7V8
'<6 '=< 5 .67 > 7 .< 'E7 ;5.'?1V; .>.<78 ?,41'=4.'5.41'
>V;5'1'7 ,< V 6, 71.V4.8 '66 J7 '7 ?'1'? : . .7>.?,6.%
% '<6 5.' ; '6 ,4' ; .54 '=4 ' '41'' ?1.6.<7V 4< '66 M
J<'7 646?. ; 7 >V E'4@ 1.E46.1' 7 >.'6.'1.<>1.''4' . , '
/ 7.'>.'?,5 ; .'>.'5''6. ; 7 ,< ,4' '' 5'' / 4< ; ?'5 7V8I.7
>.'?1.6.<7.1' '66 J<'7 =4 5 '-' 5 ,EE.17 .< ?' . / .<78
5.' ; , / / 66' 1.'>.'?,5 ; .' ,4' 5 < >.6 ,E ; .16 / / ;

?'4@ ;:'1JWS '>.'5''?,5 ;.'6.1,<7'47,1 6>6 "6.'71'<6M ?,17.1''<'', / >5.'_5W ?,17.Y1'> '66 J<'7 646?.;78 " E' #15'<6 6.6'?'? .16'7.55.'cP.1=' 6 7 ,<=4 56;1, 1,<7 < ;.66' 1.8 .7" '6 18], 7 ;6 '66 J<'76 646?.;76 =4 56 R'71,4-.1,<78 6, 5'7,46 '471 ['?'? .16 =4 '?,411' .<7 .71.'1.5'7 E6'6 <4.E'01 ;'7 ,<'> '66 J<'76% %N

.'?1.6.<7>>;1.76.1" < ?1 < .' .7.<-,V>'2 7,46'5.6 >.?.17. / .<76%

66. / 05..'<'7 ,<'5.'>>;1>7.' Q4 5' 6.1" E'01 4>'>4 ?'? .1'?,41' / ?1.66 ,<'>.6 '66 J<'76>.0 ' 1%?,41'?1,> 1.'.<'66 J<'76>.'5' ' > 7.'_4'5 7>'5"6, / 1'.'>.'"-.<7.' / 55 ,<6>.'5 -1.68 5.6 =4.56 6.1, 7>.67 :>6.7 4< =<. / .:7. / ?5,V>6 2 1.7 1.18 ?'1'5"V, .'>.' .;:'<J.8 "5" ;' 66.', .6;, / ?7.8 >.6 '66 J<'76>.' 8 ' 1%

< ' ' 66.77 05..'<'7 ,<'5.8 ?4F5.' 1'??,17>.'6,<;, / 5.';.<71'5>.'5 =4 >'7 ,<8>.;1.7.N

17% D % .6 ;1>' ; .168?,17.416>.'5 71.6 'V'<7 4<.' >'7.';.17 <.8 '<7.1 .41.''4' U Q4 4'>.1< .18 .7 1.<>46 .@.;47, 1.68 .<E' 6'<7 5.6 E,1 / .6 5.J'5.6 ;,<71.'5.6 ?.16,<<.6 '06.<7.6 >4 1,V<4 / .8 ' <6 '=4.'5.6 ,4-1 .16 .7 E,4E< 66.<16 =4 ' Q465 5 .1,<7>.'71'-'4@ .7 E,41< ' 741.6 E' 7.6 ?,41 5.6 '06.<768 '-'<5'5" / E / .'>?,=4.8 .7 =4 ' '<1,<7 E' 7 ?1,<,<;;1'?'1'Q4J. / ;<7 641'5.416 >. / '<>.68 6.1,<7 ?'V>6 >.' 5.=16 ;1>'<;.6 6 1 5.6 6, / < .6 >4.6 ?' G 7'7 "5.416>>0 7.4168 .7.;:4.6 '-'<7 '>7.'.?,=4.'>4 U Q4 < (* 8 ?,41;'46.''471.' =4.'?,41 ?.<6 ,<6 ,4 71' 7. / .<76 ?,67>1 .416 '4 ?1.M / .1 '<- .1 (* %

% .6 ;1>'<; .16 / .<7 ,<<>6 .< '17 ;5.'?1>;>>.<7 <.'?,411,<7 7.' ?'V>6 =4.' 6,46 5.6 ;,<> 7 ,<6 64 ' -':5.6N8)

,' 6 6.1,<7 7.<46 &1'E<1 / .1 5.416 ;1>'<;.6 6 < ' ;>1.6 .7 >1 7'05.6>.-'<5 5.'71 04<'5 >4'> 671 ;7 , 5 56 6.'71,4-.1,<7%

' 76 Q467 E ;1,<7J4.5.6 / ?,6 7 ,<6 .7 ;,<71 04M 7 ,<6'?'5E ,5 = .68 " 5" ;:'1J.'>.'5.41>>0 5.418 ,<7 >>';=4 77>.68 .78 >'<65.';'6 , ';.77.'Q467 E ;'7 ,<'<.' 6.1' 7 ?'6 E' 5.8 B>.1'.<1.1'8 ?'1 E,1 / .'>.' ;'47 ,<' <. / .<7 8 .<71;' 5.6 / ' <6 >.6 71>6,1 .16 .7 ?'V.416>.'

7'78 '<'> @7> / .'>.6 6, / / .6 .7'';:'76 "?'V.1% .' > @ E. / .' 1>6.1->' 6.1" 1. / 6 5,16=4 ,<'Q467 E .1" >4 ?' . / .<7>.6 / ?,6 7 ,<6 .7;,<71 047 ,<6%

T .6 ;1>'<; .16=4 ' - ,4>1,<7>71.'?'V>6 Q467 E . ' 1,<7 <> - >4.55. / .<7 =4 56 ,<7 6'7 6E' 7 '4@%;,<> M 7 ,<6 1.=4 6.6 ?'1'5.6>>;1.56>.6 U .7 C('Q4 <'>.1< .1%

% .'71>6,1 .1'>.'5" / ' 6,<'>.' .6>' / .68 7'<7.6 >55 1, 8 .67 '47,1 6>' " 7,4;:.1 '11 >1>' 5 = 5>>'?,41 5.6 > EE.1.?7.6 ?'17 .6 >4.6 "5" / ' 6,<'>.' .6>' / .6 .7 >;04.6 '-'<7 5.' CU Q4 <'>.15 .1I .7'' > 671 04.1 5.6 5 7.6 6, / / .6 '4@ ,4-1 .168 E,41< 66.416 .7 '4@'> ' -.16.6 ?.16,<<.6 . / ?5,V..6 >'<6 5.6 .7'76>.'5" / ' 6><' >.' .6>' / .68 6> 7.6 ?.16,<<.6 .7'<7'';74.55. / .<7 .< H1'<;.%

% ' >J'1>' >. ' ;1>'<; .16 >.' ,<6 .41 .7 >. % > 17, 68 5.6 71>6,1 .16>;6> 7.6 / ' 6,<6;,<7 <<.' 1, 7 "1.;.-, 1 " 5" 71>6,1.1 .'1'7 ,<'5.' 5.6 6, / / .6 ,1>,<<>.6 ?'1'5.'>>;1.7 >.6 C ' .7 C '>>;. / 01.'>.1M < .18 .7 . / ?5, '>.6> 7.6 6, / / .6 6.1"E' 7>.'5" 7<' ' <7%1.'64 -'<7.I

" 6, / / .'>.' 8 '5 -% ?'1''<<>.''771 04..''4@ ;1;'<; .16>.8 ,<6 .418 .7 5.'E,<>6 '<<4.5>.6 1.<7.6 -'J>1.6 ';;,1>>'4@;1>'<; .16>.' G > 17, 68 6.1,<7 ;/',5,->6' '?' . / .<7>.6> 76 ;1>'<; .16 '4@ 7.1 / .6 >4 >.;1.7% $% %

"6, / / .'> 4< / 55 ,<'771 04>.' ' ;:#;4<'>.' ,<M 6 .41 .7 % > 17, 6 6.1'8 "5 71.'>.'71' 7.1'.<7'<<4.58 . / ?5,V>6?>; '5. / .<7'4'?' . / .<7>.6 ,EE ; .16 .7>, ' / .67 = .6 >.6 / ' 6,<6 >7'<7 ';74.55. / .<7 >'<68 5.' 1,V'4 / .8 7'<7 J4.'5.416 ;:'1J.6 <.'6.1,<7 ?'6 64? ' ?1 / . .68

"6, / / .'> 5 < / 55 ,<'771 04>.'";:'. / '>.' ,<M 6 .41 ;7 %> 17, 68 "5 71.>.1.<5.'?'<'J.1.8 6.1'. /

?5,V>."?'V.1'5.6 ;1>'<; .16>;' ,<6 .41.5>. %> 1' 7, 6 = ' 6.1' .<7 ?,17.416>.'5 71.6>;' "<'741.' / .<' 7 ,<<>.'>'<6 '17 .5.'?1. / .18 ' <6 '=4.'5.6 ,4-1 .16 % .7 E,41< 66.4168 5.6> 76 ;1>'<; .168 ,4-1 .16 .7 E,41' < 66.416 >7'<7 >'<6 5.'1,V'4 / .I .55.'6.1" ' 66 . / ' ?5,V>.'"?'V.1'5.6 ,0Q.76>.'>>?.<6.';,41'<7.'>.' .<' 71.7 .<'>.6 / ' 6,<6>.' ,<6 .41.7>.' 8> 17, 6>4<6 5.'1,V'4 / .%

% .6 71>6,1 .16>[> 7.6 / ' 6,<68 .7 5.6 6>=4.651.6 ,1>,<<>6 ?'1' 5.' >>;1.7>.6 C ' .7 C '>>;. / 01.'>7'<5 >7'05 6 ?,41'5.'?' . / .<7>.6 ;1>'<; .16>.' ,<6 .41 .7>.' % > 17, 68 Q467 E .1,<7;:'=4.' / , 68 '4@;,<' / 66' 1.6>.'5" 71>6,1.1 .'<'7 ,<'5.8 .7 '<@ ;, / / 6' 6' 1.6 >4';, / 7>'>.6 E <'<;.6 ;:'1J.'>.'5"641-.55'<;.' >.'5" 71>6,1.1 .8>.6 ?' . / .<76 =4 5]'41, 7 E' 56 ;< ;,<E,<< 7>'>.' '17 ;5.'?1.;.>.<7I 56 6.1,<7 1.6?,<' 6'05.6 >.6 ?' . / .<76 =4 56 '41' .<7 E' 56 .<;,<71'' -.<7 ,<'4> 7 '17 ;5.8 .7;:'=4.' / , 6 561'??,15.1,<5 " 5' 71>6,1.1 .'<'7 ,<'5.'5.6 6, / / .6 =4 56 '41' .<7 1.E4.6 ?.<>'<7 5.' / , 68 .7 =4 ' < ' 1' .<7 ?'6 ?4>1.' ?'V..6 ;,<E,1 / . / .<7 '4@'> 6?,6 7 ,<6 >4 ?1.6.<7'1M 7 ;5.%

8 % .6 ,??,6 7 ,<6= .'5.6 ;1>'<; .16>.' .6>' / .68 >.' ,<6 .41 .7 % > 17, 6 '41' .<7 E,1 / ..6 ,4'! A 1' .<7 .<7 1.'5.6 / ' <6>.6 ;,<6.1-'7.416>.6 :V?,7:. ' =4.6 .7 E <'<;.68 .7>.6 ?'V.416>.6 1.<7.68 7 .<>1, 5 .<71.'5.6 / ' <6 >.6 71>6,1 .168 6>= .671.6 .7 'J.<76 >.6> 7.6 / ' 6,<6I 7,46 ;1>'<; .16 ?,411,<7 .J'5. / .<7 E,1 / .1'5.6 ,??,6 7 ,<6 ?,41 5.6 >1, 76 .<71;'5.6 / ' <6 >.6> 76 71>6,1 .168 6>=4.651.6 .7 'J.<76% %" 6 J< E ;'M 7 ,<'>.6 ,??,6 7 ,<6 <.'6.1" -'5'05.' =4 '47'<7=4 .55.' '41" .7;'-6..'>.';.4@ .<71.'5.6 / ' <6>.'=4 ' .55.6 '4' 1,<7 > >' E' 7.6I / ' 6 5.6> 76 71>6,1 .168 6>=4.651.6 .7 'J.<76 6.1,<7 7.<46 >.' 5.6 1.;.-, 1 .7>.'5.6 - 6.18 " ?. <.'>.'>. / .41.1'1.6?,<6'05.6 .< 5.416 <, / 6%

' 66. / 05..8 <7.1?1>7'<7.<'7'<7=4.'>.'0.6, <8 6.6 >>;1.76>.6 CU .7 C('Q4 <8 641 5.6 Q467 E ;'7 ,<6 " E' 1.'?'1'5.6;1>'<; .16>.' 7'78 ?,41 ,07.< 1'5.'?' ' / .'7>.6 6, / / .6 =4 '5.41 6.<7>4.68 >>;1.7.'1

D 34.'5.6 / ?,6 7 ,<6>,<7 .55.'.<7.<>'=4.'5.'?' .' / .<7 6, 5'Q<67 E >' 6,<7 5.6 / ?,6 7 ,<6 ?.16,<<. 5.68 >.6=4.55.6 5.'?' . / .<7 6.1"Q<67 E >8 ,4 ?'1'5.6 ;.17 ' E ;'76>.6 / 4< ; ?'5 7.6 ?,17'<7=4 .55.6 ,<7>7>'?'V..688 ,4 ?'1'5.6> 671 ;76>.6 5 .4@8 " 1.@;.?7 ,<'>.';.55.6 =4 '6.1,<7>>5 -1>.6 ?'1'5.6 1.;.-.416>.6 / ?,6 7 ,<6 >.' '1 6% 4 >.E'47 >.'1.?1.6.<7'7 ,<' '=4 7M 7'<;.68 5 E'<>1" Q467 E .1 =4 5 <.' 6.'?'V' 7 '4; / .' / ?,6 7 ,<'?.16,<<.55.'>'<6 5.' ' '7 ,<'-' 7 6,< >, / ;5.%

CD 34.'5"Q467 E ;'7 ,< 1.=4 6.'?'1'5.6> 76 >>;1.76 >4 ?' . / .<7>.6 / ?,6 7 ,<6>.' '<<>.' (* '.7'<<>.6 '<7>1 .41.6 6.1" 1.J'1>>.';, / / .'E' 7.';, / ?5>7.< .<7 ?'1'5" ?1,>4;7 ,<'>.'5" =4 77'<;.'>.6>.4@ >.1< >1.6 '<<>.6% %

555% .6 ?.16,<<.6 =4 '8 .<Q467 E '<7>' 55.416>%N 5.41'>, / ; 5.'';74.5 .7 :'0 74.5>'<6 5.'1,V'4 / .I'<.' ?,411' .<7 ?'6 Q467 E .1" <67'<7>4?' . / .<7>.'5.<1' / ?,6 7 ,<6 .5;,<71 047 ,<68 ?,411,<7 ,07.< 1'5.'?' .M / .<7>.';.'=4 '5.41 .67>48 .<'5' 66'<78 ?'1 E,1 / .'>.' <'47 66. / .<78.<71.'5.6 / ' <6>.6 71>6,1 .16.7 ?'V.416 4<'> @ . / .'>.';.'=4 .55.6 '41' .<7 "1.;.-, 1 ?,4E ;:'; <.'7.6 '<<>.6?,41 1 '.55.6<.'Q467 E .1,<7 ?'6>4?' . / .<7>.'5.416 / ?,6 7 ,<6 .7;,<71 047 ,<6% #.'> @ . / .' 1.7.<4 5.41 6.1" 1. / 6 .<'1'??,17'<7 >6 =4 77'<;.6>.6 / ?,6 7 ,<6 .7;,<71 047 ,<6 =4 '>7' .<7 >4.6% % % % %

N "% . '71>6,1 .16 .7 ?'V.416 '4@=4.56 5.6;.17 E ;'76 >.'>, / > ;'.7 5.6 =4 77'<;.6> / ?,6 7 ,<6 .5;,<71 ' 8 047 , '41,<7>7>'.@: 0 7 5.6 1. / .77 1,47 '4@'?'17 .68 2 5" ;:'1J.'=4 5 6.1" E' 7> '58>'<6 5" =4 77'<;.'>,<<>.' ?'17.6 ?'17 .6 ?1.<'<5.68>.;:'; 7 .'>.6> 7.6 ? .;.68 >.'5.41'>'7.'.7>.6 ?.16,<<.6 ?'1'5.6=4.55.6 .55.6 '4 ' $ 1,<7>7>'.@?>> . .68 ?,41 V 1.<-,V;1"4 0.6, <%"_

"% 7.6 ?.16,<<.6 :'0 74.55; / . 57>, 55 ; 5 ; # ' &5'5

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(" +.36+*-$'("8'+*. *,'+,$.(4.('('(*,(('%:

' ' 'P I' A O

% ! ,4>'1>' " E' 7 5.;741.' > 4<.'5.771.' '>1.66>.' "
%5.'?1 >.<7?'1' %>.' 55.<.4 .8=4'E' 7 :,< / ' '
" 6'. / 05 '4 44' 1' 7>' ;, / ?5.7>.'5"' ;45741.8'>.'5"
E'01 ;'7 ,<' .7 >.' 5" -.<7.' >4'7'0'.% '47.41' ,EE1.' '
66.< 05..>.>,<<.1'.<' ,4 ?' ' .@71' 7>.' .,<'
,4-1'J.8'6' 66. / 05 .'.<',1>,<<.'1 / ?1.66 ,<%
66. / 05>.'>>;1 7.'=4 5'6.1"' E' 7 / .<7 ,<' :,<,M
1'05.'>'<6'6,<'?1,;06 -.10'5'>.' ,4-1'J.'>.' 8' 5'
5.<.4-.8 .7=4.' .@71' 7=4 5'.<' ,EE1.'6.1"' / ?1 / >%
<' >.' ' 5.6' 6.;1.7' 1.6 E' 5' 5.;741.' > 4<.'
'>1.66.8'?'1'5'>4.55.'5.'71 04<'5'>4'?1. / .1''11,<> 6' '
;. / .<7 ;7K.' % ,5-.1.58' ' ' A' '

?.<><'>.'6.6'E,<;7 ,<6'?'1'5.'>.;1.' ' '.'Q.<> 8 .7'77.67.'
=4 5' " ?1>6.47>' >.?4 6'5.' ' / ' '71.<7. 4<.'1.=4 7.6'
'4' 71 04<'58'641'5.6=4.55.6'6,<7 <7.1-.<46'71.'7. 4<'
>.;1.76'> <E,1 / '7 ,<%
'$ '(, & '% ! ' ' ' !$4 $'& % & '%
& ' &
'$ " ' " .'<.'?.<6.'?'6'=4.' ' ,5-.1.5'>,-.'
71.'.<7.<>4% .'>>;1.7=4.'-,46' '-.0' 1.<>4' ' '
>J'1>' .67Q467.% 5'V' '41' 7' 5.'?546' J1'<>' >'<J.1' "
'11 7.1% .6'54J.6'>4' 71 04<'58'=4' '4 ,41> :4' ,<7
?1 6'5.'7. / ?6' .?1.6.<7.1?<.'1.=4 7.'.<E' -.41>.5 ';'
;46'7.41'?405 ;8'.41' .<70 .<' / .<@E' 7'>.6 ,;;4?.1'
"<,46'1.<>1.'5.';, / ?7.'=4.<,465.41' '-,<6'>. / '<>6'
>.'5"'?1,;.>41.'=4 '>, 7' '-, 1'>7>' <6714 7.';,<71.'5.6'
E'01 ;'7.416'>.6'E'4@'66 J<'76% .6'?1,;:6 -.10'4@8'5.6'
? .;.6'>.' ;,<- ;7 ,<' ,47'>7.'1. / 6'?'1'5.';, / 7.'>.6'
1.;:.1;:.6'5.' ' / ' % .' 'Q4 <' ';;46'7.41'?405 ;"
1.<>4'?5' <7.8' .7'>.?4 6';.'7. / ?6' 5' < " E' 7 .<7.<>1.'
'4;4<'>.6'7> / , <6'=4.'5.' ;, / 7.'>.6' 1.;:.1;:.6'54'
'-' 7' <> =4>6% >-><. / .<7 >4' ' '<' C 'Q4 <' "646'V'
?.4>4'5.6'71'-'4@'>4'71 04<'5I' .7 -, 5"'6,<';1 / .I'?,47
7,47 / 'J 671'7'?405 ;8'?,41'7,47 ' 3 ' ..7>->'
<. / .<7.7' 7'4<.1' 6,<'>.'?546'?,41'5.6'?,17.1' "';; '
5.1.1'5.;,416'>.'5"'Q467 ;.% .6' / <.7 ,<<' 1.6'?405 ;6'
;,<67 747 ,<<.56'<.'>.-' .<7 ?'6'> 1.'N 'E'47 -, 1' #.
=4 ' '11 -.1'% ,71.'>.;1.7 .67>,<.'Q467.I' 5'<.'E'47 ;'
<'J1>..'<';5. / .<;.% <'J1'<>'.@. / ? .'.67<.;.66' 1.%
,<6'5.6' ';;46'7.416'?405 ;6'>, -.45'6"-, 1'=4 5'.67>.'
5.41'>.-, 1'5.?546'1 J,41.4@'>.'E' 1.'1.<>1.'?1,<?7.'
/ .<7Q467 ;.' "7,46'5.6'; 7,V.<6% '5.6';;46.6'6,<7;,4'
?'05.68' 5' / ?,17.'=4 56'6, .<7 ?4< 68'5,16=4.' ;'6,4'
-.4 1'>.'5.41';1 / .'.67 .<;,1.'1.;.<7N 6 56' 6,<7 <<,M
;.<768' .67 4<';1 / .'=4.'>.'5.6'?1 -.1'>.'5.41'50.17.'
?546'5,<J7. / ?6'=4 5'< .67<.;.66' 1.%
'V' " .<';.' / , / .<7>.6''11.67'7 ,<6' '10 71'J.68 .7
;.?.<>'<7 5.6' ?.16,<<.6' ' <6' ' '11>7>.66,<7>.7.<4.6'
746=4 " ;.'=4 " '5" '64 7.'>.6' <6714;7 ,<6'?1.5 / <'1.6'
'?4 66.'>71.'1.<>4'>.6'>.;1.76'>.'?1 6.'>.';,1?6% '<7
=4 5'<V "?'6>.'>>;1.78'7,47' ';;46>' "5.'>1, 7>.>.'
/ ' >.1' =4.'6,<' 'EE' 1.'6, 5' <6714 7.8 ,4' =4 5'6, 7
>5'1J I' .7 ?.45 71.8 " ;.7>J'1>8' ,4'-,46'E.1"4<'Q,41'
>.6'?5' <7.6'71.6'6>1 .46.6% .'>. / '<>.'>,<.'=4.' ';'
;46'7.41'?405 ;8'=4 ' "<.J5 J.'6.6'E,<;7 ,<6'>4<.'<' '
< .1.' '466'>'<J.1.46.8<.'6, 7'?'6'.<7.<>48'?'1;.'
-,46' '-.0'>>Q"Q4J.% % AI
546 .416' / . / 01.6'??4 .<7';.77.' / ,7 ,<%
' ! ,4? %% ' ';;46.'.67'1.?1,;:'05.I' ' 'E'47
?'6'54 '>,<<.1'5.'?1>7.@7.'>.'>1.'=4 ,< " ,??1 / .I'
6 5'.67 <<,;.<78' 5'E'47 0''1.<>1.' 467 ;.8 8 '>. / '<>.'
=4 5'6, 7'.<7.<>4%
' 3 2%,, B$ '&& & ' ' ' !$4 $', %'%& ,' ' %
B%
F '8 ( )4 4 ,'?1,; ' / >8?'1'1 66. / 05>.<'5 , '
<'5.8'>'<6'7,47 .< ? 1.;, / / .4< / 'J 671'7';,4?'05.'
> 4<.'< 5 J.<;.'66.0'J1'-.'?,41'5.'1.<>1.'646?.;7>.'
?1.-'1 ;'7 ,<'>'<6'6.6'E,<;7 ,<6% .'-' 6'-,46'>1.'6 / '
?5. / .<7 ;.'= .Q ' '>7>';:'1J>'>.'E' 1.8';.'=<.'Q ' '?4'
5' 1.8 .7';.'=4.'Q ' 'E' 58' 1, 6'E'01 ;'7 ,<6'>.'E'4@'6M
6 J<'76',<7.7>1.<-,V>.6''4'71 04<'5'><'?1. / .1''11, '
> 66. / .<7>4'>>?'17. / .<7>.' '1 68'?,41'V' 71.'?,41'
64 - .6'.7Q4J>.6% 4<.'>.';.6'E'01 ;'7 ,<6''>7>';, / '
/ .<.>.' " '1 68' ,:'6.6''47.416' ,<7 >7>''11>7.6I' '<71.'
">>'.@>;47>.' ,4'6,<' .@.;47 ,<' " >7>' ;, / / .<;..' "
,<>1.68'.7'5.6'?1>-.<<6' ,<7 >7>' '11>7>6' " ,<>1.6N'5"
71, 6 > / . " >7>'>>;,<-.17.' ' / ,J.6% .'?'17 1' 'EE' '
0,1>'>.'5'?1. / >1.8';'1' 5'?'1' 7'=4.' . .67 >'<6@.77.'
?1. / >1.'6.45. =4.'Q.'64 6' ;.'1J>%
.6'? .;.6'>.';,<- ;7 ,<'.7'>.'?1,;.>41.'>.';.77.'?1.'
/ >1.''EE' 1.',<7>7>'1. / 6.6' '<'71 04<'5'?'1'5.';, / 7.'
>.6'1.;:.1;:.68'6 ;0.66 -. / .<7 5.6'C(8' ' .5' 7' / "
#, / / .';,6'?>..6'E' 6' .<7 5" 0'6.'>.' 5"'?5' <7.'8'Q.'
< ' '?4' / ,;;4?.1'?546'7 7>.'5"' 1.>';7 ,<'>.';.77.'
?5' <7.%
.' 'Q4 <' / "?5' <7.' " >7>' 1.Q4.' '4' 71 04<'5% 46

=4. '' Q.' <.'?.<6;'?'6=4 ,<'?4 66;' / ';;46.1' >.'<>' J J.7 ;.% .' *' 5.6' <7.11,J'7, 1.6,<7' ;, / / .<;>N 5' V' ''; <=' ';;46>6% #.6' <7.11,J'5, 1.6'6.<7'71 '5,<J6'.7 1E.6' ,5' / <.<@I' 56',<7E < % .'C 'Q <% '1.67' 7''?1, ' .>>.1' '' <E,1 / '7 ,<I' 1,' 6' '' 1>?,=4.' >4' C ' Q4 <' V,46'6'-.6';.'=4 ' ''?4' 1'5.<7 1'<,71.' / '1;:.I' ;.' E ' ;:.4@'>-.<. / .4 ' / 6'?546 .416'Q,416'>'7 65 <';7 ,<' 7,<6'5.6'71 04<'<@'>.5'';'? 7'7.8'Q46=4 '4' ';.54 '>4' ?1. / .1''11,<> 66.1<;<7'''>7>'>'<6'4<.4 ';7 ,<'06,74.I' .7' / , / > / .8'E,1;.'>.' 5''?'17'J.18' '';14'?,4-, 1' Q' 5.1' '5,16' '' / ,<'?,67.'>.'6,5>'78'.7'Q ''>7>'?.<>'<7' *9' :.41.6' 6,46' 5.6' '1 / .6% .'C)' 5.' 71 04<'5' ''>7>' ;:'1J>'>.'E' 1.' 4<.' <E,1 / '7 ,<'?1.?'1'7, 1.'6<1'5.6' >1><. / .<76'>.'5'' <4 7'>4' C ''<' C % ''>7>',05 J>'>.' >,<<.1'7,47.' / ,<''77.<7 ,<'' ';.77.''EE' 1.8'.0Q ''?'66>' 'Q,416'?5' <6'.<E.1 / >'>'<6'5.';'0 <.7'>.6';, / 7 '>.6' 1'??,176'.7'>.6'1.;:.1;:.6'?,41' V' E' 1.' 5.'>>?,4 55. ' / .<7>.'7,47.6'5.6'? >..6% #.'71' -' 5'E' 78Q ''>7>',05 J>' > '55.1'1.;4. 55 1'5.6'?1.4-.6'> '471.6E' 76'=4.Q.'6,<?' &,<<' 68'=4 '<.' / >7' .<7' <> =4>6'<'?'1'5.;, / 7>'>.6' 1.;:.1;:.68'<' ?'1'5'' / 4< ; ?'5 7>8' .7'>,<7'Q ''6.45' '> / < 671>'5.6'?1.4-#6% .' / .'64 6'5 -1>>';.77.'1.;:.1M ;:.''-.;'> '47'<7'?546'> '66 >4 7>' .7'>.;,< '<..8'=4.' Q.'6'-' 6'=4.' / ,<' <7.1-.<7 ,<'>7' 7' <47 5.'.<';.' / ,M / .<7'>'<6' 'EE' 1.'>.6'E'01 ;'7.416'> '66 J<'76

34'<7' ';.77.''EE' 1.8' 5'<.'>.?.<>' 7'?'6'>.' / , '>.' ;,<71' <>1.8'';:'=4.':.41.'.7%'';:'=4.' / <47.85.;, / \' / 66' 1.' <6714;7.41''.<7.<>1.'>.6'7> / , <6% 'V>,<<' 7' 7,47'5.'7. / ?6'?,66 05.% .<.?,4 ' 6=4.5.'?1.66.18Q.' ''E' 78' .7'5.' ;, / / 66' 1.' <6714;7.41' .67'71,?'5,V'5' ?,41'5.'< .1% , 5'' / .6' ,;;4?'7 ,<6'>.?4 6'5.' C)'Q4 <' Q<6=4 '4' 5 Q4 R5.7% .'<.'?,4-' 6'?'6'>71.'1.6?,<6'05.' >.' 5'' 5.<7.41' >.' <6714;7 ,<% .' ?4 6' '77.67.1' =4.' % 1;:'< 0'4>'V' '' / 6'7,47.' ';7 - 7>'?,66 05.8'Q46 ' =4 ''6;'1;71'<;:.1'>.6.6'1.?'6'.7' >.'6,<6, / / . 5% .' <.'64 6' ?'6'1.6?,<6'05.8' 6 5'< ''?'6'>7>' .<' / ,<'?,4 ' -? 1'>.'< 7.1'5'' / '1;:.'>.' <671.;7 , 8'6'5.6'5, 6'<.' / ,<7'>,<<>''4;4<' / ,V.<';, .1; 7 E8'?,41';,<71' <>1.' 5.';, / / 66' 1.' <6714;7.41' > '5S.1A?546'- 5.% , 5''< '' ;,<>4 7.' >'<6';.77.''EE' 1.% ' <7.<'<7'Q.' -' 6'-,46' > . B'< ,7'>.'>.4@''471.6% #.55.'>.' ,<>1.6'.67'>'<6' 4<'>7'7'> <';7 ,<'E,1;..I' 5'' ;'46.'>.' ;.77.' <';7 ,<' < .67'?'6'>.' / ,7'E' 7N 5.' / < 671.'>.'5''Q467 ;.'?.'<,46' '' 5 '6'.<;,1.' 6 71. / .771.'5.6'? >..68' .'?'66.' ''5''71, ' 6 .< =% .6'? >..6'>.';,<- ;7 ,< <7>7.1. / 6.6''4'J1.EE.' >4' 71 04<'5' ??' .6'? >..6'>.'5''?1,.>>41.8'=4'6.47.6' ^5,4-' .7?' '??1,?1 .1''4@' ';;46.6' 5.6'? >..6'>.';,<' ';7 ,<8' < ,<7' >7>' 1.1' 6.6' '<' 71 04<'5'=4.'-.<>1.>' 5.1< .1'C9'Q4 55.7% .' / .'64 6' . / ?1.66>'> .<' ?1.<>1.' ,<<' 66'<;.'8' .7'>.6' 5.'Q.4>'Q ''>7>' '66.0' <6714 7'>.' 'EE' 1.'8'?,41' '<<,<;.1'' / ,<' 71 04<'5'=4.'7,47.'5'' 1,;.>41.'.7' <E,1 / '7 ,<' E' 7.6' ' / ,J.6' >7' .<7' 1'??>.6'>.' 455 7>% % \

<';, / 7.''-' 7' .7;' <> =4>' '';.'6, 1'?,41'Q4J.1'5'' <455 7>' .7'?,41' / .'>,<<.1' ';7.' >.' 5''?5' <7.'?'1'5' ' ?.55;'Q.'>. / '<>'Q6'4<.'<,4-> .' <E,1 / '7 ,<% .';1_' =4.'> '?1>6';.6E' 768' > '?1.6'5.6'>;5' 1; 66. / .<76'=4.' 5.'- .:6'>.'>,<<.1'' 66. / 05>.8'.55.'.67'66.0' <6714 7.8' ?,41'?1,<,<;.1'641' / ''>. / '<>.% , / / .0'?1, / ?7.' <.<7'4<'71 04<'5'?,41' / .' 4J.1% 'Q.'64 6' / <,;.<78' <,46'<.'?,4-.0' ?'6'6,4EE1 1'=4.'Q.'1.67.'6,46'5.'Q,4J' 4<.'';;46'7 ,<'>.';.77.' .6Q .=.%

?1>6=4.5=4.6'> 6;466 ,<68' 66. / 05>.5>-.'5.'>>' 1.7' ?'1'5.=4.7' % ,5-.' .f ''>7>'?1?- 6, >. / .<7'646' 5.<>4'>.'6.6'E,<;7 ,<6%

%% , '' .'- .?6'>.' , 1'>'?6'5.'7'05.'4'>.' ,1>1.' S4'Q,41'4<.' <6714;7 ,<8'?,41' .<-,'>.6;, / / 66' 1.6' 54 '>, -.<7''55.1>'<6'5.6>>?'17. / .<76% .':.;1, 6'?'6' Q4 ,<'>, -.' .<' ;.' / , / .<7G;'>>J'1< 1'1 66. / 05..'>.' 1.<7.',4'=4'1'<7;'?'71 ,7.6% .'.1, 6'=4.';.77.'1'.641.' 7'?'1E' 7. / .<7' <47 5.8'5, =4.'<,46'1.;.1,<6>.7,46' .6'>>?'17. / .<76'5.6'<,4-.57.6'5.6'?546'6'7 6 ' 6'<7.6f <' 6'> .'6.1' 7'>' J.1;46;8'. ;.'=4 .55.''<.' 7 1' 7'5'' .6?,<6'0 5 5>'>.6' < < 671.6% 4.'>.6'1' 6,<6'>.7.1 /

<'<7.68' 6.5,<' :, 8';'.67'=4.'<,46''55,?6'<,46',;;4?.1' >.'1'' 1>- 6 ,<'>.6'> 1.E6'8' .7=4 B' .67' / ?,17'<7' =4.' 7,<6'5.6'?'71 ,7.6' , .<7' ''5.41'?,67.'8'5,16=4 56 ' ['' >.'>>7.1 / 1'.18?'1'.@. / ?5.8'6'5.'>>;1.7'6415''<,05.66. 6.1';,<67 747 ,<<.5,41>J5. / .<7' 1.I; .6&=4.5 1,<1.' ;,<<' 71''6 1 66. / 05>.'<'7 ,<'5.' / >1 7' 7'5'';,<E '<;.' =< .55.' '' ,07.<4.% &' <' / 41 / 41.% +' % B'17<.'4' 1'??.55.' % K40,7' '' ,1>1.% P' .' >. / '<>.'=4.' , ' 'Q,4 / .'5''5.;741.'>.5 <6714;0,<' .7'5''<, / <'7 ,<'>.6' ;, / / 66' 1.6'Q46=4 '?1>6'5'' 1>- 6 ,<%

' B'N 1.6=4.'7,47.' 66. / 05>.'6' 7'=4.'5.6' ., / / 66' 1.6'0.'>, -.<7' ?'6'?'17 1''-'<7'5'E <>.' 5'' ;,<67 747 ,<8'.7'7.?1>,? <'<5'41' 7'0 .<?46 >?'1J<.1' 5''?. <.'>.'Q.7.1' >.6'>,<7.6'641'5.6' <7.<7 ,<6'>.'1 6M 6. / 05..% <'>.-1' 70 .<';.66.1'>.;:.1;:.1' '' > - 6>1' 66. / 0 .'<'7 ,<'5.8'>7'>.'E' 1.';1, 1.'=< .55.'1>-,1' =4.1'' 4<'6.45'>.' 6.6'>>;1.76' ;,<67 747 / <.56% ,<8' ;.17.68'<,<6<.5.'6,4EE1 1,<6'?'6% 66. / 05>. ''66.0' E,17. / .<7?1,4-.'=4 .5Q.' '? / .701' 7'?'6'=4 ,<'?/1' >7;,<71.'5.6'>>;1.76' ;,<67 747 ,<<.56I' .7'Q.' ?1.<>6-' / , 8' .<J'J. / .<7'>.' / V' ,??,6.1'>.'7,47' / ,<'?,77F' -, 1% &' <'??5'4> 7%P' j

.'6,4:' 7.' '1>. / / .<7' =4 ' 7,?6'5.6'?'71 ,7.6' >>' 7 66. / 05>.'6, .<7''4667%6;14? 5.<@'= .' / , ' '<'77'' ' =4.1''4;4<' >>;1.7' ;,<67 747 ,<<.58' .7' <,46'>.-,<6' >.6 1.1'=4 ,<'<.Q.77.' ?546?'<<'<,46'>.6' 6,4?J,<6' .7' >&\6' / > '<;.6' .,<7 <4.55.6% '>. / '<>.';.?.<>'<7' '-.;'5.'?1>,? <'<7'=4.' .<-,'>.6., / / 66' 1.66, 7' 'Q,41<>''?1.6'5''1>- 6 ,<%

''?1,?,6 7 ,<'>.' % K 0,7.67'>,?7>.%

& ' 5 'N .6'71, 6';, / 7>6'>.61.;:.1;:.68' >.6';,5,< .6' .7' >.' / '1<.'8' / ,<5' ;:'1J>' >.' -,<6' ?1,?,6.1'4<.'>.7.1 / <'7 ,<'?E,- 6, 1.8'.<''77.<>'<7' 5.'1'??,17'=4 56'-,46'E.1,<7'641'5.6'71,405.6'>.6';,5, % < .6% .6E>J / .<76'>.'5'' '17< = / 8'>.'E'' ! 4'>.5,4?.' .7'>4' ,17 '4' 1<;.'- .<<.<7'> '11'-.1'.<'H1'<;.% ,<6' 5.6'71, 6',<7' >7>'1.7< / V>6';, / / .' ;,4?'05.6' >.' >.5'6' J1'-.6' > <640,1> <'0,<8' =4'1.<>' .<7'5.41'6.1- ;.' <47 5.8' .7'5.41'?1>6.<;.'>'<J.1.46.% ,46' < J<,1.b' ?'6'=4.'5.'1.J / .<7'>.'5'' '17< =4.8' '?1>6'6 .71.'5 ' -1>' '' 5'' ?546' - ,5.<7.' <640,1> <'7 ,<8' '?1 6' '-, 1' . / ?1 6,<<>'6,<';,5,<.58''>7>'5.'?1<; ?'5' <6714 / .<7' >.'5'' J4.11.';-5.8'=4 ' ''.7>'.@. 7..'>'<6'5'';,5,< .%

,46'6'-.0'=4.'5.'1.J / .<7'>.'5'' ! 4'>.5,4?.'8'>,<7% 4<'>.7';0. / .<'>7' 7'?'66>'' '' '17< =4.8'6415''1>' =< 6 7 ,<'> ;,<47>';,5,< '58' .7W414<',1>1.''11'.0>' '4'J,4-.1<.41'=4'>7' 7'>.7.<4'>'<6'4<.'?1Q <8' ''>7>' ;, / / .'5.?1. / .1 <671< / .<7>.5'J4.11.. - 5.I'=4 4<' '471.' >.7';:. / .<7 6 V' .67' 1.<>4' '<6' ,1>1.I' =4.'8' 1'??.5>'?'1'5.'J,4-.1<.418' 5'' '1.E46>'> ,0> 1I'=4.'5.' 1 / .<7' >4' ,17 '4 1<;.8';,<<4' > '0,1>'?'1' 6'' 6,4 / 66 ,<'4@'5, 6'.7'6,<' / ,41'?,41'6.6';:.E68''?1>6' '-, 1'1.<>4'4<'6.1-;.'47 5.' ' 5'';,5,< .'8''. E<'>7>1' >J'1>'?'1'>.'E'4@'>>;1.76% .7' =4 5' 6 .67'5 -1>' '4<.' <640,1> <'7 ,<'0 . P';,4?'05.8'? 6=4 .55.''; , 7>'5'' -.''4';,5,<.5% .6'@>J / .<76'>>'5'' ! 4'>.5,4?.'.7'>.' 5'' '17< =4.',<7' >7>1.<-,V>6' .<' H1'<;.8' .<' -.174' > 4<.'>>5 0>1'7 ,:'>.6';, / / 66' 1.6; -B6.7'>''J,4M -.1<.41I';.54'>4' ,15 '4 1<;.8' .<' -.174'> 4<'>1>1.' >.'5'' / 4<; ?'5 7>8'?'1'5.'6.;,416'>.6'71,4?.6'>.'5 J<.' .7'>.6'J'1>.6'<'7 ,<'5.6% ,6';, / 7>6' / .' ;:';J.<5'>;' -,46'?1,?,6.1'>.'<.' ?, <7'E' 1.'Q4J.1' ; .6' 1>J / ;<7p' >'<6;.' / , / .<78''77.<>4'=4.'4,<6< '-,<6'?'6' '66.' >.'1.<6. J<. / .<76I' / '56'>.' 5.6'7.<Q1'>'<6'4<'>7'7'>' 646?.<6 ,<8'=4 ''<<,<;.' <7.<7 ,<' , 7' ,46'>7.6'> >' ;5' 1.1'5.41';,<>4 7.8' .7'>.'E' 1.'?,4164 -1.'5.6'6,4' ?'05.6% 1

% #:' / ?'J<V'?1>6.<7.' / '?1,Q.7' >.' >>,1.7'?,1' 7'<7'=4.'5.6' 71, 6'1.J / .<76';,5,''4@' . H1'<;.'1.67.1,<7'.<'>7 17'>.'J'1<6.<'>' a' '5 1'@'>' 56'6,<7I'=4.'7,47.6'?1, / ,7 ,<68' '=4. =4.'J1'>.'=[' ;.'6, 58' 6.1,<7' 646?.<>4.68' .7'=4.'5.' / < 671.'>.'5' J4.11.'?1.<>1''>.6' / .641.6'?,41' / ' ,7. 4';.61>J \' / .'76'>'<6'5''640,1> <'7 ,<%

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, 4'

C WBP' 'B_' . 'BHTB' +' < ' ' ' ' - , &

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8 □ ⁻ ⁼ F ' + ^%5. , , ' 7 .H.1> <'<>'
5 7 5.E. >' " .7.' <' / / '?'1'5.F 81, ' 6 ,< . 1- ,V '
1 7671.' ? <5?,7.,7 ' 1.' ' ' ; 41'>.'67'?5.6%

' 5 Z ġ $

'$ ' ' g (' +' ; / ?.E.<1' .67 '77.<>77
>'<6 ; .57;' ; '? 7'5.' >4')' '4' C '>.' ; ` 7<, 6% '?' / 7
#54.' % % " 1. / ? '5.'047 >.'6,<' - ,V'J.% ' " ?'17,47 '
;%'<6 6.6 ?1, - <; .6 > 57'5 .' 8 1.5'0 '5.' ;'5 / .'.7 5" ; ,B'
E5'<; .8 " ?1 6.<; .' 6.47.' " 0.' 5; ,4? E' 78 .7 5 " ?1 6
>;6 / .641.6 ?, 41' 1.<>1.' ; .77.'71'<=4 55 7 '>41'05.8 7
< .67 ?'6 >, 45.4@ =4.' > '471.6 6, <6 <.' ' '07 .<; ,1.'
<; ;4? '?.<>'<7 6,<' - ,V'J.% .6 ; ,416 >.' ,<>1.6 .7
>.'K.15 <8 =4 ' ,<7 .<- ,V ' - .16 5 ,?, 5> 5, 1>' 5J <' .7
% K 6; : ,E6 [.1>.18 6. / 05.<7 ' - , 1' .<7' / 4<.'< J, '
; '7 ,< =4 ' . / 01'66.'7, 47.' 5" ;1 6.'>.6 'EE' 1.6 >.'7 77Y'
1, ?.% #.6 >.4@ / < 671.6 .<' 1.?1.<>1, <7 5.' ; ,416 Q; 8
5 '11 - . .'>.' . / ?.1.41% % E.6 ; : ,E6 [.1>; 1' .67 >= "
'11 - '>4' 7 5 8 .5' 5.' 5.<>. / ' <' 5, 1>' 5J <' V " <7%
' , 56 5.6 >.4@ ,<7 7.'?1 6.<7 6 '4' ?1 <; ' >.' a '4< 5I%
' % <' ;E% 7 >.' 7.160, 41J =4.' 5.' ?1 <; .' >.' '66'48
=4 ' >. - ' 7 ?'17 1' >.' #1, <67'>7 ' - .;'6, <' .6; '>1.8 " 1. ;4'
, 1>1.' >.' > E5.1.1' 6, <' > ?'17% Y
; ,<' 5.6 >.1< .1.6 <, 4- .55.6 >.' #, <67'<7 <, ?5.88 .'
;<? 7'< ?' ; : " ' - ' 5 >>'??'1.E 5.1c. ' / ' I' ' - .;' 7<
- .<7 E' - ,1'05.8 ?, 41' '1<'%)' ' *' *) 8
.66.45.6 <, 4- .55.6 . .17'5<.68 ; .67 =4 ,71.' '1 / E5 '
5 ; .' '7- .; [6 41; 6 " 5 '?1,5, <J 8 .7 =4.'<, 6 / < 671.6
6, <7 1.7, 41< 6 " 67, - .'?, 41' V 1.?1.<>1.' 5.6 <.J, ; ' '
5 , <6% %
,46 '??1.<, <6 ?'1'<, 6 ?, 67.6 ' - '<; 6 = .'5.'CC >4'
<, 6 >.1< .1' 4<' J1'<>' <; .<> .' " 5 6 .' " ;4<641'.'
>.6 / 'J'6 <6 ; ,<6 >.1'05.6 >.'E, 411'J.6 '??'17.77'<76
'4@ 41; 6%

" 6, ; .7 '>.6 72]'>.' 5" #, <67 747 ,<8 6 '?7.' ; : .0%
7 % .V1; 5, <J4. ' 5" ?1. / 1.% 7'05 .' " J4 55, <8
'E5 5 ; .' " ; .55; '>.'K, 1>.'4@ '?54 6 .416 '471.68 ?1 8
- ,<7 =4 5 .' ' ,4Q, 416 <.J ' 6.6 ?'=4 .766, 46 5.' <, <'
' 0- ' ' G ')' , & 0
=4 ;55.' >. 6' - ,4.' ' - 6 <6 1 ' >'<6 .' 1Y)9 >4' F A'
' .7 =4 .55.' 5 .' ; ,4<' 7 '4; 4<.' ; ,11.6?, <>'<; .'
" 451.'6, ; 7.8 > 7.' >.6#'1 / .6% , ' Q4J.'>.'
?' @ 8 I 4 " ' 8 7 568 $ & ' 8 H'5< 8

' "

' K ' 5 7 %
8 ' ' F ' $
' ' ' #E ' ' K %

41' 5.' 1'??, 17 > 4<' / . / 01.'>4' ; , / 7 ' > ?5, 1' '7 '
8 5.' > ` 1.7 64 - '<7 .67 1.<> ' N
\W 66. , 05. .' 0'7 ><'7.8 'V'<7 . 7.<>" 6, <' ; 47 ' > '
5 / '7 = ' .8 ' ,7, 1 6.' 5" / < 671.' >.Z '5E' 1.Z .71'<J.1.6 '
6 J<.1' 7, 47 ?'66. ?, 17 < ; .66' 1.' ?, 418 5.' 0 .<' ><' 6.1- ; '
>'<6 5. ' '5 ' 1.6 >.E6, <' >.?'17. / .<78 .7 ?, 41' 7, <6 '471.6
,00.76 > 47 7' . - >.<7.G, " >.' ; .66 7.' <> 6?.<6'05.8 .<
6.' ; <E, 1 / '<7 '<@ ?1; .'47 ,<6 <> =4 . .6 ?'1' 5.'> ;1.7 ><
C)Q4 <8 .7 <,7' 4<.<7 ' 7" ;0'1J.' >.'E' 1.' .<1.J 671.1' .7
<4'4 1, 7.1' 5.6> 76 ?'66. ?, 176 I >.6=4.5Z <<= ,6 .7 . ,1.'
J 671. <.<7 / .<7 ,< .@?1.66.'6.1" 7.8 ' - .1 /' ><' ?1.6.<7
>. ;1.78 6<1' ;0' ; <<> .<aQ; .'1J.'5.6 < / < ; ?'5 7.6>.6 - B.6
E1, <7 .1.6 >.'7; < 1' <, 7.' >.6 .@: 0 7 ,<6 " .55.6 E' 7.6 >.6> 76
?'66. ?, 176 6, 46 5.<16 << / 1, 68 .7 > .< E' 1. / .<7 ,< 71
<' 1.J 671.' " ; .' >.67 <.I ?, <1'V1. ; , <1 1' '<' 4.6, <% Y
'$ F ' +' ' ' .

% #% N ,46 ' - .0' 1.<1,V ' '?546 .416 >.' '
#, <7 6 5" =4.67 ,<' >.'6' - , 1' 6 ' 5.6 ,1>1.6 >.' ; . . - '5
1 .'?, 41' .<7 6406 67.1' .' H1'<; .N <, 46 ' - ,<6 .@
/ < .'6, 46 6, <' 1'??, 17 ' - . ;'5" #, <67 747 ,<% .60'6
>.' - ,71.' #, <67 747 ,<' 6, <7 J'5 7.' .7 4< 7 8 >.' / '< .'
=4 5 E.@ 67, '4 4<.'?5' ; .8'4; 4<.1 ; , <?.<6.8'4. '
' - '<7'J.' ,07. : '?'1' 4<' <> - >48 '4@=7 .56 4<' '47
<> - >4' <.'?4 66.'?1 7.<>1.% '<6 >, 47.' 5 .@ 67.'
7, 4Q, <16 : <.'> EE 1.<; .' .<71.'1: , / / .'== ' " >.'J1'<'
7'5.<76 .7 =<' '471.'=4 ' < .<' " ? 68 .<71.'7 : , / / .'=
.17' - . .'0 5.'6" ?'71 .' .7 . .54 ' =4 ' - .<7 ;1, <? 1'>"
4<.' >; : .' , 6 - .7.I =' 6 ; .'<.6, : 7 ?'6 .'>.6> 677 '
7 ,1 6 " 'EE <7 1% #.' = [5 E'47 . .67 =<.8 5,16= .'
- , 6 4<.?.16, <<.'=47" / 17.' 4<.'1 ; , / ?.<6.'<, ?
1 ` =4.8 5 / .6, 7 ?.E< 6 >.'?1 7.<>1.' " 5' / / .'?5' ; '
.<'E' 6'<7 7, 47 ; .'=4 ;B ' " E' 7 8' <' 6.1- '<7 / " ?'75
; , / <.' .55.' " ' 7% ,47 '40 .' / ,7 E >.'> 67 <; 7 '
>, 7 71.' '06, 4 / .<7' '<7 IQc' >, 7> 6?'1' 71.' ; , / .'
.7'<7 ; ,<71' 1.' ' J'5 7 8 =4 ' .67 5" ?1. / E.1.'0"
>.1, 71.' #, <67 747 ,<% " 6. ; ,<>.0'6.' .67 4< 7 % ,'
< '1.0' ?, <7 - ,454' =4.' >'<6 ; .7 7'7 ' .@ 67>7 4'
6, ; 5 ' ?'17 ;45 1; 8 =4 ' .>7 6.667'74768 =4.5=4.E; '
> 1. ;7. / .<7 ,??, 6 6'4@5, 6 / / .6>.5'#, <67 747 ,N
,46 ' - .0 - ,454' =4.'7, 47 5.' / ,<>.' E>7 1 J ' ?'1'>
5, 6 =4 ' ?1,7 J.<'5'G5 0.17 ' N ,4 ' < ' - .0 - ,454 E'7
>.6 5, 6= .'?, 41' . / ? ; : .1'=4.'5" 00.17.' 7 J <.7
.7 - ,46 < ' - .0 ?'6 - ,45<' =4.\8 7'<>Q6=4.'E, <6 > ;5
1 .0 : '<7. / . >5" 5V .17 '>.'7, 47 ; 7,V. / 8 5] .'E, 1 /'
>.6'66, . '7 ,<6=4 ' 5" ; ,<71'1 '66.<7% , 5" 5.6?1.'
. ?.6 =4.'<, 46 >.%- ,<6 '?? =4.1' '4@ ,1>1.6 >.' ; 0'
- '5.1 E % g
" ; ,<67 747 ,<' >.' ; .6 ,1>1.6 ?1 6.<7.' ?54 .4'
; ,46 > 1'7 ,'6 ?1 4 ; ?'5.6I >'<6 5.6 <: 68 ; .67 5" >'
<; 7 ,<8 5" ?1.1,J'7 - .'>.'?' 66'<; .'=4 'E'55' 7 ' - ,'
?, 41' V 71.' '> / 6 N >'<6 ; .4@ ; ' 5 E'55' 7 =<'71.'>
J1 6 >.'<, 05.66.I >'<6 7.5 '471.' 4<' ?546 J1'<>' <, <
01.'>; >.J1 6% '<6 > '471.6 .<; ,1.' ,<' .@ J.' 7 '
; .17' <' .7'7 ' ?'1' .@. / ?5.8 5.' ; 5 0'7N ,<' .@ J.Q'
=4.5=4.E, 6 4<.'?1, E.66 ,<%86, 5.54 . .'>.' -EE <" %1 J'
: .168 <' ; .17' <' 1'<J8 4<' ; .17' <' 7'7% '<6 G
/ / ; ' ,1>1.6 - ,4G @ □ '>.6 67'7 7.' Q / 17 ;<5 .1'
8>.6 6.1 / .<76 ?'E'7.6=<.56 ,< 7> 5 J.' E" ,06.1- '7 ;'
>.' ; .6 67'7476Q.7G'?.<7 .51.' =4 .8 6 ' ,< .@' / <' ' - '
6; 1<?45.8 ,<' .6 67'74768 ,W' 5.6 6.1 / .<76 =4 ' ,0'
5. < 7' ' 5.6 ,06.1- . 18' ,<G ' 71, 4- .1' 7 Q / ; 'E, 45.' &
> 6?, 6 7 ,<6 =4 ' 6, <7 . ,<7E' E 6 '<@'5, 6 =4.' - , 6 ' - '
#'05 .6- '<@ 5, 6 =4.' - ,46 ' - .0 E' 7 >.1 - .1' >.' ;'
'<> 6' ?1 : . ?.6 > 7.1<.55.' 8- 17 % <E4 8 >'<6 .'
/ / .6 ,1>1.68 ,<' ?.47 ; ,<6 > 1.1' 5" 1. ; , / ?.<6.' <
<, 1 5 =4 . .7 5" > 67 <; 7 ,<' =<' V' 7' 7 ' ; ,1> ; % '
.@. / ?5.8 5 V' ' - ' 7 7.5 ,1>1.' >, <7 5.' <, / 01.' '
1<. / 01.6 < 7' 7 ?, <7 5 / 7 8 =4 ' <.'>, <<' 7 ?, <7
; : ' ; <' >.6 .6' 1<. / 01.6 <<. ; .17' <.'?, 17 ,<' 75.60 ; '
'??'17.<'<76 " ,1>1.I ; .'=4 8 " '1>' > 4<' 7<
J1'<>' <, / 01.'> <> - >468 <.'?, 4- ' 7 1.'1.J'1> '
6' E?.47 71.' 4<.' ; , <> 7 ,<' =4.' ,< .@ J; ' 78 ='
; , / / .4<.'> 67 <; 7 ,<' / 5 7' 1.% .5 .67 >, <.' .7
>.6> EE.1.<76 ,1>1.6=4 ' .@ 67.<7>'<6 5.1, V'4 / .% , '
- ,V.0 =4 5 V' " <<.'?'17 .'>.' ; .'= '6.'1.<; ,<71.'>'5
; .6 ,1?1.68 =4 ' .67 '06, 54 / .<7 <#, <; 5 '05.' ' - '
- , 1.'#, <67 747 ,<% ,16=< 5 < .@ 67.'?546>.'<, 05.66
5 .67 / ?, 66 05.'>.' ; , <; . - , 1' 4<.' ; ,1?, 1<7 ,<8=4' ; '
=4.'1. ; , <<4.'?'1' 5" 5, '>.' 7'78 >'<6 '=4.55.' ,<<
?, [1' 7 .<71.1'=4 .<'Q467 7 '<7>.' ; .'=4 ' 1'.@ 67.'?546
5 < .67 ?'6 ?, 66 05.'>.'Q467 .1\>4' < '<78 5 < .67 ?"
?, 66 05.' >.'Q467 7 .1'>.' 5" <, 05.66.' .<' H1'<; .8 ?, 4'
0 71g'> / 6 ' '4; 75<' ' & <' E' F '
5 V' " >'<6 =4.5=4; 6 <<6 >.' ; .6 ,1>1.6> '471.6 ?'17 . '
=4 ' ?.'6, <7 ?'6 <; , <; 5 '05; 6 ' - .;' 5" #, <67 747 ,<8
'<6 5" 5, '>4' C ' ' , 78 1.5'7 - .' '4@ , .<6 ,<68 - ,46
U' %

> 65 4J4.0 .6 7.;, / ?.776.68 ';;,1> W ?'1 7'78 .<
1.;, / ?.<6.6 :,<,1 =4.6 .7 .< 1.;, / ?.<6.6 .;4
< ' 1.6% ,46 '-.Z >,<.'.<7.<>4 =4 5 .@ 67.1' 7 >.6
1>;, / ?; 6.6 :,<,1 =4.6Z #.6 1.;, / ?.<6.60,<,1
E =4.6 .<71'7<.1' .<7 .55.6 4<.' > 67 <;7 ,< ,.' <.' .<
' .1' .<7 .5 .6 ?'6Z ;.'< .67 ?'6 ;.'=4.'-,46 '-.0
.@' / <.1'4Q,41> :4 8 ?'1;.'=4.';.'< .67 ?'6 .'?, <7
=4.' ,46'-.0 -,<54 >.; >.1 1.5'7 -. / .<7 '4@ ,1>1.6I
;7 5 ;.7 >J'1> 5' =4.67 ,< >, 71.67.1 ?'1E' 7. / .<7.<
7 1.% '6.1' 7 / ?14>.<7 >.'-,45, 1 >.; >.1 =4.' 5.6
> 67 <;7 ,<6 6.1,<7 >,'7.55.' ,4 7.55.'<'741.I 5 6.1' 7
'466 / ?14>.<7 >.'>.; >.1 =4.'> 6 ;.' / , / .<7 5 <.'
1.67.1' ?546 '4;4<.'> 67 <;7 ,<8 ?'6 / > / .'5' >#;,1
'7 ,7 / 5 7' 1.8 =4.'1,46 '-.0;,<<1 / >.'?'1 ?546 .416
>.' 7 '> ;1.76% ,6;, / 7>6 ,<7 ?.<6> =4 56 <7 7' .<7
;:'1J.6 =4.'> .@' / <.1 ;.'=4 8 >'<6 .6 ,1>1.68 >7' 7
;,<71' 1.' 45'#,<67 747 ,<8 .7 =4.'=4'<7 > ;.'=4 '< V
>7' 7 ?'6 ;,<71' 1.' 76 >.-' .<7 '06,54 / .<7 7.6 ' 66.1
<7';768 ?,41 .< >>5 0>1.1 =4'<>'1,46 .'Q4J.1.6 >
?1,?,6I 7.55.6 ,<7 >7> .6 ?1. / .1.6 14.6 >.'-,6;, / 7>6
1.5'7 -. / .<7 '4@ ,1>1.6 =4 ' .@ 67.<7 .< 1'<;.% .5'M
7 -. / .<7 '4@ ,1>1.6 >71'<J.168 -,6 >, / 7>6 < / 'J
<.<7 ?'6 =4.'-,46 'V.0 '67'74.1 6<1 5.41 ;,<6.1-'7 ,<
,4 '01,J'7 ,< & / '76 ;.'=4 '-,46 '??'17 .<7 . .67 >.'
6'-, 1 6 '-,46 -,4 .0 =4.'5.6 H1'< ' 6 6.' .<7 ' >.6
>7'05 66. / .<76 =4.'-,46 1.J'1>.0 ;, / / .' <;,<67 74
7 ,74 .56 .< H1'<;.%

#, / / .<7 6.1' 7 5 ?, 0 .8 ?'7 .@. / ?5.8 =4.' 5'
<,05.66.'< .@ 67'<7 ?546 8 .7 <.'?,4-'<7 ?546 6.'?1,4
T-.18 7 < H1' ;' 6 ?E77 .6? 1.1 1'> / 66 ,< >'<6 4<.'
;,1?,1'7 ,< ,< ,< <.' ?.47 .<71.1 =4 .< Q4675 '<7
> 4<. <,05.66.'Z B 6 Q 677 -1' 7 >,<.' =4 4< H1'7 ;'
6.1' 7 <,05.8 .7 5 .67 / ?,66 05.'=4 4< H1'<J' 66, 7
<,05.8 >'<6 5.'6.<6 >,<7 ,< 7 .47.<>' 7 '471.E, 6% & <
1 7 '>1, 7.%P .' > 6 ., / / .' ,< .<7.,>' 7 '471.E, 68
?'1;.'=4.'';74.55. / .<7 5.6 H1'<Q' 6 ?,669>.<7 5' -.M
1 7'05.' <,05.66.' & ,< / 41 / 41.' ' >1, 7.P8 ;.5c.'=4
>.1 -.'>.'5' 5 0.17.8 >.' .J'5 7> .7 >.6 -.1746 8 7'<> 6
=4.' '<; .<<.'<,05.66.8 7.55# =4 << .<7.<>' 7 Q'> 68
< .7' 7 =4.'5.'>1, 7 >.>.-.< 1 4< -'5.7 >.'#,41%& .6
'??5'4> 66. / .<76 1. 7.1.6 6.'E,<7 .<7.<>1.' >'<6 5'
?'17 .' J'4;.'.7 >'<6 5.6 71 04<.6%P #.6 ?1 <; ?.6 7
.7'<7 <.,<7.67'05.68 -,6 ;, / 7.6 ,<7 ?.<6> =4.'
?4 6= .'-,46 '-.0 >. .1.7>8 .' C ' ,E578 =4 '4;4<
1'<;' 6 <.'?, -' 7 ';.'.?7.1 7 <.'?.<6 ,< > <.'?4 6M
6'<;.G.71'<J.1;'?546 E,17.'1' 6,<8 '4,4 :'H1'< ' 6
<.'?,4-' 7 ;,<6.1-.1 6,< '> / 66 ,< >'<' 4< ,1>1.'
.51'<J.1 , 5 ,< .@ J.' >.6 ?1.4 .6 >4 J.<1.' >.'
;.55.6 >,<7 Q ' '?'1E, I =4 56 1.67.<78 6 56 -.45.<78
>'<6 ;.6 ,1>1.68 / ' 6 =4 56 6';:.<7 =4 '5,16 56
6.1,<7 ?546 H1'4J' 6% .'>.1< .1 ,0Q.7 ';,<6 >>1.1 1.M
5'7 -. / .<7 '4@ ,1>1.68 . .67 5' ?,66.66 ,< >.' 5.41
0 .<6I .7 ' ;.7 J'1>'8 5 E'47 > 67 <J4.1 .<;,1.'5.6
,1>1.6 E1'<J' 6 .@ 67'<76 .7 5.6 ,1>1.6 >71'<J.16% IZ
1'??,17 '4@ ,1>1.6 E1'< ' 68 5 ?,411'V '-, 1 >.6
?1.;'47 ,<6 ?'17 ;45 1.6 '?1.<>1.% .5'7 -. / .<7 '4@
,1>1.6 71'<J.168 ?,41=4, '<.'?,66.>.1' .<7 56 ?'6
>.6 0 .<6 .< H1'<;.'6,46 5'6'4- '1>.' >;' 5'5, 8 >.'
< > / .'=4.'>.6 ?1 <; .6 .71'<J.16 ?.4-.<7 .<?,66.>.1 Z
'6 5.6 ;, / 7.6 ,<7 ?.<6> ,<.';.'< >7' 7 ?'6 <,< ?546
'4Q,41> :4 ' 5.' / , / .<7 > .@' / <.1 ;.77.'=4.67 ,<%
,46 <'-.0 -,<54 -,46 ,;;4?.1''4Q,4H> :7 '=4.'>4
?1 <; ?.';,<67 745 ,<<.5%

% #' / 46 ?1 <7.'4< ?1, .7 >.'>..1;7 ?,17'<7 .<
64067'<;.' =4.' 5' >.;,1'7 ,< / 5 7' 1.' ';74.55. / .<7
.@ 67'<7.'<.'?.<7 > 1.'5' 0'6.'> 4<.';,1?,1'7 ,<I =4.'
7,47.' 1>;, / ?.<6.' :,<,1 7 =4.' < .67 =4 <> - >4.55.'
.7 ?.1',<<.55.8 .7 =4B7 <.'6'41' 7 !' '-, 1 >'<6 5.'
1,V'4 / .'4;4< ,1>1.' ,4 ;,1?,1'7 ,< E,<>..'641 >.6
> 67 <;7 ,<6 >.'<,05.66.'.7>.'1'<J'= ' .@ 67. 7?5?I
=4.'7,47 H1'< < 6 =4 '>. / '<>.1' 7 , '=4 ';,<6.1-.'
1' 7 <E5 5 >7 ,.''4< ,1>1.8 '66,; '7 ,.' ,4 ;,1?,1'7 ,<
>7'05 6 .< ?'V6 >71' J.18 >'<6 5.6=4.56 ,< .@ J.1' 7
> '471.6 1,,' ,<6=4.'5.6 7'5.<76 .7 5.6 .1746 ?.16,<

<.55.68 ?.1>1' 5.6 >1, 76 .7 5' =4'5 7;>.' ; 7,V.< E1'<
' 6%
'); BB #+ ,'-$.(' 3 +$.(.+(*,'5 (' ,$('$*,(*D
,$ *' (','-('' 44.$ (.' , ' (' .-.(''A(' 4. 4 '(.+$'-*('
*(' .(-+3,$ *' (*' 3(' #(. (',Q& *'/ (' .-.('-('3)(+D
(.$(' *,''*44. ('d $ '*('4(*,'3'+0 $.'-('-(3 .+,$ *' 4($!
+*(*,(''$ (('*%(',' +,,+3)(('F' $$('# *3,$ *'4*) $5*(:'(,
'$'4 .'),(*$.'$' #+ ,'-D++,.(''.(9$(''5*('3(('-*' .$,(
(,'-(' '0(.,-
T #(* $*',(' . $$,'-(' +$*,)3.,$$' (,'-*' (@,(' *,
3 *'(.0(('' (' .(3 4(*'('$*-$0$-*(('8'5*$'*('4(*&
.(*,''(.0$.'-(')+'('+' *('3 .4 .+,$ *'/ *$'+,,.$) (.' +'5*+D
$$,F'-('(*(0+ $(. S
'O- ' ' ' +'-$'(*''$ *' -('3(,,(' +*$(.('(','(2,$3D
(,*(,$,''$ 4 ('f(,' D '('-$.('5*(' +'-(3$'$ *'(*'(',' * *'(,,1
((*,'4. 4+.(($ +$'+.,(,(('-+*' , *' ('('4.$,'5*$ *,
+,,+36(' 5*(5*(' $ 4 .,+*3('F +' *',$,+,$ *' (,'+'0 ' -(&
3.(,'
' .'+'-(*2'('4(3(' - .-.(' (*' .+*3(/ 3D(','+'3(,,('-$0$1
'$ *'5 $'#+ ,'D+,,+36(.' (' *' '*44 '(,'(,'(2$9(*,'-('
4.(*0('-('*) (''(7 ('+*,.('$$(*' ' 44 '(*,'4+''
-(' +A3(/ DQ(,D-.(' -*' +$*,! '4.$,' 44 '(*,'-('-(9.('-(
*) (''(7 +$*' ' 5*(')(+*(*4' -D+-,.(' ' % .-.('-(' +$*,
$'*(' ' 44 '('5 ('-('' '(.0$3('4(.' *('/ ' *(' $ *'
9 ('-*.(('-('(.0$3(' $$,+$.(:' 3(' 5$ $ *D(*,.(' 4+' -+*$
.-.('-' .& (+' 4 '(/ ('-(3.(,'+'.(*-.(',(',(2,.(.+('
(*,''$ 4 (' BB +' 4+ '5*D$'3'+0+$')(+ 3 4' - ( )+..+'
-+*' (* *3$+,$ *'-'4.($(.'+.,$3 ('5 $ 8 '(','4. 4 '('
4+.' (' 3 $,('7 $'(','#+3$ ('-((' .(- $.('+' *' 4(,$,'*
-(',4.-6'$ ' '$ 4(' '5 $'.(4 $. ,' (') ,'+ 5 (' , , (
6$ *-(',(*- % $-' +'.(-+3,$ *'5 (('4. 4 '(';
& ' .-.(7 , ,('-(3 .+,$ *7 , 5,''$9,$('(2,(.$(*.'5*$
' 44 '('-('-$',$*3,$ *'-('*+$''+*3(/ (',' ' 44.$ (/ (,'
%('4 ..+'3,.((,+) $ -('( ) +) (''+' %+0(*$.':
<' '?'75.'>.'>.;1.7.1 5.'?1 <; ?.I 5 / .'6. / 05.'=4 5 <.'
?.'7 ?'6 .71.'>.;1 7.'.<'7.1 / .6 ?546 6 / ?5.68 =4 ,<'<.'?.47
;,<6';1.1 5.'?1 <; ?.'>G4<.' / '< .1.'?546 <.77.' .7 ?546 ?1.M
; 6.8 .<'0'5'V'<7 5. '1.67.68 =4 '6,<7 .<;,1.' ' ' V.4@8
>>'E4 / 5.1 >.'5 'B67,;1'7 .%
' ' 4 *'0 '+'-$,5 *'*(' +$,'.$(#,'4.(9(.7
+$' ('+.,$3 ('4. 4 '('4+.'0 ,.('3 $,('4.(9(*,'+)' !
* (*,' +'5 (',$ *' +'4 '$*,(.(''+*,('4(,!(,.('4 .'0 ,.(
3 (.3(7 5 $ (','3(('-(' .-.('-(' +Y(D +*,'+' $/
5 $ +'4$.('4+'+ '# *(',(') * (.'-('0 $.', ,') (0(.!
'(.'4+.'B ''( ) '< *' . .('-+*' +'4+.,$('9+ 36(?/ (
-(+*-('5 ('$% *'* *'(') .*('4+'+'* ' '4.(('(*,(.' ('4$$!
3$4(' 4 .((*,' (,''$ 4 ((*,/ +$' 5*D *'0($ (')$(*'8
$*-.' (' 3 *'(5 (*3('' .'5 ('-+*' +'5 (',$ *'-('
($9.+*,'/ *'0 +A$#+ .(''(5 (',.($%)'$(.+')$(*'/ 0
+0 W(,3 ($ +8('-('3 *'(5 (*3('-' 4.$*3$4('5 *'0 +Q& K
+$,'#+$.('+- 4,(.';L('-(+*-('- *('5 ('+'5 (',$ *'4. 4 !
'3('+ , .-) $' '+ 5.*(' '5 +'3('5 *' '4.(' (3
(' $ 3 4 (,('-+' , *' '('-(,+$'D' ' '0 $+$'.(!
4 *-$%('+ 2'$* .('(,'F .$*$4 ,+,$ 4'#+$,('+' +' *) ('('-('
* +0 $.'-+ ,.('4.(,(*,$ *'5 ('-('-(0(,$$.'0+ (,'-('3 ./ 3(+'
('(.+$,'#+3$ ('(*'-$'+*,'5 (' ('6 ('-(' $' * *,'4.$'
3(' $,.('5 ('4 .'+0 $.' ('-. $,'-('4$ (.' ('9(*'-' '4(4 ('
< ' . .(/ *'+44 ++-$, ?
' ! 7 ' BB(','$ 4 ''$) ('5 (' ''( ) (('*('('('-'
,(. $*('4+'' .! (!36+ 4' +' +) $.', ,(' +.5 ('(2,(.$(.('
-('-$',$*3,$ *'O(,+.-(.'-_ *''(' .' '-(3.(,/ 3(''(.+$,'
.(,+.-(.'(') *6(.'-(' .+*5+$''< *' . .('-+*' , ('
(' 4+.,$(' -(' +''+ (' V (' ')
',$,$(.' ('3.+$*,(''5+ +', +,$$#(' (' ' '*+5,c? ,',('-$'1
,$*3,$ *'(2,(.$(.('','-(',. 3,$0('-(' (9+ $,(' +$.('4(.!
' **(' '('4.('(*,(6,'-+6' *(' ' 3$(,(' $$'($(' ' *,'(9+ (!
(*,'$*3 ('D *('-(('('(','-(3 .((7 , ,(' (' +.5 ('
-('3 *'$-(.+,$ *' $' *,'.(' .0((''< *' .$,/ *' .*$*.3?
' ! ' ' .' 4 0 $.'-$'3 ,(./ $'$'#+*-.+$,'#$2(.' (,
4$%-3$' -(' +'5 (',$ *'/) *'+..$.+*,'$-/ +$ '+ $$36(.' ($
'+,' (',+) (+' '9 '/ '(' I (3'(','(2,.((D
(*,' ,+9 (:' '#+ -.+,'- *('-+) ,-'4 '(.'5 *'$ +'5 ('1
,$ *',' '(*,.(.'-+*' *' .-.(/ '(.+!,! *') $9('-('#($.(
-(+'4.(0$ c'J\ 1 ') ' I ((+'(',' 9(? f(!
3 *-('5 (',$ *' *,$* (.+!@ '-%8'+0 $.'-(' .-.('c
% 7<, ' .6 / 1 ;' ,6 =?'6.' ;,<<' 66.<7 .4 5 M
0.17V 0<7 '0,5 '5 ,1>1.'>.' ! <><<'746% .'<.'?1.7.<>6 ?'6
=4.'<,46 ?4 66 ,<6 '0,5 1 >.6 ,1>1.6 >,<7 5.';:. .4 .67
.< ?'V6 .71'<J.1% ('6.1' 7 64??,6.1 =4.' .6 .71'<J.16 ?,,;'
1' .<7 1>7'05 1 5' <,05.66.' .7 'H1'<;.% .'4.'-.4@ ?'6 <,<
?546 '0,5 1 7,47.' / '1=4.'> 67 <;7 -.8 <,46 < .< 6, / 3.6
?, <7 .<;,1.'?'1-.<46 '%;.'>.J1.' U.'c\ .1E.;5 ,<8 . Q;'?1,'
?,6.1' '4<.'>.;,1'7 ,< P\ ,'1 7,<6 ;.4@ =<' '41,<7 1.<>4

[illegible]

[illegible]

WGE

>'57.ʻ <Q 7ʻ 1 .<ʻ>'<6ʻ5'ʻ# ,<67 747 ,<Iʻ=4 5ʻ: ' 7ʻ '4ʻ
N4<.ʻ <E54.<;.ʻ>'<6-,71.,1>1.ʻ ?#5 7 =4.Iʻ =4'ʻ 6.6ʻ
/ . / 01'ʻ< ' .<7ʻ 1, 7ʻ'ʻ '4;4<.ʻ.6?E.;.ʻ>.ʻ> 67 <;7 ,<6ʻ
;; '7.6ʻ .7ʻ?,5 7 >4.6ʻ>'<6ʻ P.ʻ1,V'4 / .8ʻ ;<ʻ=4'5 7Vʻ>.ʻ
'0.-'5 .16ʻ>.ʻ '57.% <E <ʻQ.ʻ -,46ʻ ?1 .8ʻ '4ʻ<, /ʻ>.ʻ
5'ʻ<'7 ,<ʻ8ʻ '4ʻ<, /ʻ >.ʻ <7>1 7ʻ <'7 ,<'58ʻ>>;'17.1ʻ5.ʻ
71, 6 E. /.ʻ'17 ;5.%
ʻ K ʻ#.<71.ʻ1,?< , ʻ>.ʻ % '5,4.78ʻ 5ʻ
.67ʻ <> 6?.<6'05.ʻ=4.ʻ -,46ʻ>..1>7 .0ʻ=4.ʻ7,47ʻ <> - >48ʻ
=4ʻ.<71.1'ʻ>'<6<<.ʻ;,1?, d'7 ,<>71'<J>1.81.<, , ; .1'ʻ
?'1ʻ;.5'ʻ / > / . 'ʻ6,<ʻ>1, 7ʻ>.ʻ; 7,V.<ʻE1'<I ' 68ʻ; '1ʻQ.ʻ
<.ʻ;,< , 6ʻ?'6ʻ =4 ,<ʻ?4 66.ʻ>71.ʻ1.->74ʻ> 4<.ʻ> 67 <;M
7 ,<ʻ=4ʻ.@ J.ʻ>.6ʻ?1.4-.6ʻ>.ʻ<,05.66.8ʻ.5ʻ=4 ,<ʻ?4 66.ʻ
I7 .ʻ / . <01.ʻ>4ʻ6,4-.1' <ʻ>'<6ʻ4<ʻ?'V6ʻ,4ʻ 5ʻ<.ʻ?.<7

?.164'>.ʻIʻ.7ʻQ.ʻ ;1, 6ʻ =4 5ʻ .67ʻ / ?,17'<7ʻ>.ʻ <.ʻ1 .<ʻ
>.; >.1ʻ>'<6ʻ;.7ʻ <67'<7ʻ641ʻ;.ʻ=4ʻ#,<;.1<.ʻ;.77.ʻ /ʻ
?,17'<7.ʻ =4.67 ,<8ʻ.7ʻ =4 5ʻ E'47ʻ ;:'1J.1ʻ 5.ʻ ;, / 7>ʻ
> ?5, / '7 =4.8ʻ5,16=4.ʻ -,46ʻ '41.Zʻ / 6ʻ -,6ʻ?1<; ?.6ʻ
; ,<67 747 ,<<.56ʻ 'ʻ ; ,<-.178ʻ >.ʻ -,7 61.<>1.ʻ ; , / ?7.ʻ
>.ʻ5 , ,65.6 <7>1>76=4.ʻ -,46'-.0'ʻ7E' 7.1' - .> ,1>1.ʻ
>.ʻ '57.8ʻ .7ʻ5.6ʻ '471.6ʻ ?4 66'<;.6ʻ <7.1.66>.6ʻ ʻ 6'ʻ
;,<6.1-'7 ,<ʻQʻ ;7ʻ =4ʻ6.<7W<ʻ =4.5= .ʻ6,17.ʻ5.6ʻ ., ʻ
'66,; ;6ʻ&;ʻ5'ʻH1'<;.ʻ?,41ʻ / 4 <7.< 1ʻ6,<ʻ.@ 67.<;. ʻ .ʻ
;1, 6ʻ=< 7ʻ ;67ʻE'; 5.ʻ>.ʻ Q 1,<-;1ʻ =4.ʻ '17 ;5.ʻ ʻ<.ʻ
5,4;:.ʻ?'6ʻ 'ʻ ;.77.ʻ=4.67 ,4% 5ʻ.<ʻ .EE.78ʻ ,1>1.ʻ>.ʻ
'57.ʻ / .@ 67.ʻ?'6ʻ;<ʻ 1'<;.Iʻ .7ʻ= '<>ʻ-,4664??1 ʻ
/ ;1 .07,47<6ʻ5.6ʻ> 67 <;7 ,<6ʻ;7'05 .6ʻ.<ʻH1'<;.8ʻ -,46ʻ
<.ʻ7,4;5 .0ʻ <455. / ;<7ʻ 'ʻ ,1>1.ʻ >.ʻ '57:.% 5ʻ 64E5 7ʻ
>,<.ʻ=4.ʻ -,46ʻ<.ʻ 5ʻ74 .0ʻ1 .<ʻ641ʻ ,1>1.ʻ >.ʻ '57.ʻ8ʻ
'-..ʻ5.=4.5ʻ -,46ʻ '-.Zʻ7,4Q,416ʻ71' 7.ʻ>.ʻ6,4-.1' <ʻ'ʻ
6,4-.1' <8ʻ?4 6= ʻV'ʻ'4<ʻ' / 0'66'>.41ʻ>.ʻ '57.ʻ.<ʻ
H1'<;.Iʻ.7ʻ'ʻ;.77.ʻ ,;;'6 ,<Q ,06.1-;1'ʻ=4.8ʻ5,16=4.ʻ
% , 7 / ,1<ʻ 'ʻ<,7 >ʻ5'ʻ E4 5.ʻ>4ʻ1, ʻ'4@ʻ ' / 0'6ʻ
6ʻ>.41 ʻ671'<J.16ʻ'4?1.6ʻ >.ʻ<,46ʻ ' / 0'66'>.41ʻ>.ʻ
'57.ʻE47ʻ 5.6.45ʻ=4ʻ1 ?,<> 7ʻ> 4<.ʻ / '< 1.ʻ?,6 7 -.ʻ
?,41ʻ 1.;,<<' 71.ʻ >'<6ʻ ;.77.ʻ ,;;'6 ,<ʻ '47,1 5 ʻ>.ʻ
66; / 05..ʻ<'7 ,<'5.ʻ.7ʻ;,11.6?, >1.ʻ'-..ʻ.55.%
<ʻ#,<-.<'<7ʻ'-..ʻ % '5,4.7ʻ >.ʻ 7 <7>1 7ʻ =4 ʻ
Vʻ'ʻ 'ʻ;,<6 >.1;1ʻ 6,7> / ;<7ʻ5.6ʻ1.5'7 ,<6ʻ?,5 7 =4.6ʻ.7ʻ
;, / / ;1; '5.6ʻ=4ʻ -,46ʻ5 .<7ʻ'-..ʻ ;7>1.ʻ>.ʻ '77.8ʻQ.ʻ
> 6ʻ =4 5ʻ .67ʻ71 ʻ / ?,17'<7ʻ>.ʻ>. E14 1.ʻ7,46ʻ5.66,4?ʻ
<6ʻ=4.ʻ ,<ʻ 'ʻ-,454ʻ6. / .1ʻ?,41ʻ> - 6.1ʻ 66. <05 .ʻ
<'7 ,<'5.ʻ8.7ʻ;,<6>=4. / / .<7ʻ>.ʻ>,<<.1ʻ4<.<,4-.55.ʻ
E,1;.'4ʻ>. .1.7ʻ=4ʻ?1,6;1 7ʻ7,47.6ʻ> 67 <;7 ,<6ʻ>.ʻ1'<J%
.ʻ>. / '<>.ʻ=4.ʻ ,<ʻ / .77.ʻ'4@ʻ-, @ʻ ;.77.ʻ ?1. / .1.ʻ
=4.67 ,<N
6;47.1' 7ʻ ,<ʻ6ʻ ,<ʻ6<??1 / .1'ʻ7, 7.ʻ6,17.ʻ> ,1ʻ
>1.6.@ 67'<76';74.55. / .<7.<H1'<;.8,46ʻ ,<ʻ> ;5'ʻ
1.1'=4.;.<.6.1,<7=4.ʻ>.6ʻ> 67 <;7 ,<6 <> - >4.55.6Z
%#B K<,<PN 'ʻ?.4ʻ>.ʻ / ,76ʻ'ʻ> 1.ʻ'ʻ 66.1'05 .%
.ʻ;1, 6ʻ =4.ʻ>'<6ʻ5'ʻ> 6;466 ,<ʻ?< 6#<7.ʻ 7,46ʻ 5.6ʻ.6_ʻ
?1 76ʻ,<7ʻ ;.77.ʻ <5.<7 , ; 8ʻ 5ʻE'47ʻ#@7 1?.18ʻ?'1ʻ1'Jʻ
?,17ʻ'4@ʻ 1>1.6ʻ>.ʻ;:.-'5.E .8ʻ7, ,7ʻ#.ʻ=4ʻ?.47ʻ'-, 1ʻ
4<. <E54.<;.>'<J.1.46.'ʻ5'ʻ#,<67 747 ,<8ʻ.7;,<71' 1.ʻ
'4ʻ1.J / .ʻ<,4-.'4=4.ʻ -,46ʻ'-.0ʻ <71,>4 7.<ʻH1'<;.%
'? ;6ʻ;.77.ʻ,06.1-'7 ,<8ʻQ.ʻ ʻ=4 5ʻE'47ʻ> 67 <J4.1ʻ
5.6ʻ ,1>1.6ʻ =4ʻ ,<7ʻ 5.41ʻ ;7'05 66. / .<7ʻ .<ʻ H1'<;.8ʻ
.7ʻ'ʻ5.41ʻ .J'1>ʻ-,46ʻ'-.0ʻ4<.ʻJ1'<>.ʻ5'7 74>.8ʻ> '-.;ʻ
5.6ʻ ,1>1.6ʻ>,<7ʻ . '05 66. / .<5ʻ.67ʻ .<ʻ?'V6ʻ .71'<J.18ʻ
'ʻ 1.J'1>ʻ>.6= .56ʻ-,71.ʻ'77.<7 ,<ʻ<.ʻ>, 7ʻ ?,17.1ʻ=4.ʻ
641ʻ;.ʻ=4ʻ.67ʻ>'<J.1.4@ʻ'ʻ-,71.ʻ>7'7%
ʻ1.J'1>ʻ>.6ʻ,1>1.6>,<7ʻ .7'05 66. / .<7.67.<ʻH1'<;.8ʻ
Q.ʻ<.ʻ;1, 6ʻ?'6ʻ=4 5ʻ?4 66.ʻV '-, 1ʻ5.ʻ / , 4>1.ʻ>,47.%
ʻE'47ʻ .77. / .<7ʻ .<ʻ ?1,<,<;.1ʻ5'ʻ >.6714;7 ,<N ;.6ʻ
,1>1.6ʻ.@ J.<7?,41ʻ5'ʻ?54<'17ʻ>.6? .7 -.6>.<,05.66.Iʻ
.5ʻ5'ʻ<,05.66.ʻ:.1>> 7' 1.ʻW'<7ʻ'01,J>.?>1ʻ-ʻ,51.ʻ#,<6M
7 747 ,<8ʻ- 46ʻ<.ʻ?,4-.0ʻ?'6ʻ ;, 6.1-.Eʻ>.6ʻ <67 747 ,<6ʻ
?'1.>ʻ 76%
.ʻ?'66.ʻ / ' <7.<'<7ʻ '4@ʻ,1>1.6ʻ>.ʻ;: .-'5.1 .ʻ>,<7ʻ%
;7'0 66. / .<7ʻ.67ʻ .<ʻ ?'V6ʻ 7B1'<J.1% ʻ .67ʻ - >.<7ʻ
=7 'ʻ5.41ʻ>J'1>ʻ-,46ʻ<;?, -;0?'6ʻ?1,<,<;.1>.64?

ʻ?1.66 ,<Nʻ-,46ʻ<.ʻ?, -;0ʻ?'6ʻ?,17.1ʻ4<.ʻ5, ʻ=4ʻ>.-1' 7ʻ
6 .@>;47.1ʻ:,16ʻ >.6ʻ5 / 7.6ʻ>.ʻ . / ? 1.ʻIʻ / ' 6ʻ>.6ʻ,1M
>1.6ʻ_fʻ. ;:.-'5.1 .ʻ .7'05 6ʻ ;:.0ʻ .71'<J.1ʻ ?.4-.<7ʻ
'-, 1ʻ641ʻ-,46ʻ4<.ʻ <E54.<;.ʻ>'<J.1.46.ʻ.7ʻ;,<71' 1.ʻ'ʻ
5'ʻ#,<67 747 ,<ʻNQ.ʻ ?1.<>68ʻ?,41ʻ.@. / ?5.ʻ8ʻ ,1>1.ʻ>.ʻ
'57.ʻ >,<7ʻ ,<ʻ'ʻ?'1 .% ,41ʻ>71.ʻ '> / 6ʻ>'<6ʻ;.7ʻ,1ʻ
>1.8ʻ 5ʻE'478ʻ ?,41ʻ5'ʻ < 4?'17ʻ>.ʻ6.6ʻ?5'; .68ʻE' 1.ʻ>.6ʻ
?1.4-.6ʻ>.ʻ<,05.66.N 5.6ʻ?1.4-.6ʻ6.ʻE,<7ʻ.<ʻ H1'<;.%
,! , ʻ- ʻ ʻ -(+*-(ʻN .- */ʻ *'$(*./ ($('ʻ
*('ʻ('# *,ʻ4+'ʻ(*ʻ .+*3(
ʻ $ *ʻ;ʻ ʻ *.$*+$'/ʻ5 $ʻ(',ʻ36(0+ $(.ʻ-(,(ʻ
- $,ʻ'+0 $.ʻ5 %$ʻ8ʻ+ʻ(*ʻ .+*3(ʻ,$*(ʻ3 $'ʻ$ *ʻ(,+) $(ʻ4 ʻ
#+$.(ʻ ('ʻ4.(0('ʻ-(ʻ*) (''(ʻ* (+$.('ʻ+ʻ +- $'ʻ$ *ʻ-+ ʻ
.-.(ʻ-(ʻ + ,(
) ʻ; $ʻ ('4.(+0('ʻ' *,ʻ
.-'+ ,+,ʻ+ʻ + ,(/ʻ+ ʻ $*'ʻ(',D$ʻ$*-)$,+) (ʻ5 ((''(ʻ4.GD
4+.(*,ʻ(*ʻ .+*3(;ʻ+ ʻ $*'ʻ(',!$ʻ$*-)$,+) (ʻ5 (ʻ4+.ʻ -('ʻ
3 $''+$.(' Aʻ #+ ,ʻ 5 D *ʻ +$,ʻ0(.$'3ʻ(*ʻ .+*3(ʻ (' $,.('
(2$9(ʻʻ (+ʻ (ʻ'*##$,ʻ4 .ʻ)'(.0(.ʻ5*$ʻ8ʻ+ʻ$-ʻ+*ʻ(ʻ+,,($,(ʻ
+ʻ +ʻ *ʻ,$,*,$ 7ʻ (ʻ3. $ʻ - *(ʻ5+(ʻ ((ʻ,ʻ$3$ʻ5 (ʻ %(4$.(ʻ
-(ʻ +ʻ $ʻ#.+* +$'('ʻ .ʻ.-9+ $,(ʻ- $,ʻ3 (*3(.ʻ- $$$,(.0(*$./
'+*'ʻ5 $ʻ0 'ʻ0(..$(Uʻ)$(*, ,ʻ .(*+$,.(ʻ3(,,(ʻ -$ʻ,$*3,$ *ʻ-(ʻ
*) ('(,ʻ-(ʻ* *ʻ*) ('ʻ5 (ʻ0 'ʻ+0(Uʻ4. ʻ3.$,(
- ʻ4. #$,(.+$ʻ -(ʻ 33+ʻ$ *ʻ4 .ʻ#+$.(ʻ *(ʻ+ ,.(ʻ)'(.0+1
,$ *ʻ 4. ʻ +ʻ 44.(''$ *ʻ-(ʻ +ʻ*) (''(/ʻ (ʻ3. $'ʻ5 D[- $,ʻ
-,.(ʻ -(#(*-,$ʻ+ʻ, 'ʻ3$, 8(*'ʻ#.+* +$'ʻ -(ʻ4.(*-.(ʻ-+*' ('ʻ
+3,('ʻ5 'ʻ#(. *,ʻ*$ʻ +ʻ5 +$,-ʻ-(ʻ*) ('/ʻ$$$ʻ+ 3 *(ʻ+ ,.(ʻ
(5 $0+ (*,(ʻ< *ʻ+44 + -$,? (ʻ* ('ʻ,%ʻ4+'ʻ, ,7ʻ *ʻ+ʻ(-(ʻ
('ʻ -$'4 ʻ$,$ *'ʻ -(ʻ-(3.(,'ʻ-(ʻ % '( ) ((Dʻ *ʻ+ʻ)$(*ʻ ʻ
5 $ʻ*(ʻ#+ +$,ʻ4+'ʻ4.(*-.(ʻ-$.(3,((*,ʻ +ʻ5 + $,(ʻ-(ʻ ʻ
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ʻ 'D(,(*-ʻ(,ʻ *ʻ'%(*,(*-.+ʻ (,(.*(((*,ʻ *ʻ4.($$-ʻ +ʻ
5 + $,(ʻ-(ʻ A ʻ *ʻ-(ʻ A ʻ
ʻ % ʻ;ʻ +ʻ-(3 .+,$ *ʻ $$,+$.(ʻ0 'ʻ4.('(*,(
*ʻ * (*,ʻ - $*, (.+*3(.($9$(E(&ʻ5*(ʻ0 'ʻ*(ʻ((0(*ʻ
4+'ʻ +$'ʻ(.ʻ'*)\$ʻ,(.ʻ % .-.(ʻ- ʻ (.$,(ʻ $$,+$.(ʻ* (ʻ,+ ,$%(
5*(ʻ3(? -(ʻf+$*,D 'ʻ+44 $5 (ʻ+ʻ -('4. ,(ʻ,+4,ʻ/ʻ(,ʻ(*1
3 .(ʻ ʻ-(' .,(ʻ,+*,'(,.+*9(.'/ʻ3+.ʻ ('4. ,(ʻ,+*,'#.+*3+$ʻ
(ʻ4 0+$(,ʻ4+'ʻ (ʻ.(3(0 $.ʻ ./ʻ4+.ʻ (ʻ-(3.(,ʻ5 D *ʻ0 ʻ
4. 4 '(/ʻ *ʻ'-44.$ (ʻ ('ʻ,+, ,'ʻ-(ʻ .-.(ʻ-(ʻ -$*,! $'ʻ
(,ʻ (ʻ'(. (*,ʻ-(ʻ 6,) 3,(ʻ5 D$ʻ#+ +$,ʻ4. * *3(.ʻA(ʻ-(1
+*-(ʻ - *(ʻ5 (/ʻ4+.ʻ3(ʻ ((ʻ--(.(,/ʻ .-.(ʻ- ʻ (.$,(
$ $,+$.('ʻ $,ʻ# *- ʻ+ ʻ ((ʻ$*ʻ,+*,ʻ-+*'ʻ .-.(ʻ-(ʻ +$*,!
$'/ʻ(,ʻ +ʻ-(3 .+,$ *ʻ-(ʻ *ʻ.(4 +9(('4+.ʻ3(('-(ʻ + !ʻ
,.('< *ʻ+44 + -$,? V +ʻ-$ʻ3 'ʻ$ *ʻ(ʻ,ʻ#(. -4D
ʻ + '#+$,ʻ(3, .('-('+.$3 ('.(- 9('-+4.(' (')1
'(.0+,$ *'ʻ-(ʻ-$0(.ʻ ( ).('ʻV 'ʻ *,ʻ-(3.(,('.('5 (ʻ
* 'ʻ(+ʻ+0 *'ʻ.+44 .,('-+*'ʻ(-(.*$(.ʻ* (.
ʻ-@+.+) .(ʻ-(3+.(ʻ5 $ʻ*(ʻ4.(*-ʻ+ 3 (ʻ4+.,ʻ+ʻ +ʻ
-($)(.+,$ *ʻ*' .ʻ .# ,$3(
+ʻ'-+ 3(ʻ(,ʻ (0((ʻ+ʻ,. $')(*.('(,ʻ-((D

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ʻ F I ʻ, ʻ *

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- **(ʻ4 .ʻ'*33(''(.ʻ ʻ (2+*-.(ʻ'(+ 6+.*+$'ʻ< *ʻ+4!ʻ
4 +*-$, ?
.ʻ (ʻ.+44 .ʻ- ʻ3 $,(ʻ- (4 +3((*,/ (ʻ-(3.(,ʻ'*$!ʻ
0+*,ʻ(ʻ,ʻ.(*- ;
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&ʻ ., (('4.(4 ' 'ʻ+ 2ʻ+- $*$ʻ,.+,$ *'ʻ-('ʻ- !ʻ
+$*('ʻ*+, *+ 2ʻ4. (--(. *,/ʻ3 * $*,((*,ʻ+0((ʻ ('ʻ
3 .4'ʻ+- $*$ʻ,.+,$#'/ʻ+ʻ+*ʻ(,+,ʻ(',$ +,$#ʻ-(ʻ+ʻ0+ (.ʻ 3+1
,$0(ʻ-(ʻ(-$#$$3('ʻ-+*' ('5 (('ʻ-(.*$(.ʻ*,ʻ# . (ʻ(.ʻ
,+) $'ʻ((*,
%ʻ3$ ʻ +ʻ)+'(ʻ-(ʻ +ʻ0+ (*.ʻ'(.+ʻ+**ʻ-(*$(.ʻWXʻ-(ʻ+ʻ0+ (.ʻ
(',$ +,$0(ʻ-(ʻ, *' (' $(2ʻ $)ʻ ('3 .4'ʻ+- $*$ʻ,.+,$#ʻ (;ʻ
-3+$3('ʻ,$(**(*,ʻ (*.ʻ'(+*3(ʻ/ʻ(,ʻ(*,+*,ʻ(*ʻ'(.+ʻ
4+8(ʻ4+.ʻ ('+- $*ʻ,'ʻ,.('(,ʻ,$3$+) ('
ʻ (.+ʻ+*ʻ .4 'ʻ (ʻ-(3.(,ʻ- ʻ H#(0.$(.ʻ-(.*$(.ʻ(2(3 ,(ʻ
-+*' ʻ'Gʻ3 *,(**
:ʻ BBBʻ (ʻ3 .4'ʻ+- $*$ʻ,.+,$#' '(. *, .(ʻ4 $$ʻ+) ('(*ʻ
(.ʻ4. 4.('4.$0(ʻ* 4$ʻ/-(ʻ (2(3 ,$ *ʻ-(ʻ4.('(*,ʻ-ʻ
3.(,ʻ(,ʻ3 ($ʻ'ʻ *ʻ,(* ('-(*ʻ44 ,(,ʻ *ʻ'ʻ(ʻ-ʻ !ʻ
+9('ʻ(,ʻ$*,(. ,ʻ/ ʻ*ʻ3 *ʻ-5*(*3(ʻ)$9('Q *ʻ4+8(.ʻ(ʻ
,+,ʻ+, Uʻ'3(0(.ʻ-('- +$*(*,ʻ*+,$ *+*ʻ2/ʻ(,ʻ2ʻ, $ʻ
+ ,('5*ʻ ʻ+44+.,$(*,ʻ+$'ʻ(*%4 0 $.ʻ.$(*ʻ.(3+ (.ʻ
+ 2ʻ+- $*$ʻ,.+,$#$ ('ʻ:

%HK 71I#.ʻ< .67ʻ?, <7ʻ?, 1ʻ1.?'<>1.ʻ>.ʻ-' <.6ʻ
5.11.4-6ʻ =<.ʻQ.ʻ?1.<>6ʻ5'ʻ ?'1,5.8ʻ. .67ʻ ?'1;.ʻ=4.ʻQ.ʻ
?. 6.ʻ=4E78ʻ5,16=4.ʻ5'ʻ<'7 ,<ʻ.67ʻ,05 J .ʻ>.ʻ-. 55;1;55.G

/ . / ;'641 5.6 / .641.6 >.'>.E.<6.'=4 .55.' " ?1 6.6 8 '
.65 ;66. 5 .5 =4 .55;'6';:.' , 5 .55.' .< .67% .' ; , / 7>'
> ?5, / '7 =4.' / " ;:'1J.' >.'1.46 5 1.' .@71' 7 =4.'
-, ; ' > 4<.'5.771.' ,E5 ; .55.'>.' '7 6O,<<.' .Q >'7.' >='
C ' >.' ;.' / , 6%

W .';,55.J.'.5.;7,1'5 .7 5.' ;,55. J.' >.6 ?1 <;.6 6.'
6.<7 1'??1,;< 68 .7 5 .67 ` 45E.'>.' 5.416 ?1 <; ?.6
5< ' ?1 ?'1'7, 1.'=4.'5.6 < < 671.6 7<?. '
1 '4@ ,47 >7.' ; : '176 ' > .<-,V.1' " . / ?.1.418 ?,41'
5.'?1 .1'> ,1>,< .1'1'1: . / .<7 >.6 ;.1;5.6% .-.<. '
7<.<7 >4 'Q4 O = ' '-' 7?'6 .7.'?1.-48 .7 =4 ' "
?'1 ' <. ;.66 7;1'>.6 E,1 / .6 > 7.1. 7.6 >.' ; .55.6>,<7
,< .7' 7;,<-.<48 <.'6.1''> 5E.1 ' = .'5.'7. / ?6 <7,6 '
6' 1.'?,41'1.;.-, 1'>.'<,4-.'4@ ,1>1.6% < >,<<.1''
'' ;.' '5.';'1';7 1.'>.'1;;.O >.' / ? 1.%Y

,46 '1,<6 > '471.6 '- 68 / ' 6 <,< .<;,1.' ,EE . .568
4' ?1,4-.<7 5'' < ;.66 7>' >.' 6 , ;;4?.1 6.15.46.7<.<7
* .'1'1 / . / .<7 >.6 E-,<7 E.1.6% .'>. / '<>.'=4.'5.' / G
651.'>.'5'' J4.11.'.7 5.' / < 671.'>.' <7.1 .41 6, .<7
;.:'1J. 6 >.' -.< 18 >.'>.4@Q,416 4<8 1.<>1.';, / ?7.'
" 66; / O5..'>.6 / .641.6=4 56'41,<7?1].6% ' '47
5.%> 1.8 O.'4;,4? >.' -,6 >. .1.76 <.'6 .@.;47.<7 ?'68
,4' 6 .@.;47.<7 > 4<.' / '< 1.' ?'17 .55.' .7 <.@';7.%
'1' .@; / ? ;8 -,46 '-.O ,1>,<<>'=< 5 6.1' 7 E' 7 4<
'1 / . / .<7 >.' *(8 ' J'1>.6 <'7 ,<'4@8 ,46 '-.@ >E5
;1, 1;' =4,'5.' ;' / ? E,1< .' " '1 6 >'<6 5''?5' <.'>.'
! ;<.5 .8>'<6 4< .4 , '5''Q.7 <.66..675 -1.;''7'4716
5.6 5.<7'7 ,<6 .7 " 7,<6 5.6 ? .J.6 =4 ' .<.1-.<7 . '
4.1J .' .7 ;,11, / ?.<7 5'' 1.1748 V 1.67.1' 7 =4.'?.<
>.' ,416% 8

' ' >. / '<>.' : .1' .<;,1.' '' / 4 7 '4 / < 671.'>.'
5'' J4.11.' 6 5 6'-' 7 =4'<>' ;.' ;' / ? 6.1' 7 5.-'8 6 5
6'-' 7 =4'<>' 6.1' 7 E,1 / .'5.' ;,1>,< >.'71,4?.6 =4 '
>, 7 J'1< 1'<,6 E1,<7 / .6I 5 / " 1.?,<>4 I .'<.6' 6
?'6% ' ' >. / '<>.' '4 ;, / / '<>'<7 >.'5'' J'1>.' '7 ,M
<'5.' 6 ' ;.' ;' / ? '-' 7 .7.'E,1 / .' ?'1 6,< ,1>1.I 5 / ''
> 7 E,1 / ;55. / .<78 .5 >.-'<7 7,<6 5.6 / 4 671.68 =4.'
<,<% <E 'Q ' ' '?? 6 =4.';.'1'66.1'O5. / .<7>.'J'1>.6
<'7 ,<'4@ " .7.'E,1 / .' '-'<75.'7. / ?68 .7 =4.' '47,1 7.'
6.45.'>4'>.?'17. / . 7 ''?1, -,=4.8 6'<6 >,47.'>'<6
5.6 / . 55.41.6 -4.68 ' .< < 6'<6'4.<4 ;,<;.17
'-.;'5.' / < 671.% ' ' ?,<667'?546 5 , <8 ;, / / .'Q.' 5.'
>.-' 68 / .6 =4.67 ,<6 641 ;.7 ,OQ.78 .7Q ' '>. / '<>.'
'4 / < 671.'>.'5'' J4.11.'6 5 .7' 7 '466'?.<8 .7Q ,6.'5.'
> 1.8 '466' / '5 <E,1 / .' >.6 1'66. / OE. / .<56 =4 ' 6.'
E, 7>'<6 5.6 > ?'17. / .<76% 5 / '' > 7 =4.' ;.5''>7' 7
-1' '.7 71,? -1' I =4 5 J<,1' 7 'O6,541' .<7 6 .6 5.M
J ,<6 >.'J'1>.6 <'7 ,<'4@; ' >, -.<7 6.1- 1''5''>.M
E.<6.'>.6 E1,<7 .1.6 .7' .<7 E,1 / >.6%

' ;.'1.; 58 -,46 -,46 .7,<<.O 6'<6 >,47.'>.'-, 1'
= '.@ 67.''466'?.4 >.'1'??1, ;:. / .<78 '466'?.<'>.%
1.5'7 ,<6 .7 > :'1 / ,< ;' .<71.'5.6 '> / < 671'7 ,<6 >.'
>>?'17. / .<7 .7 5.' / < 6E.1.8 >.' -, 1' =4.5.' / < 671.'1
>.'5''J4.11.8 '' =4 ' '??'-7 .<7 5''>.E.<6.'>4 1,V'4< .8
<.'6, 5 ?'6 <6714 7 >.' ;.'=4 6.'?'66.'>''6 5.6 ` ?'17. '
/ .<768 .< .@.;47 ,<'>.'-,6 >.;1.56 .7 >.6 ,1>1.6 =4 5
>, 7 '-, 1'>, / .6% .< >.'?546 .E: 'V'<7 =4.';.77.' <'
;41 .8 =4.' ;.77.' > 66,<'<;.' .7 ;.77.' > -.1J.<;.'>.'
/ .641#6% .' '>,<.'=4.'5.6 / < 671.6 6, .?5 '?'
?.5.6 ?,41 -,46 1.<>1.' ; , / ?7.'7'47 >.' .@.;47 ,< >.'
-,6 >. ;1.768 =4.'>.6 ,4-.55.6>4'>.: ,16 =4 '>, -.<7
-,46 71.' ,E5 ; .5 . / .<7 ; , / / 4< =4.. %

55<. E'47?'6 =4.' <,46 J<,1 ,<68 ?'1 .@. / ?5.8
=4.8>'<6< 5 / , / .<7 ,< 5.'6'547 >.' 7'7 1.?,6 '641
5''> 6; ?5 <.' / 5 7' 1.8 5'' 5.<7.41 =4.' ,< / .7>'<6 5''
<, / <'7 ,< >.6 ;:.E6 .67 .@71. / .8 'V''8 .7 ; .675.'
7'4@ 5.'?546 / ,>.148 5 V '' * ' ;,5,<.56 '' <, / / .1I
>'E 6 ?546 .416 1.J / .<768 5 < .@ 67.'?546 >.' , / / '<'
>. / .<7 =4.' >'<6 5.6 / ' <6 >.6 6,46 ,E5 =Q.16% & <
/ 41 / 41.%PQ '75.67.'5'' O,<<.'E, '>.6 < . / O1.6 >4 ' '
/ 7.' / 5 7' 1.'=4 '6,<7 ;,<-.<46 '-.;' ?, >. ;.6 E' 56I
Q '77.67.'5.6 >.;5'1'7 ,<6 >.'?546 .416O, :6 ; 7,V.<6 =4 8
'V'47 ?'1;,414' 5.6 >.?'E7. / .<768N,<71'??,17;' =4.'
<> 6; ?5 4

?'1;.' =4,' 5.' 1.66,15 >;'5'' > 6; ?5 <.' / '<=4.%I ?'-.'
=4 5 < V '' ?, <7 >.' ;:.E6% & < / 41 / 41.%P Y' ?.<7
6 >7,41> 1' 641 5.6 64 7.6I / ' 6 -,46 '-.O ;:'1J.'5.6
/ < 671.6 .7 -,6 ;, / 7.6 >.'1. / ?5';.1''4?1.6>.'-,46G
4<.' ?'17 .' >.6 E, ;7 ,<6 >.' 5'' 1,V'47. 8 .7 <,46 '
6, / / .6 6? ; '5. / .47 ;:'1J.6 >.V. 55.1'' .@.;47 ,<
>.65, 6%

'<6 4< / , / .<7 , :8 6 5 < V ''?'6 >.'-.1 7'O5.>' -
*.18 5 V '' '4 / , <6 >.6 > 6?,6 7 ,<6 :,67 5.6 '' ;1' <
1.' .7 '' 1.?,466.18 # .67 2 <,46 '' ?1, -,=4.1'-,71.' '7M
7.<7 ,< 6<1..6 >.7' 56%

.' -,46 ?1 .8 % 5.'?1 ` >.<78 >.' / .E71.''4@ -, @
/ '' / ,7 ,< 641 '11 -.'?>1 ,> =4.'>.6 < < 671.6 '' 5''
O'11.' 4 >'<6 66. / O5..%#.'< .67?, <7 >.' / ,<;:.E
=4.'Q.' -,46 E' 6 ;.77.' ?1,?,6 7 ,<% .' ;, / 7.'> ?5,M
/ '7 =4.';1, 1' 7 / '<=4.1''4'?1;< .1'>.' 6.6 >.-, 16
6 5 <.'-,46 '-.17 66' 7 ?' I .7 ; .67 .< 6,< <, / '=4.'Q.'
-,46?'15.%

% K 7, ! NQ.'.E, 6 >.-, 1'.@?,6.1'=4.5=4.6 E' 56
=4 ' 1.?,<>.<7 '4@ '66.17 ,<6 >4 ?1 ,? 44<7% ' '' ?'15>'
>.'5'' / 457 ?5 ; 7.'>.6 ?5';.6 > ,E ; .16 64?.1 ;4E6 .<M
;,1.' -';'<7.6% .'E' 7 .67 -1' I / ' > 'O,1>' ,< 6 , . '
;4?.' .< ;.' / ,< 117 2 5.6 <, / / .1%8 ,4 ?5<7>7 ; .6 <,M
/ <'7 ,<6 -,<7 >71.' ';;. .1..6 ?'1' 4< 1'??,17 =4,'
-,46 E.1''>. <' < % / / .1V 8 7.<>'<7 '' <> =4.1'5''
E,1 / .' ';74. 5.'>4 1. / ?5';. / . 7 >'<6 1'E<E.;8 ;'1' 5
6.1' 7 71,?'5,<J > V '??5 =4.1'5''E,1 / .' ,1> <' 1.'>.6
;,<;,416% '77.67.'=4.'5.6 / .641.6 =4.'-,46 '-.O ,1 '
>,< .''4 / < 671.'>.'5'' J4.11.' >.' ?1.<>1.'6 ,<78 '4
/ , <6 .< ?'17 .8 .@>;<E..6I 5'' ; , / / 66 ,< >4 J. , .8
=4 '>, 7 .@' / <.1'5.6 ?5';.6 E,17.68 .67 <, / <..I > .'
.67 / / .'?'17 .% .'J.<.1'5 4; <.1'' .7;'??. .?'1'
5.' / < 671.'?,41; , / / '<>.1'.< ;:.E >'<6 5.6 >.?'1 '
7. / .<76 >.6 ; >.-'47 ?1,- <;.6 >.'H1'<;:. #, / 7.'.7
> 56';.% & < 'Q ?5'4> 7%P % ,;:'1'O.'4 'V'<5 >.M
/ '<>.' '' E' 1.'1.5.-;1'5.6 #' / ?6 >.' 7 '<;:..'>.' '4 '
O.4J.'.7 >.' ! -#78 >.6 E,<>6 ,<7 .7>'.<-,V.6 ?,41;.7
,5Q.7%

34'<7Q' T J'1>.6 <'7 ,<'4@ .5 '' 5'' ; ,1
1.6 ,<>' ;' <.;.66' 1.' =4 ' >, 7 .@ 67.1' '' ;.'64Q.78
.<51;'5.' / < 671.'>.'5''J4.11.'.7 5.6 '> / < 671'7 ,<6 >.%
>.?'17. / .<58 5.' 6 5.<;.' >.' -,71.'>.;1.5 '' '11 7.'5.'
/ < 671.' ' L8 .7 5 '' 6.<7'54 <7> / .8 =4 5 V
'41' 7 >.6 <;,<-.< .<76 '' / .771.8 .< J.<.1'58 8.76'<6
1.6.1- .8 5.6%J'1>.6 <'7 ,<'4@ >'<6 5.6 / ' <6 >4 / '
< 67.1.% # .67 '4@ >.?'17; / .<%76 '' 5.-.1'5.6;,1?6 >.'
J'1>.6 <'7 ,<'4@I ; .67 ;<% / 7.''4 / < 671.' '' <> =4.1'
5.6 5 .4@ >.'1'66. / O5. / . 5 .7 5.6 ;:.E6% .6 >.?'15;1'
/ . 76 ,47 4, / / > >.6 ;, / / 66' 1.68 / ' 6 = .5=4.'
O.5.'=4 56 / .77.<7 >'<6 5.416 ,?.1'7 ,<68 ;, / / .' 5 V
''7,4Q,416 >.6 > E5 ;4 7 ' 5,;'5.6 > .@;;47 ,<8 W 6 '
6. / :5>.' <;'?1.<>'?'6 >.6 / .641.6 ?546 / / .> '7.68 6 %
.55.' <.' 1.- ' >.6 ;, / / 66' 1.6 >.' ?,4-, 16 .;.6 '
6' 1.6 ?,41 5.-.1 ;.6 > E7 ;457. 6 5, ;'5.68 6 '5'' ; ,11.6 '
?, <>'<;. '-.;' .' / < 671.' .67 <>..66' 1.8 6 5 E.47 5 '
;1 1.' ?,41 5'' >.; 6 ,< >.' ; :'=4.' ?, <78 / > / .'>;%
; :'=4;% <; >.47 6.;,<>' 1.8 Q ,6.' ?1.> 1.'' 66 '
O5..' =- 5 .67 / ?,66 O5.' =4.' 6.6 >.1< .16 >.;1.76
6 .@.;47.<7 '-.;'5'' ; .5.1 7.>.6 1'O5.%

';5D 'G ,46 '-.O >..E.7.'=4 4< .<-,V.'?'1'
7 1' 7 ?,41 ,1.<714 '-.16 .- =4.'>.'K 5.% .' / < 671.'
>.'5''J4.11.' / '' > 7 =5 .'>.<4 6 5''646?.<6 ,< >4 ?,4 '
-, 1'1,V'5 ,< <.'1.;,<<' 71' 7 ?'6 5.' ;'1';7:1.'> 4 ''
.<-,V.'=4 '< '41' 7 >.'?, -, 16 =4.'>.'5''?'17 >4 / '
<]71.>4'>.' 66. / O .'<'7 ,<'5.% , > ' >,<.'.<;,1.'
4< >.;1.7 =4 ' < .67 ?'6 .@>;47 % A $

' O [I .6 / .641.6 =4 ' ,47 .7.'?1>6.<7>.6
?41 5.'?1.,? <'<7 <.' / .'?'1' 66.<7 ?, <7 1. / .> .1'<
/ '5 >5 .' / '< > .' .E ;';.% ,46 '-.O '> / 6 >.'?1.M
E.1.<;.'5.'J,4-.1<. / .478 ?'1;.'=4.'-,46 .< '-.O 6.<7'
5''<;;. 6 7;' ?,41 4< J1'<>' . / ? 1.' & ,< / / <41.'P 8
.7 ; ;65 >.'5''=4.'Q.' 7 1.'5'' / .641.' =4.'-,46 '-.O >E5
?1.<>1.% 4Q,41> :4 ' -,6 / < 671.6 6,<7. / / ' 5,7

/ 5.8 ?'1'6.6 ; , / 7.68 ?'1'5.6X,1k\6'&5 / < 671'7 76I 56
<.' ;,1 7 ' 66,<7 1 .<8 56 < ,<7 5.'?,4- , 1 >.'1 . I 56
5 .' 6,<7 >,<.' ?'6 1.6?,<6'05.6 .'?1,0 [.'=4.' - ,46
; : '1J .0 5.' / / 6 1.'>.'5" J4.11.'>.'7,<6 5.6 ?,4- , 16
<.;.66' 1.6 ?,41 5" >.E.<6.'>.6 E1,<7 E.1.68 =<.' ,<6
5.41 >,< / .0 7,<6 5.6 / ,V.<6 =4 56 >. / '<>.1,<78
/ 'E6 =4 <64 7.' - ,46 5.6 1.<> .01.6?,<6'05.6 641 5.<1
7.7.'>.' >-><. / .<5 .6 7?N 6 <;1,V'05.=4 05 ;@ 67.'
?1E.6 >.' '1 6 4<'1'66. / 05. / .<7 >.'78) ' : , / / .6 >.'
J'1>.6<'7 ,<'<@6'<6 ,1>1.8.7 / / .' " <64 >,'7< '
< 671.Z & < / 41 / 41. 6E ;.' ' @ '> / < 671'7 ,<6 >.'
>>?'17. / .<7G " >>E.<>1.' 5.6 E1,<7 .1.6Z #: ';4< 6.'
/ .5.1" >.' 5" >.E.<6.'>.6 E1,<7 .1.68 .7 5.6 E1,<7 .1.6
<.' 6.1,<7?'6 >7 E.<>4.6 ,< .6 5.6 E, 6 =<.'?546 .416
- ,5,<7>6 >, - .<7 71.' ; ,<6<57>.6 ?,41 4<.' ,?.1'7 ,<8
5 YV " =4.' >.'5" 5.<7.41 " '7E.<>1. ,46 ' - .0 4<.'
- ,5,<7>I 5 =.' - ,46 E'47 ?546=4 4<'01'6 ?,41 .@ ;4 '
7.1 40, < > :4 ' '4 ; ,<71' 1.' - ,46 <.' - ,46 ; ,<7.<7.0
?'6 >.' E' 1.'>.6 5, 6I . .67 - ,468 ; .'6,<7 - ,6 ; , / 7.68
,4 .< ; .'6,<7 5.6 >.?'17. / .<768 5.6 / 4< ; ?'5 7 .6
4 '&V>,<<.<78 ,4 = <'11E 5.<7 5.6 1, ,4- . / .<76 >.6
71,40 66' #.'=4.' 2.' ?1,<,6.' . .67 >.' >. / '1 >.1'4@
/ < 651.6;.'=4 ' . / ?; > .'> 'J 18 ;.'=4 5 ;41 E'47
?,41 ' J 18 ;7 '5,16 >.' 5.41 >,<<.V 7,<6 5.6 / ,V.<6
6 0 9 ' ' '1.<>1.'1.6?,<6'05.6

' \ B I # ;67 5" #,<67 747 ,< .55. / E / .'=4 '
" ; : '1J.'5.6 J'1>.6 <'7 ,<'<@ > 'J 1 .< - .174 >.6 1.M
=4 6 7 ,<6 >.6 ; ,1<6 '> / 7 671'7 E6I - ,6 >.1< .16 >.'
;1.76 ,<7 ; : ' J.'5.6 ; ,1?6 '> / < 6 '7 E6 >.' E' 1.'5.6
; ,<6;1 ?7 ,<6 - ,5,<7' 1.6 =4.' - ,<6 ' - .0 ,1>,<<7E.68
.'>.?'17; / .<5 >.' '1 6 " >E5 E ,4 / 1 6,< ; ,<7 <M
J.<7I '> 4 < 671'7 ,< < " E' 7 ;' / ?.1 ; .' ; ,1?6 =4.'
?,41 5.'1. / .771.'.<71.'5.6 / ' <6 >4 ?,4- , 1 .@.;47 E8
=4'<>'5.' / < 671.' - ,<>1" 6 6< 6.1- 18 ,4 - ,<7 = 7.'
; .' ;' / ? < .67 ?'6 .<; ,1.' .->Z # .67 ?'1..'=4.'5. / '
< 671.'<.' " ?'6 ,1>,<<. I ; .67 ?'1; .'=4.'5.' / < 671.'
< " ?'6 '66.0 54 - ,71.'>. .1.78 ?,41 - , 1 =4.' - ,46 5.'
; : '1J .0 .@?1.66 / .<7 >.' >,<<.1 >.6 ,1>1,6 " ..6
*(87P ' J'1>.6 - ,5,<7' 1.6 >,<7 - ,46 ' - .0 ,1>,<<>'5"
; ,<6;1 ?7 ,< 5 < " ?'6 >,<4>'>.6 ,1>1.60 . .67 ?'1
6 " E'47. ,46 ' - .0 7,47 E' 7 ?,41 ';5 ,< >4 ?,4- , 1
.@.;47 E85,16=4.' - ,46 ' - .0 ' '4@ / < 671.6 > .71.'
7,46 5.6 0, 416 .7 " ; : .=4.' : .41.'>'<6 1 66. / 05..'<' '
7 ,<'5.8>.' - .< 18=4'4>' 56 - ,4>1,<7854 >. / '<>.15.6
/ ,V.<6 =4 ' 5.41 / '<=<.<7 '??4 .' >,<.'>.'7,47.6
TB .6 E,1; .6 5" / ,7 ,< >.' H1.7; '48 .70.>.<7'<>.'
=4.' 5.6 / < 671.6 6, .<7 ; : '1J .6 >E16.'1.1 >1.'>. / ' <
>'<6 66. / 05..

! ,4?7 ' N ,41 ' .;> 1.1 5" E,1 / '7 ,< >.'
'1 / >.'>.6 J'1>.6 4'7 ,<'4@8 0.' ;1, 6 =4 5 E'4>1' E
.<- ,V.1 >'<6 5.6 >.?'17. / .<76 5.6 <6714 ;7 ,<6 =4.'5.'
; , / 7.' / 5 7' 1.' ' - ' 7 1.> J..68 ?,47 .< ; : '1J,1 5.6
; , / / 66' 1.6 =4 8 >4 6. >.' 66. / 05..4'7 ,<'5.8
>.- ' .<7 '55.1 ?1.6 >.1 " ; .77.'E,1 / '7 ,<

4< 6IU. < ,??,6. " ; .77.'?1,?,6 7 ,< <
- .47 7,40,416 <,46 1' / .<.1 " 4< / ,>.'>.'J,4- .<7. '
/ .<7 ?'1 ; , / / 66' 1.6 .' - ,46 1'??.55.1' '78,4c=416
; .'71' 7 > : 67, 1.88 & < / 41 / 41. 34'<>'5.6. 7 '
J.<.1.4@ ,<7 .<- ,V.'>.6 ; , / / 66' 1.6 >'<6 5.6 ?1,M
- <;.68 ' ,<7 .7.'> 6?.16.68 .7 0 .<7E77 ?,<> 6 & <
1 7 P #.'=4 ' - ,46 / '<=4.' ; .67 4 ' >.;1.7=4 ' / .77;'
.<71.'5.6 / ' <6 >4 / < 671.'7,<7.'1'47,1 7.'<.;.66' 1.8
.'>. / '<>.'=4.'5.' ; , / 7> / 5 7' 1.'6, 7 7.1 / ' >.7.< 1
6 " 6.'<; .'6'<6 >.6. / ?'1.18 <6=4 " ; .'=<.' ; .' >.;1.7
<,46 6, 7 ?1>6.<7. 34 5 6 , ; ;4?.' 5 <,46 ?1.6.<7.1
>.6 ?1,0.76 >.'5.J 65'7 ,<8 .7 =4 5 <.'6? / 5.'?546 >; '
,00.76 > '> / < 671'7 ,<

?1E.6 =4.5=4.6 >.: '76 5" > 6;466 ,< ;67 E.1 / ..8
.'>..- .7 64 - '<7 .67 1.<>4 S
W 66. / ?5..'<'7 ,<'5D >.;1..'=<.'5.J / < '71.J J.- ,<7
7.<<" >.'6.'1.<>1.'>,1.<' - '<7 " .." 6.'<..'8 >.'> <0 0?41J
<<8 " >.4@ .<1.J8 " 1.E5.7 >.' <E,-< .1 >.6 ?1,J1.6>.J
/ .641.6'7.<>'<7.6 " '6641.1 5" >.E.<6.'>[E,V'<<.8 .7 >.'
>,<1.1 5.6 .;5' 1; 66. <;<76 =4 '5.41 6.1<<7 >. / '<>>'8 ,<

5* $ " 3. $. *,' - (0 $.'3 *$5 (.' ' .' (")',+3 ("5 $
4(*0(*,' ,.+0(.'(.' (2(3*,$ * - (" - (3.(,'/ (,' (" 8(*" ("
4 " 3 *0(*+) (" 4 .' +33((.(.' (' .+''( ) ((*,' - (+
.3(' *+,$ *+ (/ + ($ $(*.(' .9+*$'+,$ */ ('.(,+) $" ((*,'
- (' + - $'3$4 $*(' (,' - (' (2(.3$3(" $ $,+$.(+/ (,'+*,.(") (,"
$ *'$ (. ,'4.(''+*,
?, '+(.+) ((- (3.(,('5 (' (' 3 $,(' ,*$ $,+$.(4, 4 '(.+
** 4. (,' - (' - (3.(,' 5 $ #$2(.+' ,(+ 8(*" - (' 3 ,.('4 *!
- +*3(' +3,$0(' (*,.(' (" $*$',.(" (,' (" - (4+.,((*,'/ +*
' (,' - (' + (0 (' - (" 9+.- (" *+,$ *+ (" 5*$ - $0(*,' +.36(./
(,' '5.' + *+, .(' - (" .- .(" 5 ' (+ - (4+.,((*," - (0. *;
.(3(0 $.' - (" $*$',.(+ '3(' ' (,

$ 8'8 4< >.6 71, 6 ; , / / 66' 1.6 .<- ,V>6
>'<6 5.6 >.?'17. / .<76 >4 B '47.7 >4K '6 5 <8 .7 >.6
,6J.6N ,16=4.' - ,46 <,46 ' - .0 ; ,<5 .'5" / 66 ,<>,<7
- ,46 ' - .0 0 .< - , 54 <,46 : , < ,1.18 6'<6 >,47.' - ,46
< ' - .0 ?'6 .< ?,41 4< =4.' ,00.7 5" ?1.67'7 ,< 54 6.1 8
/ .<7 >.6 71,4?.6 >.' 5 J<. I - ,46 ' - .0 - ,454 >.'?546
; ,<<'571.' .7'5 >.6 ?5' ; .6 .7 5" > 6?,6 7 ,< >.6 .6?176
>'<6 5.6 >.?'17. / .<76 E1,<7 .1.6 , ' - ,46 <,46 ' - .0
.<- ,V.6I - ,<6 ' - .0 .< ; ,1.'>.6 1.'> <6714 1.8 ?'1 5.'
; , / ?7.'?405 ;'>.'<,71.' / 66 ,<8 7,46 5.6 ; 7,V. 6 >.'
. / ? 1.8 ; , / 0 .< - ,46 - ,46 , ; .4? .0>.'5.416 1.7.'
; , 71.'5.6 '77'=4.6 >4 >.5 ,168 '?1 ' ' - , 1 / ' <7.<4
'4 >.>'<6 .; '5 <.'=4.'5.'?546 - ,5.<7 >.6 ,1'J.6 .7'7
- .<4 71,405.S I ?,41 1. / ?5E1 - , 1.' '77.<7.8 <,46 <.'
- ,46 1'??,17.1,<6 =4.'>.6 E' 56 6 / ?5.6 + ' '> '0,1>
<,46 5 @,<" <,71.' '77.<7 ,< 641 5.6 V 55.6 >.' J4.11.8
<,46 <.' - ,46 .< ?'15.1,<6 = ' - , ; '?.4 > >7. > .I
#467 <.8 4< >.'<,6 ; ,55.J4.68 " E' 7 4 ; .'640.7 '<
71' - ' 58 ?1.6 ' - , 1 - 6 5.' ' - . ;'5.6 J.< . 16 5.6>5E; '
1.<7.6 ?5' ; .6 E,15 5 . .68 5 " E' 7 4< 4 . / , 1.'=4 '1. '
E.1 / .' 5.6 ,4-1'J.6 " '0, 4.18 , .4@ ' ; , / ?5.7.18 .7
5.6 1.?'1'7 ,<6 " E' 1.' ' ;7 =4 ' . / 0 466.' .<; ,1.8 ' - ,'
5 <.' .6=4 66.'>.6 ?5' ; .6 >.'>.E.<6.8 5.' <, / 01.' .7 5
=4'5 7.'>.6 71,4?.6 <.; .66' 1.6I .7 5" <'741.'>.'5.41
6406 67'<; . < V 71, - .' '466 ' <> ; '7 ,< >.6 / ,V.<6
># J'1>.1 5.6 ?'66'J.68 5.6 >. 5>6 .7 5.6 - >.6> 4<.'
?5' ; .' " 4 .' '471.

#.'7<> / , 1.'=4 8 ?'1'6" <'741.8 <.' ?.47 >71.'1.<>4
?405 ; 6.1" >>?,6.' '4 ; , / 7> < 5 7' 1.I ; .?.<>'<7
<,46 <.'?,4- ,<6 <,46 > 6?.<6.1 >.' - ,46 .< ?1.6.<7.1
< 5 '?.1;4

<71.'5.6 - 55.6 6 74>.6 641 5" 1 - .'J'4; : .'>4 : <8
=4.' '17 >.' ' 0 '4 6 .67 .54> > " 1.<>1.'E,17.68 >, '
/ E7.' 6 <J45 >1. / .<5 ; .55.' >.' 71'60,41J ,4 6'5
=4 '4 / ,V.< >.6 .'4@ .55.' <.' ?1.6.<7.' =4 4< E1,<7
> '77'=4.N 6,< / '7>1 ; ' 7.' 5' 66.' 1 ' " >>6 1.1
J'1< 6,< .67 64E7 6'<7.'?,41 5.' / , / .<7I .55.' .671.<'
E,1.>.'>.' ' & '4'7 ,<'4@ 1 ' >.' ' - . '>.6
71,4?.6 >.'5 J<.8 <.'5.41 ; .>.<7 .< 1 .< >'<6 5.6 / ' '
4-1.6 =4 B6 E,<7.<6. / 05.'>.4@ E, 6 5" 6. / ' <.
,46 ' - ,<6 >7> 7> / , <6 > 4<.' >>E.<6.' ; .<71.'4<.'
'77'704.'6 / 45>. < " E' 7 >.6 6,17 .6I ,< .67 1.<71>
>'<6 5.' / . 55.41 ,1>1. <.' <4 5 ,< " 64??,6.7 <>
,5.17.I ,< " 0'7745'J.<.1'5.8; : ' ;4< " ?1 66,< ?,67a
.5>'<67,47.6 ; .6 >- , 47 ,<6 5" J'1>.'<'7 ,<'5." >J'5.'
5.6 71,4?.6 >.'5 J<. . '16.<'4@ 6,<7 ; ,<=>>7;< .<7
E,4 / 6> '17 5 .10.1 "5" ->1 7.8 56 6,<7 >7 <6 ; .' / , / .<7
4< ?.4 >>J'1< 6>.E46 568 ?'1; .'=4 ,< " > 671 04>?1.6 '
=4.' 7,46 ..=@ =4 ' V >7' .<7I <' 6 > '?1 6 5.6 ; , / '
/ '<>.6 > '1 / .6 =4.' - ,46 ' - .0 ,1>,<<>.6 .7 ; .55.6
=4.' 6'<6 >,47.' - ,46 ,1>,<<.1.0 .<; ,1.8 56 6.1,<7
0 .<7>7 1. / ?5 6 '<>'4 7 .<7 4< 1'<J 71>6 > 67 <J .I
.< <; : .- ' 7 5.6 ,4-1'J.6 ; , / / .<; .68 .7 E' 6'<7 ; .4@
?1,0.7>68 ; .77.' ?5' ; .'6.1" >'<6 >7'7 < ?,6'<78 =4
54 ' '??'17 .<7 ' E'4>1" >>.1>7.1 >.' : ,<- .'4@ E,<7 6I
/ ' 6> '6 5" 6 74'7 ,< ' .74.55.' ,< <.'>, 7 ?'6 ' - , 1 =
/ , <>1.' <J4 >74>. 5 .< .67 >.' / > / .'>.6 ?,67.6> I
H,17 ,4 6 .7 >.' '47.10,41J ,46 <.'?'15.1,<6 ?'6
>.' ?5E ..6a .'6.; ,<>.' 5 J<. ,46 <,46'11>7.1,<64='
'67'<7 ' .4E K1 6'; .' .7 ' B4< <J4. #.6 >.4@ - 55.6
6,<7 >7 <6 5.' / . 55.41 >7'7I ' ?.'1.67.'7,47 '4 ?5<6=4 '
5.6 ?<5 66'>.1 K>E,15 " 4< ; : 7. '4 71E.6 <>..66' 1.I ,g
71' - ' 55.' 6'<6 1.5 ; : .' ' 5.'1>?'1.1N >.6 / ,V.<6 ?'1G

7 ;45 .16>.' 7. .<6.'6,7 7 ;, / / '<>.6 ?'1'5.6 5,#'5 6I 5.' / . / , 1;' .< ?1.6.<7.'5.'>.-.5,??. / .<7%

.6 J'1< 6,<6 >.' 7,47.6 ;.6 - 5.6 6.<7 64EE 6'<7.6 >'<6 5.' / , / .<7';74.5I / ' 6 .4 ;'6>.' J4.11.' 5 .67 <> 6?.<6'07.'>. .6 '4J / .<7.1% ,46 ?.<6,<6 / / .' = ',471.'5.6 'J' @5.6<'5 ,<'4@=4.'-,46'-.0 ,1' ',<<.' > V E' 1.'?'66.18 5 .< E'47 '4 / , 46 .<;,1. U8 % ' 44.' J4.11.' " -.< 1'5' 66.' = .5&c .';:,6.'" >>6 1.1641'5" >.E.<6.'>. . . 6 ?5';.68 5.41'6:1.7.'>'<6 ;.7 <67'<7<.' >, 7 <6? 1.1''4;4<.';1' 7.% ,41' '77' W =4.1'>.6 ?5';.68 5 E'47>.6 '1 / >.68 .7 5 < V .< " '4M ;4<.'641'5" 1 -.>1, 7.' >4 : <8 ;'1',< <.';, / ?7.1" ?'6 6'<6>,47.'?,41'4<.''1 / ..';'?'05.'>: <.''77'=4.' >.';.' J.<1.8 <'5.6 '-.<741 .16 =4 '6,<7 " 77.<:. / 8 <'5.1'66. / 05. / .<7 >.6E4J 7 E6 " ,1 / 6%

1'>.' .7'5>.6 ?5';.6<,46 ?'66,<6 "5">6?,6 7 ,< >.6 .6?1 768 71, 6 ;5'66.6> :, / / .6 6,<7 ";,<6 >.1.1I 5.6 .;;5.6 '67 =4.68 5.6 '> / < 671'7.4168 5.6 / 5 7' 1.6% #.4@ >.6 ?1. / .16 =4 '6 ,??,6.<7 " ';,<67 747 ,<; ' - 5.';54 ;5.1J.'< ,<7 '4;4<.' <E54.<;.'641'5" / 'Q,1 7.' >.6 - 5.68 <'641'4<.'?,17 ,< >.6;' / ?'J<.6I / ' 6 >'<6 5" ?546 J1'<>.' ?'17 .' >.6;' / ?'J<.68 .7 >'<6 =4.5=4.6 ?.7 7.6 - 5.68 56 1<-' 55' .<7 5.6 ?.4?5.6 >.' 5" / '<E.1.'5"?546>'<J.1.46.I 56 <.'6;'0,1<' .<7 ?'6 " <71 J4.1'?,41'71,405.15.6;,<6; .<;.6I 56 E,1 / ' .<7 >.6 <7.55 J.<;.68 >.6 ?, <76 >.'1'55 . / .<7 ?,41' 5.6 . <. / 6 >4'>.:,16% .6 / '4@ =4 56 ,<7 ,;;'6 , / .68 .7 ;.<@ =4 56 ?,411' .<7 ?1,>4 1.' .<;,1.'>'<6 5.'>. ' ?'17. / .47 >4' K'6 : <8 -,46 ,<7 >7.'>.-.5,??.68 .7 -, 6 '-.0 ;,<E 1 / .'5.6 ?1.;'47 ,<6 =4.' <,46 '-,<6 ?1 6.6 ?,41'.< '11 7.1'5.6 .EE.76% '11 7.'>4'>.?'17.' < .<7 6 .@. .<7;'>'<6;.' / , / .<78 .7 5.6 '> / < 671'7.416 6,<7 .<7 .1. / .<71'6641>6%

<<,46 ?1>6.<7'<7 '<>>?'17. / .<7 >4' B'47 : <8 5.6 '> / < 671'7.416 6.'6,<7 '466 '?5' <76 >.6 .;;5>6 '6' 7 =4.6 1.E1';7' 1.6% ,46 5.41' '-,<6 ;, / / 4< =4.'5.6 / .641.6 ?1 6.6 >'<6 ;.54'>4' K'6 : <I 56 <.'5.6 ,<7 ?, <7 '>,?7..6 ?.<>'<7 <?71.'6.Q,41I / ' 6 <,46 '-,<6 '??1 6 " <,71.' '11 -..' ;'=4 56 '-' .<7 E' 7 4< '11>7.' " ?.< ?1.6 6. / 05'05.' ";.54 '=4.'-,46 '-.0 ;,' 1 / .' ; %

,46 * "?;1 / .751,<6 =4.5=4.6 1>E5.@ ,<6 641'5.6 ;, / / 66' 1.6% .@?>1 .<;.'<,46 " '??1 6 =4 5 E'47 46.1' >.' ;.'1. / >>.' '-.;' 5" ?546 J1'<>.'?1>; 47 ,<% ,46 <'-,<6 =4 " <,46 5,4.1'>.'5" 1.;.?7 ,<=4 ,< <,46 "E4 7.I ?'17,47 ,< 0.< 66' 7 <,6 ?'6I >.'7,47.6 ?'176,< ,EE1' 7 .<<,6 ?.16,<<.6:.6 ';7 ,<6>.' J1E ;.' 4 66.< 05>.' <'7 ,<'5.8 ' 1' 6,<>.'6";,<>4 7.''>M / 1'05.'641'1>-><; / .<7 >4'C 'Q4 <% '6 <,46 '- ,<6 >7> .<-,V>6 '4 / , / .<7>. ;.7 .-><. / .<7I / ' 6 <,71.' / 66 ,< >7' 7 ;0 < / .' 0,1<>.' " 4< ';5.'>.' <67'<78 >,<7 5.'64;;.6 <.'?,<-' 7> 1.'7.<7>=4.'?'1'>.6 :, / ' / .6 > / <. / / .<7 <-.65 6>.1,? < ,<?405 =4.% 5 ,< <,46 ;47 ;:'1J.6 >.'=4.5=4.' " '> / < 671'7 ,<8 ,< ?.47 >,47.1'=4 5 .< .47 >7> >.' / > / .% " ;,<55'<;.' ?405 ' =4.'.67 E';5.' ">.7,41<.1I'5.6 '> / < 671'7.416 >, -.<7 '-, 1' 7,47 .<7 .1.' 8 ?,41' 1. / ?5 1' 5.416 E,<;7 ,<6 '-.;'64;;.6% '4<.' / ' <>71'<J:1.'> 1 J.'5.416 ?.1'M 7 ,<6 5.6 ? =? / ?,17'<7.68 6 ' ;.77.' / ' < .67>>-, 5..' " 7,<6 5.6V.4@8 5";,<6 >.1'7 ,<6.'?.1> .75" #,<E '<;.' 6 >5, J<.% # .67 ?.47 >71.'?,41' <.' 1 .< ?.1>1.'<'>.' <<.' '>.' '471.8 =4.'5.6 '> / < 671'7.416 >4 B' 5' : <<,< 'J '=4 .<<,71.''06.<;.I =4.56 =4 ' .<7 >7> 5.416 / ,7 E68 <,46 '-,<6 46>.'5" ?546 J1'<>.'1.6.1-.' >'<6 '??5 ;'7 ,< >.6 / .641.6 ?1 6.6 ?.41'5.' K'6 ' : <I > =< '471.' ; 7> 5 .67 ?.47 >71.'> 44.' J1'<>.' ?14>.<;.8 641' 5.6 ?5' <7.6 - .<4.6 ' 66. / 05>.'>.' > EE>1.476 ?, <76 >4' 1,V'4 / .8 >.'5' 66.1'5.6 '>= < 6 ' 7 '7.416 '??5 =4.1'5.6 1. / .>.6 =4 ' ;,<- .<<.<7 "5.41' ?,6 7 ,<% '<6 <,6 ;,<E.1.<;.6 '-.;' ;.4@ >4' B'<7 ' : < 641'5.' ;5.1J.8 56 1,<6 ,<7 '??1 6 =4 56 '-' .<7 5,4>4<.'>J5 6.'"4<.'6,; >5>.'<,< ;,<E,11' 67.68 '-.;' 46'J;' 5 .6 ;5,;:.6% '?1.6 5.6 ?1 <. ?.6 =4.' -,46 '-.0 ;, 6';1>6 ?'1'-,71.'75>;1.7 641' 8 '11>7;'>4 >>?'1M

7. / .<7 >.' '1 68 <,46 < '-,<6 1 .< .< ' > 1.'641' :' I 5,;'7 ,<.<.55; / ` ;I / ' 6 <,46 '-,<6 E' 7 1. / '1=4.' =4.'5.6 6 J< .6 ?405 ;6 >.'1'66. / 05. / .<76 < '??'17.' <' .<7?'6' ' @ ?'17 ;45 .168 ; ' " >.6 6,; >7 6 ?1 ->.6 =4.'5.]'E,<;7 , / ' 1.6 ?405 ;6 '-' .<7 6. 56 5.'>1, 7 >& 6 .< 6.1- 1% ' " >7> '11>7>8 > ';;,1> / > / .'-.; .Q <,< ;,<E,1 / 67.68 =4 56 <,'E.1' . 7 ' ;4 ' 6'J.'>.I ;5,;:.68 .7 =4.'7,<6 5.6 ';7.6 >.6 <' 66'<;.68 >.' / '' 1 'J.'.7>.' 6.?45741.'6.1' . 7 E' 56 Y5" ?'1, .% .' ?1,7.67'<76 >.' 5" ;,<E.66 ,< > 460,41J 6.' ,< ?5' <76 '<,46 >.';.'= .'5.6 '> / < 671'7.416 >4 B'45' : <'-' .<78 ?'1' 4< '11>7.' >4 C '<,-. / 01.' (*' . / ?>;:>1.@.;47 ,< >4 >.;1.7 >4 (',E77 ?1.;.>.<7

#.'>.;1.7 ?,17.' =4.'5.6 ?1,7.67'<76 ;,<7 <4.1,<7 >& Q,4 18 >'<6 5.6>.4@ >.?'17. / . 76>4 : <8 >.6 <> / .' >1, 7685 0.17>.7'-'<7'J.6 >,<7 56,<7Q,4 ';7 ,<7 >1,' >.'Q,4 1I =4.'5.6 '77. <7.6 = 'V ,<7 >7> ?,17..6 6.1,4 1.J'1>>.6 ;,<Q <.' <455;6 .7 <,< '-.<4.6% < ;,<6> =4.<;.'>.;.> ;1.78 5.6 ?1,7.67'<76 ,<7 -,454 6.1.' / .771.' .< / > / .'>7'7 , :' 56 >7' .<7 '-'<7 5.6 '77. <7;' ?,17..6 " 5.416 >1, 76% .6 '> / < 671'7.416 ,<7 1.' J'1>.' ..55.'1.<71>.'>'<6 5. / ' : , 76%;, / / ;' <<,-'M 7 ,<6 I ?'1'5.41' '11E 7.8 56 ,<7 E' 7 >.E.<6.' > .< E'1' '4;4<.'Q46=4 ' ;# =4.'1 66. / 05>.'<'7 ,<'5.' . ' .@ ?5 =4>6,<>>;1.7% #.77.' / .641.' 5' 66'47 5.6 ?1,7.6M 7'<76 6,<6 5.6 '77; <5.6 ?,17>.6 ' 5.416 >1, 768 >'<M 5.6=4.56 5.'>>;1.7 >4 (',E57 (* 8 5.6 .7':5 7 .<7 .1.' / .<78 <,46 '-0<6 .<J'J>5.6 '> / 6 1'7.416 '1.7 1;' & .4@ / > / .6 ;.7 '11>7>% 56 <,46 ,<7 E' 7 ,06.1-.S = 5 '-' 5 .7.'?1 6 ?'1'5.';,<6. 5 J.<.1'58 ;7 =4 56 <7 ?.<6' .<7 ?'6 =4.' 5.'> 1.;7, 1.8 =4 '6.45 >7' 7 .< ';' 7 - 7.8 ?E57 5.'1.7 1.1% 5 [6 <,46 '-,<6 E' 7 4<.'1>=4' 6 7 ,< >;1 7.' 641' 5.'1.J 671.' >.6 >.5 0.1'7 ,<68 ?, / ' =4 5 <.%E 57 >,<<> '4;4<.'64 7.' " ;.5 '11>7>N ;.77.' / .' 641.' "?'1< 6'7 6E' 1.'5.6 1>;5' <'<76% 776 ' 5.6 ? >71.' ;'7:,5 =4.6 .7 5.6 / < 671.6 ?1,7.67'<76 ,EE1.<7 / ' <' 7.<'<7 ?.< >.'64Q.7> <=4 .54>.'>'<6 5.6 >.4@ >.?'1' 5. / .<76 >4 : <N >4 / , <6 5.6 <.6 / .6 ?1 6.6 ' ?.4-.<7 5' 66.1'>.6 > E5 ;457>6 =4.'641'5.41' .@.;47 ,< .7 5 E'47 '77.<>1.'>.'5" 6'J.66.' .7 >.'5" E.1 / .7> >.N '> / < 671'7.416 =4 6 '?5'< 1,47 ' 6> / .<7 #.55.N =4 '?,411,<7 .'?1.6.<7.1%

<-,46 ?'15'<7 >.6 .;;5>6 '67 =4;68 <,46 -,46 '-,<N >>Q" E' 7 ;, / ' 71.'5.6 '> / < 67 '7;416I 5.41';,<>4 7S 641';.'?, <7 5.6 ;'1';7.1 6.'64E5 6' / / .<7% <J><>1'E 5.'?'71 ,7 6 / .8 ' / ,41'>.'5" #,<67 747 ,< .7>.' ,1>< 5.6 '< / .47% ' .< .67 ?.47 >71.'=4 '6. 7.<7 ?546 - 1.M / .<7 =4.> '471.6 5.6 '-'<7'J.6 >.'5"1;J.<>1'5 ,< / ' 6 7,<6 <, 56 ,47 ?'14 > J4.6 >.'5" ;,<55'<;.' >.N '> 4 < 71.6% .6 -.<7.6 >.6 0 . 6 <'7 ,<'4@ 6.'E,< '-.;'64;;.68 / '5J1> 5.6 / .<>.6 6,41>.6 >.6 ?1>71.N 1.E1';7' 1.6% "?.1;.?7 ,<>.6 / ? 7677 .67 ?'6';7 -.' / ' 6 ;.' < .67 ?'6 5"E'47.'>.6 '> / < 671'7.416 < >.N '> / < 671.6% < J.<>1'5 5 .67 ?.< >E'6415 ' / >.' ()* .6 ;,<71 047 ,<6 >.' (* '>= ;<>.<7 > 4< 71'-' 5=4 4 .67 ?' '.<;,1.';,<6, / / .I ,<1'75. >'>.'Q,41' '47< ?,41'6,5>.1';.77.'4 > / .' ' / >.8 641'5'=4.55.',<">,<<' >.'E,176 ;, / ?5.% %

5 .67 1''=4.'>.6 ?1>71.6 1.E1';7' 1.6 >7' .<7 -.<5 I ' 0,47 >.' ?.164'>.1' '4@ '> / < 671>68 / > / . '>.N / 4< ; ?'5 7.68 >.'<.'- 1< ?'V.1I / ' 6>.?4 6 5.6 / .M 641.6 ?1 6.6 ?,41' '<>'<5 1' 5.41' <E54.<;.'5" / > / .1> 6 67'<;.' .6.' / '< E.67.' ?546% ' 55.416 5.6 '> / < 6' 71'7.416 ,<7 .@.1;.' =4.5=4.6 ';7.6 > 5 / .'6'545' 1.'6> ->1 7.% "?.7 7.'- 55;> 0.1:.4:; / %>'<65.K'6 : < ?1>6.<7' 7 4< E,V.1'>.' E';7 .4@8 >.' ?.17410'7.416 >' 1.?,6 ?405 ;8 =4 ' ?1,7.J.' 7 ' ?5' < '1 / ..'5.6';7;' >.'- ,5.<;.% .6 / '7 <6 ,47 .7;'>.641 / .68 ;7 / ' <7.' B'<7 ;.77.'?.7 7.'- 55.' .67 ?'1E' 7. <. 77 '<=4 55.%#.5:' >.' '6 L'4@ >'<6 5.' B'47 : < ,EE1' 7 5.6 / 9 / W >'<J.16% <.6.;,<>.'J'1>.'<'7 ,<'5.' .7' 7 E,1<>_ .7 6,47.4' 7 5.6 ?1>71.6 1>E1% ;5' 1.6 ;,5 71>5" / 4 ; ?'5 7>% .6 E';7 .4@ =4 ';, / ?,6' .47 ..57.';,1?,1'7 ,< >5>J'5.' ,47 '466' >7> >.6'1 / >68 .7 5"?' @ ;, / / .<;.

cW

' 6.' 1 '05 1' >'<6 ;' ;'<7,<% ,46 < '-,<6?'6'5' 66>'
QB'J<,<'4' '-.;'5" < . / .' 6.;41 7V% .?4 6'5,<J7.< ?6
I 5.6 E';7 .4@ 'J 7;<7 ;.77;' - 55.8 =4 ' <.' >,<<# ?' '5"
/E /E.' <=4 .74>.'=4.'6' .55.'>7' 7 4<.'E1,<7 1.' '?1.M
/ .1.' 5 J<.8 <' 6'>'<6'5'=4.55.' 5 .67 71 ' / ?,17'<7
> . / ?>; : .15.>.6,1>1.'>.' 1.<' 71.% 4@ / , 6'>. 4 <
#5>.Q4 55.7 (* 8 5.' 6'<J'>.6 ; 7,V.<6 "; 45>'>'<6
; ;57;' - 55.% % .67;1/ '<<' " .7.' ' ; ;46.'> .71.''47.41
,4 ; , / ?5 ; .'>.6 . / ;47.6 =4 'V ,<7 .4'5 .48 .7=4 8>7 '
,48 ,<7 7.' ;@; 7. .68 .< E' 6'<7 .6?.1.1' " 4<.' ?'17 .'
>55 ?;4?5;' 6'<6 ?1,?1 .7.' ,4 ?.4'1 ; : .' >.' <'17'J.1
5.6 ?1,?1 .7.6 >.' 5" ; , / / 4<.8 .7 >.' 54 ' E' 1.' '-, 1
4<.' ?,17 ,<'>'<6 5" 1.67 747 ,<'> .<- 1,< C / 55 ,<6 8
=4,' ,< - .47 1.?.5;1' ; ,<71.' 5.6 '<; .<6 / 'J 671'56%
" ?1, ; .>41.' ; , / / .<;>.'>'<6 > E >1;<76 71 047 '4@ '"
>7.' 1. / 6.'>'<6 ; .54 '>4'> 671 ;76;'<7 " '-.1<.% 4 '
; <Q4J;>;' ; ;'71 04<'5'<' '4;4< 64??5 '<7 '?.4-;<5
?546 ; ,<<' 71;' >.' ; ;77.' 'EE' 1.8 ?'1' 5.6 1.;46'7 ,<6
1.., <<4.6 Q467.6% ,41 ; ,<7 <4.1'5" ?1, ; .>41.8 <,46
7Q,4 '?1,?,6.1,<6 4<'>. ;1.7 > '771 045 ,K' " 4< '471.'
71 04<'5%

, 5" 5.6 E' 56 =4.' <,46 '-,<6 ; / '>.-, .'1.;4. 55 1'
.7-,46 ?1.6.<7.1641' 5.6 ?1>71.6 QE>E1';7. 1.6 .7641'5.]'
'>/ < 671'7.416% ,46?,4-.08 > '?1.6 #.5" 8 Q4J.1'
-,46 / >/ .6'>.'5">6?,6 7 ,<'>.6 .6?1 76'>'<6 ;6'>.4@
>. ?'17; / .<76>4' : <% " / '66.'>.6 ?.4?5.6 .67 G! #
>4 7.%?'1'5.6 ,?< ,<6 1.: J .46.6 .7 5.6 '47,B7>6 ; '
- 5.6I >'<6 ; .6'>.?'15. / .<76 5'V " .4'Q46=4 " ?1.6.<7
4<.'5477.' ,4-.17.' ;7 ; ,<7 <4.' .<71.'5.6 '>/ < 671'7.416
.7 5.6 ?1 71.6 1.E1';7' 1.6% #.4@ ; ' ,<7 .4' '-'<7'J.'
>'<6 5.6 ; ' / ?'J<;68 ?'1;.' =4.' 5.6 ?.4?5.6 V 6 <7
/ , <6 .;5' 1.6 =4.' >'<6 5.6 - 55;6% < " ?1 ' >.6
/ ,V;<6 ?,41 =4.' 5. 1' ;1.>45 7.' .7 5.41 E1'<; : 6.'<.'
E466;<7 ?546 71, / ?..6% .6 5'8 6' ;< ;'6'> : ,67 5 7.' 5
V '-' 5 " ;1' <>1.' =4.' 5.6 ; 7,V.<6 6.' E1, 66;<7 5.6 4<6
; ,<71.' 5.6 '471.68 '4Q,41>5 4 '=4.' 5.6 / >/ ;6 ;'46.6
>.'>6; , >.' 6 ,<7 ; , / / .' '<.'<7 .68 '<Q,41> :<' J4.'
5.6 6.45;6 '47,1 7.6 ; - 5;6 > 1 J.1,1 7 5.6 ?.4?5.68
=4'<7 '4 7. / ?,1.58 ,<'>, 7 1.J'1>.1' 5" 71'<=4 55 7>'
; , / / .' '6641>.'>'<6 ; .6'>.4@'>.?'17. / .<76%
' <,46 1.67.' " .@' / <.1' 6'> / 6'5">' ,6 7 ,<'>.6
.6?1 76'>.6 1' 5 7' 1.6 <,46 >.-,<6 '-, 1' = .5=4.6
;1' <7.6% 4 -' 7 5.6.7'76 <, / <'7 E6>.6 ,E! ; .16'>,<7
<,46 >.- ,46 1; ; .-, 1' ;6;1 / .<58 6'<6 V ; , / ?1. >1.'
5.6>7'76 / 'Q,16R 56>7' .1 7 '4' <, / 01.'>,' 8 U I)CC
,<7 ?1>5.I C '<.' , 7?'6 ?1>7>8 ?'1; .'=4 56>7' .5 7
'06.<76 ?,41 ;'46.'5.J 7 / .I C>7' .<7 '06.<76 '<6
;'46.' >J 7 / .' .7 99 ,<7 1.E46>8 =4, =4.' ?1>6>456%
,46; ,<6 >.1,<65;6'06;<766'46;'46.5>J 7 / . ; , / / >'
'V'<7 1.E46.'>.' ?1>7.1'5.'6.1 / .<7I 1>4< 6 ' ; .4@ =4 '
1,47 1.E46>8 =4, =4.' ?1.6.<768 56 6,<7 '4' , / 01.'>.'
% ,46 ; ,<6 >.1,<6 5.6 '06.<76 k1,41 ;'46.'5.J 7 / .'
; , / / .' > 6?,6.6 " ?1>7.1'5.'6.1 / .<7% .45. / .<7&'E'4 '
>1" ?1.<>1.' 4<.' / .641.' ?,41 '6641.1'>.' #41 1.6,M
547 ,<I 1.4< 6 " ; .4@ =4' ,47 ?1>7>8 56%6,<7 '4
<, / 01.'>;' 8 %
' 64 7>.' ; .'>.?,4 55>'=4.' 8 ' 6,<7 1.67>68.7=4.'
)' 6,<7 " 1. / ?5' ; .1% .6 ,E5 ; .16'>.'1. / ?5' ; . / .47
6.1,<7 631; / .<7 ?1, / 46 ,4 ; : , 6 6'>.' <'< .1. ' '
5' 66.1' '4;4<'>,47.'641'5.41'?'71 ,7 6 / .% 3 4'<7 " ; . @
=4 ' ,<7 ?1.7>'6.1 / .<78 5 ,< .67 0. '4; , ?'=4.'5.'?'M
71 ,7 6 / .' 6.45 " J4 >>6% 5 .< .67 =4.'>.6 ?1>Q4J>6
'-.4J5;<7 .<; ,1.8 5'E'47 ;1, 1.'4' / , <6 ! .<J' '
J. / ,<7 6,5.<<.5 =< 56 ,<7 ; ,<71' ;7.'<.'6.1" ?'6 ?,47
.4@'4< : , ; : .7>,<7 56 6.'Q,4.1,<7 / ?4<> / .<7% ,46
<,46 6, / / .6 ?.1 / 6 >.'5.41'E' 1.' " ; .'64Q.7 5.6 ?546
E,17.6 ,06.1-'7 ,<6 .< ?1.6.<; .'>.6 6,46 ,E5 ; .16 .5
>.6 6,5>'76%
,46 5.41' '-,<6>7 " 7,<6 =4.5"5, '.7' 5 ; , / / 4<.8
;7 5.41' .<J'J. / .<7 1>; ?1,=4.I =4.'6'5.'6 5>'7>.-' '
,0. 18 5 <.'5.'>.-' 7=4 " 5"5, I .7=4.'?'1' ; .77.'1' M
6,< 5 >.-' 7 6.' 6,4 / .771.' 6'<6 / 41 / 7 1.1I ! ,'
'-,<6 'Q, 7>'=4.'6' ,E5 ; .1' '-' 5 5.'>1, 7 7 .' ; , / 1,'<'
8>;1% 5 4.' ;' >.-' 7 E' 1.' '4 '4 <, / ' >.'5"5, 8 #7&% ,

1>7.<>4.' >;' 5" 5, % ,46 '-,<6 > 7 .<; ,1.'=4 '4;4<.'
<E1';7 ,<' " 5"5, 8 6, 5'>.'5"?'17'>;' ,E5 ; .18'>.'=4.5'
=4.' J1'>.'=4 5 E>78 6, 5 7 .'5" ?'17'>46,5>'78 <.'1.6'
7.1' 7 / ?4< .% a ,46 5.6 '-,<6 .<E 4' '6641.68 '4 <, / '
>.' 66. / 05..' <'7 ,<'5.8 =4 5 V '41' 7 641'7,4 '5"
641-. 55'<; .'5" ?546 1 J, 1.46.%
N '>.6 ; , / / .6=4 8%>'<6 5.41' ?1,E.66 ,<8 ,47 7,<8
Q,416 ?1 6 ?,41 J4 [.'5" J5, 1.' .7 1: , <<.418 ,<7 ?1.7.'
5.' 66.1 / .<7 7.5 =4 5 .67 ; , <;4I 6 56 7 .' ,<7 ?1 7.'
=4 '?1.6 5.6 ;@? ; '7 ,46 ;5' E.6 .7 E.1 / .6 =4.'<,46
5.41' '-,<6 >,<<..68 5 < .67 ?'6 ?.1 / 6 >.'>,47.1'>.'
5.41 E >>5 7>' " 1. / ?7 1'5.41' .<J'J. / .<7% <6 ' ,<'?.'7
71.' 1'6641.' 641' 5.' ; , / ?7.'>.6 , K ; .16%

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6 15'' <,4-E 55.' ,1J / <7 ,< .7 5.6 >.; 6 ,<6 1.5'7 -.6 5' 7' 5%6.1- ;.' >;' / ;1 = 7 '' ;.54 ' >.'5.<d.%

& " (' ' "

% #,46 <.'4 ? 1.'.75 56 547: .16 / '1> '<>6 >.' / 46 =4. E';7.416 >.' :'12P.6 .7 >.' 7,47.6 6,17.6 > 7 6' 7<4<.<76 7 .<<.<7 / 'J'6 < >.' E,15.\? '<,6 '<J5' 6 .7 E1'<;' 6I;,1>.6>.'5,47.6.6?.;.6 .:'J1,6.7. '>.7' 5% ,41<'5 >.6 E.4 55.6 >.' .1?6 ;:,1. ?,41' :'1?.' .7 ;5'M -.; < ;,<7.<'<7 ; <=4'<7. >.4@ 4 / .1,6% 1 @ ' ?,17 E1'<;'?'1 5'' ?,67.; >. '<7 14.' >.6 ,45 .6 ';74,55. / .<7 : 7.5 >.' ,4V 14.' '4?: <. <D % .6 -, 741.6 ?.4-.<7 .<71.1 >'<6 5'' ;,41%

%

.7'O5 66. / .<7 E,1 / .' 5 V '' =4.5=4.6 / , 6 ?'1' % #: 1,5 <,41' 4;'7 ,< >.6 Q.4<.6 J.<6 >.' 7,47 >J. .7 6?.; '5. / .47 ?,41' ;.4@ =4 ' 6.' >.67 <.<7 '' 6.11 1' >'<6 ' & ' M ' '' ?1 6 1'? ' >. / .<7 7,47.'5'' ;,<6 67'<;.' >>6 1'O5.% % #: 1,5 >, 7 6'<6 >, 7.';.'64;; ' '' 5'' ;,<E '<;.'>.6 ?.16,<<.6 =4' 6'-.<7 '-.;'=4.56 6, <6 .7 =4.55.'';7 - 7.' 5 6 .67 ,;;4' ?.'?.<>'<7 CC '<6 '' > 1 J.1 4<.'J1'<>.' / ' 6,<> .>4' ;'7 ,< I' 5 64 75'' < / .' / '1; :. .7 5.6 ?1,J1.6 >.'6.6 >5.-.6 .<;,<67'7.<7 .E5 ;'; 7.%

>74>.'>.6 / '7:> <'7 =4.6 47 5.' '' 7,47 5.' / , :>. .67 >.-.<4.' <> 6?.<6'O5.'?,41 5.6 Q.4<.6 J.46%>.?4 6 = 5 .67 >.;1.7.'=4.'7,47.6 5.6 ?5';.6 >'<6 5.' / 5 7' 1.' >.'7.11.'.7 >.' / .1 .7 4<.'?'17 .'>.6 ?5';.6 ; - 5.6 6.1,<7 >.<4>.6 '4 ;,<;,416 .7 =4.'5.6 6;.<;.6 .@';7.6 6.1,<7 5.' ?1 <; ?'5 ,0Q.7 >.' .@'< .<% 8

'<]< .67 ?'6 >.' ;.77.' .74>.' ; / / .' >.';.55.' >.6 5'<J4.6 >.' : 67, 1. >.'5'' 5 77>1'741. ?,41 5.6=4.55.6 7,47.6 5.6 / >7:,>.6 6,<7 '' ?.4 ?1>6 0,<<.6 ?,=1-4' F4 4<.''77.<7 ,< / >> ,;1. .7 4<'71'-' 5 =4'< '' 1.< T'.'E'7 J'<7 6, .<7 6.;,<>>6 ? [' '4> 7 ,< >.6 > 6M ;,416 > 4<'?1,E.66.41%

G < 6 '046.1' 7>71'<J. / .<7>.';1, 1.=4.' ,<?,41' 1' 7 '??1.<>1.' 5.6 / '7:> / '7 =4.6 '66.0 0 .<'?,41 640 1 4< .@' / .< .< '66 67'<7 '4@ 5. / ,<6 ?405 =4.6 > 4:' ?1,E.66.41' =4' >>1<,<71.' 6.45 =4.5=4.' :'O 5.' =4 5 6, 5I 5,6 5.I,<6 ?'17 ;45 .1.6641 5.'?'? .1 ?1 6.6 / > / .'7,46 5.6 Q,416 6,<7 .<;,1.' <6455 6'<7.6 ?'1;.' =4.' 5.' / ' 71.' ?'15.' <>;.66' 1. <.<7 ?1.6=4.'7,47 5.' 7. / ?6 .7 =4.'5.6> 671';7 ,<6 >.'5'' 6,; .7.'E,<7 ?.1>1.' .<64 7.'5.'E14 7 >.'6.6.@?5 ;'7 ,<6 6415.6=4. .6 ,<<.' 6'??.6'<7 7 ?'6I ,< .<'??.55. 6417,46 ;.6 ?, <76 '' .@?>1 .<;.'>.6 ?.16,<<.6 =4'E1>=4.<7.<7 5.6 ;,416 ?405 ;6 ,4 =4' ,<7 >.6 / ' 71.6 4<.' :.41.'?'1 Q,41 N ,<.@;.77.'>.';.6 ,06.1-'7 ,<6 J> .1'5.6 5.6 J.<6 :.4' 1.46. / .<7 <>6I ,<6' 7=4.' 5.6 :, < / .6 >.' J>< .6.' E,1 / .<7 > .4@ / > / .6I / ' 6 56 6,<7 1'1.6 .7 5 .67 ;' =4.67 ,< >.'5'';5'66.' ,1> <' 1.%

' , > 5'' >7:,>.' =4.' % #: 1,5 / .7 .< ?1'7 =4.' >.?4 6 5,<J4.6 '<<>.6I ,<Q4 J.1'';.17' <. / .<7 =4.'6' ;.'< .67 ?'6 5'' 6. 5.' 0,<<.' .55.' .67 '4 / , <6 71>6 0,<<.'?,41 7 1.1 .< ?.4 >.'7. / ?6 7,47 5.'?'17 '?,66 O5.' >.' <7.55 J.<;.'>.'6 6 > .-.6% ' %

' .< '' * >'<6 ;.' / , / .<7 =4 '7, 6?.4-.<7 '66 67.1' '4@ 5.;,<6 >.' / '7:> / '7 =4.6 >,<<>;6 ?'1 >.4@ ?1, ' E.66.416I ;:'=4.'>5.-.'V >>1<,<71.'' 6,<7,41' '' :'47.' -, @ 5 1.<>'1' 6,< >.6 ,?.1'7 ,<6 =4 5 .@.;47. .7 5.'?1,E.66.41'< .67 5''=4.'?,41=4.67 ,<<.1 .7 5.-.1 5.6 > E7 .457>6%

#.' ;J,<6 ?405 =4.6 J1'>4>.6 64 -'<7 5''E,1;.'>.6 > .-.6 6,<7 '4 <, / 01.'>;':4 7 .7 > .6 .1,<7 ?,17>.6 '' >,40.'?'1 4<71, 6 .< ['?1,E.66.41 >.6 =4.'5''=4'4' 7 7>' >.6 .5>-.6 - .<>1'' '' ' J / .<7.1% 4< >.6 ?1,E.6' 6. 16 .<6>J<.'5.6 71, 6 ?1. / .16 -,54 / .6 ;5.6 ;,416 >.'

% K,6647 ' K.0,47 .7 '471.' ?1.<> .<64 7.'5.6 > .-.6 5.41% E' 7 1.-, 1 1'? >. / .<7 ;.'=4 56 6'-.<7 >>Q' .5';0>-.''-.;' .4@ 5.'; 416 '>,?7>%

'<6 <7.1-'55.'>.6 5.;,<6 5.6 > .-.6 71'-' 55.<7.<

6 5.<;.'>'<6 4<.';5'66.';, / / 4<. .7>'>.?4 6 N 5 ;41;6 .7 >. / ; 5G: -.1 >.?4 6 9 :.41.6 >4 / '7 <Q46=4 ' ' :.41.6.7 >.1' .'>46, 1I 5. 7. / ?6 >,<<.' '' 1>74>.'7:' >.66 < '4@ 1.?'6 .5 '4@ 1>.1>'7 ,<6 < .@;.>.'?'6 ' :.41.6 ?'1Q,41%

' '46 ;.77.';5'66.'.67 ?1.6=4.'7,4Q,416 4< ?1,E.66.41I B 5.-.' '' , @ 0'66.'5.6 > EE ;457>6 >.6 >5>-.6 ;,1' / .<' I '<76 =4' -,<7 5.71 4-.1 ?.<>'<7 5.'71'-' 5 =4'?.47 '466'>1.'1.J'1>>;, / / .'4<.' 1 ';,<7 <4.%

< .<J'J.'5.6 > .-.6 '' 6 .@?5 =4;1 5.6 > E5 ;4B>6 5.6 4<6 '4@ '471.6I 566 V ?1>7.<7 .< J><>1'5'-.;?5' 6 1 .7 5.6 ?546 <6714 76 V J'J<.47 .<;.'=4 56 6,<7 ,O5 J.6 >.;:.1;:.1 5'' / . 55.41.' / >< .1.'>.'6.'E' 1.';, / ?1.<' >1.' .7 > '??1,E,<> 1 5.6 1' 6,<<. / .<76 =4' 1.67.<7 '5,1.' <.EE'Q'O5. 4.<7 J1'-.6 >'?6 7.41 .6?1 7%

' 4??1,;:.'>.6 .@' / .<6 % #: 1,5''5,4Q,416 .7' '77.<7 ,< > '66,; .1 ?,4 ' '<6 > 1; >.4@ > .-.6=4 ?.<>'<7 5.6 1>.1>'7 ,<6 1.?'66.<7 .<6. / O5.'7,47 ;.' =4 56 6'-.<7I 56 6.'E,<7 >.6 =4.67 ,<6 .7 >.- .<<.<7 '<6' .@' / <'7.416 4< >.'1'471.I 5.67 1.;,<44 =4 .< < 17:> / '7 =4.86417,47 ?,41 O .<'6'-, 1 5 E'47'-, 1' .<6. J<>%

.5 .67 ,1>1.' >7'O5' >'<6 5'' / ' 6,< >.' % #: 1,5% < V 71'-' 55.''66 >> / .<7 >4 / '7 < '4 6, 1 5 < V '' ?, <7 >.' -';'<;.6I 4<.'?'17 .'>.6 E>7.6 .7 > / '<.<.6 .67 .<;,1.;,<6';1..'471'-' 5 5<.'?.1>'?'6 6.6.5.V.6 >.'-<. 5 E'47 <>;.66' 1. <.<7 =4 56 '??1.<<.<7%

(" +*9 (" (,' ('' + ,.(" 4+.,$(" -(' -- 3+,$ * *(' ' *,'4+'*-9 $9-(' ' 6$. '8 +44 .,(' +' *$ (*+,,(*1 ,$ *' / +$''+' -,6 -3 4 .'3(") (,'' * + .$(.' -(' 4+,! ,$3 $(.

.'?1 @ ?1 <; ?'5 .67 >.') '5 -% '-'<7' C '<6 >.' * '5 -% 2 C046% ?,41 ;.4@ =4 '< '??1>:<.<7 <' / ' ' :> / '7 =<.6 <''.66 4I .7 >.'5 E ' -1.6 '' 7,47 >J. ?,41 5.6> .-.6 =4' ,<7 ;.6 >.1< .16 / ' 71.6 6.45. / .<7% < ?,411''6.'?1,;41.1 >.'?546 ' / ?5.6 1.<6. J4. / .<76 ;:.Z 54 ! 1'<>. 4. .17. E'40,41J ' <7 B,<,1> <D %

G ' ' ' & ' * '' ' > ' >==7 5 -\<? <7 '?' ?1.<>1.';.77.'5'<J4.'>0.06, 6'<6 7<'771. .<>.4@ ,<71,6 54 6 > 5 741.%

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% % >.ʼK,4 55 ʼ''?'66.ʼ U :.41.6 >% ʼ6.ʼ1.<> '' 41 @. / 0041J ?'1 @ 5' #:'?.55.% ʼ '' E' 1 > 671' 7 .^ / '5:.41.4@%%% ?'' .67 71.6 01 5 '<7% E75'Q.6706 8 ?1 <;.68 '57.66.6 1,V'5.68 ; .67;, / <.ʼ4<'?.7 7 5V / ?.ʼ,4Q.ʼ / .ʼ 71,4-.ʼ<<ʼ'7:..% %5.ʼ?1 <;.ʼH.1> <'<>ʼ>.ʼ 1466.ʼ .7 7,47.ʼ6''E' / 55.8 % >.;7.41ʼ>.ʼ#,5,J<.8 / '>' / .ʼ5'' >4;:.66.ʼ>.ʼ#4 / 0.15'<> 6 ,< '77.<>ʼ.<;,1.ʼ %5.ʼ>4.ʼ > L ;1; I 5.ʼ1,7>.ʼ 4.>.ʼ.67 1.?'17ʼ?,41 @ 5' #:'8 ?.55.8 > ,4ʼ 5 >, 7 6.ʼ1.<>1.ʼ>'<6 6.6 '7'76%%%8% cQ.]ʼ <M J5' 6 6,<7 .< J1'<>ʼ<, / 01.%%%% ʼ- .<7>.ʼ<,46 '11 -.1 / % 5.ʼ 0'1,< >.ʼ K1.7.4 5 .7 % >.ʼ #1,6<.ʼ I Q.ʼ ;1, 6 =4 56 6,<7 -.<46 .<6. / 05.ʼ>.ʼ?.ʼ1ʼ>.ʼ6 '1'46.18%% ,<6 <.ʼ 6.1.0 ?'6 >7,<<.ʼ > '??1.<>1.ʼ =4 Q < V ''1 .<ʼ>,ʼ / , <6 ;,<67 747 ,<<.5 =4.ʼ;.ʼ6.Q,41I .6 ?5'76 '1 65,ʼ ;1'7.6 >.ʼ ,71.ʼ'<; .<<.ʼ 0,41J., 6 .ʼ<,ʼ / '1;:.1' .<7 ;ʼ=4.ʼ641ʼ5.6 J.<,4@% ,;;'6 ,< >4ʼ &'' ''!ʼ >4ʼ ʼ * .7;%8 6.ʼ71,4-.ʼ''7,46 5.6 ;, <6%

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ʼF ʼ ʼ 7- (ʼ%+ʼ < - .<7 >.ʼ1.<>1.ʼ4<6.\ʼ ;,<>ʼ>.;1.7 1.5'7 E'4@ 71'<J.16 =4.ʼ5.416ʼ?1,E.66 ,<6 <'664Q.75 66.<7 ?'6 ''4<ʼ>, / ; 5.ʼE @.% , ;ʼ= .55.6 .< 6,<7 5.6 ?1 <; ?'5.6 > 6?,6 7 ,74%

W .6 >, / ; 5 .6 71'<J.16 >, -.<7 9 1.ʼ ;'7:,5 =<.6 .7 ?1'7.1 6.1 / .<7 >.E >.5 7.ʼ '' 5'' 1.5 J ,< .7'4 6,4-.ʼ 1' < >.-'<7 5.6 71 04<'<@ 8 .77 <,<='<7 7 7,47 ?1 - Y 5.J.ʼ'71'<J.18 ' <6ʼ =4 ʼ7,47.ʼ1.5'7 ,< 8 4< ,< .7 >>ʼ ?.<>'<;.ʼ>4 ?'V6 ,4% 76 6,<7 <.68 ?1, / .77'<7>.ʼ<.ʼ ?, <7 E' 1.ʼ46'J.ʼ>.ʼ6''?1,7.;7 ,< < >.ʼ;.55.ʼ>.ʼ6.6 ' / \ 0'66'>.4768 < < 651.6,4ʼ;,<6456 8 6,46 ?. <.ʼ .J'5.1.6 ,4 > .@?456 ,< '06,5 .ʼ> 6?'J<.8 .7 >.ʼ ;,<E 6;'7 ,< >.ʼ7,46 5.416 0 .<6% Y

#.ʼ>.;1.7 ''>0Q6 .70 / 6 ʼ.@.;47 ,< >'<6 < ;'?7'7.ʼ 5.ʼ 9 >.ʼ;.ʼ / , 6% < < ';;,1>.ʼ=4.ʼ Q,4 6 '4@>, / G ; 7 .6 ?,41 6,17 1 >4 5 .4 >.ʼ5.41 1.6 >.<;.8 .5 4< / , ʼ ?,41 =4 77.1 5.ʼ1,V'4<7.%

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ʼ^ʼ 5 E'47 .< ;1, 1.ʼ >.6 5.771.6 >.ʼ ,176G / ,47:ʼ>4 U Q4 55.78 5''J1'<>.ʼE5,77.ʼ .67 ;, / ?5.7. / .<7 0=4 ? . I 5Vʼ'' / .< .ʼ?546 >.ʼ 8 ʼ<7'7.5,76 >.ʼ641<4G ? 01' 1.6 N 5 ,<6 <,46 ?.1 / .75,<6 >.ʼ>,47.1 >.ʼ ;. 59 41'0,<>'<;.ʼV1'1 / .<7 / 1';45.46.%

.6 ?'71,<6 >.ʼ ?746 .416 <'-51.6 / '1;:'<>6 =47 V .<<.:7 > '11 -.1 >.ʼ 7 K' =4.ʼ '' B455 '5E 1 / .<E P c V '' .< ;ʼ / , / .<7 ''5'' :'47.41 >.ʼ#1,<67'>7 4<.ʼ 57.ʼ>. 9 -' 66.'4@>.ʼ5 J<.8 6,47.<4.ʼ > 4< <, / 01.ʼ ?1,?,17 ,<<.ʼ>.ʼE1.J'7.68 >.ʼJ'5.1.68 .7;%I 76 'Q,47. 7 =4.ʼ>.ʼ<, / 01.46.6 0'77.1 .6 ;5.1.<>.<7 5.ʼ?,17 >.ʼ;.77.ʼ - 55.8 .5 =4.ʼ ,< V ;,<6714 7 >.6 041<.'4@ >.67 <.6 '' E' 1.ʼ1,4J ʼ>.6 0,45.768 G

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< ;,<7 <4.ʼ ''?1.66.1 641 / .18 .7 >.6 >.7';:. / .<I6 >.6 UG .7 *G 1.J / .<76 ,<7 ,1>1.ʼ>.ʼ6.ʼ7.< 1 ?1.S6 ,41 6 . / 0'1=4.18 .<=4'5 70 >.ʼ6,7>'76 >.ʼ / '1 <.8 641 ʼE5,77.ʼ .<'1'>.ʼ '' ?7:.'>8 >,<7 5.ʼ6<?.10.ʼ6?.;7';5.ʼ '77 1.ʼ4<.ʼ / 457 74>.ʼ>.ʼ;41 .4@ '' ,176 / ,47:% < '664ʼ 1' 7 5 V '' =4.5=4.6 Q,4168 '' ,<>1.68 =4.ʼ5.ʼ1, 8 ,00 6ʼ 6'<7 '4@;1;,<67'<;.68 '55' 7 E' 1.ʼ ?405 .1 4<.ʼ ?1,M ;5' / '7 ,< ?,41 ';;05.1.1 5'' -.<71..ʼ>4 ?'15. / .<78 '' =4 ʼ5.6 'EE' 1.6 >.ʼ <701 .41 .7 >4 >.:,16 ?1, / .77.07 >.ʼ ,;;4?'7 ,<%

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ʼ: ʼ9 7 92 ʼ+ʼ ''4,4-.55.ʼ>.ʼ GU-'6 ,<>.ʼ ,4 6 '' ʼ''.7''??,170.ʼ ;ʼ?'1'<<;,411 .G>.ʼ 41 <% 55.ʼ''>,<<''5 .4 '4@;7' / .416 5.6 ?546 . E1'<'.6 .7 5'5'' Q, .ʼ5''?546 <>.;.<7.% .ʼ?.,?5.ʼ 6 .67 ?,17'' .< E,45.ʼ ''5'' >. / .41.ʼ>.ʼ .6>' / .6 7' / .6% < V '8 ?.<>'<7 ?546 > 4<.ʼ:.41.8 ?,466'' >.6 ;1 6 >.ʼ ʼ ʼ ʼ ʼ $ ʼ %Q.ʼ;'1> <'5 ;7.K.1< 6 ''>'6:.,<,1''6'' - . 5ʼ 5.66.ʼ?'1 >.6 71'<6?,176 >.ʼ?'<7'5,< 8 '55'<78 - .<'<78 7,41 '<78 6'47'<78 0'5047 ' 7 ;, / / .ʼ 4< ;, / / .ʼ -1.ʼ >.6,< '55.J1.66.8 ʼ''E,1;.ʼ .6>' / .6 ''?'1' 71.ʼ641 5.ʼ 0'5;,< 8 '%1. / .1; .1 5'' / 457 74>.ʼ?'1 >.6 1.-'1.<#;6 .@71',1> < ' 1.6% < > 7 =4.ʼ ʼK.1<'1>8 ;:'1J.ʼ> 'EM E' 1.6 ?'1 <7.1 / 8 < '' ?4 6.ʼ>.E.<>1.ʼ >.ʼ?'17'J.1 5'' ;, / / 4<.ʼ -1.66.8 .7 =4.8 ?.1>'<5 5'' 797.8 5 6 .67 Q.7.ʼ >'<6 5''E,<5.8 ? ʼ,< 5 '' -4 . / 01'66.1 5.6 5'00'1,< ʼ5.6 ?546 < 6 >68 4 '; 46.ʼ % 0K'J.,78> 1..5. / dU.ʼ 1';'>. / Q;8 > '-,5ʼ-ʼ, 541.,;:.1 1 64.;.6 75 / ,QJ<'J.6 >.ʼ5 ' <.ʼ. / .165'' H '<;.8 6'?'715.8 ?'1 4<.ʼ 554 / <'M 7 ,< 0 0'11.ʼ=4 E J<1' 8'-.;ʼ>.6 7,1.:.68 5.6. / 05. / .6 >.ʼ5''J4.11.ʼ; - 5.%%% 34.ʼ7,<6 ;.6 H1'<=' 66.ʼQ467 E .<78 ,4 =4.ʼ5.416 <, / 6 , .<7-,406 2 4< 07.1<.5 ,??1,01. ʼ 5.ʼ / , / .<7 '??1,;:.,4ʼ5''<'7 ,< E1'<=' 6.ʼ 1'' > 6ʼ 7 <J4.1 5.6 71' 71.6 8 ;7 .< ^.1'8 >'<6 ,? <E,< >.6 0, / / .68 4<.ʼQ467 ;.ʼ7.11 05.%%% 34'<7 '4@ ?1U51.'8 56 ,<'E' 7 5.41 / .7 .18 .< ʼ>.6 ?1 .1.6 ?, 1 c.ʼ 1, 8 ʼ ʼ ʼ ʼʼ & ʼ&'11';:>ʼ'4''ʼ / '% ʼ>.6 0'<> 76P8 .7;%

L% K %

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.ʼ / .ʼ B.<6 5.ʼ0 .< 71567.1,.<E% .ʼ / .ʼ6< 6 .<J'J0 71,? 5, < ?,41 5.6 '471.6 7 H' / 0 ''.6 E' 05.66.6% .ʼ E . / 6 >.ʼ?.<6.1 =4.ʼ5'' H1'<;.ʼ6.1' 7'77'=4..ʼ'4Q,41ʼ > :4ʼ 6 ,4 6 '' ʼ EE 7 6,17Q >4 10V'4 / .% 546 >.ʼ >,47.ʼ=4 ʼ< V. 7'< ?5'< E,1 / .% .ʼ6' 6 =4.ʼ % K 66ʼ ;:,E 77-.1>.1' B6ʼ=4.ʼ5,1> 5J <8 < Q7. .<7 '5506 71,4-.1 . / ?.1.41 .< 7'5 ;ʼ =4.ʼ ?,41 ;.77.ʼ J1'<>.ʼ'=4 ?0.% .6 ?1 <;.6 6,<7 0 .< ;, ?'05.6I 56 6, 7 '466ʼ0 .< 71, / ?.6% .41 .6?, 18 ;.5=ʼ>,<7 ,< 5.6 .< -1.8 ; .67 >.ʼ 1.6646;7.1 S''<,05.66.% ʼ 66. / 05 .ʼ.47 ?1 6 4< ?'17ʼ ?546 - J,41.4@ U 5.41 .J'1>8 ' <6ʼ=4.ʼ- 6 ' -Q6 >4 / ʼ < 67 .ʼ'471 ;: .< 01'0' ,<8 6417,%47 >.?4 6 5.ʼ1.7,41 >4 1, 8 ;;5.ʼ'41' 7 0 .< E' 7 '' -,6 '5E' 1.6%8% ' 6 -,46 97.6 >0-,1.6 > 71 J'<76 >'<6 7,46 5.6 ?'17 6%%%%%%% .6 ?1 <;.6 ,<7 >.6 <7.55 J.<;.6 ,4 71.6 ?.1E >.6 ?,41 .4@8 ,4 71.6 ;1 / <.55.6 .<-.16 5'' <'7 ,<%%I% ''?.7 7.ʼ '1 / U.ʼ >.ʼ 4@. / 0,41J 6.ʼJ1,66 7% %5.ʼ;, / 7.ʼ>.ʼ .1;V 1ʼ J.<7.'4 '' ;,<E.1 ʼ'' ?''V.;ʼ5.ʼ1,ʼ>.ʼ 4 5.% %>.ʼ K,4 55.ʼV '' ?'669 U :.41.6% 5 .67 ?'17ʼ?,41 @ 5'ʼ #:'?.55.8 .7 ?,41 6.ʼ1.<>1.ʼ>.ʼ5'' '' 4@. / 0,41J% #.5 :, / / .ʼ.67 6;;'05.8 Q.ʼ<> '56 6 ; .67 >.ʼ1. / ,1>68 Q;ʼ <.ʼ5.ʼ?.<6.ʼ?'6 8 5 .67 71,? J.<7 50, / / .ʼʼ '76Q.'64 6 ?,17U '';1, 1.ʼ=4 ʼ.67 7< ,<7.<5 >.6 ?1 <;.68 =4ʼ54ʼ ,<7 E. 7 E1, >. / <.ʼ5,16 >.ʼ '11.67' 7,< >.ʼ ,4 6 '' % .ʼ / / 'J <;ʼ.< .EE.7=4.ʼ;.77.ʼJ1'<>.ʼE4 7;ʼ '' 7<'<=77 8 <,< ?'6 E'47.ʼ > <71 J4.68 / '56 ?'1 71,? > 5<71 J4.6 '' 5''E,56% ʼ>.ʼK,4 55 ʼ [' 7 5'' 6 .<<.ʼ.< ?'1 ;45 .1% '

,47 &5 1.' '' <,6 ?546 E'1,. @ =<.' 5'' 1. <. / ' V,45' 7 ?'6 5 7 66.1 '4@ ?1 <;.6 :,<<.41 >.'6'4-.1 5.' 1, 8 .5 =4. ;.77.'Q'5,46 .' '' 7,47 J'7.%%%%%% ' ,< ?,4-' 7 ?.164'>.1 '' 5'' 1. <.' =4 .55.' '' ?546 > .<<. / 6 -.1 5'05.6 '4'>.:>16 =4 '4 >.>'<6 >4'1,V'4 / .8 ,< E.1' 5 J<.'0,<<.,64-1.% '1 67,;1'7 .8 ;1,V.0 / , 8 Q,4.'4<'Q.4' ''?.1>1.'5'' / ' 5 6,< >.' K,410,<%%%%

% . 77?.1.41 -, 7 / .4@ =4.'<,46% '7. / ?,1 6.' I$ Q.' ?.<6.'=4 5 6.'>.; >.1'' .<E < 8 / ' 6 ;.' 4.'6.1'' ?'6 ?'1 ;.6 J.<6 ; %I ''; ,<71. 1.-,545 ,< .67 7,4Q,416 P'' ?' ' 6 ,< >, / <'<7.'I / ' 6 =4'<> ,< .67 4< ?.4' >.'6'<J8 E1, > ,<<.' ;, / ?7.'=4.'641 >.6 71' : 6,<68 ?547>7 =4.' 641 >.6 E,1;.6 1 .55.6%%% <.'5.551.'>,<7 ,< / '' .<-,V6 4<.' ;,? .8 .7 =4'- .<5>.' '1 68 '<<,<;.'=4.' ,< .67 6>1 >.'> 671' 1.' 66. / 05.6 <'7 ,<'5.8 ?'1 66. <07..' / .8 > ';;.5.1.1 5.6 / .641.6 =4.' 5'' H1'<;.' >, 7 ?1.<>1.% < ?1.7.<> '-, 1 / 55.' 1,V.<6 >.' 1.7'1>.1 5'' E,1 / '7 ,< >.6 & '/?68 .7 ?'1 5''> . 71.7.< 15.?.4?5.' E1'<;' 6 >'<6 4<.'7.11.416'547' 1.'>,<7 ,< 6'41'' ?1, 8 5 7.18 '4' / , <6 ?,41 .<71.1 .< ;, / ?,6 7 ,<%

%%%%%%% .'1. 6 >.6 5.771.6 >.'#+' B'V.% <.<6' 5 '2 ?546 5,<J =4.' Q.' <.' .' ;1,V' 6% % 5.'0'1,< >.' B.171 ' 0.1J < / .' ?'6 5'' H1'<;.I ; .67 ?'1 54'=4.'5''5 ' 6,< & 1'0J.' .67 6' 0 .< <6714 7.'8 .7 7,47 ' E' 7 > 1 J.' &,<71.'5''1.-,54 7 ,<E1'< ' 6.% '1.;, / / '<>.'E,17 .6 ;' ' .66.6 =4.' ,< E' 7 '4@ & ' ' Z 2 ' .'-,46 &5 1'S '' ;.' ?1,?,6 =4.' % ! 1'- .1.' .67 E,17 . 7' 5 '11'66.' 'K14@.55.6% .'<.' ;,<=, 6 J4.1.'?,41=4, '5.6 ;5 ?5, 77'5.6 > ' 66. / 05..' <'7 ,<'5.' 6,4 E1.<5 =4.' ;.' / < 671.' 1.67.' >'<6 4<.' 6' J1'<>.' ?.1?5.@ 7V% ' 1'' 5 .<7 7 Q46=4 '' 54' E' 1.'?1.<>1.'5''; ;'1>.'05'<;:.'5' 54 1'V / .% ' '' ?,<17'<7 .;1 7 ?546 .416 E, 6 ?,41 >.\ <6'<>.1 '66 67'<;.%

8 ' ' <.' .6?.;.'>.'E< < 671.'6,17 >.' ;:.0 / , % #.7 0, / / .' .67 '66.0 :'0 5.% ' / '6641.' =4.' 5'' H1'<;.' <.' 6.1''?, <7.< / .641.' '-'<7 4< 7. / ?6 ;,<-.<4% .'- 46 ;,<6. a.'>,<.'> V6,<J.187,45 '1 67,;1'7.'=4.'Q.'64 6%%% V.0 >.6 E,1_ '5.'5,<J >4 ;< 8 ' ' 1 L ' 0 1 ' 0 '4,R U ' ' ' ,< 1.0 -,468 <.6 ;:.16 .<<. / 68 .7 ?.16,<<.' <.' 6.' <,7 71.1'8 .7;%

H # %

'8 ' ('Y ' +' ' ''>7> '>1.66>8 ,E56 . 18 7'47 4 5'' / < ; ?'5 7. .7 '4 ;,<6. 5 J.<.1'5 >.5'' ;, / ' < / .' = 7 '4 >.?<17. / .<78 4< ?.7 7 <?1 < > ' / 7 ?,41 5 71.' ' '>'<6 .=47N5 '47.7 1 ?1.7.<> ?1,4-.1 =4.' 5.6 >.1< .16 71'-'4@ E' 56 >'<6 5,' ;:' / ? >.5''H. 5>1'7 ,< ,<7 >,<<> 5 .< 2 >.6 > 5'? >'M 7 ,<6 ;,<6 >.1'05.6%

< 1.?,<6.' 7 ;.5 .;1 78 ,4 ,< ;:.1;:.' '' <;<5?.1 '1;: 7.;7.'>.' 5'' - 55.8 Q.' -,46 ?1 .'8 ,<6 .41 8 >.' -,45, 1 0 .< <6.1.1 >'<6 5.'?1. / .1 <4 / .1,'>.'-,71.' Q,41<'5 5''>.;5'1'7 ,< .@?1.66.' = .Q.'E' 6 =4 .<'4;4< 7. / ?6 .7> '4;4<;'54'< .1.'=4.5;,<=4.Q.'< ' ' ;,,?.1>I <'> 1.;7. <.<78 < <> 1.;7. / .<78 '4@71'-' @ =4' ?<7 .7.'E' 56 Q46=4 '' ;.'Q,41>'<6 5.;:' / ?>.'5''H.>.1'7 ,<%

8 ' ' '

% %

.'<'- 1.'5''8 '>< B'-1.8 ;'? 7' <.' % 5.'< K'?7 '7.' &5'55.78 >'' ?,17 >.' U '7,<<.'4@8 7..6 .,4 / ,>.' ?,41 5.6 ?''6'J.1'8 .5 <'1;:'<7 0 .<8 ?'17 1''?,,1 5.' ,17 '' 1Q<;.' >,'C' '< ' ' ,47% #14@ =4'-,4>1,<7 V ?'' .1 ,< 0'1J.1 >.6 / '1;:'<> '.'' '' E1.7 6 '>1.'' .1,<7 ' % '. 4 E1.1.6 <.J,; 8'<56 '< B'-1.8 ,4 '4> 7 ;'? 7' <.I%

' +.$'/+' ' (.+ ,/ *(9 ($+ ,/ . ('-(+' +50+$! '!' . ('/ *D

"

' / . / ' , . - % 8 , .

' ' ' F ' , '

' K ' # ' ' #B ' ' %

$ ' ' ' ' F ' G 3

,46 >;-0<6 -,461. >1.'#, / ?7.'>.;.=<'6 .67?'66.'$ >'<6 5.'5 . 1.J / .<78 ; >.-'<7 ,V'58 .< J'1<46,<'' ;:.5.67'>7% ' ,1<01.>.'?'71 ,5.6 :,55'<>' 6 >7' .<7 ,E5 ; .16 >'<6 ;.'1.J / .<7% 1.6=4.' 7,<6 ,<7 > '0,1> 1.E46.'>.'?1 5.1 5.6.1 / .<7% 6 7.'>,40.'> .<71..4@ 6,<7 1.-.<46?,41 .@?5 =4.1 5.6 / ,7 E6 >.' 5.41 1.E>6% 56 ,<7 > 7 =4 56 6.' ;1,V' .<7 5 >6 ?'1 5.' 01.-.7 =4 56' '-' .<7 1.;48 >.' <'< .1.' '' 6.' >.6:,<,1.1 >'<6 ;41 ?'V68 6 56F ?1>7' .<7 5.' 6.11'.<78 / ' 6 =4.' E,17. / .<7 '77';:.6 '' 5'' H1'<;.' 6 ;,<7 <4.1' .<7 '.'5'' 6.1- 18 6' <,46 -, 5 ,46 ';;.?7.1 5.41 >> / 66 ,<8 .7 5.61.?5';.1 41 5. .:' / ? :-.;'Q.6 / > / .6 J1'>.6 >'<6 5.41 ' .< ?1>7'<7 5.'6.1 / .<7% ,46 '-,<6 #14 >.-, 1 ?1.<>1.' 641'<,46 >.' ;,<6.1-.1 >.'6 01'-.6 J.<68 &Q4'<.8 =4 7' 7' .<7 5.41 ;,1?6 =4.' 5.6 5'1 / ;6 '4@ V.4@ .7 =4' .< '11';:' .<7 >.' 5.416 ;' / '1'>.6 .7 >.6 6f\.;7'7.416% ,46 5.' 0,< ?5' 6 1 >.' 66. / 05>.' <'7 ,<'5. 8< ,46 '-,<6 ?1,- 6, 1; / .<7 1.;4 5.41 >> / 66 ,< 8 <,46 5.6 '-,<6 1.?5';.68'?1.6 .<'-, 1 E' 7 ?'17''5.416 ;' / '1'>.6 =41 V ,47 ;,<6.<7 % 56 ,<7 .<64 7.'?1>7> 6.1 / .<78 .7 56 <,46 ,<7 =4 77.6 .< <,4 ';, / 054<7 >.'0><>> ;7 ,<6% ' 6. / 05.=4.' ,< ?.<7 ;, / ?7.1 641 >.'?'1. 56 :, / / .68

.<,<6 / ' <7.<'<7 '4@6,46 ,EE ; .16 .7'4@ 6,5>'76% '% 6.67 >5.-.'4<.'=4.67 ,< 641 5'' E,1 / '7 ,< >4 ;,1?6 .<71.' 5.6 ,EK; .16 >.' 1'15 55.1 .' .7 5.6 ;'<,<< .16 '' 71'60,41J% 55.''>7> > 6;47..'E1, >. / .47 .7'-.'1' ' ' 6,<% .> <>1.<> -.< ' 7 > 4<.' / '4-' 6.' <7.1?1.7'7 ,< >.5'' 5, % < ''54'5'' 5, 8 5''> E7 ;457> '' ;.66> 6'<6 < / 1' / 41.' .7 '-.;:'?546 J1'<>.'71'<=4 55 7>%

' '<>'4 5'' J'1< 6,< '-' 5 '11>7> 4<;' -, 741.' ;:'1J..'>.' C8 ' ;'17,4;:.6=4.'5.';, / / '<>'<7 >.6 71,4?.6 .<-,V' 7 '' . 66. / 0,41J8 641 4<.'>.<'<>.' 5.J'5.% .61.J / . 76,<7.7.64;;.66 -. / .<7'66. / 05>68 ,< 5.41 ''.@?5 =4.'5.6 1.J .68 .7 ,< 5.41 '' ,1>, / >'>.' 1.<>1.'5.6 ;'17,4;:.6% ,16=4 ,< ?'15' 7 '< ?1. / .1N 1.J / .<78 '< ;'?,1'56 .67 '-'<;.' .< ?1.6.<7' 76.6 '1 4.6I'4<,<'>.6';, / ?'J< .8 5''> 7=4.'5.6;'17,4M ;:.6=.6.1' . 7 ?'61.<>4.6I ,< '' ,1>,<<> '' ; .7 ;, / < .% >.'1.? .<>1.'6,< 1'<JI 5 < '' ?'6 -, 54 V '55.1I ,< '' .<-,V>. '?1 6,< 8 .5 ,< '' >,<<.' ,1>1.' ''5''; / ' ?'J< .'>.'6.' 1.<>1.' '4 =4'17 .1 I 5'' .55.' '' 1.<>4 5.6 ;'17,4> .6I 5.' 1.J / .<7 .5 7,465.6 '471.6 ;< ,<7E' 5' '<7'<7I ,< '' >. / '<>> J1>;.'?,41 5.' ?1 6,<< .1 I 5 '' .7.' / 6 .< 5 0,17.I 5.'7,47 6 .67 '66> 6'<65;' / , <>1.' / ,4-;< .<7.@71',1> < '1.% < ?'17'<7>.' .4E K1 6';:8 <.';.<7' <.'>.'6,5>'76 6,<7 -; 4 6 <,46 ?1.6.<7.1 4< / > / , 1.8 >'<65.=4.5 56 E4 6' .<7 >.6 ?5' <7.6 ' / .1.6 ;,<71.' 4. Q4.6 4<6 >.'5.416 ,EE ; .16% ,46 '-,<6> 6M ;47.'71'<=4 55. / .<7 5.416 J1 .E6 I ;,<-' <;46 >.'5.416 7,1768 =4, =4.'>'<6 5.' ;, / / .<;. / .<7 56 E466.<771.6 .<E5' / / . 68 566.6,471.<>4645''1' 6,<8 .7.4@ 1<> / .6 ,<7 >.;:1.'5.41 / . / , 1.%

, 5'' 5.6 E' 56 =4.'<,46 '-,<6 ;146 ?1,?1.6 ' -,46 E' 1.'Q4J.1'?'1 -,46 / > / .6 >.' .6?1 7 >.6 6,5>'76% #;' :.6.1,<7 ?'6<,6 '66.17 ,<6 =4'-,46 6.1- 1,<7 >.0' 6.8 . .67 6415.41 ?1,?1.;,<>4 7.'=4.'-,46 5.6'??1>; .1.0I ?,41 <,468 <,46 '-,<6 1.;,<<48 / ' 6 <,46 '-,<6 ?.46>'46] 8=4 ,<5.6 ,471'J.' 7 0 .< J1'74 7. / .<78.< 5.41 1.?1,;:'<76'<6;;66.' <640,1> <'7 ,< .75'6 > ' 7 ,<% . '6,5>'76 6'<6 >, 7.' ,<7 ;, / / 6 >.' J1'<>.6 E'47.68 .7,< .67 0 .<E,<> E '' 6 .< ?5' <>1.% 34 ,<E'66.' '77.<7 ,< ' ' >7'7 >.'> 6,1J'< 6'7 ,< J><.1'5.8 =4 1; ' 6457;' 7,4Q 16 >4 ?'66'J.' > 4< J,4-.1<. / .<7 2 4< '471.%3 '' ,<< ,401 ;? '6=4.'5.'E1, 66. / .<7>.6 <7 1>76 <. @' '<.76 '' E,1; \ < / 7 \7Y:5' / ,' \5 S <4.' 471.'5.6

; : E6 .5 ;6640 , >, <<W 8 >.<'<;; =<;'71,? 6,4-.<7
5.6 ?1. / .16 ,<7 ?1,-,=4..'?'1 5.41 ;,<>4 7.8 .
/ '1=4,<6 .<;,1.'=4.'7,47.6 5.6 E, 6 =< ,< " ?'15>'4@
6,5>'76 5.' '<J'J.'>,'5"1' 6,<8 =4 ,<5.41 " / ,<71# 5"
5, 8 56 ,<7 ;, 67' / / .<7 ,0. I < 'V,<6 >,<.''4;4<.'
<=4 .74>.'641 5.4166.<7 / .<76.7 6 1 5.416, / < 66 ,<
.'6.1 / .<7 =4.'5.416 ; : .E6 ,<7 ?1?7>'>, 7 ,46J'1'<771
>4.' ;.4@ .'<.'5. 1; , / / '<>.1,<7Q' / ' 6 =4.64 -'47
5" 5, I .5 _E.6 5,166,V,<60 .< ?.164'>.6>.' 5" ?546
;<7 E.1.' ,0. 66'<;.'>.'5"?'17>.6 6,5>'76

<6 8 6 ' <,46 1>64< ,<6 5.6 > 5E. 1.<76 ?, <76 64.'5.6 '
=4.56 " ?,17.'-,71.'6,55 ; 74>.8 .< <,46 .<-,V'<7 >'<6
5.6 ?'17 .6 >.' ; / ? 1.' =4.' <,46 '-,<6 ?'1; ,414.68
<,46 ?,4-,<6 '77.67.18 " >J'1>'>.6 ?5' ; .6E,17 E >.68
=4 .55.6<.' ?.4-.<75' 66#1 '4;4<.' <== .74>.'?,41 5.'
/ , / .<7 ';7 .5I =4 " <67'<7 ,4 5"J4.11.'?,411">.5'M
V.1 .55.6 6.' 71,4-.1, 5 >'<6 ; / . 55.41 ; 7'7 ./ '
J'1< 6,<66,<764 5 6'<7.6 ?,41 5. ?1.6.<78 ;'1 '4;4<.'
'1 / ..'<.d P.47 5.6Q<.<'; .18 <'5.6 <6457.1 >.'; .77;' % .
<. . 5.6 ?1E 71>6 1;E1';7' 1.6 ,<7 'J 7.' 5.6 . ?1 68
5;68?1.;'47 ,<6 =4 ,< " ?1 6.6 ,<7 '77.<4.' .EE.7 >.'
5.416 <71 J4.68 ;7 ,< >, 7 .<7 .1. / . 7 ; , / ?7.1 6 [
5" E.1 <.7.;7 5" - J 5'<;.'>.6 '> / < 671'5.416 .6?1 7
>.6 71,4?.6 .67 71 ` '0,<8 7 ,1>1.' V .67 ?1.6=4.' .<7 E;1.G
/ .<7 1.7'05 4 1.7,41 " ,1>1.' >'<6 7,47.6 5.6 ?'1M
7 .6 1.6457.1, 7 5.;'5 / ;.75 4< , < .<71.' 5.6 :'0 7'<76
' 55;4168 6 ' 5.6 ?1 71.6 1.E1';7' .6 .7' .<7 -.<4 '
0,47 > .J'1.1 << J1'<> <, <01.' >.' ; 7,V.<68 5" < 'G
Q.41.' ?'1Q .' .67 1.6 >.' '77'; : .. '4@ 0,<6 ?1 <; ?.6
.6 - 55.6 .7 .6 ;' / ?'J<.6 7Q,46 .< ,<7 >,<<.' >.]
?Q ;4-.6 46 .67 >74> .' " / '1=4.1" 66. / 05>.'<'
7 ,<'5.8 >'<6 <,6 ?.16,<<.68 7,47 5.'1.6?.;7 .7 7,47.'5"
; ,<5 '<;.'=4 5 >7' 7 ?,66 05.'>.'7. <, J<.1 '<6 <,71.'
1,47.8 ?1.6=4.'7,<6 5.6 :'0 7'<76 >.6 ;' / ?'J<.6 6.'
6,<7 / 6 6,46 5.6 '1<5.6 .6 ;41>6 1.E1';0 1.6 <.' 6.'
/ ,<51' .<7 ?'68 / ' 6 5.6;,<67 747 ,<<.56-.<' .<7<,46
:'1'<J4;1 ,46< ,405 .1,<6 Q' / ' 6 ;.'=4.'<,46'-,<6
-4 " 5"#:'?.55.8 >'<6 5.'> 671 ;7 >.'K.5 ,17I .? ,<8
;41>'>.' ; .'5 .4 8 .67 -.<4 " <,71.' 1.<;,<71.' '-.;'6;6
?'1, 66 .<6 '<,46 " > 7 =4.'5.6 5 5 .6 >.'6"?'1, 66.' .7
5 .6 ?'1, 66.6 -, 6 <.6 '-' .<7 E' 7 5.'6.1 / .<78 .<71.'6.6
/ ' <68>.'1.J'1>.1 ; , / / .' <E> / .8 >.'<.Q' / ' 6?1.< '
>1.'?,41 >?,4@ 4 'J'1J,< =4 '<.'6.' 6.1' 7 ?'6 .<1,5>
?,41 '55.1 6.1- 16415.6 E1,<7 .1.6; , / / .'J'1>.'<'7 ,M
<'5 # ;67 ' <6 '=4.<,46' ,<6 =4 77.5.6>.?'17; / ;<76
>4 : < ,? < ,< V .67 71, ?'?1,<,<.>.'?,41 5" #,<6G
7 747 ,<8 ?,41 =4.'Q' / ' 6 ,< ?4 66.>,47.1 >.1'77'; : .1 '
/ .<7 =4.'5" / '66.'>.6 :'0 7'<76 54 ' ,<7 -,4>

.67 >'<6 ; .77.' >>5 ; .46.' ?.164'6 ,<8 >'<6 ; .77.'
<7 / .'; ,<- ;7 ,<8 =4.'<,46 6, / / .6 6,17 6 >.' ; .6 >>
?'17; <.<768 ?,41 .<71.1 >'<6 ; .54 ' >.6 ,6J.6 ,46
< V '-,<6 ?, <7 71,4->>.'71,4?.6 .< J'1< 6,<I ; .?.<
>'<7 5.6 '> / < 671'7.416 .< >. / '<>.<78 ' <6 '=4.'>.6
'1 / .6 ,46 <,46 6, / / .6 ; : '1J>6 >;' -,46 ?1>6.<7#E
;411>;5' / '7 ,<8 .7 <,46 <,46 .< ';=4 77,<6 .6 '>M
/ < 671'7.416 6.'6,<7 ?5' <76 >.=4.5=4,6 ?1>71.6 1>E1';
7' 1.6I / ' 6 > .4@ / > / .6 56 ?1.<>1,<7 >.6 / .641.6
?,41 5.6. / ?>. : .1>.'>.-.< 1 <4 6 05.6 .6?1 7 ?405 ;
" E' 7 5.6 ?546 J1'<>6?1,J1>6>'<6;.'>>?'15. / .<7 .6
J'1>.6 V 6,<7 71E.6 - J,41.4@ .7 71.60 .< .@.1.>6 < "
1. / <1=4>'=4.'5.6 / ,<7'J<.6 6,<7 5.6 ;5 ' / ?6 5.]'?546
?1,?1.6 "5';45741;'>.'5" 5 0.17>I'466 .67 .55.'-' >.'
>'<6 .6 ,6J;6'G4< >.J1>'> / <.<7 .6 / 4< ; ?'5 7>68
5.6 > 671 ;76 8 5" J1'<>.' < 'Q,1 7> >.6 E,<;7 ,4<' 1.6
?405 ;6 .; ; >6 '67 =4.68 7,<6 6,<7 '< / .6 >.6 / > / .6
6.<7 / .<76 ,1>1.8 5"71'<=4 55 7>8 4< ,<8 V 1>J .<7
.J'5. / .<7I .7 <,46 Q,4 66,<6 >4<.'0 .4 >,4;.'6' 6
E';7 ?<8 >.' < 1 5.'; , / ?7;'=4.<,46'- ,<6 " -,46 1.< '
>1.8 .< -,46 5' 66'<7 >'<6 5.6 >>.6 >.'?' @ .7 >.'0,<
: .418 =4 '6. / 05;<7 E,1 / .1 '?'<'J.'>.' ; .'?'V6

:'66.V ?1,?,6.' 4< ?1,Q.7 >.' >>;147 =4 ' .67
'>, ?7> .< ## '7.1 / .6N
' W 66. <05..'<'7 ,<'5.8 <6714 7.' > '?1.6 5.' ; , / ?7.'
; 7.' 1.<>4 ?'1 6.6 ; , < / '''1;6 .<-,V; '>'<6 5. ">.?' E1G

$$$(*," - ' $$$*'3,'-(" '9('/ 5*(' +'4. 3(-,$.(' 4 *.'*$0$('
+3,*(,(3*,'-+*" (' .$)**+'- '-$',.$3,'-(@+9 (*+ /'(*,'
+ +0(.*(/ ' .' (" 3 (,(" (,' ' .' (" -('$," $*$" + @+D
9*(*+*/ -+*" ("A ." - 'BP + WI'A $*/ (' ('WF $ (,' HT '
('4(,' 4 " +0 $.' -(' ' $,(' -+*'3(' ,.$) *+ / +,(*-*' 5 ('
, *" (" *9(" (,' ' 44 (+*," *,' (,(' .(('*' -'/ *' ' *,' -+*" (
3+" -(' ($.(/ + .(*0 8(' -(0+*,' (' $*$',.(' -(' + ',$3('
4 .'#+$#,'$*-$5*(.'*$ + ,.(' ,.$) *+ / 3 *# . ((*,' + 2'
--(.(,'' J

<6,46 ,E5 ;7.1 .< ; : 1E - .<78 '4 7 ,< >4 6 @ . / .'
1 J / .<78 ; >.-Y<7 ;0'66. 516 >;' B' '47 " ; : . - '58 8
>.?,6;1 641 5.'041.'4 4 .'6, / <.'>.' '5 - 8 E14 7 >.'
1 ; ,<, / .>;' 6.6 ; ' / '1'>;68 ?,41 1;<51.5 ;< > 4 '
J'1>.'<'7 ,<'5

4?,<7 ?1.6.<7;' 4< ?1,Q.7 >.'>.;1;7 7.<>'47 "
47,1 6.1 5.6 / .<701;6 >.'5" ; >.-'<7 ; , / / <'47;'>.6
<?1 / .416 ;7 5 01' 1.6 >.' '1 6 "6.?'17'J.1 5" / '66.8
7'<7 .< / .405;6 =< / / .405.68>,<7 56 '-' .<7 E' 7 5.6 '
E, >6 + 66; / 05..;< ,->,<4.1'Q,4< ; / ;<7 .
; ;1;8 .5.;7.418 ,5E1.'4<.'6, < / ;'>.'C) '5 - ?'1 '<<..8
.76 .<J'J. "?'17'J.1:4 70,<6'1?.476 >;'7.11.' ">.4@ d
->7.1'<6=4 ''41,<7 0 .< >>E; : >4 5" / 771 .
" 6.'<;.' .67 5.-..'" 1, 6 : .41.6 G

' A ' &.'

<1 5"?1,?,6 7 ,< >.' # .1<,<8 66. / 05>.' ,11'
>,<<.'=4 5 6.1"E' 7 4< ; 7 =4 / ;'7 / 01.'?,41 5" E'M
01 ; '7 ,< >.6 '66 J<'76
' .'?1 ;'5.' ; , / 7;'>.6 5 <'<;.6 >.' <,46
1.<>1.; , / ?7.'>.6 ;'46.6 >.'5"5.<7.41 >;5"E'01 ; '7 ,< 8
>.6 '66 J<'768 .7 >.6 1.<7.6 6;'<>'5.46.6 >.6 ?.7 76 '6M
6 J<'76 < 5.6 -.<>8 ,< 5.6 ' ; ; '1.8 / / .' .<;,1.' .77
E.4 55.6 ;'>. / '<>.'4< ?1,Q.7 '5, ' ; , 71.'#.7 <E> / . '
'J ,7'J.

M 'N .'64 6 ?1>7 " : ,<71.1 " 66. / 05>;8
'E.4 55.6 >;'?.7 76 '66 '76 =77 ' ,<7 .7;' ' <6 ' >,<<.6
.' -,45' 6 E' 1.'<<. / ,5 ' " ; .'64Q.78 / ' 6 ; , / / .'5.6
?1,?,6 7 ,<6 -'5.<7 / .4@ =4.'5.6 5,<J6> 6.,4168 Q#
/ .' 1>>4 6 " >. / '<>.1 =4 5 6, 5 >,<<.' <,7.8 ;5 '
=4.'Q, 418 ?'1 5'71.6,1.1 .'<'7 ,<'5.'>.'5"?,17 ,< >.6
?' . / .<76 =4 ' 6 .B.;54.<7 '?.7 76 '66 J<'768 ' 4=4;
; : '=4.'?'17 .' ?1.<'47.' ' ; : .' ., / 0 . ' .55.' >, 7 .
1.; .-, 1 # .67 5.'6.4 ' < ,V.< > '11E 7.1 5.'01 J'<>'J.'
=4 ' - .<7 >.' -,46 >71.'>.<,<;. ' '466 ' " E @.1 '7G8
7.47 ,< >.' 66. / 05;.'641 5"5.<7.41 >;5"E'01 ; '7 ,<
>.'5"?.7 7.' / , / ' . < "<, < / .8Q.'<.6' 6?,41=4, 8
4< J1'-.41 J.<.1'5 #, / / .<7 4<6.4 ' : ,< / .'?.47 5
J1'-.1 7,47.6 5.6 .6?.; .6 >.'? .; .6Z

$ 'N .'?1.,? <'47 6 .67 >7,<<>'>.'5"5.< '
7.41 >.' 5" 0 01 ; '7 ,< >.6 ?.7 76 '66 J<'76 '<6 5.68
?1. / .16 <7, 68 5" > EE ;457.' > '-, 1 5.' ?'? .1 " E' 78
=4 ,< < .< E'01 =4' 7 =4.'?,41 8 '5 - ?'1 Q,4118
'4Q,41> :4 ' , ' .< E' 7 ?,41 (8 '5 - 8 <;.66' / '
/ .<7 ?,41) 8 I ; .4@ >.' '5 V 8 >;' '5 - 8 >.'
'5 - 6,<7 .< ?5. <.'E'01 ; '7 ,<
3 4'<7 '4@ -.<7.6 =4.'5.'?1.,? <'47 "'??;5;;66;' : '
>'5.46.685.'; , / 7.' .< " >7>'466 ' ' E.;7;'=4.'54 I 5 6 .67
E' 5 1. / .771.>.6 .7'76>.'5"?'17 .'>.6 ?' ; <. 76 Q,41 '
<'5 .16 =4 '6.'E' 7 .< ?.7 76 '66 J<'76 ' < " ?4 '?.1 '
; .-, 1'4;4<.' .6?.; .'> <71 J4;'>.'E" ?'17 >.6 'J.<76
>.'5"71.6,1.1 .I 6 5 .< .@ 67.8 . .67 >.'5"?'17> 'J.<76
,06;4168 > 'J.<76 640'57.1<.6 =4 ' Q 6=4 ; ' ,47 ? 7
>; : '??.1' @ 1.; : .1; : .6 >.7.41664?.1 .416 <64 7.'
5.6 ; ,44< 66' 1.6 >.' 5" 71>6,1.1 .' ?.<-.<7 0 .<<,46
E' 1.' 5.' ; , / ?7.' >.6 ?.7 76 '66 J<'76 =4 56 >;5 -1.<7I
/ ' 6 ,< <.' ?.47 ; ,<<'571.' 5' > 671 047 ,< = .< E,<7
5.6 ?'V.416 >;'1.<7.6I ; .4@ ; '> ' 55.416 <.'?.4-.<7 '6 '
64Q.77 1 ; .77.'> 671 047 ,< ">.6 1.J .6 ; .17' <.68 .'?,4 '
-' 7 ?1.-, 1 ; , / 0 .< 56 '41,<7 >'<6 5"6. / '<.'> '?'
?, <76 ">,<<.1 ,466'-, ' .<;,1.'=4.0;'4;,4?'4;8
?.7 76 '66 J<'76 6,<7 1.-.<46 .< E.4 55.6 >.6 >;?'17.G
/ .<768 , 5 5.6 E,<;7 ,4<' 1.6 ?405 ;68 =4 '5.6 '-' .<7 '
1.;468 5.6 ,<7 ; .>.6 ,4 / > / .' -. >46 < " .59 '466'
,05 J>'> .< E,41< 1"=4;5=4.6 / '<4E';741.6 / ?,15'<G'
7.6 =4 ';<'-' .47> '47 / ?546 0.6, <=4 .55;66.71,<

-.<7>'<6>.'?.5 7.6-55.6,E7 5<.'6.<?.<7E' 1Z8?'1'
<5.1/.>'1.'>.6E,<; ,<<' 1W6 ?405 ;68 4<.'>/''
<E7,<64EE 6'<7#

66./05>.'> E>1 7.1'>00<;7,<>.'6@/;/01.6'7@
;0/ 7E.'>.6/,/ ' .68.7;:'1J.'5.';,/ 7.'>.6E<'<;.6
>.'?1.6.<7.1'4<?100.7>.'5,';.<71.' 'J,7'J.R;6'?.'
7 56''66 J<'76%

% .1<.1'?1`.<7.'4<?1,0.7>.'>.;1.7?,<1'5.@>'
;47,<>.'5''5,'6415.6 / J1'<76%+#.?1,0.7.67'>,?7>
.77;.6'7.11,16N

W .6;1;,<67'<;.6,'6.'71,4-.5''<'7,<E1'<'6.'
<'E' 6'<7 4<'>.-,1%>.'1'??.5.1'>'<6 6,<6.<7,46
5.6.<E'<76>.'5''?'71.''06.<768.7>.'<.'?.1/.771.''4@
;7E5V.<6 ?1.6.<76>.'6,17 1'>4'1,V'4<.'=4,'?,41'>.6
;'46.6 1.;,<<4.6<>.166'1.68 66./05..'<'7,<'5.'
>>.10 7.';.'=4'64 7N

<E'5.':'??,17>.' % 55.78 5.'>.;1.7 64 1'<7.67
1.<>4'

4<'>.671,6;,/1,66'1.6<,1,/.6?,41'
6.'1.<>1.'5' 6 5.6>.?'17./;<56'>4' ,1>8>4' '6>.'
#'5' 6.7>.' 6<.'N ,4]''-,<6E'7'-.; % ,;:'/'
0.'4'5''-6 5.'>.6 E1,<7.1.68=4'<,46''.5.'?1.6;17.'
?'1' 66. 05..'<'7,<'5.8.7<,46'-,<6-4' ;6?5';.6
E,17.6>.671, 6>.?'17./.<76>'<6 5.6=4.56 5;,/G
1,'<>.8 ,47.6;.55.6>.'?1.1, .1.'5 J<.' ,<7>'<65.'
/.55;41'.7'7>.'>.E.<6.'8.7;,/?5.7.1,.<7/4<.6>.'
1'15 55.1.'.7>.'7,47.6 5.6/4<7,<6>;'J4.11.'<;;.6G
6'1.6I'<,46?.<6,<6/>/.'=4.' B@;.55.<7.6?1 7.75.'
0 5.'>.6 J'1>.6<'7,<'4@'?,411,<7'64??;;1'''5'E''
05.66.'>.6 J'1<64<6-.17'0;1,.<7/,/>1.6=4>.6
<.7'.<7>'<6 5.6 7./?6,4 ,4?,4-'7 6.'5-1.1'2'
0>46?1,E,<>.'6;;41 7.%

.6?5';.6>.'6;,<>.I'5 J<.'6,<7'4@'>.4@7.16.7
/.'4@71, 6=4'176'??1,-/,<<..6I' % ,;:'/G
0.'4'8>,<75';7-7.'.67'466'.5,<<'<5.'=4 47 5.8''>.'
7.1< <>'7,47;.'=4'>.1' 7.71.<6 //.>'7./.<7.<
.7'7>.'>.E.<6.'>'<6 <6?.;7,<.@';7.'=4 5''E'7.'>.'
6,<;,/<'<>;/.<7'' ,.5>.1<.18.7 % ,10'V8/''
1.;:''>.';'/?' <6?.;7.41>.' '17 55.1.8'';@.;47>
6.6,1>1.6'-.;'4<0/.'<E'7 J'05.8#.'=4.';.7,E5.1'
J.<.1'5''E,5>.?4 6;.77.'.?,=4.'.67?1,>J.4@8>J<.'
>.'1'>/1'7,<>.'7,47/ 5'1.8.7>.'5''1.;,<<'6M
6'<;.'?405=4.% ,46'-,<6 71,4->'>'<6 5.6 71,4?.6
5.6 6.<7/.<76 5.6?546'?'51,7=4.60 5.'?546 J1'<>'>.'
-,4./.<7'4'/'<7.<.7''5''>.E.<6.'>.'5''#,<6774M
7,<I'/' 6<,46'-,<6-<'?1.6=4.'?'17,47 4<.'J1'<>.'
/.7'<;;E.66,5>'76.<-.165.416,E5;.16% .6.@./?5.6
/'5:.41.46;/.<7 71,?'<,/01.<@'_.771,?'E1.=4.<76
>&',E5;.16>.6.17' 75.416>1'?.'<@I'?,416.'1.71..'
641'7.11.';71'<J#1.8,<7'5/.<7.;.77.'>.E'<;.'4'?,<7
=4.'5.'6.1/.<7>.;1.5>'5.'C'04<'8.7?1>7.'?'1'5''71.6
J1'<>.'/'0,17.'>.6,EE;.168<.'5.41'''?'61.<>4'J.'
<.1'5./.<75'';,<5'<;.'>.'5.416 71,4?.6% '.<'1.6<7.''
4<.'J1'<>.''57.1'7,<'>'<6 5''>6; ?5<.I'>'<6 <6G
71<;7,<8>'<6 67.<4.%

,46'<'-, 6?'6 0.6,<>.' ,46,516.1-.E';,5<0.''
/'7.5>.1'<J./.<78 7,40,416>'<J.1.4@8.67?<6'5'1'
/'<7>'<6 5.6; 1;,<65' 7;.6?1.6;<7.6I'<,46 '771 04,<6
.<'?'15.'4 .6?.;.>.'6.?'1'7,<'=4'.@67.'>.0''>.?<6
5,<J7./?6.<71.'5.6,E5; .16.5'5.6 6,5>' 6% .6?1.M
/.168 1=5/7.6>;' 15.41/7,17.'/.;,<<4.8,<7<.M
J5 J.' ;@.1;;.'>.'5.416>.-,16'0,41<'5.16I'.7 5''64'
-.55'1E..';,<7R/ .55.I'6'<.;.66' 1.''<'0,< ,1>1.I'
1'47,17.6<?.1.<1./1'V6..'?'1' '06.<;.',4 <'
6,4;'<;;%,45;6>-;E6;6 <7.<7,<6>;6;:.E68<,<7?''
<'?1.-; 18 ''11#7.1';.6>.6,1>1.6N<,46 6,<<.6
>'47/5?546E,<>.6''5.'?.<6;18= ;'5.'0P. 7<,/01,

'4J / .<7'7 ,<'& .'E,1;.'.67> '47'<7?546 <> 6?.<6'0 ;8 =4.'Q' / ' 6 J < 1'5 <.' 1>4< 7 641 6' ' 7>7.' 4<.' '466' J1'<>.'1.6?,<6'0 5 7.' '-.;'6' ?.<'>.'71,4?.6 1.J5..6 8 K,; '/0.'4' J'1>.' - <J7 ?5';.6 >.' J4.11.'8 >,<7 5'' / , 7 >'.< ?1. E.1.'4J<.8 .7 = .5=4.6 4<.6 Q / / .<6.68 '-.;'U*0'7' 55,<68 641'5.6=4.56 5 E'4>1' 7 .<;,1.'=4 5 ?177 >.'=4, 'E,1/ .1'4<;,1?6 > ,06.1-' ' 7 ,< 8 6 5 6.'5' 6' 7>.' J1'<>6 1'66. / 05. / .1 76 >'<6 5.' K1'0'<7 5. < >'' ;,<7 '<,.' >'<6 5.'095.'>.6 J'1>.6 <'7 ,<'5.6I >'<6 5.'0,< .7'7 >,' ,.6 ?5';.68 >'<6 5.41' '??1, - 6 <<. / .<7;, / ?5.7 .< / 4< 7 ,<6 >#J4.11..7 >.'0,4;0.8 ,;:'<7 '4 <.' 71,4-;'?'6 41J.<7>.' >. / '<>.1 4<.' '4J / .<7'7 ,< > <E'<7.1 .' >.' 5 J<. ' 6 >'<6 5.6 71, 6 >>?'17. / .<76 ,4 5 ;, / / '<>.8 5 < '=4.' ' .6;'>1,<6>.'71,4?.6' ';:. ' 8 =4'6,<75, ' > >71.';, / ?5.76I 5 '' ;.?#<>'<7>'<6 6,< , / / '<>.' 1'.<7>.6 ?5' <.6 / / .<6.6 .7 4<'5,<J';,1>.'4'>.'E1, ' 7 1.6 J'1>.78 =4'<.'?.47 71.' '-.;'4<.'71,?';7 -.' 641-. 55'<;.

.6 V.4@'>, -.<7 6417,47 71.';,<67' / / .<7 ,4-.176 641'1 / ?,17'<7.'71,4..'.<71.' '40.4J..7 # -.78 ?'1' '=4.55.' 4<.'1/>.' >71'<JE.1.' / '1;.1' 7 5,<J7. / ?6 641 6,<?1,?1.'7.11 7, 1.'4' / 5 .4'>.5'Y'H1'<;.8 .7 ?,411' 7 E' 1.' >.6 ?= <7.6 >,<7 5.6 64;..6 6.1' .<7 > EE ; 5.6 ''11>7.1 .7 '' 1>?'1.1 ,;:'/0.'4' '?.<6>' =4 4<.' ?'1. 55. 7.<7'7 -.' ?,411' 7 >71.' ?1& -.<4.' .7 1.<>4.' <47 5.8 .< E' 6'<5 4<'A;'/? 1;71'<;:.' ?1566

'40.4J.8 5 .<'1..,7/4'5''?,6 5 ,4 -.16 E,.7 >.1M < .1'8 5'' 7.11.'>5'<7 ;,4-.77.'>.'<. J.8 .7 5 '' .<>.?4 6 5'' 6'7 6E';7 ,<'>.' -, 1 =4 5 6 .7' 5 1.<;,<51>' >'<6 5.' 71';>' /> / .' '-.;' G '40?< 8 =4' ' -' 5 E' 7 4< ;'/? 1.71'<;:.' '5'' / / .'?5';..7 7.; 48 ?'1';.75.'< .641.8 5.'?'V6 ' ;,4-.17 ?.<>'<7 ''J4.11.'>.'5'' 64;;.66 ,< <;,1?6 1.6?.;7'05.'>.';'-'5.1 .8 =4.' ,< ?4 66.'1' ' ? >; / .<7 1'66. / 05.1 .7 ?,17.1'6 1 ;.77.' 71,4..8 >.' - .<7 >.' 5'' ?546 <> 6?.<6'05.' .7 >.'5'' ?546 41J.7 7.' < ;.66 7> ,47 .67 1'<=4 55.';:E 0 <,6 -, 6 <681 .<'<.' ?.<7E' 1.'6, 4? ,<<.1'>.6 <7.<7 ,<6 :,67 5.6I 5 <.6 V E' 7 ?'6 5.'?546 5.J.1 / ,4-. / .<7 =4'?4 66.'<,46 <' =4 .7.18 .'> 1'Q ?5468 5 1.J<.'.<;,1.'>'<6 5.6.6?7 76 4<.' E.1 / .<7'7 ,<'7.55.8 =4.' 7,47.6 5.6 71,4?.6 =4,' 1; / 7P=?;41'V .<71.E .<7 '4Q,41> :4'6.<7 ''?. <.'64E' 6'<7;6 ?,41 .< ?1.-.< 1 5.6 64 7.6 ,46 <.' .1,V,<6 >,<.'?' '=4.' ,;:'/0.'4' 6, 5 '77'=4>I / ' 6 6 >.6 / ,4 . / .<76 >.'71,4?.6 =4.'^ J<,1.' .<' / .<' .<7 5''?,66 0 5 7.8 5 < V'41' 7 >.'64;;.6 2 .6?.1.1';.<71.' < =4.>'<65'' ?'17 .>,<7Q ''?'15.';, >.664686 ',<54' 1.E46' 7 5.6 6.;,416 .< ;'-'5.1 .'=4'54'6,<76'<.;.6' 6' 1.6I ;'1'5,16 56.1' 7 :,16 > .7'7 >.'6 ,??,6.1'4<.' ?, <7.';,<6 >.1'05.'>.'71,4?.6 5.J 1.6 >'<6 5.' >.?'1' 7. / .<7 >4 ,1>I.55.6 . / ? ;:.1' .<7 E';5. / .<7 5.' 1'66. <05. / .47 .7 5'' 1.4< ,<'>.6 J'1>.6 <'7 ,<'5.68 6 . / ?'1.1' .<7>.'7,47.65.6;, / / 4< ;'7 ,<68 >.-'67.' 1' .<7 4< -'67..7 1 ;:.'?'V68 .5 ';;4 / 45.1' .<Q7 05.< >.6 / '5:.416 , >'5.1. 64 <.>.6>. / '<>.6E' 7.6?'1' ,;:'/0.'4

D .6 E,,>6 <.;. 6' 1.6 ?,41'5.';'/?'1.71'<;:>'>.' '40E J.8 56 6,<7?.<;,<6 >.1'05.6I 5.;, / 7.' / 5 ' 5' 1.'.7 5.' / < 671.'>.'5''J4.11.'?.<6.<7 =4 56 >, -.<7 5 1.' ';;,1>.6I CD =4.5=4.6 E,<>6 .@71',1> <' 1.68 6 5 .7' 7 ,05 J.'>.'E' 1.'4< 1'66. / 05. / .<7I 5.'# / 7.' / ' 5 7' 1.'.7 5. / < 671.'>.'5''J4.11.'6,<7 >J'5. / .<7 > '.' ;,1>'641 ..7 ,0Q.7I D >,40.',4'=4 <0.' / 55.':,1' / .6 >.'J'1>.6 <'7 ,<'5.68 ?'11:'5.6=4.55.6 5 6.1' 7 ';;,1>5 >.4@0'5' 55,<6 >.' J'1>.6 <'7 ,<'5.6 ?'1 6 .<<.6 .' ';, / 5;' / 5 7' 1..75.' / < 671.'6,<7>J'5. / ;<7 > ';;,1>' 641';.77.' / .641.I UD.< <8 5.''6. 0.'.6#'>1,<6>.'71,4M ?.6 '' .:.-'5 =4'54'6,<7 6'7 .;.66' 1;6 .;, / 7.' / ' 5 7' 1..<'' 1.;,<<4 41J.<,.8 .7 ''.;1 7 : .1'4 6, 1 '4 / < 671.' >.' 5''J4.11.'?,41 .< ? >-;4 1 .7 6 .< '6641.1 8 ,46 -, 6 64??5 ,<6 >,<.'>.'>. .1>7.1 ; '6,;, 16 >; / '< >6 ?'1' ,;:'/0.'48 .7 <=46 ,6, 6 -,46 '6641.1 =4.' '?'17 .'>.' ; <? 1.' =4 5 .67 ;:<1JS >.

>.E.<>1.'?,411'' ,?cP 6.1 ' 7,47.6 5.6 .<71.?1 6.6 1' <,6 .<4. / 6 4<.' 1.6 67'<;.' > J<.' >.' -,<6 ,46 '-,<6 5' 66S ?1E.6 >.' ,;:'/0.'4 K,455.8 <,71,' $;,55.J . 5=4 .1 .7 / , ' <,46 '-,<6 ,14 >.-, 1 -.< 1'-,41'1.<>1.';, / ?7.'>.'5'' / 66 ,<'>,<7 -,46 <,46 '- ;O :,<,1 6

8 K 1,< >.6;.<>'>.'5'' 71 04<.''4' / 5 .4'>'??5'4' > 66. / .<56 <, / 01.4@

'. '' ' '3'1), , ! , - ' .!' '1' 4;-/2 ') '* + -' ' ! !'' 1 ' 4 ' .8,! 1/. ,(5 '-' 4 ! / '1 ' ' ,(' 8 .5(., <') '?3);, 9'5 4;-1 '* ' -'5) 4,(5 (' 8,(' ')') '1 ' 4 '0/!/.- ' ', 5 A (2 (* + !'5' 4) 4 !(-' . ' ') (( ) ' ' 2

D '' ' ' 'E' 75'' / ,7 ,<8 .71 66. <05. .' ''>..1>7.8 =4.'5.6 ?,4-, 16>. ,;:'/0.'4'6.1' .<7 >7.<>46 Q46=4 'K 7;:.I Q.' -.776 > '??1.<>1.' =4;;.' J.<.1'5 'V' 7 >;1 7 '< / < 671.'>.'5''J<.11.'?,41'1.M E46.1';.77.''4J / .7 7'7 =4'>,'?,4-, 1I Q.' ?.?6.'4.'<' 1', <6 =4 5 >, 7 5 1.' .<J'J.'>.'<,4-.'4 8 '4'<,1E' ' ?'71 ,7 6 / .8 '' ';;.?7.1 ##;, / / '<>. / .<78 =4'54'.6 1.;, / / '<>>'?'1'5'' .,<E '<;.'?405 =4.' J7 ?'1'6.6 7'M 5.<76 1.;,<<46

) ' 5 '7 # .77.'=4.67 ,< '' 57>''J 7..'>'<6 5.';,' / 55 / 5 7' 1.8 .7 5. 7 .6<57'7''57>';,<E,1 / .''5''?1,M ?,6 7 ,<'>.' ,<7.6=4 ,4

'N ' 5.6 E,1;.6 < ' 5.' 7. / ?6 >.' ,' > ' / 0.'4' <.' 54' ?.1E:.75.<5 >.' 6'7 6E' 1.'5.' - .4'>.' 66. / 05>. '?. <.'54' 1. 7. 7 5 =4.5=4.6 :.41.6 >,<<.1'4'6 / / . 5I 5 '' (' '<6 6.6 E,1;.6 6 .?4 ' .<78 .7 5 E' 7 >>Q'' ?546 =4 5 <.' ?.47 E' 1.

66. / 05. .'> ;1.7.'=4.' 5.' / < 671.' >.' 5'' J4.11.' .1'';:'1J.'>. / .751.' '' .@.;47 ,< 7,47.6 5.6 >6?,6 7 ,<6 1.<E.1< .;6>'<6 5.'1'??,17>. K 1,< .7<.;.66' 1.6'4 ;, / ?5. / .<7 >.6 / .641.6 ?1 6.6 ?'1' ,;:'/0.'4

8 / / .1V ?1.6.<7.' 4< ?1,Q.7 >.'>5;1.7?,415.' 1. / ?5';. / .<75 .6 ,E5 ; .16>.' < / .. + 5 .67 '>,?7 8 8 +' ,46 5.'1'??,17.1, 6 >'<6 5.'?1,;5 ' < <4 / 1,

' ' ' ' / 'I 66.7?05..''>.' ;1.7>' : .1 =4.'5.6 / < 671.6 Q4 ' 1.<>1' .<7 ;,0 ?7.8 ;:';4< .< ;.'=4'5.';,<;.1<.8 >.6 / .641.6 ?1 6.6 ?,47 .@.;<7 ,< >.'6.6 >. .1.76 . -, ' >.'*(/ B.'E46 568 .7 5'' ;,<6;1 ?7 ,<'>.6 ; 7,V.<6 ?, ?1'6.'1.<>1.'641' 5'' E1,<7 >1.6,<7>41.66,17>. / 3 <>. ?'17. / .<7 '<<,< ' =4,'5''7,7'5 7.'>.6E46 56 ''57>' .@Q .> ..8 .7 =4.'5'' ?546 J1'<>.'?'17 .'.67 1.=4.' .< ;.' / , / .<78 ''5, '>4 C' ?,41'5'' ;,<6;1 ?7 ,<'>.6 J'1>.6 <'7 ,<'5.68 '' 57>' .<' -,V..' '' 7,<6 5.6 >>?'15. / .<7'8 .5 ?546 . 16 6.'6,< >.Q'' . / ?1.66>6 >.' 5'' < .751.' '' .@.;47 ,< I ;.54' >' 7 .16 < 7' / / .<5 / ''E' 7 6'-, 1 =4 5 '-' 5 .7.' ,4-.1 5 <.' 6,46;1 ?7 ,< ?,41 .471;7 .< >.6 :, / <.6 >7 J4.11.8 .6 '471.6 / .641.6 ?1 6.6 ?'1'1 66. / 05..' <' / .'1.J'1>.<7 ?, <7 'Q,45= =4 5 .67 / ?,17'<7 ?, / 5.'6.E- ..' ?405 ;' =4.' 66. / E'5..'E'66.';,<<'E71.'6,< <7.<7 ,<'641'5.6 ?'<76 .7 ;5 '466..6

< ,06.1-.'=4.'5.'1'??,17 .67 E @.'>.E < 7 -. / .<7 * Q>. / ' <'4'6, 1

' B'I 66. / 05>.8 .< / '<>'<7 5.6 / <6' 71.68 ?,41 -.< 1 54'1.<>1.';, / ?7.8 -,45' 7 '-, 1 >.6 1;<6. J<. / .<766415.;' 1?=4'.< ;.' / , / .<7 .67'66 6 >'<6 5'' ?5' <.'>.'7 1.<.55.I ,< '' > 7 =4.'5.6 / .641.6 < '-' J<7 ?, <7 .5.' ;,<;.17..6 '-.;' 5.' / < 671.'>.'5'' J4.11.8 =4.' ;';, / / 66' 1.' >.6 J4.11.6 < '-' 7 ?,<' ?'66.'5.6 71,4?.6 .< 1.-4.8 .7 =4 ,< J<,1' 7 ;'5 .4',5 .55.6>.-' .Q 76.'?,17.1 ,>. / '<>.=4.5.6 .;5'1; 66;' / .<76 <.'6, .<7 ?'6 >5 .1568 '5 <'=4,' 66. / 05;.'?4 66.' 5.-.1'5.6 ,5 67'.5;6 6 ',4 .< ,??,6.8

' ' ' ' ; 'N 66. <E;5>.' ''>.' #1.7.'=4.'=4'7 . - <J7 > @ 6.?7 / 55.':, / <.6 >.'J'1M >.6 '5, '5,6 6.1' .<7 / 6 641 . :'<?' .<';5-7. ,1J'< 6'5 ,< >.6 J'1>.6 <<7 ,<'5;6 < .67?, 7 >,' / ,7 1.?,178 .5Q.' ' '4; '' ,1>1.'' ,<<.1'2';.'6 Q.78 Q'

&E5 6.45; / .<7 / .' 7.< 1' 197?,41' <67'<7 , ' 5.'1'l ' 6. / 05. / .<76.1' 7E' 78Q.' <.'64 6?'6'<,< ?546 ; :'1J.' > <> =4.1'5.'5 .<'>,'1'66. / 05. / .<7l / ' 6'>'<6'5.' ;'6' ,4' 66. / 0 .- .<>1' 7" / .<' ; : '1J.18 / ,4'71'-' 5' .67 7,47'?1>78 .7 .<- <J7 =4'71.' : .41.6'5.6 ,1>1.6'6.' 1,<7'?'17 6%

' 4 * ' ' 4667 7=4.'5.'>>;1.7>.5 66. / 05. .' " >7.'1.<><8 5" J'1>.'<'5 ,<'Q.'?'1 6 .<<.' " / ,<71>'5.' ?546 J1'<>'0.5.' ?,41'6 .<1>5.1% " / 4< ; ?'5 7.'54 ' " 7, 1<'>. ' / ,V.<6'> .<1>5. / .<78 .7'5.'>.?'17. / .<7 " <, / / >'>.6' ; , / / 66' 1.6 =4 8 ' - .; ' ; .4@'>.'5" / 7 < ' 7 ?'5 7>8 ,47 E,1 / .'>.6 0'7' 55,<6 =4 ' ,47 .7.' ;' / ?>6' '<6'5" ?5' <.'>.'#1.<.55.8 ?'66>6 .<'1.-4.' .7 ?.1?. ' 74.55. / .<7 , ; ;4? 6" >.6 .@.1; . .6% .'>.?'17. / .<7 6.' Q,<; .17.' ' - .;'5.' / < 671.'>.56'J4.11.'?,4E 5.41'>.67 ' 5'7 ,< 457.1 .41.%

7 1'5" ?1,?,6 7 ,< >.' Y 5.@'<>1.' ' / .7:'8 6' . / 0 . .'>.; >.'=4.'5.' / < 671.'>.'5" J4.11.' <> =4.1" 5.6> - .165 .4@>.1'66. / 05. / .<7>.6J'1>.6'<'7 ,<'4@8 I7 ?1.<>1" 7,47.6 5.6'471.6 / .641.6'<.; .66' . .6 " 5.41' 1' '1; : .%

" 6.'<; .'.67 5.->.' ")' .41.6%

' ' ' ' %

% .6.<<.8 >5E.-.>.5" / ' 6,<>.66>41> .5' / 4.768 H'7 : , / / 'J.' " 66; / 05>.'>4'0467.'>.' % '00.'>%.' ?. .8 <67 747.41'>.' ; .77.' / ' 6,<%

<.'>. ?47'7 ,<'>.6'> / < 671'7.416'>4'> 1.;7, 1.'>4' 5 671 ;78 >.6J'1>.6'<'7 ,<'5.68>. ' .; ;5.6 '67 =4.6 E,<; ' ,<<' 1.6 ?405 ;68 >.6Q4J.6'>4'71 04<'58 .7 >.6Q4J.6' .'?' @'>.E' -555. .7>4' ;'<7,<>. .1<.4 58.67 '> / 6.' Y5" 0'11.% +' 55.'Q41.'>.' - .16.1'Q46=4 " " >.1< .1.' J,477.'>.' 6,<'6'<J ?,41'5.' / ' <7 .<'>.6'>.;1.76'>.' 66. / 05>.8

66. / 05. .' '#; ,1>.' >'5" >.?47'7 ,<'5.6 : ,<<.416 >.'5'86.'<; .% 88

<E' 7 5.;741.'>4<.'5.771.'>.' '5.' / ' .'>.' '1 6%

/&' *'$(.' ('?=.('$-(* ' D+$ 6 **(.' -('0 "(*0 8(.:' + ' * ' - ' .47' *$3$4+ / (' 4. 3(' 0(.)+' -(' +' '(3,$ *' -+')3+ %(% .+* +$'/ .(+,$#2' ($ (3 ,$ *' -D *' -(3.(,' -(' D ''G) ((/4 .' ('.(3(*'((*,' -("3$, 8(*''A($*"2'3(' 4. 3(' 0(.)+' (24 '$,$ *' -(' +. . ,('5 (' +' *$3$4+ $,(' +' 3. ' -(0 $.'4.(*-.(7 '+*' * ' -(' +' *$3$4+ $,(' (' 4= 4 $(' ''( ) (('-('4.(*-,('-+*" +'4 " ' .,('('3 *'$-(D' .+,$ *' +' * 3(''$,(' -(' -(3.(,(.' -(" 4($*(" 3(*,.('3(2'5 $' (''+$(*,' -(' '(' -($ 6(.'2'$+' ,$9$ +*3(' -(' +' $/' f($,' (*' .(# = '+*,' -('#+$.(' +' -(3 +.+,$ *'5 (('(2$9(/' '(*'(4 8+*,' +'0$ (*3('4 .' '(' ' ',.+$.(' +' ' *' (2(3 ,$ * :

, ' ' ' ! ' ' C*' * *

(3, .('#+$,('- ,,*'4. 3('!0(.)+' -.(''(')$(.'4+.' (''3 D' $''+$.('%-(' +' '(3,$ *' - ')(+,.(! .+* +$'/ .(+,$0((*,'2' +' $' - ' .(3(4'((*,/ ('4.($(.' ')',$, ,' - '4. 3 .(.D' ,- $*,' -(' +'3 *(' (*,(*- / ('3 .4" *$3$4+'+. . ,(;' L'5 %(24(-$,$ *' - -$,'+. .-,('(.+' (*0 8 ('4+. &' (*$+$.(' ' ' ('4.('$-(*,7 -(' ''($6 (('*+,$ *+ (7' 5 (''(D') '*+,$ *+ (''(.+' * 44 (('-('4.(*-.('-+*" +'4 "9.+*-(' 3 *'$-(.+,$ *' +' *(3(''$,(' -('4. * *3(.' -(" 4($)(''3 *,.+' (") $6 (" + $*,(*,$ **(" 5 $' (''+$(*,' -%(36+443.' +' *' 0$9$ +*3(' -(' +' $/' ' $' (*' 44 '+*,' +'0$ (*3(/' ' $, (*' .(# '+*,' -('#+$.(' (" -(3 +.+,$ *" * 3(''+$.('/ + 2',(, (" -(' +' $

('3 *'(' *$3$4+'+. .(,(' (*' - ,,%('5 (' ('3 $''+$.(' -(' +' '(3,$ *',.+- $.+'++',.$) *+' -('4 $3(/,+4,' ('- ('! ,$5 (' -(' 'O 36(). *('5 (' 'O 36(). *(' *$((;/ 4(.! ' **((,*(*,' .('dN *'+) ('%-("#+$," -(' ' *' - (',$5 ('/5 $' '%(',4 .,('+' -("$*' ,"(,'+' -("0$ (*4("3 *,.(' "3 D' $''+$.(" -(' +' '(3,$ *"(2(. +*,' (.'"# *3,$ *'

% 6 4 0 .' ,1>,<<.'5.'1.<-, '>.'1% 11E 7>'>.'5" / 4 ' < ; cP'5 7 E8 .7 >='=1, ; .6 - .10'5 =4 'V' .67 Q, <78 " 6,< ; , / 7>'>.6'1'??,176%

+' % ?5<.58 / ' .'>.'5" - 55.'> 4@,<<.8 .67 '> ' / 6' " 5" 0'11.%

% ?' 6'-, 1'1.<>4' ; , / ?7.'>;' '< ,<=4 '1.J : .' ; :71.

5.'1.J / .<78 ; E5.-<<7>.'5" H 1.8 '17 5 1 .8 .4'J'1< ' 6,< " 4@,<<.8 .7 5.6 ; 7,V.<68 5 E' 785.;741.'>4< '11>7.' >4' ; ,<6. 5J. <>1'5 >.'5" ; , / / 4<.8 =4 '1 7.1.' 6,<'>:>6 ,< " 7,46'5.6'>.;1.768 <,7' / <.<7 " ; ;54 '>4' 'Q4 55.7 >.14 .18

66. / 07>.' ' ; ; ,1>.' / ' 7 ' 1.' > 4@,<<.'5.6 : ,4 ' <.416'>.'5" 6.'<; .% 8' 8

% +' % # . ,J<.'E' 75.;741.'>4<.''>1.66.'>.6 ,EE ; .16 / 4< ; ?' @'>.' '4 / 418 =4 '1.1 ,4-.55.<7 '466 '5.41' 6.1 / .<7>.'E >.5 7.' '4@'>.;1.76%

4.'>.?47'7 ,<'>.'5" - 55.'>.' , 66V .67 '> / 6.' " 5" 0'11.I .55.'?1,7.67.'>.'6,< .<7 .1'>.-,4. / .<7 '4@ >E;1.768.7Q41.'>.' / ,41 1?545 7=4.'>.6,4EE1 11 <-' ' 6 ,<'>4' 7.11 7, 1.E1'<J' 6% ' W$

">. B 7'7 ,< 1.J, 7 5.6 : ,<<.416'>.'5'6>'<; .%

+ % '- J<.'E' 75.;741.' > 5 / .'5.771.'>.' % # : '1 ' 5 .48 =4 8 >.?7 6' U '<6 ' 405 <8 6 .67 .1'?1.66>'>.' 1.-.< 1' .<H1'<; .85,16=4 5' ' '??1 6=4 .55.-,45' 7>71.' 5 01.I 5 ,EE1.'4<.'6,74 / .'>.' '5 -% ?,41%5 .<71.7 .< >.6 : , / < .6'>.'J4.11.%

66. / '>.; >.'=4 56.1"E' 5 / .<7 ,<'>.; .>,< '4' ?1 ; .6 - .10'5%

% % / ' N '<<,<; .' ' 66. / 05>.'=4.'5.6 <.J, ; '<76>.'5" - 55.'U.' ,45,4 .' 6.' ,<7 .<J'J.6 U ; ,<7 <4.1'5.6 '??, <7. / .<76 >.' ; .4@'>.5.41 ' , , / / 6 =4 ' 1' .<7 641' 5.6 E1,<7 .1.6 I ; .4@ =4 ' < ,<7?, <7 >.' ; , / 1< 6 ,47 E,11'>'4<.'6,46;1 ?7 ,<?, [' .<71.7 .< >.6J'1>.6'<'7 ,<'4@% & < '??5'4> 7%P

66.1'05>.'>.; >.'=4 5 . '6.1" E' 7 / .<7 ,< ' ' ?1, ; . ' -.10'5%

% #' / 46 E' 75.;741.8 .7 66. / 05>.''>,?7.'4 %?1, ' Q.7 > <6714;7 ,< 41'5.6 > / .6 <E. ,>>.6%

' 0) 'N#.' / '7 < , 6'V.O ,1>,<<>" - ,6 ; , / 7>6 7.' / '1 <.8 ; ,5,< '5 .7 5 7' 1.8 >.' - ,4 1.< ' >1.' ; , / ?7.8 ;5'<6 5.' ?546 ; ,417>.5' 8 >.6 .->< . / .<76 641-.<46 " ,1 .<7% .6 46%714;7 ,=6 =4 ,<5 1.J4.6 4 ! ,' ; , / 7.6 " ; .7>J'1>'6,<7 1#<E.1 / . .6'>'<6'5"5.771.' . .1 7.' ?'1'5.' . , < / '7 >47 7>.' ; .'?, 178 .7 >,E77 - 46 ' -.0 .<M 7.<>4' ; .' / '7 <'5" 5.;741.%

< -, 7>'<6 #.77.'5.571.'=4 5 ' " .7 '4< / ,4-= .< 7' / 7<.4@'>'<6 ; .'?, 178 =4.'5" - .'>.'?5 76Q.4E6 < > - >46 ' 7.' / .<' ; . .8 =4.' . E.1-.6; .<; .'?'1' 66' ' 6 '?' 6.1 8 .7 =4.'5.6,E7 ;7.16 ?405 ;6 ,47 ?'1E' 7. / .< 1. / ?5'5.41>.-, 18' <6 =4.'5'J'1>.<'7 ,<'5.% '?1>' ' ; ,<6 >.1'7 ,<68 5.6 ; . / 7.6 ,47 ?.<6.'=4 5 ?,4-' ' >77. 17 5.8 6417,=7>'<6 . . / , / .<5 , 5 ,< - ;47 <.771' 5.'J,4-.1<. / .<7 .< ' ; 7 -57>8 >.'<.'?'6 ; ,<67' / / .75 > .7.1'4@ / 651.6; .=4 56>, - ;<7 ' -, 1' . 7@ / l / .' 5E' 1.I =4.'< 'V'<7 '4.<<.'?5' <7.' " ?,17.1' ; ,<71.' ' ' ;4<'>.6E,<;7 ,4<' 1.6 ?405 ;68 064E5 6' 7> '??1?4-.' 5" ; ,<>4 7.'=4 56 '-' .<7 7.< .8 .7 >.'1'? 5.E <, ' '471.6 5.41' >.-, 1I =4.' 641' 5.' 641?546 Q5 < V '-'N ?'6'5 .4'" >>5 0.1.18 .7 =4 5'E'55' 75' 66.1' '4@'5, 6'5.4' ; ,416% < ; ,<6.=4.<; .' - , ; '5.'?1,Q.7=4.' - ,6 ; , / 7>' / ,<7; : '1J>'>.' - ,46 6,4 / .771.8

I' &' '$(,,$) ((' # +,$)+$(? +4.($ + $.'(*,(*- ' ('.+44-.$' -(''('3 $,("3 *$+ / $,+$.(' (,' -(' +' +.$$ / ' .' (' (-*((*,"+. .$((" +' .$(*,/ (" ' (,'WT -*'4.('(*,'*$ $'7' 3 *'$- .+*,'5*(' (9 $*#',.3'/ ("3 .4'+- $* , .+,$$'/ 3+' 3 $''+$.("3$0$ '/ ' *,'()+.9 " -('0($ (.'+*' +$*,$(*' -(' .-.('4) $3/ 2' +' ' ((,(' -("4(.' **("(,' -("4. 4.$(,('/ 5+ $ '' ' *,' .(0 ,+"4+.' +' *',$,*,$ *' -(' .+ , .$ (' (3('D' '+$.('4 .'.(.+4 $.'3(" -$0(.") (,'7 5* (*#$*'$ ' ' *,'36+A' (**.('4(3$$0((*,'3,' ' -(' (*.' $*(2(3* $ *7' .*-+*,' -D+$ (*." ',$3('5' +' 3 *-*$,(' -(' +' * *$3$4+ $,(' (,' -(' +'9+.-('*+,$ *+ (' -(' .$(*,/'3 4,+*$' + .' +3,0,(' (,' +' 3 *,$**$,(' -(' L(*.' U((/ -(3+.(' 5*(/ 5 +*,'+'4.('(*,/ $' 03' +'4+" $(*' +' - $)(.(3 '*.' (" (,,.(" - ' $*$',.(' -(' +' +.$*(' (,' - '3 +*-+*,' - '4 .' -(' .$(*,/ (* -+,(' -("WX(, ' -('3(' $' ' ('-(3.(,('(','+- 4,(

%#'< 46 ' / ,<; .= . % '<; ,<; ;'E' 7 : , / / J7

Q 66,E5 O5;.' > 5 < . @. / ?5' 1;' >.' . *383 L$(-$4/ .7 Q j
6 ;?J'J.'+ ;? 7E5 .1'>.'5'6, / <.'>.'/999'$ 4'?'1''5
'' .<51.7 .<'>.6 J'1>.6'<'7 ,<'5.6%
+ '(+*3(('' (0,('+ BI'6(.('

A * A

W 66'/O5..'<'7 ,<'5. '47,1 6. 7'' 7 '< ; ?'5 7.'>. '7
5 ?1,;.>.1' '' 7'' 1.;,<<' 66'<;.' >G' 6;.55.6' '??,6.68''?1.6'
'06;<;. >.'B ,<6 .<18'>'<6'5]6 / ' 6,<6',;.<?..6'?'1' <',<'
c\'1' 5.6'?.16,<<.6'>.'6'' / ' 6,<I''5.-.1'5.6> 76'6;.55.6''?1.6'
>.6;1 ?7 ,<'6, / / ' 1.8' ' .@#.?7 ,<'>.';.<@'=< '6,<7''??,M
6.6'641'5.6''1/ , 1 .68'#,EE1.6'.7'?'? .16''??'17.<'<76'?'17
;45 .1. / . 7'''5''?.16,<<.'>.' ,<6 .<1'Y

% * !
) 8
3 '0 & d
!

'W "%' '56'5.'>'6',48'5,16'>.'5'' - 6 7.''<'O41.'4'>.%>.67
<'7 ,<'>''>.'?'66'J.8'5.6' / '1;:'<> 6.6'5,.<7 ,<<..6'>'<6'
';=4 7' '';'47 ,<'6.'7O ,4-.1,<7' > .1.<7.]'>'<6' .6?.;.8'
.55.6' ..1 <7'6' .68' .7'5'' ;,<E 6;'7 ,<' .<'6.1'' ?1,<,<;..'
;,<71>'5.6';,<>4;7.4168''-.;''7<.<>.'>.';.<7'5 -G8'6'4E5.'1'
1.; 416';.<71.'5.6'.@? >57 ,<<' 1.6% '5''=4' 7.'.67' <E.'
1 .'1.' ';.5E.'?,17..'>'<6'5 '.=4 7' 6' ;'47 ,<8' Q5' <.'6.1''
>.#:'1J.'=4.'?,41'5''=4'<7 O.'1_=\1.6.<7..N .<';'6'>%.N ;;
>'<78' 5'6.1''6,</ 6' '=' >,4O5.'>1, 7'-#<' ,O6.1-'<7';.'=4'
.67R.J5 '?'1' '17 ;5.' >4' 7 71.' G' '5.6' / '1;:'<> 6.6'
1.?1.6.<7..6'6,<7'?1,: O..6' ' .<71..8' .55 6'6.1,<7' ;, E6'
=4 .6' '-.;''/ .<>.'>.' ; <=' ;.<76'5 -1.6I'5.'7,47' <>.?.<'
>'/ / .<7'>.6' ;,<>'/ <'7 ,< ' =<' 6.1,<7'?,<16< - .6' '<'
O41.'4'>4'>.?'17';,<71.'5.6'6,41' 66 ><<' 1.6'.7'5.<16';'4\'
5 ,<68'.7'> '?1.6'5.416'6,4 / 66 ,<6G

Y'5 ' .6'6,< / 66 ,<<' 1.6'=<'1'??,17.1 <78'>'<6'5.6'>.'
5' 68'5.6'';=4 76'5' ;'47 ,<' > ;:'1J] ' ;.17 B .1,<7' '4'>,6'
>.6> 7.6'.@?.> 7 ,<6'5''1. / 6.'=4 56' .<'E.1,<7I' 76'6.1,<7'
7.<46'>.'>.;5'1.1'5.'<, / 8'5''>. / .<1.' .7'5''?1,E.66 ,<'>.'
;. <'=4 '5 41''47''1. / 6'5.';.17 ;'7'>.'>..O'1J.8'?,41'. 1.'
?1.;.>.8'6 5'V''5 .<8'6? 7';.<71.'5.6'6,< / 66 ,<<' 1.68'?'1'
''-,7.'; - 5.8'6,E7'6'E.@E1',1> <' 1.8';.<71.'5.6''47.416'>4'
E'4@' .7'5.416';, / ?5 ;.6G' '<6';.' >.1< .1';'68'5.6> 76'6,<'
/ 66 ,4<' 1.''.7'5.416'T#'47 ,<6'<.'6.1,<7'7.<46' =4.'>.6'
;,<='/ <'7 ,<6' ?41. / .<7' ; - 5.68' ;,<E,1/ . / .<7 '' 5.416'
6,4<7 66 ,<6G' .'>.5''?,41'6 '6641.1'>.'5'' -.1 7.'>4';.17 Q
;'7'>.'> :'1J#Q' .7'?,41' <7.<7.1'5 '.7 ,< '6.1''>.'=<'51.'
< , 6G' .7' '?1.6'5.> 7'> 5'' 5''1.J .'6.1'' <,<'1';.-'O5.'''
E,1/ .1''4;4<.'>. '<>.G' d

Y "7%' .6'>1, 76';,<6 J< .6'6.H,<7'1.<>46''4@' / 1;:'<>68'
.7'5.6'6,< / 66 ,<6' =4G.4@' .7'5.416' ;'47 ,<6' '41,<7'E' 7.6'
6.1,<7''<< 5..6' .<'5.41' ?1.6.<;.8' .7'6'<6'E1' 68'6<1' .81.'
J 671.8' .<'1'??,17'<7'?'1'.<@'5.6';=4 76' ;'47 ,<81.-.746'
>.6';.17 E ;'76'>.'>.;:'1J.'.<'O,<<.'E,1 / .8'6'4E'5.';'6'?1.-<'
?'1' '17 ;5.'?1.;.>.<7%

4 "<%' '5.6';.17 E ;'76'>.'> #O'1J.'=4 '>.-1,<7' 1.'>
-1.6'>'<6'5.6' O41.'<@'>.'5''>.67 <'7 ,<',<'>.'?'66'J.'<.'
6,<7'?'6'1'??,17.6'>'<6'5.6'> ' 6' O7.6'?'1'5.6' ';=4 76' ''
;'47 ,<8' .7'6 5 ''?'6'.<';,<6 J<'7 ,<'> '6 / ?5.'>1, 8'
''1.J'1>'>.6'1'' #:'<> 6.6'=4 'V'6,<7'6,4 / 6.68'5.6'?1.?,M
6.6''1''?.1;.?7 ,<'>'<6' .6'O41.'4 ;'>.;.1<.1,<7';,<71' <7.'
;,<71.'5.6'6,< / 66 ,<<' 1.6'.7'5.416';'47 ,<68'?,41'5.'?' .'
/ .<7'>4'>,4O5.'>1, 7'>.'6,17 .%

Y " %' '5.6' / '1;:'<> 6.6'.@?.> 7.6' ';=4 7' '';'4M
7 ,<'6,< '<6'5'' ;5'66.'>.';.55.6' ?1,: O..6'.'5''6,17 .8'5.6'
?1.?,6.6''5' ?.1;.?7 ,<'?,<11,<7' ?'1. 55. / .<7'>.;.1<.1'
;,<71' <7.'?,41'5''-'5.41'>.6> 7.6' / '1;:'<> 6.68'E@.16'?'
5.6'6,< / 66 ,<68' .7'?,41' '/ .<>.'>.' ; <=';.<76'5 -G8''466'
4,<E,1 / . / .<7''<@> 7.6'6,< / 66 ,<6%

Y " %' .'< / , <6'6'5.6> 76'6,< / 66 ,<<' 1.6'1'??,17.<7'
>'<6'5.'7.1 / .'>.'6 @' / , 68''?1 ' .@? 1'7 ,<'>4'> 5''E@'
?'1'5.6'';=4 76''';'47 ,<8'5.6';.17 E ;'76'>.'>.;:'1J.'.<'O,<<.'
E,1/ .8'.7'> 5 -1.6'.<'7. / ?6'47 5.8',4'5.6'?1, ; - .1O'<@'>4'
1.E<6'>.6' ?1,?,6.68'5.6'>1, 768' '/ .<>.6' ,4' '471.6'6, / / 6'
=< 56''41,<7'?'V 68'5.<1'6.1,<7'1. / 6I' 56'6.1,<7'<.'< / , <6'
7.<46'>.6' E1' 6' E' 76'?'1'5'' 1.J .8'Q<6=4 '4'Q,41'>4'1'??,17'
>.6> 7.6'? .;.6%' ?1 6'5.> 7'>.5''>.'6 @' / , 68''4;4<.6'1.M
;5' / '7 ,<6'1.5'7 -.6''4@> 7.6'6, / / .6';,<6 J<..6',4'?'V..6'
<.'6.1,<7'> 6.68' .7' 5'6.1'';, / ?5V'?'1'5''1.J .'' '71.6,1'
?<O5 ;G'Y

G' ' O D%P

' # # %

; J 'B ' ' ; 3 % +' 4Q,41>'C8' # , ''
',# $';, / .> .' V1 =4.'.<' '';7.6%

- (' ' '1% $ +' <Q,<1> :,'C8'%= # ' '
!+' '& $

< '% ' +' 4Q,41>%'C 8' !' * !'/) '7 !'
'? @ ,' ' !' '" !+' ' !' ' !' ',#

- '1 ('14.'>.' ;:.5 .4%' +' 4Q,<1> :4'C
'O ';, / .> .'.<' '';7.6I' .7'%3( ) ' , (#. '
;, / .> .'.<' '';7.%

- ' ' ' '1 * ' +' 4Q,41>%'C ' # # ! '
,? 1''O1'< ' 6'.<' '';7.6%

- ' ' ' '<<' '5'6 ,V'5
+' <Q,41> :4'C8' '* ' # $',? 1''.<'C';7.6I'.7' 7 '
8';, / .> .'.<' '';7.6%

- ' ' '3 ' ' '5 ' ' <Q%'C
. '= $';, / .> .''-.;'4<'> -.17 66. / .<7I' '% '
A ' 7" $' O'55.7I' * # ' ! ' ' # ' ' +'%3,# '
) ' +'5.6'] '<7.<16I' !(') ' '!# ' '
' ',# . ' ' . '(# ' '('% , $'?'<7,'
/ / .'6' / ';OG'.7' !' !''. !$' O'55.7 ?'<7, / %

K !7 #,4 3 8''4%O,45.-'1>'><' . / ?5.%' +' < ,,1 %'
!'- ((!$';, / %'.<' '';7.I' '*# ,' ( ) +' '= '
$' ? .;.6'.<' '';7.I'.7' ' = !, $' ,? 1'';? / 5=,'
'6.,'4<'> -.17 66. / .<7%

- ' ' '8'14.' ' <7 '17 <%' ' 4Q,<1> <'C
' ' ' ! , . !' ' !' !+'.7' 'A '?)'
!' '# ' ' , ' '2 <

- '1 ' " ' ' * " ' +' 4Q,41>%'C
B ,# ' !' ' ',4' ')# # '(, . $'?'1''
;,46 <' ';=4.6%

- (' ' ' ' ,4-, 68 ?1 '5.d '5'6 ,V' '+%!'
<,4-.'4'6?.;7';5.'E.1'' <;.66' / / .<7'6,<',<-.1741.%

' '+ 5 '8' / .'>4' '58 C' *%' +' ' .67',<-.7
7,46'5.6' ,416' 46= ''7.55.'O.41.'=4 5'?5' 7' ' %'5.6''O,<'
<>6'> V'1.67.1%

.! (7 ' ' " D "' %@- ! ! "' '

$2'4.(* (." $"BHTB' ' (" +8(*."' *,'+' +'- '

'G ' ' & ' & ' 'G7" ' '

',(.-+ ' K ' ' FF 7W'$ +- 2' ' 'BE'B',F
@+) O9' ' ' %WPPN (*(" ' K' ' / / BBXB
-.(" D' ' ' ' W 'LA=$O .(' ' BWFB
+-.$-' K .' K K BEB'BX'' 8 */ , ' P7F6X7E

K !#$ $$. (' ' ,

3,$ *'%-(" *-(" -('WGII' $O' '%/' ' / / WWBX/
.,$ *" -('BGII' O' O /
V' - C $OD' '' ' CZ
V' -(' BIII' $O'%' /
4. *,- 3$)2(-(GII O
,(.$('- (,).('BHEP/ FII O ' ' /
4. *'-('- 'BHEW/5 $,+*3('-('#$*
V -('BWX'$*$ *'/ -(3'BHEF' ' ' BX/'BX'B7E/H7E/'P[F
-('EI' $ $ *''+O(3') (,$*''
$,,+*3(" -('#$*+*3(" '+*") (,$* ' / /
,/ (*'O$+9(. 3,).(D' /' ' ' ! K BI' W P7F
" (,$*' / ' ' ' /
' J ' / % D 7 D A D
(3 **+$''+*3("-(') $(,$*'
& ,$(' D
O 4*$$$,'-' +$*('-('+'O (/'-.$(' .,$(' ' D D
V " -(.(+ 2 4. O(*+*,' -('('(*'* *" .,$ Z' DD D
3,$ *'' * O' -(" *-(' /GX/'GP/ GW/GI/'GW/'GDX HH'
+$''(' - ('3 4,(' ' ' 'K' ' PEXX/'GI/)/'GE/ <5D'($[
($!3+$''(' ('(+ 2 ' '4+*'KK ' D WX/PI/ / FI EP.FXD' b
$,,+*3(' -(' DK
4. *' -(' * O( ).('BHEH/ $'X'4 'KD[&' D ' D D /$
' (%#$' %' %' %' %
V -('2+' .+$@$ *'/ -%+ ,'BHET' / K D D D D D '
'' .+*3("3 *,.(' ("$*3(*-$(" ' 9' /)CC D U *' b
+' %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%N* N[B ** 5

) * ʼ, %ʼ1ʼ%ʼ 2ʼ - & %

D WBXʼ F ʼO ! & ʼ4564ʼ Cʼ < (ʼ (ʼ ʼ ʼ 3

E %

ʼ 2 ʼ ʼ .ʼ1, ʼ>, 7 0 .<7, 7 '1 ʼ 1 - .1ʼ>' 6 6'' ; '? 7'7.% 5%.6 ';5 76 1, V'4@ 6.<7 >.Q'' .<ʼ 1, 47.ʼ?, 771 1.;.-, 1 '' 0, 1>ʼ % % .76 '' 64 7.ʼ8 .7 ,< '' >, << ʼ>.6 01>1.6 >.ʼ7.< 1>.60 '7 / .<76 ?1U76 ?, 41 5.ʼ 71 '<6?, 17 >.ʼ6.6 =4 ?'J.6%

ʼ3 '51.ʼ1.J / .<76 , <7 > Q''1. 4 , 1>1.ʼ >.ʼ6 '66. / ʼ 0 .1ʼ>'<65'?5' <.>.ʼ '>4J'16E.5>I% ;.77.ʼ1.4< ,<8 =4ʼ < '' ,1> <' 1. <.<7 0.4 =4 7 5'' / 6.?5. / 01.ʼ8 ;'46.ʼ =4.5=4.ʼ641?1 6.% .6 -' 66.'4@ >.ʼ J4.11.ʼ .7 J'5.1.6 6,1 7 7, 4Q, 416 ?1.76 '' <.771.ʼ ''5'' -, 5.8 .7 '5 ;4< / 'J' ʼ 6 7ʼ >.ʼ - - .6 .7 >.ʼ 0411'J.6 < '' .<; ,1.ʼ 7.ʼ / 6 .< 1.<7.%

% >.ʼK, 4 55 ʼ?.1.ʼ.7 E 568 ''4@=4.56 5.ʼ19 ʼ>.ʼ 4.>.ʼ '' >, <<.ʼ>.ʼ . / ?5, ʼ>'<6 6,< '1 / ..8 ';; , / ?'J<.1,<7 % % '' 7>; :? /%

*- ʼ (ʼ ʼ' - ʼ +ʼ '' > .7.ʼ>.ʼ ,7,J<.ʼ '' 646?.<>4 6.6 6.'<;.6 Q46=4 '4 / , 6 >.ʼ6.?7. / 01.ʼ?1, ʼ ; :' < N 5 < .67 1.67 ' '16, - .=4.ʼ5.6 / . / 01.6; ,1,?, ʼ 6'<7 5. #, / 7.6 =4ʼ>, -.<7 ?1E..<7.1 '' 5 ''> .8 ʼ 6'' 1.<71..8 5.6 > -.16 ?1, Q.76 =4 76 6, <7 ;:'1J.6 >.ʼ 19> ʼ J.18 6, 7 ?, 41 5''1.E, 1 / '7 ,<>.ʼ .7'7';74.5ʼ>.ʼ '1 / ..8 6, 5 ?, 41 ';;1, 66. / .<5 >4 71 ` ,1 ?405 ;8 6, 7 ?, 41 5'' ; ,<E.;7 ,< >4 <,4-.'4 ; ,>.ʼ; - 5 .7;1 / <;5%

ʼ >, 7 .71.ʼ ;,<-,=4.ʼ>.6 '66.7:05..6 ?1, - <1 '5.6 ?, 41 1'-' 55.1 '4@ <,4-.55.6 5, 6I .77,16=4.ʼ;;6 5, 6 6.1,<7 ';;.?7..6 ,< 5.6 1>4< 1'' .< 4< ; ,>.ʼ=4ʼ?, 1M 7.16 5.ʼ<, /ʼ>.ʼ;, >.ʼ>.ʼ 7'? 65'6 4J467.% A

! %

ʼ$ ʼ 2 (^ < ?1.7.<>ʼ=4.5.ʼJ1'<>ʼ - 6 1 <664E ';0'' '.7 . <?, 6, <<>8 .7=4 55Q '.;:'??>ʼ '' 5'' / ,17 >, 45, 41.46.ʼ=4 '54 ʼ 7' 7 ?1.?'1.ʼ=4 .<?1.ʼ <'?7 E,1;.ʼ '<7 >, 7.6% .6 4<6 ?.<6.<ʼ =4.ʼ5'' ;, 41 '' -4454 6.ʼ>.E' 1.ʼ > 5 /ʼ :, / / .ʼ71, ?ʼ > EE ; 5.ʼ '' 1.7.< 1 >'<6 5.ʼ>.-, 1I > '471.6 ;1, .<7 =4.ʼ6'' 71, ? J1'<>.ʼ6>ʼ -.1 7.ʼ .<-.16 5.ʼ 6, 5>'7 .67 5'' 6;45.ʼ;'46.ʼ>.ʼ '77.<7'7 E,1 / .ʼ;.<71.ʼ6'' ?;16, <<.% 34, ʼ=4 5 .< 6, 78 \' .67 / .M <';.ʼ>.ʼ / , 41 1> 4<.ʼ / '< .1.ʼ '466ʼ 71'J =4.ʼ=4.ʼ6.6 ?1.>.;.66.4168 .7'<7 1.J'1>6 ; , / / .ʼ '47.'1 > ,<.ʼ J4.11.ʼ / '5:.41.46.%

G ! ʼ Q ʼ ʼ ʼ ʼ & ʼ ʼ !ʼ ʼ ʼ : ʼ ʼ ʼ ʼ ;ʼ

% 9L ʼ ʼ ʼF L ʼ ʼC* ʼ& G' E
(* % % ʼ

W '' :,<<.41 >.ʼ -, 46 <E,1 / .18 / .< ?1 <; .8 =4 'V'<7 '??1 6 =4 E6.ʼ1' / '66' 7 4< ; ,1?6 71.6 ; , <6 M >.1'05.ʼ'' ';0 < 8 Q ''?'66.ʼ5.ʼ '<40.ʼ8 '''77'=4.ʼ .7 ; , / ?5.7. / .<7 >.E' 7 5.ʼC)ʼ>.ʼ;.ʼ / , 6 &* Q4 55. P%

- .<<=<7ʼ''.4?546 >. ʼ<7 55.ʼ; , / < .6 >.ʼ74.687'<ʼ > 6 =4.ʼ<, 71.ʼ?.15.ʼ; , <6 67.ʼ .<ʼ ʼ ,1' / .6 ,4 .<- 1,< >.ʼ54.68 .7 ʼ 05.66.6% ,46 '-, <6 ?1 6 7, 47 5.ʼ;' / ?8 ʼ;'<, <6 .7 ʼ>1'?.'4@% < ''E' 7 ?1 6, << .16 .:ʼ / .7 1<'478 ?';0'' ''>.4@ =4.4.68 .7=, .5=4.6 '471.6%

Y 4 1'??, 17 >.6 ?1 6, << .168 5.ʼ- 6 1 E4 1' <5.ʼ6 .67 7.<< 7 44.ʼ > 67'<;.ʼ ?.< ; , <6 >.1'05.ʼ8 >.11 .1.ʼ 5.ʼ ;0' <?ʼ>.ʼ0'7' 55.8 .7 '' .7.ʼ6?.;7' .41 >.ʼ5'' >>E' 7.ʼ >.ʼ 6.6 71, 4?.6% .5 7.ʼ>.671, 4?.6 '6 '7 =4.68 .75;416;0.E68 #1'?'< J5, 4 .7 ! '1' 6< '< J5, 48 6.ʼ6, <7 71, 4-.6 '' ;.ʼ#ʼ / 0'7% .ʼ <, / 01.ʼ>.6 71, 4?.6 741=4.6 / , <7' 7 '' ?546 >.ʼ (ʼ / 55.ʼ:, / / .6% Y

Gʼ +ʼ< ʼ*Tʼ #

ʼ ʼ ʼ 7- ʼ+ʼ .ʼ;:'1J.ʼ > 'EE' 1.6% > 6 ?'J<.ʼ.< ; .77.ʼ; , 41 6 .67 1.<>4 6' / .>ʼ >.1< .1 '4ʼ?'' 5' 68 .7 '' ; , / ?5 / .<7.ʼ .5.;7.41 '4 <, /ʼ>.ʼ6'' ; , 418 '4 64Q.7 >4 71, <.ʼ '<=4.5 5 6.ʼ 71, 4-.ʼ'??.5.ʼ?'1 5.ʼ-, .4% J.<.1'5 >.6 ,5, <' 6% % % % '1.?, <>4 =4.8 =40 =4.ʼ ;.77.ʼ 'EE' 1.R<.ʼE47 ?'6 .<;,1.ʼ .<7 .1. / .<7 7.1 / <..8 .55.ʼ< ;< .7' 7 ?'6 / , 1 6 6.<6 05.ʼ '4@ 6.<7 / .<76 =4.ʼ % % #% -, 45' 7 0 .< 54 ʼ7. / , J<.<

.5.;7.7 1 ''<, / / .ʼ>.?4 6 ?.4 .7'7 / 'Q, 1.7 5''?546 '<>.ʼ ?'15 .ʼ >.6 ,7E ; .16 > 4< 1.J / .<7 >.ʼ:466'1>6 =4 5 '' <5.<7 ,4 >.ʼ / .771.ʼ 641 ? .>8 .7 =47'.1''>.ʼ / 57.ʼ;:.-'4@%

! a %

ʼ +ʼ .ʼC(8>4 / , 6 ?' 6.ʼ5.ʼ1, ʼ '' 7.<>ʼ 4< ;,<6. 5 , 5 ,<7 '66567.ʼ % 778 5.6 >.4@ 6.;1.7' 1.6 > .M 7'78 5.ʼ?1, ;4 .41 J.<.1'5 8 5.ʼ / ' 71.ʼ >.6 '1; : - .6 .7 5.ʼʼ ; : .-'5 .1 B, ['1>ʼN 7 .<% .67 / '<.ʼ4<.ʼ ?1, ;5' / '7 ,< 4<ʼ ,1>, <.ʼ> '11 7.1 5.6 '47.4168 ; , / ?5 ; .6 .7 E'47.416 7.ʼ . / .47.ʼ>.ʼK 7 < <J0' / % .6 1.;0.1;0.6 1 J, 4 ʼ 1.46.6 E' 7.6 .< -.174 >.G;.5 ,1>1.ʼ,<87 .4 7'47>.ʼ64;;.6 =4.?, <ʼ; , / ?7.ʼ>.Q'' (ʼ?.16, 7 / .6 > '11.7..6I 5 < .67 ?'6 ?1, 0'05.ʼ=4 ,< .< 1.67.ʼ5 7 I 6'<6 >, 47.ʼ5.ʼ <, / 01.ʼ >.6 ; , 4?'05.6 .67 / / .<6.ʼ8 / '76 ; .67 ?1 <; ?'5. / .<7 5.6 ; : .E.ʼ>.ʼ5''6.> 7 ,< =4. ,<-.47 ; , <<' 71.ʼ.7 '-, 1% < '77.<>' 78 ?, 41 5.ʼC)ʼ8 5.ʼ>.1< .1 ; , 411 .1=4.ʼ %H' [5 .<.1 ''>4 .@?.> .1 >.ʼ?.7.160, 41JI 7 < .7' 7 ?'6 .<; ,1.ʼ '11 -.ʼ5.ʼC* '4 / '7 <8 / ' 6 , <<.?1;64 / ' 7 ?'6 =4 5 ?47 0.'4; ,4? 7'1>.1% < '6641.ʼ=4 E '??, 1ʼ 7.1''5''<, 4-.55.ʼ;54 64; ; .6 >.ʼ5' <.J , ; '7 ,<%#.ʼ6 ; ; .6 ; , <6 67.ʼ''5' 66.1 7 / ?.1'71 ; .ʼ>.ʼ 466 .8 ; , / / .ʼ.55.ʼ .@ J.' #8 ;0'; ,[ʼ.76, < 7.11 5, E.ʼ .<71.ʼ5.ʼK, J.7 5.ʼ < .67.1I .55.ʼ -.47 ?, 417'<7 0 .< ; , <6.<7 1''>. / '<ʼ 7.5.1 ; .77.ʼE, 15.1.66.%

! .7 '11'<J. / .<7 >.E < 7 E7.1 / <.8 > 7 ,<8 5'' J4.11.ʼ '-.;'5.6 41; 68 .7 ,< 1.;.-1''5'' <, 4-.55.ʼ>.ʼ5'' ?' @ ?'1 5.ʼ / / .ʼ; , 411 .1% 5%8.ʼ6.;1.7' 1.ʼ>.ʼ ʼJ4.11.ʼ< .7 '?'6 / , <6 1.;4 ,1>1.ʼ>.?1#6.:7.1 5.ʼ?546 7>7 ?, 6M 6 05.ʼ .7'7 >.6 E,1;.6 ʼ / 5 7' 1#6 .< ';7 - 7# >'<6 5'' # '<>. K1.7'J<.I 5 54ʼ '' .7.ʼ>. / '<>.ʼ>.ʼ6?#; E5. ʼ5.6 J'1< 6, <6 .7 5.ʼ<, / 01.ʼ .@';7 >.6 6, 5>'76 .7 ,EE ; .16 >, <7 5.6 > EE.1.<76 ; , 1?6 6, <7 ; , / ?, 6.6%

.ʼC ʼ % 778 4<>'6 .7 '- 55.ʼ,<7 '66 67> ʼ4<.ʼ .6?.;.ʼ>.ʼ1.-4.ʼ>.ʼ5''E5, 57.ʼ>.ʼ ? 7:.'>I 4< V'.:7 5.68 '' ; , <>4 76 >.ʼ ,47:' / ?7, < >'<6 ;.77.ʼ1'>.8 ,4 7 ' / 1'5 B, ,>ʼ 5.41 '' >, <<.ʼ'' > <.1 '' 001>ʼ>4 3 ʼ *)]ʼ / ,<7.% ,47.6 5.6 %-.1J4.6 .5' .07 ;,4-.17.6 >.ʼ / '7.ʼ 5,768 .0 .=4 ?'J.ʼ5.6 ''6'54#6 ʼE, 41 >.?'178 ; , / / '' 5 '-' ʼE' 7 ''5.41 '11 -#.%

<.ʼ?1, ;5' / '7 ,<>4 1, ʼ- .<7 >.ʼ?1,1, J.1 5.ʼ?'1&. ʼ / .<7 > 515'<>.ʼ'49ʼ6.?7. / 01.ʼ? , ; :' <%

ʼ ,< ?.<7 6 .< 1'??, 17.1 7 .@71' 7 > 4<.ʼ5.771.ʼ >.ʼK'57 / ,1.8 <6.1..ʼ>'<6 5'J'0.77.ʼ>.ʼ . [LV; ʼ>4 ʼ / ' 8 5.6 'EE' 1.6 >.ʼ5'' ! 1'<>.% K1.7'J<.ʼ-, <7 71 6 / '7 %>'<6 <>.8 , ;ʼ;.7 .@71' 7N W < <'- 1.ʼ>.ʼ 55. >.ʼ H1'<;.8 '11 -.ʼ5.ʼ C* / '' '4 6, 18 '??, 17.ʼ5''<, <-. .ʼ > .5'' / ,17 >, ʼJ#4 1'5 .'>, [68 54#ʼ>'<6 4<% > E5.ʼ ,4 ?, ' 0 '-' 7 '77'=4.ʼ'-.;'7'<7 > '-'<7'J.ʼ=4.ʼ5'' ?546 J1'<>.ʼ ?'17 .ʼ>.ʼ '1 / .ʼ'<J5' 6.ʼ'' .7.ʼE' 7.ʼ?1 ʼ 6 / .1.ʼ ,4 5' 55#.ʼ .<? .; .6% Y #.ʼ014 7 '66.0>, 47.4@ '' ; 1, 45.ʼ ''5''K, 416.ʼ5.ʼC(I ;.?.<>'<7 5.6 ';7 ,<6 >.ʼ5'' ; ,11 ?'J 5.ʼ>.6 5<>.6 ,<7 ; '466.; ;'Q, 41 5'8 ;.ʼ=4ʼ]. / ʼ 05.1' 7 5.ʼ>. / .<751% +ʼ <ʼ / 5 7' 1.ʼ > 67 <J<# ?'1 6.6 ; , <<' 66'1 ; .6 .7 6.6 '471.6 =4'5 7 6 ?.16, <<.55.6 <, 46 '' ; , 141 4< =4 4<.ʼ5.771.ʼ .<ʼ>'7.ʼ>4 U<, -. / 01.ʼ (* 8 =4 5 ''1. .ʼ>.ʼ?, <> ; : .1V% 55.ʼ ?'15.ʼ > #;0.;6 ?546 #, <6 >.1'05.6 =4.ʼ; .4@ >, <7 5.6 <J5' 66, <7; , <-.< 46 N ; 7.ʼ ?. 7 E.'1 '1 / #.8 5'' ?546 E,1 / >'05.ʼ=4 56 ' .<7

Q' / ' 6 ;4.'>'<6 5<>. 7,1<7<.'6 <J45 .1.7'.:7 'H ' :5.' ?'1' 5" / ,17'5 5.' ;7 5" >.6.17 ,< >.6 # ?'V.6 I ?, , ' ' 0'5" :'1; .5'<7 '-.;'>.'5" ;'-'5.1 .8 ?1.<'<7 >.6 ; ,< ' -, 68 1.J'J<'<7 5.6 0176 =4 5 '-' 7 '0'<>,7 < 6 " 5 ' ?1. / .1.''??1, ; :.'>4 J.<.1'5 .'>, [68 '77'=4'7 7 4<.' '-'<7 J'1>.' ; ,<6 >.1'05.8 6.?'1>.' >4 J1,6 >.' '1 / ..' >.'6.?7 5 .4.6 P 4< ?.<'1'5.<7 ' >'<6 6" / '1; : .' - ;7,G 1 ,46.'?'1'5" / ,17 >.'6,<'0.'4 E1.1.8 74.'"5"?1. / .1.' '77'=4.I .<5.-'<7 .<64 7.'>4 0'J'J.' .7 9 ? .; .6 >.' ;'G 5 ,<8 .7 ;<E <'1''571' 7'<7 7.55. / .<7 6,< .<<. / ' >.?4 6 5.' U 6.?7. / 01.8 =4 5 5.'E,1; .'"1.71,J1'>.1>. '5 .4.6 .7 " 6.'1.E4J .1 6,46 # '11,418 5.' ?1. / .1 E,17 ?1 6 '?'1' 5.Z <J5' 6 >'<6 5.'#, / 0.7,41 ?, , '50 "?.1>48 >.' 6,< ;97.' 8 5.' J.<.1'5 '559.8 : '0 5.'7';7 . .<E1'<J' 68 7, .'>'<6 4<.' .6;'1 / ,4; : .

$

34.'7"?405 ;'7 ,< > 4< ,4-1'J.'?4 66.' 71.'4< >.M 078 ; ;67 ; .'=4.8 >'<6 .7'7 > / ?.11.;7 , 5 ,4 .67 .<M ; ,1.' ;6?E.; .':4 / ' <.8 ' .67?.47 >51.> E5 ; 5.>.'< .1I / '76 >;E;<>1.'7 < ,4-1'J.'-'<7 =4 5 #@ 67.86,4 / .771.' ">. '?. <;6 ;.54 '= '5.'> 671 04.8 6' 56 6'-, 1 .<; ,1.' 6' ,4-1'J.'.67 <<, ; .<7 ,4 >'<J.1.4@8 ; .67 '75'=7 .1' > 1.;7. / .<7 5"5 0.17.'>.'5" ?1.66.8 .7 '-.;' .55.' 4 ' < = .'1. / ?'17 >.'5" 5 0.17.8>.6 <'7 ,<6

.5 .67 ;.?.<>'<7 '046 >.'?,4-, 1 >,<7 5" / < ' ;5?'5 7.' >.' '1 6 -Q.<7 >.'6.' 1.<>1.' ; ,4?'05.8 6'<6 2P 4-, 1 6 .@;46.1 / . / .'641 5.'6 / 45';1.'> 4<.'5, .' <.'5 6 < ' , * ' 7 ' '8 ' '' ,E'>1.' = 56 / '-' .<7 =4.5=4.E, 6 71.6 <Q<67. / .<7 ; , / ?1 6 >'<6 5"5 67.>.6 .<<. / 6 >.'5"1.-,547 ,<I / ' 6 =4 / ' ?,17. .1.>' / .1' 6 >.' <. / .8 6 '5" ?,5 ; .''-' 7 >. ' 5.<>4 , ' '9 '6,' ' '8 ' #.'< .67 ?, <7 ?'1; .'=4.' ,4-1'J.'?-, : 0>.67 0,< ,4 < '4-' 68 ; .67 ?'1; .'=4 5 .67 ?1,< 0>'> '-'<; .8 =4 4<.' <Q,<; ' 7 ,< ; , / / .' ; .55.'>.'5" ?,5 ; .' .67 "5" E, 6 .7 4<.' - ,M 5'7 ,< >.' 5" . >'1'7 ,< >.6 >1, 768 .7 4< '77.<7'7 ; ,<51.'5" 5 0.17>

#,< '<; 5 =7 .' ; .55.'>.'5" ?1.66.' .67 5" 6.45.0'1 ' 1 E.1.'>,<7 5"7V1'<< ;'5" ?546'>1, 7.<.?4 66.'6.Q,4.18 =4 5 / .'6, 7 ?.1 / 6 >.'?1.<>1.' ; ' .<J'J. / .<7 >.' >.<,<; .18 <,< " ' ;;46'7. 1 >.'7.5 ,4 7.5 '11,<> 66. ' / .478 / ' 6 "5" H1'<; .8 / '76 " 41,?.8 7,47.6 5.6 '77. 7 7.6 = 4< ?,4-, 1 =4.5; ,<=4.' .66' .1"># ?,17.1' " ; .'0,4;5 .1 6';1.'>.'<,6 >1, 76

'' '=4.5=4.E, 6 > 1.'5" ->1 7.' ,46 '<; .< >.6 ' ?,7 6 / .I V,6.1' ' 5" > 1.' .<; ,1.8 =4.5 =4.'6, 7 ; .54 ' 4 ,4 <,46 ?1.?'1.8 0.6 :V?, ;1 7.6 ' / 6 >.'5" 5 0.17.' ?.4-.<7 E' 1.' >.' / , ' 4<.F - ;7 / .8 / ' 6 Q.' <.' 6.1' ' Q' / ' 6 <'5.41 <6714 / .<78 <'5.=1 >4?.

!! (' !

A W - 5

"6=; >7.'>.6 / 6 >.'&" #,<67 747 8>4 ' <7 6 ' ?- 78 >.?'-7. / .<7 >#6 '<>.68 ?1.6 K'V,<<.8 <.'1.G' 7.-177 =4.'>.6 5.771;6 .7 ?'=4.76 'EE1'<; : 68 .@; .?7>'>.' "6, ; .7.' / .1.'>.' '1 68 >.' ; .55.6 >.' '@8 K,1>.'4@8 5 ,47 U. '16'4 .7 '4

" ,A O

' K '

' ' 'F' , ' '

' / ' K 5C' 7 7

$ 41 5.'1'??,17 >;' ,EE <8 5.6 >>;1.76 6 -'< ' 74<71.0>46

6 . / 05>.' <'75,5 '5.'8 '?19 ' 4 ! ' E.:5.<>4 5.'1'?M ?,17 >4 ; , / 7.' >.' ; ,<67 747 ,< 641 5.6 >.5 0.1'7 ,<6 >.6<4 < ; ?'5 7>6 >.'H1,<7 J<'4 .7 >.' '1; .5'<8 >.M ;5'1.'=4.' 5.' >>;1.7 >4 CU / '16 .67 4<.' 6 / ?5.' ; , / M / 66 ,< '4 > 1.;7, 1.'>4 >>?'17. : .<7 >.' B.1'4 58 ?,41 .<7.<>1.'5.6?'17 .6 <7.1.66..68 .<>1.66.1 ?1,..6' -.1E7'5 .7 .<64 7.' >71.'67'74.' >>E < 7 -. / .<7 ?'1 6' 6. / 05>.' <'7 ,<'5.8 ' <6 ' =4 5 <??'17 ;<>1'8 641 516 (! ,'><,5 ; ..6 '4> 7 >. ;1.7 >4 CU / '16 8

66. / 05. .'<'7 ,<'5.8 '?1.6 '-, 1 ;<7.<> 5 5.'5'?' ?,17 >4 ; , / 7.'>.' ; ,<67 747 ,<8 >. ;1.7.' ; .= '64 7N

' 6.1'" .7'05'>.6 71 04<'4@ >.' ; , / / .1; .' >'<6 7. ' - 55.6 >.'K5, 68#,<>. 641 , 1.'48 34 55.0;4E.7 ,41' >'<

.6 5 < 7.6 >. ; .54 ' >.' # ,<>> 641 , 1.'4 6;1,<7 ; .55.6 >.7.1 / <. .6 ?'1 '11>7.'>4 > 1.;7, 1.'>4 >.?'1' 5. / .<7 >4 #'5-'>,68 >4)'Q4 <'>.1< .1

#.54 '>.' 34 55.0.4E '41"?,41 5 / 7.6 ; .55.6 >.'6,< #'<7,<

#.54 '>.' ,41>'< < .67 .7'05 '=4.'?,41 5.6 ; '<7,<6 >.' ,4 > / 8 , ; : .E,17 .7 05 6 G

'" 6.1" <, / / > =4'71.' 64??5.'<76 '4 71 04<'5 >,' ; , / / .1; .'>.'K'1 5. 4 ; G 8

+' ! ,4>'17 6,4 / .7 '5">.5 0.1'7 ,<'5" 64 7.'>.6 > 6?,6 7 , / 6">. ;1.7.1 641 .6 ?.1; .?7 ,<6I >.6 >,4'<;6 .6 '17 ;5.6 -'<76 6,<7 >>;E.7.6

'

" .6 ?1,?1 .7' 1.6 ,4 ; ,<>4;7.416 >.6 / '1; : '< ' > 6.6.7>.<1..68=4 '?'66.1,<7>. <7.1 .41 >41,V'4 <.' 641 5.7. 4 7, 1.'>76>.4@'5 .75.6 5 / 71,?: ;6 >.' .71'< # 18 6.1,<7 E.<46 >.'5.6 ; ,<>4 1.' '4 ?1. / .1 041. / ' 6,17 .8 .7 > .4 E' 1.' 5" >. ;5'1'7 ,< >'<6 5" / <.' E,1 / .'=4.'?,41 ';=4 7 >.6 >1, 76 ' >J<1>'>.' ; .55.6 &Q4 '>.-1,<7 >71.' .<5.-..6 >'<6 ; .77.' .7.<>4.'>4 7.11 ' 7, 1.'>.6 >.4@'5 .4.6 5 / 71,?: ;6 >.' .71' J.1 8 ?,41 V ; 1;45.1 ,4 >71.' 71'<6?,17. .6 >'<6 47.1 .41 >4 1,V'4 / .8 5" >. ;5'1'7 ,< >.-1" .< >71.'E' 7.'404 .'8 6, 7 > .<71..8 6, 7 >.'6,17 .8 5.'?546 ?1, ; :' ' >4 5.4 >.' .<50-. / .<78 .7 '-'<7 ; .7 .45 -. / .<78 .'7,47 " ?. <.'>.' ; ,< 6; '7 ,<>.6> 7.6 / '1; : '<> 6.6 .7>.<1..68 .7 > ' / .<>.'>.' '5 -

" .6> 76 ?1,?1 .7' 1.6 ,4 ; , <>4;7.4168 >'<6 5.6 ; '6 ><,<;. 6 ?'1'H'17 ;5.' ; >.66468 <.'6.1,<7 ?, <7 '6' 6<Q.77 6'4@E,1 / '5 7.6 >.' ';=4 7 ' ; '47 ,<I 56 6.1, 7 6.45. / .<77.<46 8 6,46 5.6 ?. .6 ?,17. ;6 ?'1'5.> 7 '1M 7 ;5.8 >.' ?1.<>1.'4@> 76041.'4@8.7 <-'<7 .<5 -.G / . 78 >.6 ?'66'-'<768 = ' .4,<; .1,<7 5.6 =4'5 7.68 =4' 7 7.68 ?, >68<, / 01.' .7 / .641.'>.6 < '1;<'545 6.6' .7 5.'5 .4 >.'5.41 >.67 <'7 ,< .6 ?'66'-'<76 5 @.1,7 7 .<7,47.6 5.771;6 5.'7. / ?6 <.; .66' 1.'?,41 5.'71'<6?,178 64 -'<7 5" > 67'<;. > ' 5 .4 .7 5" >'7.'>4 Q,41 , 5 56 ' 6.1,<7 >>5 -1>6 8 ;5 5 '6. ,<E <456 '?1.6 .@? 1'7 ,4 >.6 >.5' 6 V ?,17>6 N 5.6> 7 ' ?'66'-'<76 6.1,<7 1.?1.' 6.<7>6 '4@ ; , / / 6 >.6 041.'4@ =4 ' 6.'71,4-.1,<7 641 5" 1,47.8 ?,41 V>71.'- 6.68 .78 " 7,47.6 1.=4 6 7 , '68 '4@ . / ?5,V.6 >.6 > 5 .1.<76 ?,67.68 =4 ' ' A >4 1.' 5. ' / '1; : '<> 6.6 '4 ?546 ?1, .0' < 041.'48 ?.41V >71.'- 6 7..68 6'4E5.6 >,< / 'J.6 <E.1>76 .<-.16 5.' ; ,<>4;7.7 18 6' ; .'041.'4 < .67 ?'6 641 ' 1,47.8 ;7 6 7 V " <'E1'4>.'<'; ,<71'-.<7 ,<

" .6 J1' <6 .7 J1' <.68 5,16=4.'5" 6,17 .'4G.< 6.1" ?'6 ?1, : 0..8 .78 >'<6 7,<6 5.6 ; '68 5,16=4 56 : .' E.1,<7 ?'6 1,47.' -.16 5'E1, 7 .1.I 5.6 0.65 '4@8 5.6 5.J4 / .68 5.6 E14 768 5.'0.411. 8 5.6 ,4E6 .7 7,46 '471.6 ; , / .67 05.68 6.1,<78 >'<6 5.6 / > / .6 ; '68 > 6?.<6.6 >.6 E,1 / '5 7.6 ?1.6;1 7.6 ?'1 .6 >.4@ '17 ;5.6 ?1.; .>.<768 ' .<6.1">.' / > <.'>.6 ,0Q.76 >.'E'01 ; '7 ,<'>.6 : '0M 7'<76 >.6 >.?'17. <.<76 >4 41".7>.' 7 I 5"1.J .'6;' ; ; / ; .17.14 '-.;'5.6> 1.;7, 1.6>. ; .6>.?'17. / .<7664E 5.6 1'.641.6 4. ; .66' 1.6 '?1>-.< 1 5.6 '046 8 6'<6 J><.1' 5" . 1; 5'7 ,<

1 '%! ' ' &F ' ' ' '
' ' ' ' ' (
I

D ' D% .6 >1,J4.1 .6 .7 . ? ; .1 .6 >.'> @ 5 -1;6
?.6 `<78 / / .' 5.]' 7,0';68 ?,411,<7 .<71.1' >'<6 5.'
1,V'4 / .' ?'1' / .1'?'1' 7,?6 5.6 041.'4@ f / ' 6 56<.'
?,<117 <7 .<71.1'?'1'7.11.'=4.'?'1'5.6 041.'4@>.' Q55.8
'5.<; .<<.68 '40.4J.8 ! -.78 5'' #:'?.55.8 : ,< '
- 5 .8 % '1J4.< .68 '11. 8,4 68 0, : J [V88 ' <7 '
,4 68 71'60,4 8 Q,4J<.68 .11 .1.6 >. ,4@8 .V'
1 ,8 .V66.58 ,<7 >; K.'4-, 6 <8 #:'?'1 '<8
K1 '<;,< .7 .?7. / .68 A %

% .6' 7, 5.6 >.' 5 < .7 >.';0'<11.8 05'<;:.6 ,4
; ;14;6f 5.6 0'6 <6 >.'7 58 0,4J1'=6 .7 71. 55 68 5,16=4 56
6;1,<7 >.' ?546 >4 ?, >6 >.' 6,'5 -1.68 <.'?,411,<7 .<'
1.1'=4.' ?'1'5.6 ?,176 >.'K'V,<<.8 K,1>.'4@8 5'' K, %
; : .55.8 '<7.68 ' <7 '5,8 ,4.<8 5.' B>-1.8 '< '
'5.1V 641 , / 1'.' ,4 00.- 55.8 K,45,J<.8 #'5' 68
4< .1=4.8 ,45,<8 '16. 55.8 #.77.8 5'' ,4-.55.'.7
,17 .<>1.f .7 ?'1' 7.11.8 =4.' ?'1'5.6 041.'4@>,'
55.8 '5.<; .<<.68 ! -.78 5'' #:'?.55.88 ,10';5 8
'1J4. / <.68 71'60,41J8 ' <5 ,4 68 ';40;8 .V'
1< .7 #:'?'1 '<8

' % / ?,17'7 ,< >.6 6, E6 .7 E 5,6.55.6 <.' ?,411''
'-, 1'5 .4 =4.' ?'1' 5.6 041.'4@ >.' '<7.68 ,1 ;<78
,4.<8 4< .1=4.8 55.8 71'60,41J8 .V1 <8 ,<7 '
E5. K.'4-, 6 <8 ' <7 '41.<7 >4 '18 '16. 55.8 c''
,4-.55.8 .?7E. / .68 #.77.' .7 ,17 .<>1.%

.6>7,55.6 .7 0,<7,<<.1 .6>.'6,5.' .7 >.' E 5,6.55.8 ,4
>'<6 5'' ; , / ?,6 7 ,<>.6=4.55.6 .<71.<7 ;.6 1''7 .1.688<.Y
?, B ,<7 .J'5. / .<7 .51.' <71,>4 7.6 >'<6 5.'1,V'4 / .'
=4.' ?'1' ' < .'< .> >.' ,178 ,<7 % >. K.'4 8
-, 6 <8 '16. 55.8 #.77.' .7 ,17 .<>1.% 8

% .6 .7,EE.6 .7 0,<<.7.1 .'>.' 5' <.8 >.' ; ,7,< ,<
> 8 ,4 >.' ;.6 / 1E7 .1.6 / .5'<J>.68 5.6 E47' <.6 .7 6 ''
/ , 6.68 <.'6.1,<7 / ?, ;6 ?'1' / ;1'=4.'?'1'K'V,<<.8
K,1>.'4@8 5'' , E; : .55.8 '<7.68 ,1 ;<78 ' <7 '5,8
,4.<8 5.' B -1.8 ' <7 '5.1V 641 , / / .' ,4 00.M
- 55.8 K,45,J<.8 #'5' 68 4< .1=4.8 '16 / 55.8 #.77.8
5'' ,4-.55.f ;7 ?'1' 7.11.8 =4.' ?'1' 5.6 041.'4@ >.'
55.8 5'' #:'?.55.8 71'60,41J%

% .6 7, 5.6 ?; <7.6 ,4 7. <7.6 >.'7,47.' .6?E.;.8 5.6
0'7 67.68 .75 <,<68 5.6< ,466.5 <.68 5.6 7, 5.6 >.' .,7,<
05'<; : .68 <.'?,411,<7 >71.' / ?,17..6 =4.'?'1'5.6 04M
1.'4@ >.' 4< .1=4.8 '5.<; .<<.68 ,4J<.68 .1'
1 .1.6 >. ,4@8 ' <7 ,4 68 .V1< .7 ,47 >.'
K.'4-, 64f .7 6.1,<71.?47. .6 / ,466.5 <.6 5.6 7, 5.6
>.' .,7,<>,<5 5.6 9'4<.68 641'5'' '1J.41'>.'6.?7 :4 '
5 57 / .68 ? 6.1, 7 / , <6 >.' ' -%

% #:'=4.' 0'55.8 ;' 66.' ,48 0'55,7 ; ,<7.<'<7 5.6
,0Q.76 / '<4E';741.68 / .<7 ,<<.6 '4@ 1, 6 '17 ;5.6
?1.;.>.<768 ?,17.1'' 4<.' 46;1 ?E ,< .< 7,47.6 5.771.6
=4 '.< 4> =4.1'' 5 ;6?9; .f 6 5 6.'71,4-' 7 >'<6 4<.'
< .< .'0'55.8 ;' 66.' ,4'0'55,7 >.6 .6?.;.6 > EE.1.<7.68
; : '=4.' .6?.;.'E,1 / .1' 7 4< ?'=4.7 ?'15 ;45 .18 ?,1 '
7'<77 <6;1 ?7 ,< <> ;'7 -.'>.';.77.' .6?5 ;.fE'47.'> <6 '
.1 ?7 ,< 641' 5.6 0'55.68 ;' 66.68 0'55,768 ,4 ?'=4.76
; ,<7.<'<7 ;6> 76 ,0Q.76 / '<4E';741.68 '11 -.6 >'<6
<< ?,17 >4 1,V'4 / .8 =5 ' 71,4-.6 .<71.' >71'<J.1'.7
5.'?1. / .1'041.'4 > .<7E..8 56 6.1,<76,4 / 6 ''5'' ; ,<'
E 6;'7 ,1%

% .6 0,411.68 5'6 5' <.6 8 5.6 ; ,7,<6 .< 5' <.8 5.6
E 5685.6?.'4@.<-.178 5.6 / .7 . 6'E' 1.0% ' .7 '471.6
,4-1'J.68 5,16=4.'5.'>1, 7 >.'6,17 .'=4 56 '410<7 ' ; '
=< 77.' ;@; .1'' '5 -%8 <;' ?,411,<7 >71.' .@?,17>6 ''
' .71'<J.1'=4.' ?'1' 5.6 ?,176 .7 041.'4@ ;<,<;.6 >'< .'
'17 ;5;' GD >4 ?1.6.<7 5 71.%

% .6 5 '1;:'<> 6.68 >,<71.<71>.' .7 5'' 6,17 .'
6,<7 1.671. 5.6 ?'1'5.6 ?,176 .7 041.'4@;'>.66<6 >. '
6 J<>68 .7=4.' ,<7.<7.1' 7> <71,>4 1.' ,4 > .@?,15;1'
?'1'> '471.6 ?'66'J.68 6.1,<7 ;,<5 6=4. .6 '-.;' ' / .<>.'
>.' '5 -1.6I ;.'=4 '<'41'' ;.?.4>'<7 ?'6 5 .4 '' 1.M
J'1>'5 .' ;.55.6 =4 ' '31' .<7 .7.' ?1.6.<7%>. ' >''6 5.6

>,4'<.68 .7>>;5'1>.6 6,46 5.41' ->1 7'< .'>.<, / <'M
7 ,<I >'<6 ;.; P 8 5.6 / '1;0'<> 6;6 / ?,15>.6 6.<7 .<7
1.<-,V..6 E >71'<J.18 .7 ; .55.6 =4.' ,< -=4>1' 7
.@7 [17.1'1.67.1,<7 >'<6 5.'1,V'4 / .8 6'4E''> 1.'.<64 7.%
.@?>> .;6 ?'1'5.6 041.'4@ ,4-.176 ''5''6,17 .%

- ' % +' ' ' ' ' '
' '

17% DGG 047.6 / '1;:'<> 6.6?1,: 0>.6 B .<71>.8
=4.85 ,< <71,>4 1'%?'1' / .1' ,4 ?'1'7.11.8 >'<6 .7.<'
>4.' >4 1,V'4 / .8 6.1,<7 ; ,<E 6=4. .6 ' <6 ' =4 .Q.6
0>7 / .<76 >.' / .18 '4 >.66,46 >.'; <=4'<7.7,<<.'4@8
-, 7<1.68; :.-' @ .7 >=< ?'J.6 6.1-'<7 '< 71'<6?,17I
?1,?1 .7' 1.6 >.6> 7.6 / '1;:'<> 6.68 / ' 71.64.' P '
7 / .<768-, 741 .16.7'471.6 ?1. ?,6.6'' 5'' ; ,<>4 7.8
6.1,<7 6,5 >' 1. / .<7 ; ,<>4 / 4.6 '' ' / .<>.' >.' '
5Y-%8 6'4E 5.41' 1.;,416 ; .<71.' 5.6 / '1;:'<>6 .7 ?1, '
?1 .7' 1.68 5,16=4 56 '<1,<7 .7> <>4 76.< .11.41'?'1'
.<,<E; '5 ,< >.6 5.771.6 >.' -, 741.8; ,<<' 66. / .<76
.7 ; : '17.6 ?'17 .68 .7 5,416 >,7: / 'J.6 .7 <7.1>76I

% .1,<7 1>?47..6 >'<6 5.' ;'6 >.6 > 6?,6 7 ,<6 >.'
1,17 ;5.' ; >.6646 5.6 / '1;:'<> 6.6 ?1,: 0>.6 =<'
6.1,<7?'66..6'4 >.5'' >4 ?E. < .1'041.'48 ,< =4 ' '4 '
1,<7 ?1 6 <<' ; : . / < > 5E.1.<78 ' <6 ' = 5.' ;.55.6 =4.'5.6
?1.?,6>6 >0 5'' 1.J .' '41 <7 71,<1..6 >'<6 5.6 >.4@
5 .4.6 >.6 ; 7.6 641' >.6 057 / .<76 '< >.66,46 >.' 3
7,<<.'4@f ;.55.6.<E < =4 56 '41,<7 -4;:'1J.V''0,1>
>.'7,47.'.6?.;.'>.'0>7 / .<76 >.' / .18 ,4 / .751.' '' 7.11.%

% .6 > 6?,6 7 ,<6 >.6 >.4@ '17 ;5.6 ?1.;.>.<76
6.1,<7 .@..<7. .6 '' >J'1>'>.6 / '1;:'<> 6.6 ?1, :50>.6
''5''' ,17 ;8 .7 5.6> 7.6 / '1;:'<> 6.6 <.'?,411,<7 >71.'
71'1 6?,17..6 > 4< ?,17 >4 1,V'4 / .'' 4< '471.'?,17 7 <
1,V'<Q'.8 < '?'66.1'> 4< 5 .4 '' 4< '471.8 .< . / ?14< '
7'47 5.' 7.11 7, 1.' .71'<J.18 6'<6 71.' '; ; , / ?'J<..6
> 4< ';=4 7 ''; '47 ,<8 .7 5.6; ,<>4;7.416 > > 7.6 W '1 '
; : '<> 6.6 6.1,<7 7.<46 >. .1'?5 1'5.6 E,1 / '5 7.6 ?1.6 '
;1 7.6 ?'1'5,'7 71.' B '>< ?1.6.<7 >. .1.7%

% .6 / '1;:'<> 6.6 ?1, : 0..6 ' .<71..' ,4 ' 5''
6,17 .8 =4 ' '41,<7 .7>'>.;5'1.;6 6,<6 5.41'?1,?1.'>.<,1'
/ <'7 ,<8<Y6.1,1 7?, <56' 6 .6I ;.55.6>.67 <E. ' / '
?,17'5 ,< 6.1,<7 1.<-,V>.6%'' .71'<J.18 ; .55.6 >,<7
,< >. / '<>.1' 7 5''6,17 . 1.67.1,<7 >'<6 5.'1,V'4 / .%

- ' ! % ' & ' ' 2 !

17% DD% .6 ;'?74 <.6 .7 / '571.6 >.6 <'- .68
0'1=4.6 .7 '471.6 0>7 <.<76 =4 ' '41,<7 E 5.' E,1;.6 >.'
1.5 ; : .1'?'1'E,174<.'>.' / .18 ?,4164 7.'> . <. / 6 .7
'471.6 ;'6E,17 76 8 6.1,<7 7.<468 >'<6 5.6 CU : .41.6 >.'
5.41' '0,1>8 >.'Q467 E .18 ?'1'<< 1'??,178 >.6 ;'46.6 >,'
5'' 1.5 ; : .8 .7 >.'6.';,<E,1 / .1' '' ;.' =4 ' ;67 ?1.6,1 7
?'1' '17 ;5.' '>< 7 71.' '>4 ?1.6.<7 >. ;1.78 6,46 5.6
?. <.6 V ?,1 .;6%))

8 '5.6 <'- 1.6 .< 1.5>; : .E01;>.' ,<7 : .6, <> > 1.
1'>,<0.68 ,4 >.=<;5=4;6 6,17.6 >.'1.?'1'7 ,<6 =4 '
.@ J.<7 5.' >>0'1=4 / .<7 >.6 / '1;:'<> 6.68 > .6 <.'
6.1,<7 64Q.77.6 '' '4; / '>1, 78 6 <,< >'<6 5.' ;'6 , : '5.'
; '?7' <.'6.1' 7 ,05 J.'>.'-.<>1.'?'17 .>.6,< ; : ' J. '
< .<78 '<6 5.6 '<71.6;'68 5.6> 7.6 / '1;:'<> 6.6 6.1,<7
1' 6.6 .< >.?>7 '<@E1' 6 >.6 ; '? 7' <.6 ,4 : '771.6 >;6
0>7 / .<76 86 ,46 5.41' ;5.E'.7 6,46 ;.55.'>4 ?1.?,%6>>.'5''
1 J .8 Q46=< '4 >.?'17 >.6> 76 <'- 1.6% .6> 56 ;'? 8
7' <.6 ,4 / '571.6 >.' 0>7 / .<76 ?,411,<7 < / .'5.6
E' 1.' ; : '1J.1'>.'0,1> ''0,1> 641' > '471.6 <'- 1.68 .<
?1.<'<7 5.'?.1 / 6 >.6 ?1.?,6.6 >.'5'' 1e .8 '?1.6'-, 1'
>.;5'1.'5.6=4'5 7.6 .7=4 '<7 7V >.';.55.6 >,<7 56 -,<'
>1' .<7 E' 1.' ' <6 ' 5.' ; : '1J. / .<7%

% .6 / '1;:'<> 6.6 ;7'<7 ' 0,1>'>.6 <'- 1.6 >,<7
5'1.5 ; : .6.1'' -'5'05; / .<7 467 E >.6.1,<78 '?1E.6 5''
>.;5'1'7 ,<8 >.;:'1J. .6 .7 / 6.6 6,46 5'' ;5.E >.6 ?1. '
?06>6 >.'5'' 1>J .8 '<@E1' 6 >.6 ; '? 7' <.6 .7 / 'E71.6
>.6 0>7 1'.<768 Q46=4 '4 / , / .<7 >.'5.41'>.?'17 ?,41'
>71'<J.18 '>.E'47 >.' >. ;5'1'7 ,<8 >'<6 5.6 - 4J7

[illegible]

W:71.'5.6' / ' < `` >4' ?1 ?,6>' "P" ?.1;.?7 ,<8 . <<' ' 7 ,< ?1 '5'O5. / .<7 E' 7.N .< ;,<6.=4.<;.' 5 EE1.' >.' " 1. / 6.'1 4@> 7.6;,<> 7 ,<66.1"E' 7.'?'1'5.6> 76?1, ' ;.6 -,10'4@I .7 .< ;'6 >.' 1.E46 >.'5" ?'17 >.6 < '1' ;:'<>68 / '771.6 >.'0 7 / .<76 .7 - , 741 .168 5 6.1'8 " 5" > 5 J.<;.' >4> 7 ?1.?,6> >.' 5" 1>J .8 ?1,;>>.' ' 5" -.<7.8 .< -.154 >.'5" ?.1 / 66 ,< >.' 4< >.6,E5 ; .16 >4'71 04<'5 >.' > 671 ;78 5'=4.55.' 6.1" 6 J< E . .8 ' 6' =4 5 .67 1>J5> ?,41'5.6 ?1,;.6 -.10'4@ ?'1'5.6 '1M 7 ;5.6 " 8 " ' .7" ' >4'?1>6.<7 5 71.I 5.6> 7.6 ,5E1.6 .7 1. / 6.6<.?,41?,<7'- , 1'5 .4 =4'<7'4@ ,0Q.76?1, ' : 0>6 " .<71. .%

" % 0 '66 J<'7 ,< 6.1" >,<<>.' " . , / ?'1'571.'5.' ;<>; / ' <8 6' 5.'71 04<'5 .67 >7'05'>'<6 5.'5 .4'>.'5" 1;>';7 ,< >4 ?1, ,.6 -.10'5I 5.' 6415.<>. <' <8 6' 5.' 1 04<=5 .67 >'<6 5" > 67'<;.'U.'; <= 5 .4.6I .7 6 0;67 5, J<.'>.'?546 >;' ; <= 5 .<.68 5.'>>5' '6.1" ?1,5,<J.' 4< Q,41'?'? ; <= 5 .4.6%

" % .' 1,;;6 -.10'5 6.1" 'E5 1 / .' -.1 7'05.'>.' 1'<7 44 >.6 Q4J.6 >4'71 04<'5 >.' > 671 ;78 ,4 .< 6,< '06.<;.'>.-'<7 4< >.6 '471.6Q4J.6 >4 2 '71 04M <'58 >'<6 5.6 - <J7 = '71.' : .41.68 " ;,% / ?7.1'>.';.55.' " 5'=4.55.' 5' 1" >.' ;5,6I ?,411,<7 '466'5.6?1,;.6 ' 1.10'4@'>71;' 'BQ1 / >6 >.-'<7 5.6 Q4J.6 >.'?' @8 .78 " 5.E'478 >.-'<7 5.' / '1.',4 4< >.6 ,E5Q; .16 / 4< ; ' ''4@>.6 - 55.68 0,41J6 .7 ;, / / 4<'45.68 " ,1>1.'>.' " 5 67.I 5 .67 ,<Q, <7 '4@> 76Q4J.68 / ' 1.86.7 ,E5 ; .16 <4< ; ?'4@'>.'1.;.-, 1'5.6 'EE 1 / '7 ,<6 " <67'<7 .7 54'5 .4 , 5 5.6 ?1,;E.6 -.10'4@ 5.41'6.1,<7 ?1.6.<7.68 ' ?. <.'>.'1.?,<>1.'.< 5.41'?1,?1.' .7 ?1 ->'<, / ' >.6 ,<>'7<<'7 ,<6 J4 '?,411' .<7 .< 1>6457.1%641'5.?1, ' >6 -.10'5 >.'1.E46 =4 '6.1" 1.> J> ?'1'5.6 ?1.?,6.6%

" "% -'<7 >.'1.;.-, 1' 'EE 1 / '7 ,<8 5.'Q4J.' ,4 ,EE ; .1'>,<<.1" 5.;741.' >4'?1,;.6 -.10'5 '4@'?1>' P,6.6 >.'5" 1>J .I 5 6 J<.16 '-.;' .4@ ';7.' > 'EE 1' <'7 ,< =4 '6.1" <6;1 7 " 5" 64 7.'>4'?1,;.6 -.10'5%

" "% ,16=4;'5.6 6' 6 .6 6.1,<7 E 7.6 ?'1'5.6 J'1>.6 <'7 ,<' .68 71,4?.6 >.' 5 J<.' ,4 J.<>'1 / .1 .' '7 , ' <'5.8 6'<6 5.';,<;,416 >.6 ?1.?,6.6 >.'5" 1.J .8 5.6 / '1;<'<> 6.6 6.1,<7 71'<6?,17>.6 '< ?546 ?1,;:' < 041.'48 ,4 5 .< 6.1" E' 7>.6;1 ?7 ,< ?'1'5.6 ?1>?,6>6 >4> 7 041.'4I .7 ;.4@ =4 ' %541,<7 ?1,;.>.' " " 6' 6 .' 6.'1.<>1,<7 >.-'<7 4< >.6 Q4J.6 >4'71 04<'5 >.' > 6M 71 ;7 '-.;' 5" ?'17 .'6' 6 .8 ,4 .55.' <7.1?.55..I 56 >.' / '?>.1,<7 '4> 7 Q4J.';7.'>.'5.41'1'??,178 =4 ' 6.1" 1.> J> ?'154 ' ,4 ?'1'5.' J1.EE .1>4'71 04<'58 .7 .<64 7.' 'EE 1 / > ?'1'5.6 6' 6 66'<76I " >.E'47 >.'71 04<'5 >.' > 6M 71 ;7 >'<65.'5 .48 5.'1'??,17 .7 'EE 1 / '7 ,< 6.'E.1,<7 >.-'<7 5.'Q4J.' >.'?' @8 ,48 " >. E'478 >.-'<7 4< >.6 ,EE ; .16 / 4< ; ?'4@'>4> 7 5 .48 " ,1>1.'>.'5" 5 67.%

" " % ,16=4;'5" ?1,;>>41.' ;1 / <.55.'>.-1" '- , 1 5 .48 5 <.'6.1" ?'6 >,<<.' '66 J<'7 ,< 641'5.' ?1,;.6 ' -.10'58 1<' 6 5.'>>?>7 .< 6.1" E' 7 >'<6 5.6 71, 6 Q,416 >.' 5" 1.>';7 ,<8 .E 56.1" ?'V> '4 J1.EE .1 > @6,46 ?,41';:'=4.' >.?>E%

" " % .6 ?1,.>6 -.10'4@'1>> J>6 ?'1'5.6 ?1.?,6>6 >.'5" 1.J .'?.'6.1,<7 ?, <7 6,4 / 6 " 5" E,1 / '5 7> >.' .<1;J 671. / .<7% .6 1'??,176 ! ' >.-'<7 5.6Q4J.6 .7 7E ; .16 / 4< ; ?'4@ V 6.1,<7 ?'1. 55. / .<7 '664' Q.77 68 6'<6 =4.' ;.77.'7,1 / '5 7.' ?4 66.' >71.' .@ J.. ' ?,41'5.6 ';7.6 >.6> 76 ?1,.>6 -.10'4@%

' " " % .6 ?1.?,6.6 >.'5" 1.J .'<.' 6.1,<7 6,4 / 68 ?,41'5" 1.>';7 ,< >.'5.416 ?1,;.6 -.10=4@8 " > '471.6 E,1 / '5 7>6 =4 " ;.55.6 ; >.6646 ?1.6;1 7.6I .55.6 6.1,<7 ,06.1-. .6 " ?. <.'>.' <455 7> >.6 ?1,.E.6 -.10'4@ .7 $>.6 6' 6 .6% '<6 5.';'6 <.'< / , <6 ,< (" / '1;:'<' > 6.6 6.1' .<7 >'<6 5" ;5'66.'>.' ;.55.6 ?1, : 0 .6 ' ;<71>.% 5" ;,<E 6;'7 ,< .<6.1" ?,4164 - .' " 5" 1.M =4 7.'>4';, / / 66, 1.'>4'1, 8 / ' 6 6'<6 =4 5 ?4 66.' .71.'?1,<,<.> > ' / .<>.%

" " % #.' =4 ' " ' ,1>,<<> ?,41'5.6 ?1,;.6 V;1' O'4@ >.'6' 6 .' Q.1" .@>;4E> ?,41'7,<6 5.6 '471.6 <1,

;.6 -.10'4@ >.6 ?1>?,6>6 >.'5" 1.J .8 6,<6 5.6 / / .6 ?. <.6%

" " % .6 ?1,;.6 -. '<@'1>> J>6 .7 6QJ<>6?'1'>.4@ >.6> 76 ?-.?,6.6 .E?'1' .4@ 'EE 1 / .6 -.1 7'05.6I 5.6 1'??,176 E' 56 >.-'<7 5.6Q4J.6.7 ,EE ; .16 / 4< ; ?'4@8 ?'1' >.4@ ; , / <.6 >.' J'1>.6 <'7 ,<' .68 71,4?.6 >.' 5 J<.' ,4 J.<>'1 / .1 .' <'7 ,<87 .8 6<E5 1,<7 ?,41'5" ?1.4-.'>.'5" E1'4>.' ,4 >.'5" ; ,<71' -.<7 ,<8 6'4E ;.55.' >4 E'4@>.6> 76 ?1,.>6 -.10'4@ .7 1'??,176%8

- 'M ' &' ' ' ' ' '! ' ' '
D' ') % ' $

17% 5.1% .6 71 04<'4@ >.' > 671 ;c 6.1,<7 6.456 ;, / ?>7.<76 ?,41';,<<' 71.'>.6 E1'4>.6 .7 ;,<71'-.<M 7 ,<6 '4@>1, 76 >.'>,4'<.6 <'7 ,<' .6 ' .7 >.'7,47 ;.' =4 '?.<7 V '- , 1'1'??,17%

% .6 Q4J.6 >.6> 76 71 04<'4@ .7 5. 16 J1.EE .16 <.' ?,411,<7 ;.?.<>'47 .@?. > .1'>.6 ';=4 76 >.'?' . / .<7 ,4 " ;'47 ,<8 & '?'66'-'<768'1.;.?7 ,<6 ,4 >. ' ;:'1J.6 >.'6,4 / 66 ,<68 <' 1.<>1D '4;44 Q4J. / .47 ?,41'7.< 1'5 .4 >.6;5 7.6 .@?.> 7 ,46I / ' 68 .< .'6 >.' > EE ;457;6 .<71.'5.6 / '1;:'<>6 .7 - , 741 .16 .7 5.6% ?1.?,6. 6 >.'5" 1.J .8 5.6 Q4J.6 1>J5.1,<7 5.6 >,E<' / 'J.6 .7 <7.1576'=4.'5.6> 76 / '1;:'<>6 ,4 - , 741 .16 ?,411' .<7 ?1.7.<>1.' "1' 6,< >4'1.E46 =4 56 ,41' .<7 .?1,4-.'>.'5" ?'17 >.6> 76 ?1.?,6.6 >.'5.41'>;5 -1;1' 5.6 ';=4 76 >.'?' . / .<7 ,4 " ;'47 ,<8 ;,<J.6 ,4 ?'6M 6'-'<76%

8 .6 ';7 ,<6 ; - .6 1.5'7 - .6 " 5" ?.1;.?7 ,< >.6 >1, 76 >.' >,4'<.6 6.1,<7 <6714 7.6 .7 Q4J.;6 >'<6 5" E,1 / .' ?1.6;1 7.' ?'1' '17 ;5.' ' >4 071.' " ' >4 >.;1.7 >4 (6.?7. / 01.' >.1< .1I .7 ,< 6.' ;, E,1' / .1" ?,41';.55.6 ;,<;.1<'<7 7,46 '471.6 ,0Q.76 =4.' 5" ?.1;.?7 ,< >.6 >1, 768 .7 <,7' / < .<7 5.6 6' 6 .68 ' <6 =4.'?, 1' J6 ?1,;.>41.6 .@71',1> <' 1;68 " ;.' =4 ' .67 ,4 6.1" ?1.6;1 7 ?'1' 5.6 5, 6 J.1 .1'5.6 >4 1,V'4 .%

' " % + ' ' & ' ' ' '

17% 5. % " ;,<E 6;'7 ,< >.6 / '1;:'<> 6;6 6' 6 .6 ?,411" 5 1.'?,4164 - .' .7 ?1,<,<.>.' ;,<71.'5.6 ?1. ' ?,6.6 " 5.41';,<>4 7.8 6'<6 =4.'5" W. J ;'6, 5 7.<4.'>.' / .771.' .<';'46.'5.6 ?1,?1 .7' 1.68 =4' > / / .' 56 54' 6.1' .<7 <> =4 68 6'4E8 6' 5.6> 76 ?1,?1 .7' 1.6 <7.1' -.<' .<7 ,4 .7' .<7 '??.5.6 ?'1';.4@ 641'5.6=4.56 5.6 6' 6 .6 'QQ1' .<7 .75 E'>.68 " 5 1.'67'74 8 ' <6 =4.'>.' >1, 78 641'5.416 <7.1-.<7 ,<6 .7 1.;5' / '7 ,<6%

% ' <.'?,411" 5 1.'>,<<' / ' <55- .'>.6 / '1' ;:'<> 6.6 6' 6 .6 =4 .< Q4J.'<7 >. < 7 -. / .<78W6';.' <.67 '4;'6 >.'H'17 ;5.' " ' >4'7 71.' " >4'?1.6.<7 >.' ; e78 .7 '4@ ;,<> 7 ,<6 .7 .@;.?7 ,<6 V .<,<;. .6I .' 7,47" ?. <.'>.'<455 7.'>.6Q4J. / .<76 .7 >.6>, / / 'J.6 .7 <7.1556 >.'5" 1.J .%

% .6;,<>' / <'7 ,<6;,<71.'?5 6 .416 ?.16,<<.68 ?,41'4< / / .'E' 7 >.'E1'4>.8 6.1,<7 6,5 > ' 1.68 7' 78 ?,41'5" 1.67 747 ,< >4 ?1 @ >.6 / '1;:'<> 6;6 ;,<5 6 ' =45.68 >,<7 5" 1. / 6.'?1,- 6, 1.'41' 7 7.'E' 7.8 =4,' ?,41' ' / .<>.' .7 5.6 >.?.<6%

% .6 Q4J.6 <.'?,411,<78 2 ?. <.'> .< 1>?,<>1.'8 .< 5.41'?1,?1.' .7 ?1 -.'<, / 8 <,>51.'1'5.6 ;,<E 6;'M 7 ,<6 .7 ' / .<>.68 <' .< ,1>,<<.1' . / ?5, ' '4 ?1.Q4M > ;.' >.'5" 1. J .8 =4 '<.'?,411" 71'<6 J.1'641'5.6 ;,<M E 6;'7 ,<6 .7 ' / .<>.68 5,16=4 .55.6 '41,<7 7.' ?1. ' <,<;..6 ?'14<Q'J. / .<7 .< >.1< .1'1.66,178 ,4 'V'<7 ';=4 6 E,1;.'>.';:,6.'Q4J. .%

.6 ,0Q.76 6' 6 6 ?,41'E1'4>.' ,4 ;,<71'-.<7 ,<8 .4 ;,<E 6=4.68 <.'?,411,<7 5 1.'1.-.<> =4. 6 ?'1'5.6 ?1,G ?1 57' 1.68 <'5.'?1 @8 6, 5 =4 >'6, 5 ;,<6 J<S ,4 <,<8 1 ;5' / '?'1' ;4<6 >.6 ;1.'<; .168 / / .'?1 - 5.J .68 6'4E 5.41'1.;,416 ;,<71.'5.6 '47.416 >.'5" E1'4>.%

% K41.'4@>. 46 'E' 75.;741.'>.6 7'76>.'5">.?.<6.

'.' ' '<J / . 4' ,<' '.6 1,6 ?.6' '.' J<.8 ,.' .< '
71.7 ;<' >.6 - ,5,<7' 1.6 <'7 ,<'4@ '?1.6.<7.8 '<
<, / ' >' ' ;, / 7. / B7' 1.Q W/ ?1,Q.7 >.'> ;1.7 =4 ' .67
'>,?7.' .< ;.6 7.1 / .6N

66. / 05V 77'7 ,<'5.8 67 ' E.'1'??,17 >;'60< ;, ' 7J
/ 5 7' 1#8 > ` 1E.7.;.'=4 ' 4 71'

17 "WVd '? ' .@.;47 ,< >.6 .;1.76 >. 6C5 Q4 <8 ' .7
C ' Q4 55.7 (* 8 .7 ;,<E,1 / . / .:7 ' 5" >. / '<>.' >.'
E,,>6 E' 7.?'1' ' / < 571.'> 5" J4.11.I 5.' 'Q 55.7
>.1< .18 >,<7 .6 ,0Q.76 6,<7 6?.;E .6 7'47 >'<6 #7'7
J. <>1'5 =4. >'<6 5.6 7'05.'4@ ?'17 ;45 .16 E,41< 6 ?'1'
5.> 7 / < 671V8 5 6.1" -.16.' 6'<6 >.5' 8 ?'1'5" ;' 66.'
8>,' .@71' ,1> <' 1.8 "5" 71 ` ,1.1 .'<'7 ,<'5.8?,41 #71.8
. / ?5,V>.' '4@ >.?.<6.6 >.' 5" J4.11.8 ,<.'6, / / .'>.'
98)8 *9 5 - ?,41 .7 .' .1<?1,V>> ; / / . 5 6.1> > 7
; '?1E.6I 6'-, 18 SGG C8C)8 *9 5 - ?,41 E1' 6 > .<1> '
5. / .<76 ' > :'0 55. / .7 76 8 > .=4 ?.<.< ' .E> '1 / . '
/ .<5 >.' UU 8CUC :, / / .6 8 7 :7 > 7 E'<7.1 .'=4.' >.'
71,4?.6 ' ' ;:.-'5 .7 > '17 55.1 .I >.67 <.6 " ?,17.1 '4'
;, / ?5.7 >.' J4.11.'('1.J / .<76 > <E'<7.1 .'>.'5 J>;I
C 0'7' 55,<6 > <E.<7.1 .' 5.J.1.8 C 1.J / .<76 >.' ;' '
7'0 < .16 8 9 >. #'-'5.1 .8 U >.'>1'J,<6 8 '>.' :46 '
6'1>6 8 (>.';0'66.416 I .7 5.6 (1.J / .<76 > '17 55.1 .'5.'
6.1,<7 ;,<E,1 / > / .<7 '<'7'05.'4 7D 'I OD 4<.'6, / <.'
>.' ' / 55 ,<6 8 >.67 <>.' " ;, / ?5>7.1 5.6 '??1,- 6 ,< '
<. / .<76 >.' ?1. / E.1.'<.;.66 7.'?,41 5.6 :>? 7'4@ ' / '
045'<76 >.' 71, 6 '1 / >.6 8 >.?4 6 4< .1=4.' Q46= "
J.E,178 ;,<E,1 / > / .<7 '47'05.'4<DUI D 4<.6, / / .'
>.' U / 55 ,<6 " ;, / ?7.'>.6 71'-'4" 1>,<<>6 8 ,4 =4 '
5.'6.1,<7 ?,41 / .771.'5.6 E1,<7 >1.6 .< >7'7 >.'>.E.<6.8
;,<E,1 / > / .<7 " '17 ;5.' '>.' .7'7 J.<.1'5

#:'=4.' S5N, 6 8 " #, / ?7.1 > ' W7 Q4 55.7 (* 8
5 6.1" -.16.'?'1'5" ;' 66.'>.' .@71' ,1> <' 1.' "5" 71. '
6,1;1 .'<'7 ,<'5.I ?,41 5.6 >.?.<6.6 >.' 5" J4.11.8
4:.' , / / .'>.' 8C 8U * 5 -8 ' 6 '> ?,41 6=5>.' .7
/ '66.'>.6 ;, / / .6 .7 >.6 ;:.-'4@ > '4J / .<7'7 ,<
/ .<7 ,<<.' .< '17 ;5.'?1>;>>.<7 8.7 ?,41 .71.'?'V>.I
6'-, 18 5.6 / '66.6 '4 ;, / ?5.7 >.6 ;,1?6 8 .7 5" 6,5>;'
" 1.EE.;7 E >.6 1.;14.6 8 ;,<E,1 / > / .<7 '4'7'05.'4 4DC
B #:'=4.' / , 6 8 ' ;, / ?7.1 >4 5 D1 ' ,>7 (* 8 5
>.1" E,41<'?'1'5" ;' 66.'>.' .@71' ,1> <' 1.' "5" 71.6, '
1.1 .'<'7 ,<'5.8 ?,41 5.6 >.?.<6.6 >.'5" J4.11.8 4<.'
6, / / .'>.' 8 '5 - ?,41 0-. 51 ' " E ' '>.'
5,V.18 <,411 741 .7 >.?.<6.6 ';;.66, 1.6 >.'C ';:.M
-'4@ > '4J / .17'7 ,< >'<65 .'4 ?'J.'> '17 55.1 .8 ?,41
>71# 5.6> 76 E1' 6 ?'V>6 > '?1.6 .<>;7 E >.6 1.;14#6 8
V ;, / ?1 6 5.6 'Q,416 >.'6,5>.'?'1' ;:.-'5 " ';;,1 '
>.1 ;< E,1 / .'>.' J1'7 E ;'7 ,<8 64 -'<7 5.' / [;:.'>.6
.<71.?1.<.416 8 ;,<E,1 / > / .<7 74 7'05.'4 <D

" ;' 66.'>.' .@71' ,1> <' 1.'E,41< 1" "5" 71> '
6,E.1 .'<'7 ,<'5.'?,47 5.6 >>?#<6# '>.'5" J4.11.8 647
5" >. / '<>.'>4 / < 671.'>.' ;.'>.?'17.1' .<78 5.6 E,1V56
<.;.66' 1.6 ?,41 5" 6,5>.' .7 5.6 >.?.<6.6 ';;.66= 1.6
>.6 J'7>.6 <'7 ,<'5;6 1'66# / 05>.6 8 .< -;174 >4 >>;1.7
>4 C ' Q4 < (* 8 .7 ;.8 Q46=4 '85" ;,<;411.<;.' >.
8C 8 ' 5 - ?'1' / , 6I 5'> 7.'6, / / .'>7'<7 5" >> '
?;<6.'>.')' 0'7' 55,<6 8 E,1 / '<7 *98) 'J'1>.6 <'M
7 ,<'4@8 ;,<E,1 / .1'.<7 '4'7'05.'4 <W 8
" ? >;.' <7 745>.' @ '& ' ! ' A'
0 ' ! ! ' ' ' ' '&
' ' ' ' ' 0 ' ' '
' ' ' ' ' ' ' 'C '
' (* 8 ' <6 ' = .'5.6 7'05.'4@ =4 ' .< E,<7 5.'>> '
-.5,??. / .<78 7,46 6 J<.6 .7 '>1. 6>6 ?'1'5.' / < 671.'
'4 ;, / 7> / 5 7' 1.8 ?,41 >71.'?'1'54 '6,4 / 6 7 6
6. / 05. .' <'7 ,<'5.8 ' <6 =4.'5" 5.771.' / 66 -. =4 'V
>7' 7Q, <7.8 1.67.1,<7 '<<;@>6 '4 ?1,;.6 -.10'5
' ' ' .'>. / '<>.' =4.' 66. / 05>.' ?1.<<.'
>.6 / .641.6 ?,41 =4.'5.' ;, / 7> / ,<>7' 1.'E < 66.'6.6
?1;6=7 .' <7.1 / <'<5.'G 71'-'4@I Q.'>. / '<>.' =4 5
6, 7 .:'1J> >.'<,46 ? >6.<5.1 >.<5' <'5.' / ,>.'> .@> '
.47 ,< >.' -,71.' >>#1.7 641 5" E,<7.'>.6 ;5,;:.6 .<
< .67 ?546 ?1.66'<7Q .7Q <-,=4.'5.6 64EE1'W.6 >.'7,46

5. '0 `1 ; 7>V>:6 I 1 .< ' .6 '?E ?7>66':7=4.>> 77'Y
V' 55.1'" 7 ,<6 >>7,<1 .1 > '?1>; ?;.'?E' " ;,'5 7 ,<
>.6 E <'<; .16 .7 >.6 .<<. / 6 >.'5" 1.-,547 ,< -.<7
<,46Q.7.1

4 2 ' ' .@>; 7 ,< >.' -,6 >>#1.56 : ;67 ?'6
>4 ;66,17 >.' -,71.;, / 5>8 / ' 6 0 .< >4 / < 651.Q 4
5 .4 >.' 1.<-,V.1 '4 ;, / 7>8 5 .67 0 .< ?546 ;,417
> '??.5.1 5.' / < 671.'>'<6 66. / 05..8 ?, E =4 5
1.<>.';, / ?7.'>.' .7'7 ,4 .< 6,<7 5.6 ;:,6.6

+' #.1<,<'E' 7 5.;741.'> 4< ?1,Q.7 >. >>;1.7 =4 '
?,17.'=4.'5" > 671 047 ,< >.' / ,<<' .' .< .6?.;.6 >.';4 '
-1.8 .7 >.;.55.=4 ?1,- .<>1" >.5" E?<7.'>.6 ;5,;:.6 8
6.1" E' 7.'?'1'5.6 :97.56 >.6 / ,<<' .6 .<71.'5.6 >.?'1'
7. / .<76 > =4>6 ?,41 ;:';4< >.' ;.6 :,7.56 8 .7>'<6
5" ?1,?,17 ,< =4 ' 6.1" 7>J5>.'?'1' >7'7 =4 '6.1" ?1>G
6.1 7>I $

66>: 05>.1.:-, .'5.6 ?1,?,6 7 ,<6 >.' #>E:,<
.7 .15 <'4 #, / 7> >.6 / 4: ' .6 8 ?,47 .< E' 1.' . '
/ ' '5.'1'??,17

6>'<;. .67 E.->? ' >. @:.:7.6

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!

8 ' -('A(+*!f$,($*' + .8 4. -$3+,(*.' - ' . $' -$$
-('FI'-(' +3+- $('#.+*T+$'(' ' + .$ +" ('WG *$*'BHFI7
-(4 ,('-(' . **(/ 8((,3 /+ 2 ,+,+! * .- 2 -('$HET"
'A+)$* ' -$,(.'-(' +'3 (3,$ *'- "4 $,.#,$," -(' $$"
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4 .,.+$,'$ (,('(*,.(4.$'('"('3 *,$* (' +0(3' ,(' .+3 0$,-'
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6+5 (,+ -. ' '('0(*-'WI'' $$'$
-('6 $,'4 .,.+$,'7 F ,027 36+5 (' . $*('-('WII' $+0,,.(' '
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+ .87 WF' '7 ('+ ,.("M I'' -'

3-2'5 $)$$,'')$ 3.$#$$ +*,' ('$-' ',$(' $6 $'/4)$' ')-'
(3,$ U$, ,+ (/+ $,,'B'.($*$' '- '5 +.,/ $+,$'?? .'3('5 $ ';
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*(' ' (,,.(' +'34 *,3+,$ 2$ -(+'4(*' ("5 + 4 *$ $$
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,$5*('/ 4 4* +$.(" (,'6 , ((" -(' (4$.(' #.+* $'7 4+.'
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- '6) ,$' .$ 'B F ' *'/ ' +.$'/ 6(U -$ (.
'A+35 (+.,7 +,') .(+ ' -(' + ..('4 *-+*3(' 9.+, $,('
*+,$ *+ ('#.+***+$')/ . (' +$*) +.,$*7 *DWXI7 3)((' ' +.'
*(.87).+$.(/. (.4($$,(/ WH? (,'3)((' 'O 8(,= $).+$.(
5*+$ (,'4.(" (" 9 ',$*''

V ' -+*'6 $('-(' $'2' .$ 3-*($ +,(+.'-(' +
,) $ 9$('(,'- '4+,0$,$',*(' .$2/ '' '

V : ' -(' ' -0(5 ('-(' $', $('(,' .+, ' + 2'5 ('=
,$ *"5 $ $ *,' 4. 4 ' (".(,$0((6,' ' (,+,'+3,$$('-('
(9 $'('-('$ +*3(' .$ / G' '

V G ' -(' ' ('3 .('-('DDD'$' ' ('3 .-'-('DDD
' ,' $*,. '$ *'4.$,(*- 3 -("4+',(,$."3)$,', , ,$ $$*(" ' .$2/
G' '

] ' ',6 , 9$5 (/' ,' +44.)+,$ *' &,' +' .$-$3 *'
-(" *#(''(.'/2 + ,(.'+* * *('-(")'(.0+,$ *# ' .' +'
,6(9$(-(' 8 *' .$ I'BW' '

V : ' - ' -$R,Z . -'- A ' 4($$ ('

0QQL*3" #,'B&" 0 (" -% (*$+9*('(,' (" "3 3(" - ' 4+4('+' +*$5)'3$ \' 9*, /'+.(3' ,,*' .(3 ($' -&" 4.$*3$4+ (+'4$>(" . . +,$0&" G'3('-$#$- .$$-/' .+- $,(" -(' + (+*-/ -(' $,+ $(*/' *' - ' +,$* ' . /'$'$0' '' /'(,' ' $0' BG+ /'#.+*3' -('4 .,

!!' ' F \&('.G(*3$$G('+.(3' ('4+,.$,$' (/' ' ' , $- 9$5*('9*.' % .9*('-(' +'4* ''+*3('. 8+ (7 P 0 (" $*!BP7'4.$'/'P #0 /'(,'F ,0 /'#n.+*3-('4 .,'4 .' ,'('. 8+ (

' (& ' -*' '(. (*,'3$0$5*(' ' $#$$('-(..(.'7' +((*-3' $,$ *7'4.$2/' ' /'(,' ' $0' '' /'#.+*3' -('4 .,

("H *0.+9("F('0(*-(*,'F +.$'/36(U' ' (3 (.3/' $).+$.(/' *D' PXF/' (,'36(U' ' . * /' $).+$.(/' 5 +$' -(" *9+',$*'/' *JPT

V'8 9 ' - ' - . $,'#,+* +$" \' *'+9('-(" 9(" -('4+$2/' *').-9$' -(" 4.$*3$4+ (" .(9$(" -(' - . $,' (,' -(' .$'4. 1 -(*3(/'+44 $3+) (" +52' +##+$.(" ('4$4" (* ((*,' ' *!' $'("F +' -(3$'$ *' -(" 9(" -('4+$2/' #+$'+*,' ('GD'3+6$(.'-*' 3 -('-('+'A ',$3('-('4+$27'). 36 .('-('BII'4+9('7'4.$2/'WI'f' (',. 0('F +.$'/'36(U' + ,(./'4 +3(' + 46$*(/'*D'

*'8',. * ('+*''$/' .--$9-'4+.' (' (('+ ,(./' ('F ' -(' +'9(*-+. (.$('*+,$ *+ (/'3 *,(*+*,' (*'( ) ('-(" - !' 3.(," .(+,$#"F B .9+*$'+,$ */'+*2'# *3,$ *"('F +'-$'3$4 $*(' -(' +'9(*-+. (.$('*+,$ *+ (/'(,'+ ,.("5 $'$ 4 .,(' ('4 " +,,2' ( ).("-('3('3 .4"-(')$(*'3 **+$,.(/'+0(3' **('$*'1 ,. 3,$ *'4.+,$5 (''*.' (2(3*,$ *' -('3(" - 3.(,"(,' +'# . *$(' -(', *" ("+3,("5 $'4(0(*,'(,.('F .(-$9(.'(*'3 *'(5 (*3(7 0 ('4(,$,'# . +,'$*!BE'-('4.("-('PI '4+9('7'4.$2/'PG' ' "), 3#+-

V'G ' -(#$*$,$0(" (' ,$0-(" 4. * *3G("+' +*!' -$(*3('4) $5 ('-(" .(5 $,(" -(' 6 ,(/' ("BG'(,'BH* 0(!').('BHTI/'4+.' ' ()+*3! (0((*$'/'4. 3 .(.'9-*-.+/' -+*" +6.('-(' ' $', *' ' +.$'/' -('.$ 4.$$*(.$('-(' '## !@'@8 ,,/'. (' $9* *! +$*,(*-.-!-('! .3'/

') ' '4(.4-,*('(,'6$'# .$5 (/'3 *,(*+*,' **('$*',. 3,$ *' .+$' **-(' ' % *',. 0(' %(24 $3+,$ *' -(" -$##(.(*,(" -,) -("5 $'(.03*,'F$*-$5 (.'4(.4-, (((*,' +'3 ..('4 *-+*3('-(" *."-('+'(+$*('+0(3' ('5 +*,$((' -('36(5 (' $" -(' +**-(/' 9('-(' +' **(/' ("#-,(")$1 ("/' (,3/'+0(3',+) (,,(" -3 * $5 (" -('4+4$(.'4.-4+.-' '*.' (5 (' *'4(*,/''+*" (*3.('*$'3.+8 */'(,'F +$-('- *'',8 (,' -**('3 4 '$,$ *'* *0(('/'-(''$*(.'(,'-(.$.('+*''$'-$',$*(.' ,(. (*,'5*+0(3'+'4 * (' .$2/'F $0'BI' ".($-' (*' +. !' 5*$$$' ' +.$'/'36(U' ' (' * '/'$*9-*$(*.!9- 9.+46(/'. (' +$*,!A+35*('/'+*')('(,'F +' 46-.(

*',. *0(.+'+*''$'36(U' (' - ('-(" 4+$ ' -(' +.$'/'-(' ,*,('9.+*-(./'3 -" ' .' , ,(/' *,6"'*.'9 .9('4 *.' (" 3+)$*(,"(,')$) $,6(5 '/'(,'+ ,,("4 .'-,.('(*'4 3)(' (' 3+,+ 9 ('9-*-.+'-('9- 9.+46$('(,'Q 6$', $.('-(' ' ('* "'(' -$',.)*('9.+,*$,((*,'+0(3'3($'-(''+'*).('('3 (3,$ *' -+ +*+36"(*', *"9(*.('

V' < ' 46$ ' 46$5*(' - ' .(9* ' -(' $" /' ,,' $" ' 9-'4+.' *' .+*f+$ ' $).(7'4+.' ')+0+ -(/'+*' 3$(*'3+4$,+$*('+*' .-9$ (*,'-(".(,+9*(' ' ,.+') .9/'36(U' ' +*-'O (*$9/',$).+$3(/'(,'F +.$'/'36(U' ' 6- 46$(' "+. $" ((**(/'$).+$.(/'5*+$-(" 9 ',$*'/'(,'-6(U' " $'!' ' */'$ 4.$ (*.!$).+$.(/'. ('@+*,(#(*$ (

*',. 0('+*2' - ("+-.(''(" ' '.(*-*('+*' '(,!' ,.("4+.' +',$)(.,(/' ' ' M ' -(' + *.'-('+' 0-@ '-+*"B6 ('-(' (,,.('/'4+.'e(' - ('+ ,(.

V' < '4.-3 " (,'9-*-.+'-*'9)(',(..(',.(/'4 *.'D$*!' ,($9(*3('#+3$ (/'4. 4,('(,'- .+) ('-(' +'9- 9.+46$(' !' -(.*(7'* *0((' -,6 -('-(*'($9*(.'3(,,(''3$(*3('4. 4.('+' - **(.'(*'4(*'-(' ,(4"-("$--(" ',("-("-$##(.(*,("4+.1 ,$(" -(+',(..3/'+- 4,-('-+*'" ("3 -9('/'4(*'$ *'/ +$' *" - - - 3+,$ */'(,'4+.' ("$*',$, ,(*.'/'(,3 /'---$-('+ +' (*(''(' +.$'/'36(U'@' ('* /'$*9-*$(*.!9- 9.+4)('4 *.' ("9 1)("(,' ("'46(.('/' (' +$*,!A+35*('/'+') (/'* WXF' .$2/' P' $0'.($-

V' ' ' '#.+*#+$'(/'4+.' ' "+* $(.' ' +.$'/' 36(U' +*,(*./ ('(,'6-,('-' ' . $''+*,/'5 +.,$(.' *, +.,.(/' (,'36(U' (" +.36+*-"-(* 0(+ ,-'/

V' < '+46+)-,$5*('-*',+.$#-(" -. $," -(*.(9$',.(! (,,''*$0+*,' (" * " -("+3,('/',$,.(" (,' 9((,"5 $'8' ' *,' (,'7',. $'$(('--$,$ *' .$2/'4 .' +.$'/' ' $0'F' ' /' (,' ' $& 'BI' ' *'/'#.+*3' -('4 .,'4+.' +'4 ',(' ' +.$'/' 6(U' ' +*36(/' $).+$.(/'. ('6$(0(!-(! $3)($(,,! .) **(/' ' *kP7' +$ +$-/' $).+$.(/'5 +$' -(" 9 ',$*'/'*D'FP7'(, *(#!' 7' #$(. (*(/' $).+$.(// ('-3'@ .(4 $2' ' %

%

B!(" $" -(' +' *',$, ,$ */'-(' .+*,$*/'4.-0$(**(*,' 5 F'3 4,(.'-'PI' $ (,'BHTB' "*('.(3(0.(*,+*(*(" (,1 ,.(" *$'4+5*(,"5*$ " *(' ' $(*,'+##.+*()$'/' '$* *' -(' +.$'/' . -+*'/') $'/'" *.9("(,'+ ,.(+'$(2'+ 25*("$"' *,'+##$!' $-'/'(,'5 (' +'' 3 -$-'+ .+' +'4 "9.+*-('+,,(*,$ *' - +##.+*!' 36$.' (" (,,.("5* (('-3.$.+
(*2'-(' *,!(! 8'- **(*,' (' - ('+0$'

.'. 0 ' * ' ' " 'V' (*-.(-$ /'G ' ' 3 -$(' 8. 5+(S

'(' ,!'7 'V' .-%6$$$'P/' ,.+99 (,'; ' D

! ! '% ']' *.- $'P/' ' +' '< A' 5'(,' @ '&

- '1 ' +H' . (' -(' .55.'%' !' $ *.3)*$' c' 'I' & ' \ J'(,' 'F I'

- (' ' ' ' * ' , 'W' '$ *' 4 .+'$,+ $(*

- ' ' ' , 6 8''H'5' 6 a,V'a' V' * .-'9 K ',.+9(-$(" (,' 'G (' (*'B' +3,(

- ' ' '3 ' ' '3D C$:-/ 'V' E[' \ ' : LA) ' ;,74.> .I'5.6' '<7.416'E.1,<7'>EG E 1.<76' .@.1;6;.6I' , 1 (' ; / > .' '-.;'>.<@'>G L .17 66 .<76I' '$ ' H '?'<7, / / .%

" $! $ "(' ') (0+.-'- ' (4 ('V' +.-'P/' '- * ' '$ * ' 'F ' I' F '#+$,'6$', .$5*(7' ' ' 1 ' 4(.+') #!' # *f'(,'I',

(' ' ,$ 8. (' + ,! +,,,*' .-%6+$ /' ' % ' : ' '3 *7 A' : '(,' ' -$(

- ('1 (' ' " ' -' * " ' &' -')8' $ ' '$ 3 (*'X'+3,("(*'0(.'

' + 5 '.*('-*' +$/'*D'BT' V' '3+,' +0(.,' *" (" ." '5)',((')(.('5 D$'4 +$,') ' ("+) *D' *-"-D8 .+',(.

' ' " " ' ' % ! ! O' ' (
$2'4.($(." $" BHIB' @ ' (' +8(*.'' *,' ' +(,,.(',
G ' ' & ' & '4'*' Z ' '

',(.-+ ' FF' 7F ' +-$2' K' ' BE' BG'' @+) *,9' WPP' B F*(f' ' K 9 *.(' D = WW'H7E' $0 *.(' K ' BW' +-.$-' & BEB BH'' ' 8 */' , G

' 'W'

F3,),=*" -(" *-(" -('WXII' 0' CC C8C $,$ * '-(' ' 0 V' -('PBW $0'BI'' D V' -(',' L8< U ' 4 ' -% (,).(' -%('X ' 0' K K K & & K K : ' U (.$(' ().('BHE B' +'FII' $0 4$% *,' -(' -(3' BHEW/' 5 $,,+*3(' -('@ ' != ,$(" -('BWX $$ *'/' -(3' BHEF' K & J[Y5 'M"? -('EI' $ *" +0(3') (,$*'' & $,,+*3(" -('#$*''+*") (,$*7' /'('*'0$+9(. " (,$*' K' K' ' K' ' ' & ,$' (3 **+$''+*3(" -(') (,$*'' & D ! ,$('/' 4. *' -' - +$ ('-(' +'0$ (/' '-.$('+ *$(' ' ' V' " -.(.(+ 2'4. 0(*+*,'-(''(.$('* *' . $(' ' K' 3,$ *" * 0' -(" *-('' BGH/'GE/'GH/'II/'GX/'GI/GB/'GI/XE' +,++('-D('3 . 4,(' ' PEEI/'EX/'II/'III/'X/III ($% +$'+(n' BIFP/FG/XG/FP $,,+*3('-(" (+ 2' -(' +.$" /' ' GPI/'PX/'PI/'FI/'XI/'XG/GI 6*$4. *,'-('* 0( ). ('$HEH/' 'E' D' ' K V' ' 'F 4 'D7: j ' >.') '/ 55 ,<68'>G' 7 (*% % % %%%%%%%% %$' Y " .+*3(" 3 *,.('5.6'$*3(*-$(+' ' 99 '/' '/'9 8'U 8'UC8 +0$(' XEH/EF/EX/EF

) * ʿ %ʿ " & + , %

aG C 9ʿ - F ʿ (. ʿ=>?=ʿ &ʿ< 4 ʿ ʿ ʿ ʿ ((

8 : @

ʿ ʿ ʿ MW- - ʿ^ ʿ ; , / / 66 ,<ʿ> ,<7ʿ5.ʿ; ,M
5,<.5ʿ>.E 66; : ,#%[.1>ʿ ʿ ʿ ʿ ; : '1J.ʿ '4?1 >.ʿ . / ?.ʿ
1.41ʿ .67 7,4Q,416ʿ 4<ʿ6.;1.7%ʿ #.ʿ =4ʿ 6. / 05.ʿ '=<,<;.1ʿ
5ʿʿ ^5' ʿ. .67 5.ʿ>.?'17>4ʿ1,7ʿ5.ʿ ', 7?,41ʿ5ʿʿ 1466.ʿ
.5ʿ5ʿʿ 5 ` .8ʿ ʿʿ , ; ; '65,<ʿ>.6ʿ1.-4.6%

H #

ʿ "B

: ʿ ʿ 8ʿ ʿ ʿ ʿ ʿ >ʿ
ʿ1 ʿ ʿ ʿ1 ʿ ʿ/ ʿ" ʿ
ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ)ʿ
ʿ *ʿ 1 0 ʿ ʿ ʿ (*ʿ Aʿ

<ʿ, .7,01.ʿ (* 8ʿ ʿ / ' 6,<6ʿ.67 / .6ʿ)98U (ʿ5 -%ʿ
.7ʿ '>Q4J .6ʿ)98C(9ʿ 1%Iʿ .<ʿ <, -. / 01.8ʿ ʿ / ' 6,<6ʿ
.67 / ..6ʿ58 C 8975ʿ5 -%ʿ .7ʿ '>Q4J .6ʿC8)98 ʿ5 -%I.<ʿ
>. ; . / 01.8ʿ (ʿ / ' 6,<6ʿ.67 1< .6ʿ 8* 98 ʿ5 -%ʿ .7ʿ '>ʿ
Q4J..6ʿ 8C 8 ʿ -%Iʿ .<Q'<- .1ʿ (* 8ʿ 9 ʿ / ' 6,<6ʿ
.67 / ..6ʿ 8 (U8*)ʿ5 -%ʿ .7ʿ '>Q4J..6ʿC8 C 8U ʿ5 -%I ʿ.<
E. -1 .18ʿ 9 ʿ / ' 6,<6ʿ .67 / ..6ʿ 8U % (ʿ5 -%ʿ .7ʿ '>Q4ʿ
J..6ʿ C8U* 8C ʿ5 -%Iʿ .<ʿ / '168ʿ 9*ʿ / ' 6,<6ʿ .67 / ..6
C%*(U% * ʿ5 -8ʿ .7ʿ '>Q4J>.6ʿ U8* *8 ʿ5 -%Iʿ .<ʿ ' -1 58
(ʿ / ' 6,<6ʿ .67 / ..6ʿ 89 8 * ʿ5 -1.6ʿ .7ʿ '>Q4J..6
C%)9 % * ʿ5 -%Iʿ .<ʿ / ' 8ʿ9)ʿ / ' 6,<6ʿ.67 / ..6ʿC8C* 8 Uʿ
5 -%ʿ .7ʿ '>Q4J>.6ʿ 89)8* ʿ5 -%Iʿ .<ʿQ4 <8ʿUCʿ / ' 6,<6ʿ
.67 / ..6ʿ 8 C8 9 ʿ5 -%ʿ .7ʿ '>Q4J>.6ʿC8 8 (ʿ5 -1.6Iʿ
.<ʿ%Q4 55.78ʿ 9Uʿ / ' 6,<6ʿ .67 / ..6ʿC8C 8C *ʿ5 -% .7ʿ '>ʿ
Q4J..6ʿ 8C*U8(ʿ5 -%
<ʿ7,478 ()ʿ / ' 6,<6ʿ=4ʿ,<7ʿ>7>ʿ.67 / ..6ʿ 98 C*8C(ʿ
5 -%ʿ .7ʿ '>Q4J..6ʿ C(8 8) ʿ5 -8ʿ %

ʿ ʿ " =K / K%

.<> .>ʿ ʿ ', 78ʿ ʿʿ 4<.ʿ : .41.8ʿ 5ʿ 6.1ʿʿ O1E55>ʿ ʿʿ
1 : E 7.5ʿ>.ʿ5ʿʿ.' 66.ʿ>.ʿ .@71' ,1> <' 1.8ʿ14.ʿ - .<<.8ʿ
5ʿʿ6, / / .ʿ>.ʿ9ʿ / 55 ,<6ʿ .<ʿ'66 J<'768ʿ5'=4.55.8Q, <7.ʿ
'4@ʿC ʿ / 55 ,<6ʿ>.Qʿʿ 01 55>68ʿ E.1ʿʿ ; .55;ʿ >.ʿCC ʿ / 5M
5 ,<6%

@ ! 0 ʿ ʿ ʿ] ʿ ʿ ʿ

%%%ʿ .ʿ?'71 ,7 6 / .ʿ.67> '<7'<7ʿ?546ʿ.@'57.ʿ.<ʿH1'<;.8ʿ
=4.ʿ5.ʿ>'<J.1ʿ>.- .<7ʿ?546ʿJ1'<>%ʿ .ʿ?.4?5.ʿE1'<;' eʿ
6.<7ʿ.<;,1.ʿ / .4@ʿ ;6ʿ?1 <; ?.6ʿ>.ʿ5ʿʿ1.-,547 ,<ʿ=4 5ʿ
< .<ʿ; ,< , 7ʿ5.6ʿ>.-.5,??. / .<76ʿ.7ʿ5.6ʿ ; ,<6.=4.<;.6%
.?4 6ʿ1'11.607 ,<ʿ>4ʿ1? 8ʿ>.?4 6=4. 66. / 05.;ʿ
5 ,<'5.ʿ ʿʿ64ʿ7,47ʿ 'JJ1'-Uʿ5.6ʿ7,176ʿ>4ʿ?1 <; .ʿ.<ʿ<.ʿ
- ,4%5'<7ʿ?, <7ʿ5.ʿ71,4-.1ʿ ; ,4?'05.8ʿ 5ʿ.67 .- >.<7ʿ=4.ʿ
5.6ʿ .<<. / 6ʿ >.ʿ 5ʿʿ H1'<;.ʿ< ,<7ʿ?546ʿ>.ʿ?1>7.@7.ʿ?,41ʿ
'77'=4.1%ʿ <ʿ- ,V'<7ʿ>,<.ʿ'4Q,41> :4 ; .6 / >< .6ʿ.<M
<. / 6ʿ 5ʿʿ / .<ʿ;.1ʿ .<; ,1.8ʿ .7ʿ ; : .1; : .1ʿ ʿ6,45.-.1ʿ
; ,<71.ʿ ;55.ʿ 4<.ʿ?' 7 .ʿ>.ʿ '1,?.8ʿ ,<ʿ6.ʿ>. / '<>.%
=4.5ʿ .67 / ' <7.<'<7ʿ5.41ʿ / ,7 E%ʿ ʿ. .67 ,1J4. 5ʿ>.ʿ
=4.5=4.6ʿ : , / / .6ʿQ, <7ʿ ʿʿ 5ʿʿ>.?1'-'7 ,<ʿ > 4<ʿJ1'<>ʿ
<,< 01.ʿ > '471.68ʿ ,<ʿ >, 7ʿ6.ʿ : > .1ʿ> ,??,6.1ʿ ʿʿ >.6ʿ
6; 7 / .<56ʿ ?.1-.1%6ʿ >.6ʿ >>.6ʿ J1'<>.68ʿ .7ʿ .@; / ?5.ʿ
>.ʿ ##ʿ '7E 0 ,<6ʿ?405 =4.6ʿ =4ʿ<.ʿ6 '77'#0'<7ʿ; : .Oʿ4<ʿ
?.4?5.ʿ5 01.ʿ= '4ʿ / >1 7.ʿ - .1 7'05.8ʿ .7ʿ '4@ʿ6.1- ; .6ʿ
-<W <68; ,<6'.1.<7ʿ5.6ʿ>1, 76>.ʿ >Jʿ5 7.%ʿ ,41=4, ʿ5.6ʿ
>.4@ʿ ; 7,V.<6ʿ=4ʿ,<7ʿ'11>7.ʿ ,4 6ʿ " 8ʿ 1,4.7ʿ.7ʿ6,<ʿ
;4< Q 'J<,<ʿ ! 4 55'4 / .ʿ8ʿ?Jʿ6,<7 56ʿ?'6ʿ.<; ,1.ʿ1. ; , / ʿ
5 .46.6Z%ʿ <ʿ ?.<6.ʿ =4 56ʿ ,<7ʿ7 1.ʿ 5ʿʿ ?'71 .ʿ> 4<ʿJ1'<>ʿ
<J.1Iʿ 6ʿ ; .ʿ < .67ʿQ '6ʿ5ʿʿ >.ʿ5ʿʿ J5, 1.8ʿ ; .ʿ< .7' 7ʿ?'6ʿ
ʿʿ?. <.ʿ>.ʿ>.714 1.ʿ1 ,4 .41; : .-'5;1.6=4.ʿE1'<;' 55ʿ

,46ʿ 5' 66.1.0ʿ6406 67.1ʿ#.7ʿ : ,<<.41ʿ / 6.1'05.8ʿ7'<7ʿ
=4.ʿ ; : .0ʿ / ʿ?. ,?5.ʿ ' / ,41.4@ʿ > .;5'7ʿ .7ʿ >.ʿ 1.<, / ʿ
,'6<.ʿ 7 067:4.1.0?, <7ʿ ʿʿ>.6ʿ; : < .1.6ʿ: ,<,1 5 =4.6ʿ
=4.ʿ - ,46ʿ - ,45.0ʿ >.714 1.8ʿ 5.6ʿ 1. ; , / ?.<6.6ʿ> .67 / .ʿ
.7ʿ> 'EE.;7 ,<ʿ?405 =4.6ʿ =4.ʿ - ,46ʿ >.-.0ʿ ;1..1%ʿ ?1.%ʿ
4<.ʿ J1'<>.ʿ ' ;7 ,<ʿ , : ʿ01 55.ʿ'45'<7ʿ> 65;55 J.<;.ʿ =4.ʿ
>.ʿ; ,41'J.8ʿ ; .6ʿ>.4@ʿ -.174.4@ʿ : , / / .66,<ʿ1;7,41ʿ
<>6ʿ / ,>.67. / .<7ʿ>'<6ʿ5.416ʿE,V.1]%ʿ .41ʿ7 / .ʿ<.ʿ6 .67ʿ
>,<.ʿ?> <7ʿ>> / .<7 .Nʿ .7 .ʿ .67ʿ 1.67..ʿ QJ1'4>.%ʿ 34.ʿ5.ʿ
?.4?5.ʿ E1'<;' 6ʿ<.ʿ<>J5 J.ʿ?, <7ʿ; .77.ʿ>; ; ,4-.17.8ʿ ;5ʿ
=4 5ʿ 6' 6 66.ʿ '- >. / .<7ʿ ; .77.ʿ , ; ; '6 ,<ʿ >.ʿ7.11'66.ʿ
,1J?. 5ʿ>.6ʿ<, / 6ʿ.7ʿ>.6ʿE' / 5 .6ʿ; 1>.-'<7ʿ?'71 ; .< %
<.68ʿ .<ʿ'??.5'<7ʿ 1,4.7ʿ.7ʿ ! 4 55'4 / .ʿ ʿʿ>.6ʿE,<;7 ,<6ʿ
/ ?,17'<7.6% <ʿ> 7ʿ=4 56ʿ ,<7ʿ6.1- ʿ7,46ʿ5.6ʿ>.4@ʿ>'<6ʿ
'1 / ..>.ʿ5 J<.%ʿ '<7ʿ / .4@ʿʿ # .67>'<65 '1 / >.ʿ=4 %ʿ
E'47ʿ5.41ʿ>,4<.1ʿ 4<ʿ?,67.ʿ> >;5'7Iʿ. .67ʿ>'<6ʿ; .ʿJ.<1.ʿ
>.ʿ6.1- ; .ʿ=4 5ʿE'47ʿ64174 7ʿ'77'=4.1ʿ5.ʿ ; ,4?'05.ʿ?1. ʿ
Q4J.ʿ=4ʿʿʿ E' 7 6ʿ ,<J7. / ?6ʿ>4ʿ ; , / / '<>. / .<7ʿ>'<6ʿ
5.6ʿ '1 / ..6ʿ 4<ʿ?1 - 5.J.ʿ>.ʿ=4.5=4.6ʿE, / 55;6%
ʿ; .6ʿ ; ,<6 >.1'7 ,<6ʿ ?'1' 66.<7ʿ71,?ʿ . .->.6ʿ '4@ʿ
?.7 76ʿ.6?1 76ʿ ,4ʿ '4@ʿ / .6ʿ.<; ,1.ʿE' 07.68ʿ ?'15, 6ʿ ʿʿ
5.41ʿ ?,1 / .Iʿ> 6,<6=4.ʿ %ʿ 1,4.78ʿ / ' 71.ʿ>#6ʿ?,67.68ʿ
.7ʿ %ʿ ! 4 55'4 / .ʿ6,<ʿ- . 6<ʿ.7ʿ6,<ʿ ' / 8ʿ6'<6ʿ>,<7.8ʿ
6,<7ʿ4 ʿ 0477.8ʿ >'<6ʿ5.41 ʿ .71, 76ʿE,V.168ʿ '4@ʿ ?546ʿ
<ʿ; : .6ʿ71' : 6,<6Iʿ=4.ʿ5.ʿ>.1< .1ʿ>.6ʿ : , / / .6ʿ&O, ʿ
J.<7 5 : , / / .ʿ> '471.E, 6ʿ> ' 55.416Pʿ?.47ʿ'77.<7.1ʿ ʿʿ5ʿ%ʿ
- .ʿ>.ʿ; .6ʿ>.4@ʿ ; 7,V.<6ʿ=4ʿ <7ʿ1.<>4ʿ4<ʿJ1'<>ʿ6.1M
- ; .ʿ ʿʿ 7ʿ7%ʿ ʿ6.1ʿʿ O .<ʿ7. / ?6ʿ>.ʿ?,466.1ʿ >.6ʿ#1 6ʿ
E4<.01.6ʿ'?15 6ʿ4<ʿ'66'66 <'7Sʿ 5ʿ6.1ʿʿO .<ʿ7. / ?ʿ ʿ>.ʿE' 1.ʿ
4<0. '4ʿ6.1- ; .ʿ1.5 .4@5ʿ # .65ʿ>.-'<7ʿK,4 55>8ʿ .<ʿ
?1.6.<; .ʿ>.6ʿ.<<. / 6>.ʿ5ʿʿH1'<; .8ʿ=4.ʿ 1,4.7ʿ.5 ! , 5ʿʿ
'< <.>, -.<7ʿ; ,41 1ʿ>.ʿJ5,1 .4@ʿ: '6'1>6%ʿ <ʿ6.1ʿʿO .<ʿ
6 ʿ =4.ʿ; .6ʿ ,E7 ; .16 5ʿʿ <.ʿ71' : 1,<7ʿ?, <7ʿ5ʿʿ ?'71 .8ʿ
=4 76ʿ?1 7.1,<7ʿ5.6.1 / .<5ʿ>.ʿ0 ,<ʿ ; ; .418ʿ .7=4.ʿ5.41ʿ
?1 .<; .ʿ <6? 1.1ʿʿ '4@ʿ 6,5>'76ʿ=4 56ʿ ; , / / '4>.1,<7ʿ
4<.ʿ; ,<5 '<; .ʿ ʿ7,47.ʿU?1.4-.%ʿ .ʿ]' 6ʿ > ' 55.416ʿ= 9ʿ
>.6ʿ 5.771.6ʿ '<,<V / .68ʿ .7ʿ=4.5=4.E, 6ʿ>.6ʿ ; 1;6ʿ6 ʿ
J<..68ʿ / .<' ; .<78ʿ ʿ71'-.16ʿ / 55.ʿ <Q41.68ʿ5ʿʿ - .ʿ>.]ʿ
01'-.6ʿJ.<6ʿ>,<7Q.ʿ?'15.%ʿ '6ʿQ.ʿ<.ʿ-.4@ʿ / '11J7;1ʿ >ʿ
=4.ʿ6<1ʿH : .<1.46.ʿ,.?'6 ,<ʿ=4 '<1' .<5ʿ>.6ʿ / < 671.6ʿ
?'71 ,7.6ʿ>.ʿ>,<<.1ʿ4<.ʿ J1'<>.ʿ / ?456 ,<ʿ ʿ7 .6?1 7ʿ
?405 ;8ʿ.7ʿ> ' ; : .-.1ʿ5ʿʿ : ,<7.ʿ> ʿE'4@ʿ: ,<<.418ʿ ; : . ʿ
-'5.1.6 =4.ʿ ?'1ʿ 4<.ʿ ʿ .4ʿ E'-.<1ʿ >.ʿ 5ʿʿ
- .1748ʿ .7;%

ʿ 8 ʿ ʿ ,V'J.418ʿQ ' ʿ1.<; ,<71.ʿ?'15,478ʿ .<ʿE1'-.1ʿ
'<7ʿ5ʿʿ H1'<; .8ʿ ; - 6 / .ʿ .7ʿ - J 5'<;.ʿ6<1ʿ / ʿʿ 1,47.%ʿ
>Qʿʿ5ʿʿ;45741.ʿ>.6ʿ; ' / ?'J<.6ʿ ,EE1.ʿ7 '6?.;7ʿ1 '<7ʿ> 4<8
?'V6ʿ5 01.%ʿ ʿ<.ʿ6 'J 7ʿ?546ʿ=4.ʿ> .; '17.1ʿ5.ʿE5.ʿ'4ʿ>.ʿ5ʿʿ
J4>1.ʿ>.6ʿ1 ; : .6ʿ / , 66,<6Iʿ.7ʿ6ʿ ' ;7 - 7.ʿ>.ʿ- ,6ʿ<ʿ
<, / 01'0516ʿ1.66,41; .6ʿ6.ʿ>.45, .ʿ641ʿ- ,]ʿE1,<7 1.68ʿ
,<ʿ ?.47ʿ1.?,<>1.ʿ >.ʿ 5ʿʿ >.E.<6.ʿ .7ʿ >.ʿ 5ʿʿ 6E51;7;ʿ >4ʿ
1,V'4 / .%ʿ +ʿ%%%%%%ʿ .ʿ>, 6ʿ>. ;5'1.1ʿ=4.ʿ-5ʿ'<6ʿ5ʿʿ
ʿ ,4ʿQ.ʿ / ʿ 71,4-.ʿ .<ʿ; .ʿ / , / .<7ʿQ ' ʿ ;7 ʿ
E1'??.ʿ>4<.ʿ; ,417, 6 .ʿ.7ʿ> 41Q.ʿ6,15.ʿ> <>,5.<; .ʿ=4ʿ
<.1.?,<>.<7ʿ?, <7ʿ ʿʿ '467.1.ʿ641-. 55'<;.8ʿ ʿ 1.ʿ .7ʿ
0,<ʿ; - 6 / .ʿ=4.ʿQ ' ʿ1. / '1=4>6ʿ?'15, 5' <.416% ,V,<6ʿ
-' <=4.4168ʿ<,46ʿ6.1,46ʿ?, 6ʿ '?1.68ʿ.7;%

+" * ʿ , -

ʿ ʿ ʿ ʿ ʿ ʿ.7ʿ>.6ʿ1.5'7 ,<6ʿ; , / ʿ
/ .1; '5.6ʿ .@7.1 .41.6ʿ>.ʿ5ʿʿ H1'<; .8ʿ >'<6ʿ7,47.6ʿ 5.6ʿ
?'17 .6ʿ >4ʿ J5,0 .8ʿ?'17 ;45 1.? .<5ʿ ʿʿ5ʿʿ 7<ʿ>4ʿ1.J<.ʿ
>.ʿ ,4 6ʿ" 5 8ʿ .7ʿ'4ʿ / , / .<7ʿ>.ʿ5ʿʿ1.-,547 ,<Iʿ5.ʿ7,47ʿ
'??4V.ʿ>.ʿ<,7.6.7ʿ7'05.6ʿ1' 6,<<?.6ʿ'47: ; 7 =4.68ʿ641ʿ
5.ʿ; , / / .1; .ʿ .7ʿ5ʿʿ<'- J'7 ,<8ʿ5ʿʿ?,?45'7 ,<8ʿ5.ʿ?1, ʿ
>4 7ʿ7.11 7,1 '5ʿ.7ʿ>.ʿ 4>4671 .ʿ8% .ʿ?1 @ʿ>4ʿO : 8ʿ5.ʿ<4 ʿ
/ >1' 1.8ʿ5.ʿ1.-.<48ʿ5ʿʿ >. ?.<6.ʿ .7ʿ5ʿʿ>.77.ʿ ?7 05 =4;ʿ
>.ʿ5ʿʿ H1'<; .%ʿ ʿ ; .6ʿ>.4@ʿ>4, '4.6%ʿ '-.;ʿ5ʿʿ -'5.41ʿ>.

SG$ ʿ +ʿ< ʿ '.

'<; .<'1.J / .8 < V ?'-' 7 .<'1 .<8 .7 ;.?.<>'<78 6'<6 5.'6.;,416 >.' ;.6 / 'J.6 :,11 05.6 8 4<' ?.<'71,? / 5 ' 7 ?5 ..6 >.'<,6 Q,4 68 5.' ;;.41 V .65 >'<6 4<'1.66.11. ' / .<7 ;,<7 <4.S Q46'4 '4'>.<,4. / .<78 , 5 5 6.' > 5'7.' > 4<.' / ' .1.'>.5 ; .46.%

<71 J4.' .<' .67 E,17 6 / ?5.I 5'' -, ;' N '>' / .' ! '5'68 ' -.;'6.6 >.4@ E555.6 .7 6,<' 686.'6, 7;,<67 7<>6 ?1 60<< .16 '' '1 68 ' <6 ' =4.' 5.41 6.1-'<7.8 ?,41 '77.<>1.' 5'' 1.:'0 5 7'7 ,<' >.' 5'' < > / , 1.' >.' ! '5'6% % >.' ,57' 1.8 ?1,7.;5.41 >.' ;.77.'E' / 55.8 .67 64?M ?,6.' ?'1 '47.41 >71.' '11 -.'6.;1.7. / .<7 '' '1 6% 5 >,<<.' >.' '1J.<7 '4 J.>5 .1'>.'5'' H' / 55.' ! '5'6 ?,41 .<J'J;1 '' .';';;.1 >'<6 4<.';:' / 01.'-, 6 <.8 'E < > V .71.'7. / , <'>.'1 / ?1.66 ,<' =4.' E.1'' 641 ;.6 :,< ' <E 7.6 J.<6 5'' <,4-.55.'>.' 5.41 Q J.1'.<7% 5 >. / '<>.' '' -, 1 5'' 6.1-'<7.' >,?7 5 < .67 ?, <7 ;,<<48 #.77.' 0,<<.' 5 55.' 6.' 1.?'<>' >.-'<7 54 ' .<' .5,J.6641 54 ' / > / .I .55.' <.' ?.<7 ?'15.1 >.' ,57' 1.' =, '-.;' .< ' 7:,46 '6 / .% !.'J1'<> B, / / .8 6 6.<6 05.8 <.' ?.47 64??,17.1 < ' ;.6.5,J.68 < ' 5.' 7'05.'4 > 4<.'1.;,<M <' 66'<;.''466 ' - -.I / ' 65''0,<<.' .'<<.'6.' / .?1.<>' ''%6'' ;,<71' <7.8 '' 6,<'. / 0'11'6I .55.' 5.'?1.<>'?,41 7 <'E'<'7 =<.8 4<' .<<.7<'>.' ,57' 1.8 ;58 ?'1 64 7.8 >.6 ! '5'6 8 >.' 5'' ?: 5,6,?: .' .7 >.'5'' 1' 6,<8 5 '?.1J, 7 6,<' 0467.' ?5';.' >'<6 5'' ?1 6,<' >.' / '>' / .' ! '5'68 ;, / < .' ,0Q.7 >.'6,<';457.I 5 .<50-.'E417 -. / .<7 .7 ?,6.';,<71.'6,<';;.41 4<.' <6;1 ?7 ,<' =4.' 5'' 1.;,<M <' 66'<;.''> ;7..% 4E < 5 6 .<E4 78 <.' ?,4-'<7 ?546 ;';:.1 6,<' 71,405.8 .7 ;1' J<'<E >.'6.'>;;.5.1% ,47 ;.5'' ;,<E 1 / .' .6 6,4?;,<6 >.' .'<<.% 55.'6.'71,4-.' E,1;..' >.'5.6 ;, / / 4< =4.1 ' 5'' E' / 55.' ! '5'6% .'E 56 '??1.<>'>4 J.E 5 .1 7,47 ;.'=4 '6 .67 ?'66.8 .7 ?1,Q.77.' >.'5' 66.1 ' '?'1-.< 1 '4 047 = 5'' >. 6 1>% '<6 ;.7 <7.1-'55.' '47.41 '' / .<'J> 71.6 '>1, 7. / .<7 7,<6 5.6 / ,V.<6 >.'J1'>4.1 .7>.'6,47.< 1 8 <7.157% % >.'K.'4 / ,<7 - .<7 '<<,<;.1 =4.' ,<' .67 '4@ ,? < ,<6 .7 =4 .55.6 '?'1' 66.<7 E'-,1'05.6% ! .7 .6?, 1 .67 0'5'<;>'?'1 5.6 ?1.66.<7 / .<76 E4<.67.6 >.' / '>' / .' ! '5'6% <7 <' '11.7 .67 1.<>4% <' .<7.<>'>.6 ;1 68 .7 >.6 .1 6 >.'Q, .8 / ' 6 ,<'.67 <;.17 / < .<;,1.% K67 ;.'5''Q, .'><'E'<'7 6 / .',4'>.'5'' :' <.8 ,4 ;.55.'>.' 5''Q467 ;.'.7>.' 5''-.174 Z % >.'K.'4 / ,<7 - .<7 5.-.1 7,47.'>=4 -,=4.I ,<' ';;'05.'>.'1. / .1; / .<76 .7 > >' 5,J.6I 5 1.<>'7,47 '4 J1'<>' :, / / .8 '' ,57' 1.'' = ' '' / 6>?,1E>.'>.?1,7.J.1 ^ <<,;.<;.% ! '5'6 .5 66?' 1'??.55. '5,16 =4.' .<<. / >.' JBG >;,47.I 5 -.47 ?,41 5.'?4< 1 =< 5 6, 5 7. / , <'>.'?546 ?1.6 >;';.'=4 6.'?'66.8 5 -'' '11';:.1'>.'6,<1.>4 7%%% ! .67 ,57' 1.'5 / . / .8 Q5 5.'1.;,<<' 7% <' ;,<3, 7 7,47 5.'1.67.%

#.77.'? .;.8 ?'1E' 7. / .<7 Q,4>.'?'1'7,<6 5.6 ';7;4168 .67 >.' % 4Q,45@%

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66. ?05..' ?'5 ,<'5.' >>;1.7.' =4 J77.?>4 5.J ? 1Z #,<67'<;.68 5.% 1;? ?Q';. / .<7 ';74.5 >.6 ,EE .Q.1 8 =4Q / '<=4.<7 ?'<6 5.6 > 5E.1.<76 ;,1?6 ^.' '1 / . .8 6?E.1'' ;, / QQ .'QE'64 7I

W 17% .6 1 5.6 ?1.6;1 7.''?'1 5.6 ?1.;.>.<76 > ;17Ic6 ?,,1 5.1. / ?5';.1'.<7 >.6 ,E>; .166<?>1 .<16.7 >.6 '>Q4>'<7

/ ' 3 '>'<6 5.6 >EE_1.<7) ;,1?6 >.6 > EE 1.<7.Z c<.6 ?1=< 8 5.41 ?5. <..7 .<>41.'.@ .<7 ,<% 8 8

Y % '<6 ;:';33 >.6 1 / .<76 > <E'<7.>.' 7J7 .',4 % < V '' ?.I ? <6 >.'=7 '71 ' ;, / ? J< .6 -';'<7.68 . ;6 E7??'1 ' 7 .<>1,<7 '>@ ?546 '?. .<6 5 .47.<'<76 >J / .<77 '<6 ;:';4<' >W 'O'7' 55,<6 > <E':7.V .'5 J 1.' ,4 5 < V '?'6 ?546 >.'>.4@;, / ?'J< .6 '?'<7.6 -5,75#'' '??'17c.<U7G,<7 '<@ ? <6 '<; .<6 5 .47.<'<76 >4 0'7' 5 ?1

Y ' .6 71, 6 =<'1 ' '= ?', <6 >< 7?7 5 >.6 ;, / ?'J< 6 -'.'<7.6 >'<6 P.6 J / .<76 > 5<E'<7.15.'>.'5 J<.8 .7 >'<6 5.6 0'7' 5Q,<6 >G 7 E'<7.1 .' >J 1.' '4 .55 ' >< <, / 01.'X >.66<\ >> .1 / < '6.1,<7 >,<<>6 '46 ?546 '<; .<6 5 .47.<'<76 >.' 7? .'cS <E'<L91 ZP <<7 ';7'.55. / .<7 .< ';7 - 7.I B'471.' =<'17? <7 E'' .><<<.'?'1 5.'?,4-, 1 .@..<7 E8 6, 7 ''>.6 ;'? 7' <.68 6, 7 U >.6 Q .<7.<'<76 > < '<7.1 .' ,4 1.G 7 1>68 =4 ' >>6 1.1'Q.<7 E1' .<7 1.;,?<46 646;.?7 05.6 >' 1.<71.1 .<' ';7 - 7.8 ' 5'' ;,<> 7 ,<'>.'?1 <7.1 >.'5.41 ?'17 4<' ;.17 E ;'7 > Z > 1;.7? 1.'>4 > 671 ,7 >'<6 .7.<>4.'>4=<.5 56 1 6E>.<7 '=4 ' '77.67.'5.<1 '77'.0. / .<7 2 5'' #,<67 747 ,< >>.1 7>.'?'1 66. / 05>.'<'7 ,<'5.%

< Q % .6 ;'? 7' <.6 =4 ' '.1,47 ?,<1-<6 .<' V.174 >.' '17% ;,<6.1-.1,<7 5.41 1'<J .<71.' .<@8 .7 5.' ?7.<>1,<7 641 7W46 ;.4@=4 '6.1,<7 <, / / 6 .4 1.174 >.' '17% % #.,@ >.';.6 >.1< .16 =4 '6.1,<7 ?1]'641 5'' ,,5,<<.'>.'5 .47.<'<76 ';74.55. / .<7 .<' ';7 V 7>';,<6.1-.1,<7 '?66 '5.41 1'<J .<71.' .<@8 .7 5.'?1.<>1,<7 641 7,<6 5.6 ,E5 ; .16 ; >. 1'<7 1>E,1 / >6 ,4 1.7 1.6 =4 '?,411'7.<7 ,07.<4 >.6 ;?1'?'J< .6I '.4@ . ' .<E < ?1.<>1,<7 .<71.' .4@5.'1'<J =4.'5.41 '66 J<.1''5.'J1'>.' =4 6 '-'7.<7 '-'<7 5.41 1.E,1 / .',4 5.41 1.71' 7.8 .78 2 J1'>.' >J'58 '<? .<?.7>'>.'5.41 6.1- ;.%

4 V% '<6 ;:';4<'>.6G1>J / .<76 > <E'<7.1 .'>.'5 J<.',4 5 < '41'' ?'6 ?546 >.'=4'71.'5 .47.<'<..6 -';'<7.68 .55.6 '?G ?'17 .<>1,<7 '4@ ?5=6 '<; .:6 6,46 5 .47.<'<76 >.' ' 1>J G / .<7% '<6 ;:';4<>.60'7' 55,<6 > < '<7.1 .' >J.1.' ,.' 5 ?V '4 / '?'6 ?546 >.'>.4@ 55.477,'<;.6 -';'<7.68 .55.6 '??'17 .<' >1,<7 '4@ ?546 '<; .<6 6,46 5 . / .<'<76 ><'0'7' 55,<%

Y % .6 71, 6 =4'176 '<' / . <6 >4 7,7'5 >.6 5 .47.<'<..6 -';'<7.6 >'<6 5.6 1.J / .<76 > <E'<7.1 .'>.'5 J<.' .7 >'<6 5.6 0'7' 55,<6 > <E'<7.1 .'5 . .8 '< >.5:'>4 <? / 01.' ; >.66<6 >>7.1 / <>8 6.1,<7 >,<<>6'4@ ?546 '<; .<6 6,46G5 .47.<'<76 >.'7,47.' <E'<7.1 .=4 '6,<7 ';74.55. ?.<7 .<' ';7 - 7V '477.' =4'17 ?,411''>71.'>,:?.'?'1 5.'?,4-, 1 .@>;<7 E8 6, 72 >.6 5 .47.<'<768 6? 7 ''>.6 6?4 > .47.<'<76 1.E,1 / > ',4 1.7 1>'8% =4 '>>651.1' .<7 .7 6.E' .<7 1.;,1 <46 6<6..?7 05.6 >.'1.<71#1 .<';5 - 7>8 ''5'' ;?<>7 ,<'>.'?1.6.<7.1 >.'5.41 ?'17 4< ;.1 ' 7 E ;'7>4 > 1.; 1.'>4 > 671 ;7 >'<6 .7.<><.'> =4.' 0 1.M 6 >.'<78 =4 ' '77.67.'5.41 '77';0. / .<7 .'5''#,<67 747 ,<>>;1>7>.' ?'1 66. / 05..'='7 ?<'5.G

' Lc ' 6 5 .47.<'<76 =4 ' 6.1?<7 ?,41-E 6 .< -.174 >,' '17% ;,<6.1-.1,<7 5.41 1'<J .<71.' .4@V .7 5.' ?1.<>1,<7 641 7,<6 ;.4Z =47 6.1,<7 <, / / 6 .<V.154 >.' '17% F I ;.4@ >.';.6 >.1< .16 =4 '6.1,<7 ?10'='1 5'' ;%,5,<<.'>.6 6,<6 5 .47.' <'<76 ';7'.55. / .<7 .<' ';7 - 7V ;,<6.1-.1,<7 '466 ' 5.41 1'<J .<71.' .4@8 .7 5.'?1.<>1,<7 641 7,<6 5.6 ,EK; .16 ; >.-'<7 1 E,1 / 6 ,4 1.7 6 =4 '?,411' .<7 ,07.< 1 >.6 5 .47.<'<..6I .<><' ;.4@ ; '?1.<>1,<7 .<71.' .4@5.'1'<J =4.'5.41 '66 J<.1'' 5.'J1'>.'=4 56 '-'5.<7 '-'<7 f.41 1.E,1 / .0<'5.41 1.71' 7.8 .78 2 J1'>.'.JU ' '?. .<<.7 '>.'5.=1 6.1V5?.8

\ % '6,46 5 .4 .<'<;.6 -'.'<7. '>'<6 E <E'<7.1 .'>,' 5 J<.' .7 >'<6 E E'<7.1 J #J.1.'6.1,<7 >,<<>.6I 6'-3 18 >.?E 5.6 1.J / .<76 .7 0'7 5,<6> <E'<7.1. =4 '<,<7 ?'''>.67 740 5.416 ,E ; .168 / , 7 ' '4@ 6,46 ,EE ; .16 >.' ;.6 1.J <7.<768 / , 7 ' ''>.6 E 56 >.';7,V.<6 ';7 E6I >'<6 5.6 1.J / .<76 .7 0' ' ' 75,<6 =4 ' ; / 7 >.67 74.'5.416 ,EE ; .168 5.6 71, 6 =4 G7.' >.6 6, '6> .47.<'<;.6 6.1,<7 >,<< .6 ''>.6 E 56 >.' ;7,V.<6 ';M 7 E68 '471.' =?'17 >. / .41.1'' 1.6.1-.' '4@ 6,46 ,5E ; .16 >'' 1.J / .<78 '4@ 7.1 / .6 >4 > 1.7

Z ' ,41 5.'1. / ?5';. / .<7 ';7<.5 >.6 ;'? 7' <.6 .7 >.6 5 .47.<'<76 >?';,1?6 ,V'5 >017 55.1 . '?< 64 V1'' 5.6 1.J .6 > '-'<;. / . 7 ?1.6;1 7.6 ?'1 .6 ?7 ; > <76 >.;1.761.5'7 E6 ' ;.77.' '1 / .I 5.6 ,46 5 .47.<'<;.6 -';'<7.6 6.1,<7 ?'17'J 6 .<71.'5.6 .5.-.6 ><' ;,1?6 .7 5.6 5 .47.<'<76 .<71, 6Q. / .'=4 ' < ,<7 ?'6 .<;,1.'<,07.<4 5.<1 1. / ?5';. / .<7%

Y '' % .6 .<<.6 ; 7,V.<6 <.' 6.1,<7 646;.?7 006 >.6 6,46 ' 5 .47.<'<..6 -';'<7.6 =4.'>.?4 6 J Q46=4 ''OJ '<6I ;.4@'J 6 >.'?546 >.' 2)' '<6 >.-1,<7 '-, 1 6.1-'>'<6 5'' J'1>.'<'7 , ' <'5.I 7,<6 6.1,<7 7.<<6 >.'1'??,17.1 4<' ;.17 E 7 7 ><'> 1.; ' 7, 1.'>4'> 671 ;7 >'<U .7.<>4.'>4=<.5 56 1.6 >.<78 =4 ' '77.67.' 5.41 '77';:. / .<E '5'' #?<67 7'75,<'> ; >7..'?'1 66. / 05..' <'7 ,<'5.%

Y '' % '<6 5.6 1.J / .<76 >.6 71,4?.6 ''?:%.-U .G>.16 >.'' ;, / ?'J< .6 -';'<7.6 641 7,47.' '1 / .' '??'17 .<>1'' '4@ ?546

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(*,' (.' 3 *(/' 3(,' # 3(.'%' 4(.$(.' $*-$5*(.+' ' "
6 $,+$*(/'+'3 4,(.'-('+'4) $3+,$ *'- '4.('(*,'-(3.(,/' $,'
+ '9-* .+'-+* (/' ' $,'+ '3 +*-+*,'(*'36(#'-('-0'$ */'
+$ ' .-.(" -*5 ('L'(',/' (" '* (," 5*$'3. $,''*'3(4,$) ("
-),(*$.' (" ' '! $(*,(*+*3(" 0+3+*,(" -+*" (' .(9$ (*,'
5* '3, *+*-(' 3"9 *(.+*2'- +. (' (,' (" 3 +*-+*,"
36(#!-(" -0'$ *" 4. 4 '(. *,'- (2! E (" + 2* *'!'
$,,,(*+*3('%0+3+*,(" -+*" (" 3 .4" 5 $' ' *,' ' *" ,(+."
-.('/'(,'5 $'*% *,'4 $*,'+3, (((*,'-('3 *(' (" -$ (!'
,("4. 4 '$,$ *" '(. *,'+-.(''E("$ (-$+,((*,'+ ' $!'
,.('-('+'9 (..(/'4 .' (' (,,.('(*'-,+,'-('4 .0 $./''+*"
3 *'-($+$/'+', ,(" (" ' '! $(*,(*+*3(" 0+3+*,(" -+*"
$. -(
' .'5 (' .$(*' *(' .(,+.-(' (' .(4 +3((*,'(##(3,$#
" ##3(." 5*$' + 5 (*,'+3, ((,*(*,'-+*" +. -(/' ("
3$(."' 4E.$(*." (,'+*,.("'(. *,' . # '/' $"(*'# *3,$ *"
4+8Ef''+*",,(*-.(' (24 -$,$ *'-(' (.").(0(," *'3 !'
V$''$ *'/'' .' +0$" -(' (.'* $*+,$ */'+-.('' '4+.'(' $*$'!'
,.('-('+'9 (..(/' $,'+ 2'9 * .+ 2' -%+. ((/' $,'+ 2'3 1
+*-+*," (*'36(#'-("-0'$ *" (,'+ 2'36(#"-(" 3 .4"-+*"
('5*()' (" .(4 +3((*,"-(0. *,"% 4-.(.
:' -+* $*" (").(0(," (,'3 $''$ *" '(. *,'(*' $,('
(24--$-" 9'4 " ,-,'4 ''$) (/'(,'0+*-. *,'- ' .'-('36+5 ('
* $*$*+,$ *'- $$,'$".+44((. *,' +'-+,(:
' ' ' '

B% -1.'E' 7'E.;741.'> 77<.' '>1.]].'>4'>.?'17. / .<7'
>.' 5" '17:.8' ' <]';,7 J4.N
W' .' <' 47 .<'>.' 5" ?' @' .7'>.' 5" 5 5 .1 '>'<6'4<'
J1'<>' . / ? 1.' .@ J.' 7' 5 < 7>' >4' ?,4-, 1' .@7 ;47 E'
64?1. / .' .5'5" / ,7 '1; : .' : .1.> 7' 1.% .71.6'>.' ; .'
J1'<>' ?1 <; ?.8' 5.6' ; 7,V;<6' >4' >.?'17. / .<7' >.' 5"
'17: .' ,<7' 1.J4' '-.;' 5" ?546' -7V.'1.;,<<' 66'<;.'5.'
<,4-.'4'>.;1.7'=4 ' 1'70 ;<.'5.'6 ? .' " '47.5'>;'5"
?'71 .% .47 5' .<' .EE.7 .@ 67.1'>.'<'7 ,<' ?546'5 01.' .5'
?546'> J<.'>.' >71.' =4.' ; .55.'=4 ' 5 .'- , 7'>'<6'4<'1, '
=4.'5.' ?1. / .1'>.'6.6'>.5.J4.68' ;5 '1J>'>.'E' 1.' .@ '
;45.1'5.6'5, 68' .<'>,<<'<7'"6.6' ;,<; 5,V.<65 .@. / ?5.'
>.' ,0. 66'<;.' " 5" -,5,<7.'J;<>1'5.Z
Y ,37 6'>,<.' / >16' ?,41'5"5 0.15>8' - .6?1 76'
, / 01'J.4@'=4 '<.'?.77-.<76 ?'1.1' >>.'> 7 <' / , '1 '
=4.'>.' ; .55.'> 4<' / '571.8' .7'=4 ' ;1' J<.<7'=4 <<'71 4.'
<.'?4 66.'67 06 67.1' '<6'Q,4J' .7'6'<6; : ' <.6Z' ,<84.'
< .67'?, <7' .<' -' <'=4.'5 47,1 5>'1,V'5.' " .7;'; 1; ,7 6 '
;1 7.' >'<6'5.6'0,1<.6'=4.%?1.6;1 -' 7'5.'6'547'>.' .< '
? 1.% 55.' <.' 5.6' E1'<.0 1"Q' / ' 6N'5.' ; .1;5.' .<' .67'
71'; .'?'1'5.'J.< .' 747. ' 1.'>.' 5" H1'<; .8' .7' .<7,41>'
>4'6,5 >;'1. <?'15'>.'<,6'5, 6%
G$ .J 65'7.4168' -,6'6405 / .6'71'-'4@8' -,71.' ; ,< '
1'J.' 6'<6' .J'5' -,46' ,<7' '6641.'5" ; ,<E5'<; .' <.01'<\ '
5'05.'>4' ?.4?5.'E1' 3' 6% ' <. / .?7' < ?,6741;' ; 1 '
;45<<7'>.'7,47.6'?'176' '<<,<;.'>>Q" =4.'-,46'?1,Q.5.0'
>.' 6';1 E .1' " >,5.'>.' 5" ?.41'4<.' ?,17 ,<'>.'<,6'
0'6.6'; ,<67 747 ,<<.55.6I'-' <. / E <7 " ?1, ; : ' <.1> '
- 6 ,<' >.' ; .6'5, 6'E,<>' / .<7'5.6'<,46' .67' <> =4>.'
; , / / .' .?,=4.'>.'5.41'57.1'7 ,<% ,4Q,416' .J'7.8' .7'
Q' / ' 6' 1.71,J1'>.8' -,71.' 6'J.66.' E,<>.' <,71.' ?546'
;1< .' .6?, 1'?,41'5" ; ,<6.1-'7 ,<'>.' ; .6'0'6.6'; ,< '
6'.1>.6'?'1'-,6'6.1<Q.<76'.7'5.6'< 71.6% ,46'< '><5.7 '
71.0' ?, <7' 7 <' >' J.1.4@'55 'J.>'<6' ; .' ;1.46.7' ,4'
-,46'55.0'>? 1.1' ,1% ,46'; , / ?5>7.1;0' , .4-1.>.'

?1,6?>1 7.'E1<<;' 6..7'>.'-,71.' / <,17'5 7>I'-,466;1.0'
Q46=4 ' 5" E < >.' -,71.' ; '11 .1. ; .'=4.' -,46' '-.0' >7>
>>6'5.6'?1. / .16'?'68'5.6'6'4-.416'>.'5" ?'71 .8' ;6'1>'
J.4>1'7.416'>.'5" <'7 ,<% \
<' E' 7' 5.;741.' >.' ?5 6 .416' '>1.66.6' >;1 7.6'>'<6'
5.' / > / .' .6?1 7% +' '471.6' >. / '<>.<7'>.6'5, 6'?>'
^ <'5.68'6, 7' ; .<71.'5.6'?1>71.6'E' ;7 .4@8'6, 7' ; .<71.'5.6'
<. <01.6'>.' 66. / 05>.8' '47.416'>.'?1,7.67'7 ,<6' ; .<M
71.'5.6'5, 6%
.6' >.?47.6' >.' 5" / 4< ; ?'5 7.' .7'>.'5"6, ; .7.'>.6'
/ 6'>.'5" # ,<67 747 ,<8' >.' K1 . # , / 7. K,0.178' '>'
/ 6' " 5" 0'11.8' .@?1 / .<7" 1 66. / 05..' 5">, 5.41'
=4.' 5.41' " ;'46>.'5" >.<, ; '7 , ' E' 7.' ?'1'<<'>.'6.6'
/ . / 01.6'; .<71.'5.6' ,EE ; .16' / 4< ; ?'4@'>.' ; .77.' -55.8'
?,41'>.6' ' ;7.6'=<'<>7' .<7=4.'1.@.;<7 , '>.6'>.;1.76'
>.'?1 6.'>.' ; ,1?6%
' , (' . ' ' ' ' ' .671,405.'
=4 6.'6,<7' .7.->6>'<6'-,6 / 41.,<7'EE5 J.5 66. / 05..'
<'7 ,<'5.8' 56' ,<7' .@; 7>'5.6' 1.J1.76'>.' 7,<6' ;6'0,<6'
; 7,V.<68'=4 ' - , .<E '-.;' >,45.41'>.6'< '5:.416'?'1 '
7 ;45 .168'>.6' & ' 1.7'1>.1'6'<6' ; .66.'
5.6'0 .<E' 76'>.'5" # ,<67 747 ,<8' .7'E' 1.'; ,<; ,7 1 15 >'
J'1.< .<7'>.6' ; , / <.6' .@'57. 6' ,4'6>>4 76' '4@' / '<, .4M
-1.6' ;1 / .55.6'>.6' .<<. / 6'>.'5" ?'71 .%
66. / 05. .' <'7 ,<'5.'E,<>.'641' - , 1.' ?14>.<; .' .7'
-,71.'0.5.'6" ; ,<E '<;.'>'<6'4<' -.7,41' ; ,<67'<7' " ,1'
>1.8'=4 ' J'1'<7 66.' "5"E, 6'5.'5 01.' .@.1; ; .'>.6'>1, 76'
>.' -,6' ; ,<; 7,V.<68' .7'5.' 1.6?.;7' =4 56' >, -.<7' '4@'
5, 6% 55.'-,46'.<J'J.' " 5.41'?. <>1.'5.6''-'<7<J.6'>.'
; .77.'0,<<.' <7.55 J.<; .8'6'E'7'5.' " ; .4@'=4 ' ; ,<6? '
1.<7' ; .<71.'5.41'1.?,68'6' ; ,<-.<'0 ' ">.6' ;7,V.<6'
'4@=4.56'5.' ;'1';7E.1.'> : , / / .6' 01.6'<.'?.1 / .7?546'
>.' ; ,<4' 71.' =4.' <7>1>7' ?405 ; I'>.' ; .77.'4< ,<'=4'
E' 7'5"E,1;.'>.6' . / ? 1.68' .7'=4 ' .<'6641'<7'5.'0,<5 .41'
>.6'H1'<J' 6' E.1" 5" ; ,<7.'>.' ; .4@'=47' ,<7'?.1>4'; .'
5 71.' : ,<,1'05.8' .7'5.'>.6.6?, 1'>.'5.416' .<<. / 6%
66. / 05..'<'7 ,<'5.'6.'E.1"1.<>1.'; , / ?7.'>.6'>.M
7' 56'=4.'-,46'-.<.0' 54 ' 6,4 <.771.I' .55.'-,46' .<J'J.'
' '66 67.1' "5"6>'<; .%
+ ' 41'5.'1'??,17'><<' / . / 01.'>4'; , / 7>'>.' 4>M
;'741.'8'5.'>. .1.7'64 -'<7' .67'1.<>4'N' $
' ''( ) ('*+,$ *+ (/' +4. '+0 $.'(*,(*- ' (' .+44 .'
-+'3 $,('-('+-$3+, .(/'--3.(,3'5+(' $.(,'-+' *,+ ,'-('
$5 $-+,$ *'-("36+.9(" -("4(..*5 $(.")+.)$(.'&-,+0$',("
' 44.$ ((" 4+.' ('-(3.(,'- D /' (.''(.+'+33 .--' '4+.,$.'-+'
+.'-(' +''+*3,$ *'-+'-(3.(,/'4 +.0+'5+(' ('-$,"4(.. 5 $(*'
+$(*,'--4 '-' (." ,$,. ' -+*" (") .(+ 2' -(' $5 $-+,$ *'
+0+*,' ('B%'(4,( ).('4. ()+$*/'(,'3(2'5 $'--4 '(. *,'(."
$,.(" +4.(" 3(,,(' -4 5 ('*%+ . ; (." *,-.(,"5 (' - ' .'
- ' -- =-,'-(' (." $,.('IS
' ' ' ' ' ' ' F ' L '
!' ' ' '
% , & '8' '4'<, / ' >4' ; , / 7>' >.6'E <'<; .6N'E.'<'
/ '77.<>' 6' ?'6' " 71.' E,1; .' > ,4-1 1' 4<.' > 6;466 ,<'
<,4-.57.'641'5.6'?,<76' .7' ; :'466..6% ,41'-,468'?,41'
5.'; , / 7.'>.6'E <'<;.68'?,41'7,4]' ; .4@'=4 ' ; ,<<' 66. 7'
-,6'?1 <; ?.6' .7'-,6'>.;1.768'7,47' " .7;' ; ,<6, / / .' .i'
; .77.' ?'E7 .' ?'1'5" 5, '>4' 9' Q'<- .18'=4 ' .<' " @.5 ,1'
J'< 6'7 ,<8' .'<.'>.-' 6' ?'6'6 17,47' / '77.<>1.'=4Q'
% K '40'78'=4 8' -,46'-,46.<'6,4-.<.08'>7' 7'5.?54 '
7.11 05.'>-.16' 1.'>.6'?=<76' .7' ; :'466..68' .<'>.- .<'
>1' 7'7,47 ' ; ,4?' 5.' ?'17 6'<8' .7' 5.' ?'17 6'<'Q46= "
.<7: ,46 '6 / .% '< V'-' 5' -4'> '0,1>'=4 4<.' ; ,1?,M
1'7 ,<'>'<J.1;46;8'>.6' ; , / / .6' <47 5.68'>.6' ; , / / . '
6'<6'7'5.<768'=4 '< '-' , 7'?'6' '6.45. / .<7' ; ,<6714 1Q'
4<'?,<7' .<' 4-. <.% =Q,41><4 '. .67'>.'5" / ' <'>._
. .-.6'>.6'?,<76'.7' ; :'466..6'=4 '1.J, 7'5.6'5, 6'=4 5'
-,46'?1,?,6.I' . .67' '-.;' 5.6' <J><.416' 6.'56'=4 N
> 6;45.I' S5' '>,?7.'7,478' 5' ;1, 7'7,47' 641' 5.41' ?'1,5.%
.5' .67'^. / ? 1.'>.6'7'5.<76'.5'5. ; : '1 / .@5.6'176I'<,<I'
,405 ,>6' '4?1.6' > .4@'=4.' <,46'>.-,<6' .<' 71.' ;I'
5.J 65'7.416' .7' 5.6' Q4J.6% ,71.' ; , / 75 ' >.6'5 <'<; ; '
6 .67' / .4@'>.E.<>4'>.' 5" 6;>4;7 , ' B' <'-' 7' ?'6

; , / / .<; .'?' 1'5.6'?1. - .<7 ,<68 5'<.' < 1''?, <7'?'1' .< ,4. / .<7%

.'> 67 <J4.'>'<6'5.'?1,Q.7>. %K '40'7 4<' .6?1 7 J><.1'5 =4 ' 7.<>' '' 1.;1..1'4<.' ; ,1?,1'7 ,<'>.6'?,<7 ' ;7 ; : '466. .68 .7 '' ; ,<; .<71.1'>'<6'6,<'6. <8 <1.;'7,<6' ;6' / ,V.<6'>.' '178 7,47.'5''E,1; .'>.'1'> / < 671'7 ,<% V'> 67 J4.>.6> 6?,6 7 ,<6?'17 ;45 E.1.6=4 1.<71.<78 '' =4.5=4.6' . J'1>68 >'<6';.55. '= 7.'Q '-' 6 .7>' ; : '1J.' >.' - ,46'?1. 6.<7.1% .' - ' 6 /%'77' ; : .1'> '0, >' '' . , / ' : ''7 1.' ; .7 .6?1 7 . / .1' '>.' - ,71.' ; ,<67 747 ,<' .7'>.' - ,6' ?1 <; ?.6%

,46' >>;1>7>' 4<.' '> / < 671'7 ,<' =.<71'5.'>.6' ?,<76' .7 ; : '466>.6% ' 6' =4 ' - .0 - ,46' .<7.<>4' ?'1' ; .77;''> / < 671'7 ,<' ; ; 71'5.Z' % K '40'7 - .<7 =4.' ; .' 6, .<7 5.'?1. / .1' <J. < . 1'>.6'?,<76' .7 ; : '466. .68 5.6' <6?; ;7.416'J.<>1'4@' ;7 ;' 4 < 671.% .'?1. / .1' <J.G' < .418 5.6' <6?. ;7.416' J.<>1'4@' 1. / ?5' ; .<7 >'<6'6.6' >>.6'1'> / < 671'7 ,<'>.6'?,<76' .7 ; : '466>.6I' 56'6G. / ' ?'1.<7>.'6.6'041. '4@I' 56' 1'??,17.<7 7,47.6' 5.6' 'EM E' 1.6I' 5.' < < 671.'>, 7 7,47 - , 1'?'1'5.416'V.4@8 .7 ; .67 '?1.6' < ' - , 1' 1 .<' -4' =4.'?'1'5.416' V.4@'=4 5' >, 7 >,4<.78 6,46'6'' 1.6?,<6'0 :7>8 5.6' ,1>1.6' =4 5' Q J;1''; ,<- .<'05.6%

U5, 8 Q.'?.<6.'=4.' ' ;7 / < 671'7 ,<' ; .<71'5.'<.'6'4 ' 1' 7 > 7.' ; .5'%'#, / / .' 7,47.6' 5.6' 01'<; : .6'>.'1'> / M < 671'7 ,<' J.<.1'7.8 ; .55.'>.6'?,<76' .5' ; : '466>.6'>, 7 .71.'6,46'5'' / ' <' .7 6,46' <6?. ;7 ,<' 64?.1 .41.'>4' 1, I'5.'1, '>, 7 .@.1; .1'?'1'4<' / < 671.'1.6?,<6'05.% # .67>'<6'5.6'041.'4. ;'>.' ; .' / < 671.'=4.'>, - .<7 1.M ?,6.1'7,46'5.6'>, ;4 / .<76I' ; .67 54 '=4 '>, 7 641- . 55.1' ;7 5.6' : , / / .6' .7 5.6' ; : ,6.6I' ; .67 ?'1'54 '=4.'5.6'5, 6' >, - ; 7 >71.' ; ,<<4.6I' ; .67 ?'1'54 '=4.'5.41' ' ;7 ,<'6.' ?1,?'J.' .7 6 .@>;47.% 4?1.6'>.'54 8 / ' 6'6,46'54 8 6,<7 ?5' ;>6'5.'?1. / .1' <J.< .418 5.6' <6?. ;7.416' J>' <>1'4@8'=4 'E,1 / .<7 ?1,?1. / .<7 '66. / 05>.'>.6'?,<76' %.7 ; : '466. .6%

.77.' '66. / 05>.8 =4 .'7 .55.'?'1'6'' <'741.' .7 >'<6' .6?1 7 >.' - ,6'>.;1.76Z' .'1.4< ,<'> '17 67.6 .?1,4 ' - .6'?'1' >.' J1'<>6' 71' - '4@'8 >;5' 1>6'?'1' 4<.'5,<J4.' .@?.1 .<; .8 >,<7 5.'>.- , 1'8 >,<7'5'' / 66 ,<' .67 >.' Q4J.1' 5.6' ,4 - 1'J.68 >.'> 6;47.1'5.6'?1,Q.56' >.' 1,47.8 >.'<' - J'7 ,<8 >'<6'5.41'1'??,17 ' - . .' '17Q'> .<'1.< ' >1.' ; , / ?7.' '4' / < 671.'=4 '>, 7 .<'1.<>1.' ; , / ?7.' '4' 1, ' .7 '' 5'' <'7 ,<% #.6' '17 67.6' 6,<7 640,1>,<<>6' '' '> / < 671'7 , P8 .7<.'?.4- .<7 .<'>71.'4<.'?'17 .I' 56' .<'6,<7 .6% <6714 / .<768 .7<,<'?'6' 5.6' ,1J'<.6I' 56' >, - .<7 .;5' 1.18 / ' 6' 56'>, - .<7 ,0>1% ' - ,46' 5.6' '66, ; .O' '' ' ;7 ,<' >4' ?,4- , 1' .@. ;47 E8 5.'?,V- , 1' .@. .47 E'6.1''>'<6'5.41'>.?.<>.<; .I' 5'6.1''E,1.>'> '7 ' 7.<>1.'> .4@' .7 5.'7. / ?6' .5'5'' / .641.'>.'6,<' / ,4- . ' < .<7I' 5.41' - ,5,<7.' >.7.1 / <.1'' <>. .66' 1. / .47 5'' 6 .<<.8 .7 5.' / < 671.'<.'6.1''=4 4<' <6714 / .<7 ' - .4J5.' ;7 640,1>,<<>%

% .?1.6.<7.0 - ,<6' .<' .EE?7 ; .' / < 671.'?'17'J>' .<71.' / 55.'?.<6>.6'> - .16.68'?1, / .<'<7>.6'1.J'1>6' <=4 .76' %641'7,47.6'5.6'?'15 .6'>.'6'' - '67.''> / < 671'7 ,<' 8 .7 '' ;97>'>.'54 '4<' ; ,1?6' > <J.< .416'>,4.6'>.' <' / , - ' 0 5 7>'>.6' 7'5.<768 >>?,6 7' 1.6'>.6' / ,V.<6'>.' '178 Q4J.6'>.'7,46'5.6'71' - '4@' ?405 ;68 1'' 7 6>.'7,<6'5.6' <6714 / .<76'<. ; .66' 1.6' ?,41' 5.6' > 1 J.18 ; , / 0 <'<7 7,47>'<6'5.'6V67> / . .7>''<6' .6?1 7>.'5.41'#,1?,1'7 ,<8 ?,4- '<7 <7.1; .?7.1'7,46'5.6E' 7 ' ,4'5.6'>.<'741.1'>'<6' 5.416'1'??,1768 .7> 7.6 / , ' ; , / / .<7 >' / < 671.'?,411'' 6 >; '17.1'>.'5'' / '1; : .'=4 5'' 54 '71' ; .1,<78 ., / / .<7 5'?,411'' 6.' >>E.<>1.' =?6'? >J.6'>,<E 56' - ,4>1' .<7 .<- .5,??.1Z' 1>; 6. / .<7 ?'1; .'=4 5'6.1''1.6?,<6'M 05.8 5'<,1>,<<.1''=4 . ; .=< 56'41,<7- ,45 8 .71 .<' < .@ 67,1'' =4.' ; , / / .' 56' '41,<7 ; ,<J48 ; , / / .' 56' '41,<7>>7.1 / <>%

@ '<.' - ,V.0 - ,46'?'6' ; .77.'5 J'.' =4 '6.'E,1 / .'Z <' / > <. .6?1 78 >.6'?1.7.<7 ,<6' ; , / / 4<.68 >.6'?1>7.< ' 7 ,<6' > '17 67.6'=4 '6'#1 5 . ,<7 7,47 '' ,1J4. 5'>.'5.41' ?1,E.66 ,<8 =4 ' - ,4>1,<7>.6' / ,<4 / .<76''4@=4.56' 56' ?4 66.<7 '77' ; : .1' 5.41' <, /' .7 5.41'J5, 1.8 .7 >.>' '

J<.1,<7 >6' ,4- 'J.6' =4 ' <.' 6.E,<7 =4d,S 6;41> / .<7 47 5.68

, 8Q.'E'.' 6.1''?, <7 46?. ;7 = '<>'Q.' / >5>- .1'' ; .<71.' 5.6'?1.7.<7 ,46'>.6' '17 67.6%' .16,<<.'<# 1.<>' ?546'>.Q467 ; .'4@'7'5.<768 ?.16,<<.' : .>. 6 1.?546'=4.' / , ' 5.416'64; ; .68 5. 1 ' - .1 7' 05.6'64; ; .68 ; .4@' =4 ' 7 . / .<7 E'5''?1,6?.1 7.>.' 7'7% ' 6'?,41' '6641.1' ; .6' 64; ; .6' 5' E'47 6' - , 1'#, :7.< 1' 5.6' '17 67.6'>'<6'5.6'5 ' / 5.6'>.'5.416'7'5.<76% # .67 4<.' / '5'> .'>.67'5.<76'>.' 6.' ?1.E.1.1 '7,47 8 >. ;1, 1.'=4 .8 > 67 <J4>6'>'<6' 4<' J.<1.8 56' ,<7 5.'>1, 7 >.'>, / .1'>'<6'7,468 >.'>>>' ' J4.1' ; .7 .6?1 7 / ,>.67.'> '> / < 671'7 ,<' =4 ' ; , / 0 <.' .7'6 5.<; .8 .7 < '77. >'6'' 1>?<7'7 ,<' .7 6.6' 64; ;>6' =4.' >4'7. / ?68 .5 =4 '' E' 7 4<'?/ 7 ? ' ; ,<6714 7 4<.'> ' J4.' 1.J'1>.1'' .<'? 7 >'4<' #,50.17 ,4' 4< 14>' 4.% .7 ' / >?1 6.1'' - ,6'> 1.;7, .6' .7 - ,6>.?'17. / .<76%

.'<.' - ,46'?'1 .7'5'?, <7>.6'>'<J.16'<,4- .'4@> 4<.' '> / < 67E'7 ,<' ; .<71'5.'7.55.'=4.' Q ; ,4 4 .8, 4'?547,7 7.55.'=4.' '' '>, ?7>.' % K '40'7%

.<.'?'15.1' '?, <7>.' ; .6'714 7>6: ,<7.4@' , :' '1 ' 7 67.' ; : '1J>'>.'> 1 J.1'5.6'71' - '4@' ' - . ;' .<71.?1.<; 1' =4 '5.6' .@ >;47.' 54 ' - .<>' 6,<' ; <.41' .7 6'' 641- . 5 ' 5' . .% 5 .<'>7' 7=4 '?466.<7 ,405Q.1'5.416'?1 <; ?.6' .7 5.416'>.- , 168 ;1,V.0 - ,46'=4.' <7.1; 7 >4' ; ,1?6'<.' Q.77.1' 7 ?'6' 4<' - , 5.'641'5.416'E'47.6Z

68% / .'> 1'' % K '40'78 5.' / < 671.'> 671 04.1'' >, <.88 '4' J1.'>.'6,<' ; '?1 ; .'8 .7 5.6' 71' - '4@' .7 5.6' &,<>6Z' % K '40'7 , 05 .8 <,46' ,407 ,<6'71,?6,4- .<78 ; .'=4.' ; .67 '4Q,41> :4 '=4 4<' / < 671.8 .7=4 ;75.' .67 >7.<>4.'>.'6.6'?, - , 16% .' / < 671.' < .67 ?546'=4.' <6714 / .<7 <. ; .66' 1.'>.'5'' 5, '=4 5' < ''?'6' E' 7.8 .7 =4 5'<.'?.<7 : ' ; : '<J.18 <' / , > 5 ;1% .6'71' - '4@'=4 ' 7>1.66.<7=4.'5.6' '>?'17. . 568 ; .'6,<7 5.6'>>?'1' 7. / .476'=4 '5.6' ,1>, <.478 =4 '5.6'?' .<78 =4 '5.6E,<7 .@>;47.1% .6'71' - ' @'> 44 ,1>1;'64?>1 .4 '=4 ' '??'1' 7 .<4.<7 ' 5'' <'7 , ' 7,47 #<7 >1.8 ; .67 5.' ?,4- , 1' >J 6 '7 7 =4 '5.6' ; , << '<>.8 . .6 ' 5.'7 ;6,1'<'7 , [5' =4 '5.6'?' .I'5.6'E,<>6' <.'6017. 17 >.'5''; ' 66.'?405 =4.' = E.'?'1'4<>. ;1.7 >4' #,1?6' >J 65'5E8 .5 ?,41' .7_T '??5 =4.6' / < >> '7. / .<7 ''Q'', .67 <'7 ,<' = '5G 41' .67 < '1=4>.% .' < < 671.' : >67 5'' =4 4<' < 7 4 / . 7 ;7 / > / .' 5'< .@.1#.'?'6'6 1' ; .'J. / .'>.'71' - '4%@ 4 ; '76' 7c,<' / / .> '7.% .6'> 17.7, 1.6' - . 55.1,<7 ?,41' 54 ' .7 6,46'54 % 56'6,<7 5. ' ,1J'<.6' <. ; .66' 1.6'>4' ?,4- , 1' .@>;47 E' 565.'6,<7 ?'1'5''#,<67 747 ,<8 .7 5' .67 <47 5.' >.' 5.'?1,<,<; .1' .<; ,1.'8 ; , / / .' % K '40'7 ,46' 5.' ?1,?,6.8 ?'1'4<.'> 6?,6 7 ,<'?'17 ;45 .1.'>4' ; ,>.'>.6' ?,<76' .7 ; : '466>.6% ,46' '0,<>,<6' .<'>. ;1.768 ?'1.>' =4.'<,46',405 ,<6'5.6'?1 <; ?.68 .7<,46'641; : '1J., ' ' <,6'5, 6' 7 .'7,46'5.6'7,176'>.' <, 1.' / > / , 1.% 'Q,47.' =4 5' 6.1' 7 ?:V6 =4. / .<7 / ?,66 05.'=4.'5.6' <J>' < .416'8 E;6 <6?. ;7.416'J. <>1'4@'7 66.<7 ?'17 .'> 4<.' '> / < 671'7 ,<' ; .<71'5.'=4 '1>61>.1' 7 '' '1 68 ?4 6=4.' ?'1'>. ;1.76' 56'6,<7'77' ; <.68 ;51' ;4<5'4<' ; .17' <'<, /' 01.'>.'>>?'17. / .<768 , 5' 56'>, - .<7 .@.1; .1'>.6E,<; ' 7 ,<6' : '0 74.55.6%

#, <;54,<6'=4.'5.6' <J.< . 516' .7 5.6' <6?. ;7.416'J. ' <>1'4@'6,<7 5.6' / . / 01.6' .66.<7 .56% >6' / . / 01.6' ; ,<6' 7 74'<76'>.' '66. / 05. .'>.6'?,<76' .7 ; : '466. .68 / ' 6' <,<'?'6'>.' '> / < 671'7 ,<' ; .<71'5.I=4. ; .55. ; ' < .67' .7 5 .'?.47>71.'=4.'5.'?,4- , 1' .@>; 7 E'54 / . / .' .< ' - 1,<<.'>.'7,465.6'>, ;4 / .<768 >.'7,4 5.6' / ,V.176'>.' '178 E' 6'<7 / ,4- , 1'7?46'5.6'71' - '4@'?'1'4<.' / ?45M 6 ,<'?1. / >1.8 >.7.1 / 5<>.'?'1'5''5 %

7'<7 7,47.''> / < 671'7 ,<' '4'?,4- , 1' .@>;47 E8 % K '40'7 - .47 =4.' >66. / 05>.' >.6'?,476' .7 ; : '466>.6' <>4.' 6.45.6<1'5.6'<, / '<'7 ,<68 641' 5.6' 1. <?5' ; . ' / .<76% ' 6' ; .'6.1' 7 0 .<' '5,16' =: .55.'6.1' 7 5'' 7.7;' > 4<.' ; ,1?,1'7 ,<8 .7 > 5 <.' ; ,1?,1'7 ,<' 0 .<'>'<J.G' 1.46.% <>.?#<>'<7.' >'<6' 6.6' ; : , @8 .55.' ; ' ; : .1' 7 <71 J4.'6,46'5.' - , 5.'> 4<6;147 <' / V67>1 .4@I' <45' < '11 - .1' 7 =4 5< .E57Q41.'4<. <- ,5'0 5 7>''4@' '@ ' / .68 '4@' <7>1>768 '4@' '046'>.'5''#,1?,1'7 ,<8 ' 68 / .'>: '' % K '40'78 6'5.'1, ' > 6?,6.'>.6'?5'

N.6 5' E'-.41'5.6 .1'?,15.1' 7,47.6 .7 W7< 1 7.'6.1' P4O5 ,4-.<,<6 <,<6 >,<.'=4.' 5.' 1, =4.'5.' / ' ' 67 . =4.'5.;, / 1' 66' 1.'>41, 6 5 V '4<;, / 6 ' 1.'>''1, '6,46 5.' / < 671. < ' 1,<7 >.';:, @'E' 1.' Q4 .<51.'>.6 7'5.<76 .><<46 .7 >.6 / >1 7.6 .?1,4-.6 <' / < 671.'.<-1,<< >.';.<6.416.7 >.<<./ 6 7,4 ' ,416 >.<,<.> ?'1' 5.6 ?1>7.<7 ,<6 .7 5.6 .6?.1'<;.6 1, / ?>.6 7,4Q,416 >? '?'1' '66./ O5>.'>.6 ?,<76 .7 N:'466>.6 .77,41 / .<7>'?'1' 5.6 >.?'17./ .<76 6.1' ' 7 5 O .< ?,17>'' >;,47.15''E'1.41Z'#.15' <./ .<7 5< .' 5 1,4-.1' =4 4<.'6;14?45.46.' <=4 >74>. .7 ;.' =4' 5' 6' 7 '471.E, 6 5' Q,4 66'<;.'>.'6' ?5';.' .< 6.1' 5.' 7,41 / .<7 .7 .EE1, ' < ' 1' ?, <7 ;, / / .'4<;,1?6 <J>< .416 5.' >1, 7 >.'> 1.I -0

F '5 & V 1

k 6.1'>,<.',O5 J.'>.';,<6<57.1'5.6:, / / .6 >;5' 1>6' 5.';,<6457.1'5'1.?47'7 ,< .7 6417,47 5. ' 64;;>6 =4' '.'71, / ?.<7 ?, <7 5.67>.6 / 'J <'7 ,<6=4.'5.6?.;71.' .'#. >.6?,7 6 / . =4 '< .67 ?546 >?,4-'47.' .<;,1. <1>V.' .<;,1.'5.6 <71 J4.6 5.6 ;'O'5.6 .7 7,46 ;.6 / ,<671.6=4 >>6,14 ' 6,<7>>6.17>5.6 ;'O <.76 >.6 / \ < 671.6 #1' J<,<6 ?547>7 =4 56 <.'6.';'; .<#'4' / 5 .4 >.';.4@ =4 '.< E41.<7 5.6 - ;7 / .6 .7 =4 4<Q,41'<,6 <67 747 ,<6>.J><.1>.6<.'>.- .<<.<7 >.' 5' <.<7'O5.6 64Q.7 '>.'>>;5' / '7 ,< 5 E'47 ,6.1> 1.'5' >1 7> 5.67 7./ ?6 .<E < =4.'<,46 <.71' 7 ,46 ?546 5.6 / < 671.6 >.' 5'<,4-.55.';,<67 745 ,< ;, / / .'5.6 7V1'<6 >.' '<; .< J,4-.1<./ .<7 .'?,41, 1'.67 <47 >'<6 >.6 / ' <6 =4' <.'6,<7 ?'6 '47,1 6>.6 ?'1'5' ;,<7 '<;.'?4O5 =4. 5 <.'?.<7 ?'6 ;:, 6 16.6 'J.<76 6 '-,46 <.'54 '5' 66.O ?'6 <<.'5'7 74>.'1' 6,<<'O5.'>'<6 5'>>?.<6.'>.'6,<>>?'1' 7./ .<7 5 E'47 =4 5 'O'<>,<<.6,< ?,67. ,4 = 56, 5 5.'?546 >;:..75.?546 <.?7.'>.6 / < 671.6

#,5O.17 <.'E47 ?'6 4< 6'1'<7I =4' / . @=4.'#,5M O.17 647 .<;,41'J.1'5.6 6; .<;.6 .7 / .771.'5.6 6'-'<76 '5.41'->1 7'O5.'?5';.'Z 14>' <.'< >7' 7 ?'6 4< '17 67.N 5< .<'-' 7 ?'6 5.6 ;,<<' 66'<;.6 / ' 6 5 647 .1>.1'5.6 '17 67.6I .7 '?1.6 5.6G' E5 1' .1>>6 5 647 5.6 ./ ?5,V.1' .7 5.6 ;,<5.< 1 .'?.<6.'>,<.'=4.'1'> / < 671'7 ,< ;.<M 71''5.'>, 7 >71.'7,47.<7 1.'>'<6 5.6 / ' <6 >4 ?,4-, 1' .@>;47 E 6,46 6'1.6?,<6'O 5 7> .'?'66.' '4@ '471.6 > 6?,6 7 ,<6 =4 ,< -,46 ?1,?,6.'>.',>.1>7.1

.O14< ;, / O'7 64;;.66 -./ .O7 7,46 5.6 >>7' 56 >4 ?1,Q.7 >.' >>;1.7 >.' K '4O'7 + 66./ O5>.' '??5'4> 7 .7 ,1>,<<.' / ?1.66 ,< >.';.'> 6;,416

B 'N '<6 ;.'=4 ';,<;.1<.' '> / < 671'7 ,< >.6 ?,<76 .7 ;:'466..6 Q.'> 67 <J4.'5' ;, / ?7'O 5 7>'>.' .@'1'.< .7 >.' '??1,O'7 ,< >.6 71'-'4@ 34'<7 '5' ?1./ .1.'?'17 . Q.';,<- .<6 =4 .55.'>, 7 >71.''771 O4>.' '4 / < 671.I / ' 6 >, 7 ,< '771 O4.1' .@' / .< >.6 71'M -'4@ '> '471.6=4 '4@ J.<6>.5 '17Z'>, 7 ,<8;, / / .' '471.E, 6 5 -1.1'>.6 71'-'4@ >.';.77.' / ?,17'<;.' '4@ ;'?1 ;.6 > 44 / < 671.'=4'<.'6 V ;,<4'57 ?'6Z .'?1>, <'<7 -,46 ' > 7 =4.'5.6 '17 67.6 =4 ';,< ? 1' .<7 '> / < 671'7 ,< ;.<71'5.' <.'Q4J.1' .<7 5.6 71>-'4@ =4 '4 J1.'>.'5.41' / O 7 ,< .'-, 7 ,< ?'6 =4.'7,47.6 5.6 E, 6 =4 5 V'41' 'E' 1.'=4.5=4.6 71'-'4@ / ?,1' 7'<76 5.41'.<71.?1 6.'6.1' 6,55 ; 7..'?'1'7, 6 ;.4@>.6 '17 67.6 =4' ;:.1;:.<7 5'1.<, / / .. .7 =4.'?'1 / '7'47 >.';,<;411.<76 5.' ;:, @>4 / < 671.'<.' ?,411' >71.' > .7> =4.'?'1' ;'E'-.41',4 ?'1'5' ?1.-.<7 ,< ?4 6=4 5 <.5.'6.1' ?'6 ?6 15';,<<' 66'<;.'>.' '17Z' .'>./ '<>.' =4.1'> / < 671'7 ,<;.<71'5.>.6?,>76.7;:'466>.6 6, 7 ;, / ?,6>.>4 ?1./ .1' <J.< ;41_.7>. <6?.;7.416 J>' .1'4@

' / .5 ,J'1.7 ?1,?,6.'4< <,4-.'4 ?1,Q.7 >.' >>;1.7 641' ,1J'4 6'7 ,< >.' '> / < 671'7 ,< ;.<71'5. '6>'<;.'.67 5.->.''> @ :.41.6

' ' ' ' ' P

' 'N ' .67 .45 < 7./ ?6 =4.' 5.6 >>;1.76 >,' 1 66. O5>.'<'7 ,<'5.'<.'6, .<7 ?'6 >.' -' <6 >?,4-'<' 5' 56 .'> 6<' / 5;'=4 .55.'?1,<,<;.'=4.' , 6 ,6.?:

K,41O ,< ' .<;,414'5'?. <.'?,17>.'?'1'5.'>>;1.7 >4 ' I 5 ' >,' ' <7 .'< > <J.5VN ,16=4.' 66./ O5>.' ?1,<,<.> 4 <.' ?; 4.' 6>-.1. 5 E'47 ,< =4 .55.'5' 1>71';7. 6 ' .55.'.67 <Q467. ,4=4 .55.'.< ?,4164 -.' '-.;'E,1;.' .@>;47 ,< .'>./ '<>.'=,.5.' ;, / 7.'> ?5, / '7 =4.'E'66.'>./ ' < 4< 1'??,17 641;;7 ,OQ.7 .7 =4 5 6 ,;;4?.'>4 71' 7./ .<7 E' 7 2' 4' -.V1 ;1

' 1, 6; 7,V.<6 ?,17.416 4<.'?; 7 ,< 1.->74.'>.'71, 6 ,< =4'71.';.<76 6 J<'741.6 >.' / '<>.<7 '>71.''> / 6 ' 5' O'11.

' + 'I #.77.' ?>7 7 ,<.67 1.5'7 -.>'5''> 671 O4M 7 ,< ;7 ' 1>;:<<J.'>.6 ?.7 76 '66 J<'76 #.6 ;7,V.<6 >7' .<7'1.;4. 5 1>.66 J<'741. Q ,16=4.'??1.<' =4.' -,46 >.- .O -,46 ,;;4?.1' '4Q,41> :4 '>.6 ?.7 7.6 / ,<' <' .6 56 6,<7 -.<46 ?,41'6.'?1>6.<7.1' '1 66./ O .. 66./ O5>.' >.;>.' =4.' 5.6 ?.7 7 ,4<' 1.6 6.1,47 '> / 6

,K E ' ' ' 'N ,46 -.<, '>><,<' ;.1''-,71.'6,55 ; 74>;' 'O46'5.'?546 ;1 '<7 5.'>>6,1>1.' 5. ?546 ?1,?1.''1.<-.16;1'5'#,<67 747 ,< .6'66 J<'76 >.' ' 5 - 5' / ,<<' .'>.';4 -1.'>.- .<<.<7 5' ?7, .' >.6 '<; .<4.6 6'<J64.6 >.' 7'7 '<7 =4.'5.41' 1'E;' / .1;.<' 1.'< '?,17>'=4.'641' 5.6 J.<6 ' 6.6 5.' / '5' >7.'. E1'V'<7I / ' 6 =4'<>' 5 ?,17.'641'5.' <>..66' 1.'>4 ?'4-1. =4 '6'57 , :';.'>>6,1>1.'?.47 ?,17.1'5' ?'71 ;Z 5 >41.1' 7'<7 =4.'5.'<4 / .1' 1.' <.'7, / O.1' ?'6 '5' E, 6 ?'1'7,46 5.6 ;'<'4@>'<6 5' ; 1;45'7 ,< ;,<<4;' 4<.'1,6>.'6'547' 1.I 7'<7 =4.'5' > 671 O47 ,< < .< 6.1' ?'6 ;,<5 ..'>.6 / ' <6 ?41.6 ,46 '-.O '771 O4>';.77.' > 671 O47 ,< '4@;' 66.6 ?4O5 =4.6 4 / 5 .4 >.' -,6 / / .<6.6 71'-'4@ -,46 '-.O ?4' >71.' <>4 76 .< .1' 1.41 ' 6 ;.6 ,E7 ; .16 ?4O5 ;6 <.' 6,<7 56 >,<.'?'6 >.6 :, / / .6 ;:, 6 6 >'<6 5.6 '4; .<<.6 ;, / ?'J< .6 >.' E <'<;.6Z 4??,6,<6 .<;,1.'=4.'7,46 5.6 ?'V. 16 >.6 1.<7.6 / >1 7.<7 5' ;,<E '<;.'>.' 66./ O5..'<'7 ,<'5. <,46 >?,<>1,<7 56 =4.' ;416 ;, / / 6 =4.' .416 ;' 66 .16 =4.'7,46 ;.6 'J.<76 64O'57.1<.6 ';;,474 / .6 ' 'J ,7'J. <.'6';1 .<7 ' 4< 6,1> >.' <7>1>7 5' E,1M 74<.'?4O5 =4.'Z .6 ?.7 76 '66 J<'76 6.' -.4>.<7 ''<6 5.<16 ;' 66.6I 56 ?.4-.<7 6 V -.<>1.' / ?44> / .<7 .6 1.<7 .16 5.6 ;1>'<; .16 >.' 7'7 ,<7>.6 J.<6 > 'EE' 1.6 >.6 E,<>>6 >.'?1,;41'7 ,< # .67 >'<6 5.6 / ' <6 >.';.6 <7.1 / .> ' 1.6 =4.6 >#,45.<75.6 ?.7 76 '66 J<'76I.5 5.' 6' <7 >.' 7'7 .67 .<;,1.'>'<6 5.6 / ' <6 >.6 '<; . 6 'J.<76 >.'E <'<;.6

.6 <> / .6 <;,<-><.<766.E,<76;<7 1>'<6 >.:'<J.' >.'5' / ,<<' .>.';4 -1. <.'6.45;';' 66.'.67 , -.17. .7 ,< V .@ J.'>.6 E,1 / '5 7>6 / / .<6.6I ,< =4 75.' ;.77.' ,>.46.' ;' 66.' .< / 41 / 41'<7I ,< 6.'>./ '<>.' ;, / / .<7 66./ O5..'<'7 ,<'5. =4'<.'6 .67 / .5..';' '4.4<.' / '<>1.'>.' .7'O5 6] . / .<7 >.6 ;' 66.6 >.6 >.M ?'17./ .<76 '>7'O5'.55. / > / .;.55.>.' '1 6 ,46 54' >./ '<>, '=4 .55.'E'66.'E' 1.';.7 .;:'<J.'?'1'5.6 U) ;, / 7>6 >.'6.;7 ,<6 .6 ;, / 7>6 <.'6,<7 ?'6 ;, / / .' ,< ' > 7 =4'1'<7. :4 7 ;, / ?'J< .6 >.'E <'<;.6 56 6,<7 ;, / ?,6.6 >.' ; 7,V.<6 <, / / >6 ?'1'5.' ?.4? ;I <,46 ,5E1,<6 <,6 E,174<.6 <> - >4.55.6 ?,41'J'1'<7 .' >.'5.41' '> / < 671'7 ,< '1';. / ,>.'>.'> 671 O47 ,< 5.';7,V;< =4 '1'??,17.1' 4< '66 J<'7 >.' '5 - >.'6,4 71'-' 5 <.' 6.1' ?'6 ,O5 J.'>.'?'V.1' 4< J1,6 <5.1>7 ?,41 .;:' J. ,4 >.'?'66.1' 5' Q,41<.'>4 5.<>.' <' < ' 5''; ' 66. .6 ;, / / 66' 1.6 >;'6.;7 ,< 6,<7 >.6 :, / / .6 >>-,4>6 >.?4 6 ,<J7./ ?6 ' 5' 1.-,547 ,<I .7 ;, / / .'<,46 <,46 ;,<<' 6 6,<6 7,46 >4<6 <,6 6.;M 7 ,<6 5 .67 / ?,66 O5.' =4 ' ?4 66.<7 / '5-.16;7 >'<6 ;.77.'> 671 O47 ,<

B>7.O -,46 >.'?,17.1' 4< 1./ '>.' '< / '5 =4.'<,46 -,46 '-,<6 >.<,<;. .7 =4.'<,6 .<<. 6 =4 ',<51>' 6.1->'7,47.6 5.6 '77'=4.6 ?,41' ;.' / , / .<7 >>;6 E <' .<7 ?'6 .6?.1'<;. >.'E' 1.'1>71.J1'>.1'5' 1.-,M 547 ,<

'34'<>'5.6 .EE,176 >.6 7<'4-' 6 ; 7,V.<6 ' ,4 5' ;4? > 7.'>.';. @ =4 <.

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ˁ6.ˁ; ,<?1 / .ˁ .ˁ?546ˁ .< ?546ˁ =4.ˁ5.6ˁ ; ,55.J.6ˁ .5.;ˁ 7,1'4@ˁ <.ˁ >, -.<7ˁ ?, <7ˁ ?; .<>1.ˁ4<.ˁ>.7.1/ <'7 ,= 41 E,1/ .ˁ' -'<7ˁ =4.ˁ . <?.1.41ˁ ' 7ˁ . / 01'66.ˁ4<ˁ?' 7ˁ =4.5; ,<=4.% '76ˁ ?'1; .ˁ =4 56ˁ <.ˁ 6,<7ˁ ?'6ˁ > ' ; ; ,1>ˁ 6 1ˁ5.6ˁE,1/ .68ˁ ,<ˁ5 .ˁ>, 7ˁ?'6ˁ .<ˁ; ,<;541.ˁ =4 56ˁ6, .<7ˁ > - 6 6ˁ641ˁ5.ˁE,<>% ?ˁ < " >,<.ˁ ?, <7ˁ >7>ˁ641?1 6ˁ >.ˁ L?1ˁ =4.ˁ5" > .7.ˁ< ' 7ˁ?, <7ˁ?'17'J.ˁ5.ˁ-,.4ˁ>.ˁ . ,?,5>88ˁ =4ˁ ?1,?,6' 7ˁ) ˁ ˁ ˁ ˁ ˁ$ *ˁ .7ˁ >.ˁ 7.1/ <.1ˁ 'E ' 1.ˁ >.6ˁ ?1 <; .6ˁ ?,66.66 ,<<.6ˁ?'1ˁ >;6ˁ -, .6ˁ'1' '05.6.7ˁ?' 6 05;6% <ˁ.E5.78ˁ ,< .67ˁ?.164'>.ˁ >'<6ˁ 5"> .7.ˁ>.ˁ 11 6,547 ,<ˁ>.ˁ . / ?.1.418ˁ?5 '<7ˁ '4ˁ ?'17ˁ >.ˁ1 J4.41ˁ I ˁ .7ˁ5" >.7.1/ <'7 ,<ˁ>.ˁ / ?1.ˁ .67ˁ '77';c ..ˁ '4ˁ ?5'<ˁ =4.ˁ5" / ' 6,<> 471 ; : .ˁ'>,?7.16% ,5" ?,41=4, ˁ >.ˁ6.?7ˁ .5.;7.4168ˁ .<<.ˁ; , / ?-.<'<7ˁ ?'6ˁ ; .54ˁ >.K, : / .8ˁ71, 6ˁ >.6ˁ ?1 <; ?'4@86ˁ'-, 18; .4@ˁ >.ˁ '@.8ˁ >.ˁK1'<>.0,41Jˁ .7ˁ >.ˁ B'<, -1.8ˁ < ,<7ˁ ?, <7ˁ >,<<.> '- 6ˁ?,415.ˁ ˁ ˁ'11.7.ˁ"5" > .7.ˁ5.ˁC ˁ>.ˁ; .ˁ / , 6% < <.ˁ; ,<<'57 .<; ,1.ˁ=4.ˁ .@ˁ 1' 7ˁ>.ˁ; .ˁ ˁ71.6ˁ <E,<<.8ˁ=4ˁ .67ˁ?'17,47% ˁ Vˁ.67> 7ˁ=4.ˁ%W 4 6=4 5'??.15ˁ=4.ˁ5"H1'<; .ˁ< '<455.ˁ .<- .ˁ>.ˁE' 1.ˁ>.6ˁ1.67 747 ,<68ˁ .7ˁ> ,EE1 1ˁ / . / .ˁ4<ˁ>.ˁ >, / / 'J. / .<7ˁ 64EE 6'<7ˁ .<ˁ 7.11E , 1.ˁ .7ˁ .<ˁ 64Q.76 8ˁ5" > .7.ˁ1.Q.77.ˁ?5. <. / .<7ˁ&,47.ˁ-, .ˁ>.ˁ; , / ?,6 7 ,<I

\ˁ34.ˁ; .?.<>'<78ˁ?,41ˁ .?4 6.1ˁ7,46ˁ5.6ˁ / ,V.<68ˁ ,<ˁ ˁ>.ˁ?546ˁ71,4-.ˁ0,<ˁ.7ˁ1.6,54ˁ=4.ˁ % % %ˁ6.1"1.=4 6.ˁ ?'1ˁ / ?1.ˁ'66. / 05.ˁ>.ˁE' 1.ˁ>.ˁ<,4-.55.6ˁ1.?1 ` .<7'ˁ 7 ,<6ˁ64I% % 8ˁ 3%

<ˁ 64??5 .1"ˁ71.6ˁ :< / 05. / .<7ˁ % % %8ˁ >'<65 '- 6ˁ >.ˁ / ?1.8ˁ=4 5ˁ54ˁ'?5' 6.ˁ> .<Q, <>1.ˁ"7,46ˁ5.6ˁ ; .1ˁ ;5.6ˁ .7ˁ .5'76ˁ>.ˁ; , / ?5.7.1ˁ>4. '.<7ˁ5.416ˁ71,4?.6 8ˁ'E< >.ˁ?,4V, 1ˁE,41< 1ˁ <; .66' / / .<7ˁ5.41ˁ; ,<7 <J.<7ˁ ˁ Aˁ ˁ?,41ˁ>.E.?>-g .E57; ' ; . / .<7ˁ5"> J< E,ˁ>.ˁ . / ?1.ˁ J.1 <'< =77?8ˁ E,< '7 7,1 7.ˁ .7ˁ6.6ˁ>1, 768ˁ .<ˁ .70?5,V'<7ˁ 7,47.6ˁ5.6ˁ / .6<1.6ˁ'47,1 6 .6ˁ?'1ˁ5.ˁ>1, 7ˁ>.6ˁJ.<68ˁ6

.ˁ:4 7ˁ.5. ; 7.4168ˁ ; .4@ˁ>.ˁ K, : / .8ˁ>.ˁ '@.8ˁ >.ˁ E'<>.0,41Jˁ .7ˁ >.ˁ B'<=-1.ˁ =4ˁE,<<.<7ˁE,6ˁ?1<; ˁ ?'5.6ˁ?4 66'<; .6ˁ >.ˁ 5. ?'J<.8ˁ6.ˁ6,<7ˁ> 6?.?6E,ˁ&f.ˁ ,<<.1ˁ5.<1ˁ '- 6%

ˁ .67ˁ; .17' <ˁ=4.ˁ . / ?.1.41ˁ97'<78ˁ>9; > 8ˁ5.6ˁ; : ,6.6ˁ 1' .<7ˁ?546ˁ - 7.% ,46ˁ ;1,V,<6ˁ ; % D=4.ˁQ,16ˁ>.ˁ5" E4 7.ˁ>.ˁ , 6ˁ " ˁ5.6ˁ; ,<E.>.196ˁ< '-' .<7ˁ?, <7ˁ .<M ; ,1.ˁ '1, .<9ˁ . ,?,5>ˁ " J,47.1ˁ5.416ˁ ?1,Q.76IˁCD =4.ˁ 5,1>ˁ 5J <ˁ .7ˁ % K 66; : ,E6[.1>.1ˁ< ,<7ˁ .7.ˁ 71,4-.1ˁ % % % .<ˁ 7ˁ5 ;ˁ =4.ˁ?,41ˁ; ,<E.1.1ˁ641ˁ>.6ˁ / .641.6ˁ 1.5'7 - .6ˁ"5"H1'<; .8ˁ.7=< 56ˁ<.ˁ6,<7>'<6ˁ; .ˁ / , / .<7ˁ " .<<.ˁ=4.ˁ?,41ˁ7.1/ <.1ˁ" ; .7ˁ J'1>%

34.5=4.6 4<6ˁ >.ˁ<,6ˁ ?1 <; .6ˁ '55. / '?>6ˁ <.ˁ -, .117 ?'6ˁ 71'<=4 55. / .<7ˁ7,47.6ˁ ; .6ˁ 01,4 55.1 .6% 56ˁ6'-.<7 =4.ˁ7,47ˁ; .; .67ˁ / .<.ˁ?'1ˁ>.6ˁ <71 J4.6ˁ=4ˁ6.ˁ ;1, 6.<78 '1ˁ .@. / ?5.8ˁ5.6ˁ ?1 <; .6ˁ>.ˁ H1'<; .8ˁ ,47 4<ˁ ?'17 Iˁ5.ˁ ; : '7.ˁ'4ˁ>.6ˁ 4 5.5 .6ˁ.<ˁ'-' 5ˁ4<ˁ'471.8ˁ# .67ˁ5" 6.45.ˁ / '< .1.ˁ > .@?5 =4.1ˁ5" / '4-' 6.ˁ1. ; .?7 ,< =4 '1 7.ˁ E' 7. .< . / 'J<.ˁ " % >.ˁ K,4 55.Iˁ ,<ˁ'6641.ˁ / . / ,ˁ =4.ˁ %ˁ5.ˁ?1 <; .ˁ>.ˁ! ,7E>.ˁ< "?'6ˁ-,454ˁ-, 1ˁ; .7 ,EE ; .1% .ˁ-=46ˁ>1' ˁ?546ˁ .<; ,1.8ˁ .ˁ7 .<6ˁ> 4<ˁH1'<; ' 6ˁ 71.6ˁ'77'; : ˁ '4@ˁ?1 <; .6ˁ>.ˁ6,<ˁ?'V6ˁ=4.ˁ % 5.ˁ0'1,< >.ˁK1.8%%%58ˁ >,<7ˁ, <<ˁ"?, <7ˁ?'1E,ˁ>'<6ˁ ; .77.ˁ' 5' 1.8 '-'Q7ˁ 1.6=4.ˁ>1 J..ˁ"ˁ 54ˁ 7,=7ˁ6.458ˁ?.ˁ=4ˁ "E' 7ˁ'4ˁ% ; ,.41ˁ>.6ˁ#,<>.ˁ.5ˁ> 17, 7ˁ4<.ˁ ?5' .ˁ?1,E,<>.% .ˁ - .<6> .1 1.ˁ " ?'8ˁ ,>5.ˁ0'1,<.67ˁ'; 4.55. <.<78ˁ?,41ˁ .<ˁ'??1.<>1.ˁ>'V'<7'J.8ˁ6 5ˁVˁ " / ,V.<% 1

ˁ6 .<ˁ E'47 0 .<ˁ =4.ˁ7,<7ˁ ;?;ˁE,7E,0 .ˁE7 E7 >56> <ˁ

Fˁ ˁ ^T< ˁ' .ˁ I

<,46ˁ / '<>.ˁ>.ˁH1'<; .ˁ=4.ˁ5.6ˁ?? <; ?'4@ '17 ;5.6ˁ >.ˁ 5" ;0'1 .ˁ; ,<67S747 ,<<.55.ˁ6.1,<7ˁ; , / / 4< =4.6ˁ " ?54ˁ 6 .416ˁ ?4 66'<;76ˁ ?'1ˁ5" -= .ˁ>.6ˁ?1 <; .6ˁE1'<; ' 68ˁ.7ˁ =4 4<ˁ / '<>'7' 1.ˁ5.41ˁ'11 -.8ˁ ,4ˁ>.6ˁ; , / 7 6 <.J, ; ' ˁ 5.416ˁ6. ;1.76ˁ&: ,16ˁ>.ˁ 66. / 05.Pˁ ,<ˁ>=ˁ ; : '7. '4ˁ>.6ˁ 4 5.1 .6P8

<ˁ .;1 7ˁ>.6ˁ 'V6 K'6ˁ "8 <,46ˁ '471.68ˁ=4ˁ?,4-,<6ˁ =4.5=4.ˁ; : ,6.ˁ ; 8ˁ>.ˁ?1.<>1.ˁ?'7 .<; .8 .7=4.ˁ 66. / ˁ 05..ˁ<'7 ,<'5.ˁ.67641ˁQ.ˁ?, <7ˁ>. E' 1.ˁ>.6ˁ6,77 6.6% , 5ˁ <> 6;1.7 ,<ˁ8 6 7ˁ; '5, / < .8 5ˁ?'1' 7ˁ=4.ˁV,6ˁ?1 <; ˁ ?'4@ˁE4J 7E6 ,47>.6ˁ5 ' 6,<6ˁ'- .ˁ>.6ˁ?'71 =7.6ˁ =4ˁ <.ˁ 6,<7ˁ?'6ˁ 11 ?1, ; : '05?6%%% .ˁ6' 68E7 < .?7 ?,4V, 1ˁ>,?ˁ 7.18ˁ=4.ˁ ,??5>ˁE7 .4ˁ>.6ˁ / ,46. / .<76> / ?'7 .<; .ˁ.7ˁ / 1, .ˁ>.ˁ; =5;1.8 =4E7?>ˁ\f "ˁ'??1 6ˁ5.ˁ1.7,<1ˁ6ˁ .71'<J.ˁ >.ˁ ,4 6ˁ " ˁ " '1 68 55ˁ " ;1' <7ˁ6'<6ˁ>,47.ˁ ?,41ˁ5" 1. <.8ˁ6"6; .41I ˁ5.ˁ?1 <; .ˁ>.ˁ a'4<7Oˁ & <E,1 / .Oˁ\ -,46ˁ 05.< >.ˁ; .77.ˁ?'17 ;45'1 7.ˁ 1.6ˁ.66.<5 .55.Qˁ " .ˁ ,1>1.ˁ > ;151.ˁ 41 5. .;75E, ˁ " 66. / 05..ˁ<'7 ,<'5.8 % #5,41ˁ1. ; , / 7<E74>.1ˁ&.<ˁ?< ?,-.41Pˁ5"1. <.ˁ'4G5.J 6 % " '7.416ˁ >.ˁ ŒE7 c 1'<; .% ˁ 5" 5.571? " 7.?.1 7.8 ;1 V.O =4 .55.ˁ .67 '-1 - .ˁE7 6,< '>1.66.% ˁ 66. / 05..ˁ.<ˁ" J'1>.ˁ5.ˁ6. ;1.78ˁ / '<>.0 5. / = 8ˁ.7ˁ?,41ˁ; '46.%%%% ,< ,?< ,<ˁ .677,4Q,416ˁ=4.ˁ5"H1'<; .8 '- .ˁ>.6ˁ> 6?,6 M 7 ,<6ˁ>.ˁ>.E.<6.ˁ'466ˁ-'67.6ˁ=4.6.6 1.66,41; .68ˁ<.ˁ6.1" ?, <7ˁ '57'=4. ˁ' - '<7 .?,=4.ˁ ,< ; .ˁ6.1"4<.ˁJ1'<>.ˁ / ?14>.<; .ˁ>.ˁ54ˁ>. ;5'1.1ˁ5"J4.11.8 .7;% ˁ .7;%

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ˁ * + .6K.1<, 68?,41ˁ0'5'<M ; .1ˁ <E54.<; .>.ˁ5'Q, .ˁ=4.ˁ5"ˁ?54?'17>.6?.7 7.6- 55.6ˁ ,<77. / , J<..'5 .?,=4.>.5"<,4-.55.ˁ>4ˁ1.7,41ˁ>41?ˁ " '1 68 .7 " '<< - .16' 1.ˁ>4ˁ UQ4 55.78 ,?7 .<J'J.ˁ5.%Z ; : .E6ˁ >.6ˁ =4' 1.ˁ?'1, 66.6%>.ˁ '-'4>8ˁ1.66,17 66'<7.6ˁ >4ˁ0' 55 'J.ˁ>.ˁ '46'<<.ˁ8ˁE,1 / '<7 .<6. / 05.ˁ=4'71.ˁ 0'<<.1.768ˁ=4'71.ˁ ;0 7.5' <6ˁ .7 =4'71.ˁ 6. ;1.7' 1.68 " 4<.ˁ >. / '1; : .ˁ> .>'7%ˁ #.E7 J.<6 ; 8 =4ˁ6,<7ˁ>'<6ˁ5" >.?.<>'<; .ˁ>.6K.1<, 68ˁ>.ˁ=4ˁ 567 ;5 <; <75.41ˁ?,67.8 .7ˁ=4;5=4.6ˁE'-.416ˁ 7ˁ?1 @ˁ> '1J.<78ˁ6.ˁ6,<7ˁ'66. / 05.6ˁ 6. ;1.7. / .<7ˁ?,41ˁ?1.6.<7.18 " <64ˁ / . / .ˁ>.ˁ5.416ˁ ; / / 4<.6ˁ1.6?..7 - .68ˁ4<.ˁ '>1.66.ˁ'4ˁ0' 55ˁ>.ˁ '4M 6'<<.8ˁ>'<6ˁ5'=4.55.ˁ760 E,<.<75" ., <>= 7.ˁ - 55.6ˁ =4ˁ ,<7ˁ; .5.01.ˁ7"5 0. ;c E1'<ˁ'76.% , ; ; .77.ˁ9c 1.4J.ˁ '>1.66.Nˁ

, ˁ ˁ ˁ ˁ & ˁ

ˁ ˁ ˁ ˁC ˁ

5554671.68ˁ: '4568ˁ?4 66'<7ˁ.7ˁ6,4-.1' <6ˁ6. J<.4168

.6G; ,<6. 56ˁ >.6ˁ =4'71.ˁ ?'1, 66.6ˁ >.ˁ '-'4>8ˁ-,6Fˁ 71.6ˁ6,= / 6ˁ.7 .6E># .ˁ64Q.768ˁ'V'<7ˁ'??1 6ˁ'-.;ˁ641M ?1 6.ˁ ==.ˁ ?546 .4-6ˁ <> - >46ˁ >.ˁ - .16.6ˁ - 55.6ˁ >77ˁ ?'V6ˁ>.ˁ '4>ˁ,<7ˁ'5E.; 7.ˁ?'1ˁ>.6ˁ / 7. .?405 =4.68ˁ5.68ˁ Uˁ.7 ˁ ˁ ; ,41'<788>.ˁE.5.?1.1ˁ .?,=<=>" E' 56ˁ# 1'<J.16ˁ ; .ˁ?'V68ˁ'-.ˁ>.ˁ>. / ,<671'7 ,<6ˁ; '?' Ÿ 0E,6ˁ>.ˁ71.405.1ˁ5"71'<=4 55 7.ˁ?405 =4?8ˁ>,<71 .6ˁ>.M 7' 56ˁ< '41,<7ˁ?'6 / '<=4>ˁ> .71.ˁ < 6ˁ6,46ˁ5.6ˁV.4@ˁ>.Aˁ -,6ˁ.@; .55.<, .68ˁ?1.<<.<7ˁ:4 / 05. / .7075' 5 0017.ˁ>.ˁ5.6ˁ '6641.1ˁ =4.ˁ>'<68ˁ; .6ˁ =='71.ˁ Q'1, 66. ˁ>.ˁ '-'4>ˁ 5ˁ %< .@E77.ˁ' . [.6?1 7ˁ>.ˁE' .77. , 8ˁ>.> ; .<; .ˁ .7ˁ> <>.ˁ E #<>'<; .I%=4 ' [ˁ; ,<71' 1.8 6ˁ ,4V'<7 "5 0.1E,ˁ>,<7ˁ .55.6ˁQ,=Q66; <78 .7ˁ5.ˁ0, <: .41ˁ UDˁ- V1.ˁ 6,<6ˁ - , 1.ˁ6'J.ˁ %J,4-.1, . / .<78ˁ<? ˁ6.45. / .075.41ˁ5,V'<7.8ˁE >.5 7Vˁ.7ˁ 6,4 / 66 ,< 6,?7ˁ <'57.1E705.68ˁ / '76ˁ=4 .55.6 6=<7ˁ?1.7 ˁ "1.?,46' .1ˁ7,47.ˁ.<71.?1 6.ˁ=4ˁ3ˁ6.; ' 7ˁ; ,<71' 1.8ˁ'7ˁ"ˁ8 V.16.1ˁQ46=4 " ">.1< .1.ˁJ0 77.ˁ>.ˁ5.41ˁ6'<Jˁ?,41ˁ>.ˁ E,<>1.ˁ .7'7ˁ .7ˁ5.ˁJ,4-.1<. / .<78ˁ?,4 `5"?1,6c .1 E,ˁ >4=4.5ˁ .55.6ˁE,<7ˁ5.6ˁ -;<46W .6ˁ?546ˁ'1>.<76ˁJ' <67ˁ <<41ˁ7,46ˁ5.6ˁ / . / E'1.6ˁ ,4ˁ5.ˁ. 'E,<, ' .<7 +ˁ 9#

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,<6 .41' .7' 71.6' 754671.' ; , E1 ` 1.8' ';'> / .'>.6' 6; .<; .6' / '' ; : '1J.'>.' - ,46'.@?1 / .1'5''>,45.41'>,<7' .55.''>7>?>< 71>.'<'1. ; 7>.'5'' ?.16>;47 ,<'>,<7' - ,46' '-.0'>>'5'' - ;7 / .%' 55.'6.<7'7,47' ; .'=4 ,<7' ?.1>4'5.6' 6; .<; .6' ?'1' 5''>.6714;7 ,<'>.6'71'-'4@'=4.' - ,46' '1 .0' ?1>?'1>6' ?,41' .55.%' #.' < .67' ?'6' - ,46%' ,<6 .418' =4' .7.6'U'?5' <>1.N' - ,71.' - .174'.7' - ,71.'J>< .- ,46'1.67.<7I' .7' 5'< .67' ?'6' '4' ?,4- , 1' >.6' : ,1' / .6' >.' - ,46' 7.1'5.' 6,4-.< 18'>4' 0 .<'= 4.' - ,46' 5.41' '-.0' E' 7I' ; .'6,<7'5.6' / '5:.41.4@'>,<7' >.' ; ,4?'05.6' / '<;.4-1.6' ,<7' .J'1.' 5''1' 6,<'.7'>,<7'5.6'1. / ,1>6' ,<7'>>Q'' ?4<'5.' ;1 / .%

,46< >7.6' ?, <75.'?1. / .1'' / '>.5'5 0.17>' ; .<71.' 5.=<.5' 5.6' 7V1'<6' ' .<7' '1 / .' ; .' / > / .'?.4?5.'>,<7' 5' >>1.<>' 7' 5.6'>1, 76%' # .67' 5.' / ,V.<'=4 56'6.'1>6.1-.<7' ; ,<71.' ; .54' =4.'6,<' >>6 <7>1.66. / .<78' .5> '7 ,<'>.' 6,<' / .' .7' 5''?41.7.'>.'6'' ; ,<>4 7.' / .77.<7'>J'5. / .<7' '' '01'>.'5.416'6>>4;7 ,<6'.7'>.'5.416' - .<J.'<; .6%

56'5.' ; '5, / < .<78' ?'1; .'=4 56'<.' ?.4-.<7'<' <7 ' / >.18' <Q' 5.' ; ,11, / ?1.I' 56' '1 / .<7' ; ,<71.' <'5.6' ?1>' Q4J>6%=4'<>' 56< ,6.<7' / > / .' .66'V.1'> '1 / .1'5.65, 6I' .7' ; .'=4 56' ,<7'E' 7' ; ,<71.' - ,46' .67' : , / / 'J.'5.'?546' J5,1 . @'=4.'5''7V1'<< ;'?4 66?1.<>1.'U'5''?1,0 7>8' '4@' 7'5.<76' .7' '4' ; ,41'J.%

'6.'E,1 / .'' ;74.55. / .<7'.<' 41,?.'4<.'5 J4.' ; ,<71.' EE'5 0 ; 17>J><>1'5.>4'J.<1.' : 4 / ' <I' / ' 6' >.?4 6'5,<J' 7.< ?6' 5' .<.@ 67.%4<.''471.' , ; ;4?>.>.'?1,?'J.1' .7'>.' >>E <>1.#.77.'5 0.17>W' 6'<6' '471.6'1 / .6' =4.'5''1' 6,<8' .7' ; .55. ; '>, 7' 71 , / ?:.1%' '.67'>'<6' ,1>1.'<>..66' 1.' >.6' ; : ,6.6=4.5 .11.7716, 7'?'66'JU1.8.7'5'' ->1 7>.7.1' <.55.I' 6'<6' ; .5'.55.'<.6.1'77?'6'5'' - .1 7.%' .6' : , / / .6' >.' J .< .8' 6, 7.<46'>.'5.416' - .174.4@' > 6; ?5.68' / 6' >'<6'5''0'5'<; .' '- .;'5''7,410.'>.6' <71 J'<76' ; ,11, ?' 2P468' <6714 / .<76' ,4' ; , / ?5 ; .6' >.6' 7V1'<68' >, -.<7' E < 18' ?4F' . / ?,17.1'641' .55.%

\#.'0.'4'Q,4?'>.'5''5 0.17.'4< - .16.55.'54 1''?,41'<,6' >.6; .<>'<76I' / , 6' >4' / , <6' <,46' .<' '41,<6' -4' '4' 1,1.8' <,46' .<'41,<6J,E57>1. >1'<; .8.7' - ,46%' ,<M 6 .418' - ,46' .<'41.0' ; ; .5.1>' <67'<7' ?'1' - ,6'71'-'4@8' c 1' 1. a . / ?5. >.%-06' - .17468' ?'1' <> J<'7 ,<'=4 8' >'<6' <1,?..47 1.8' 6 .67>5.->. ; ,<71.' - ,6?.16>.4' 7.4168' ?'1' ' <7>1>7' > '%77.<>1 66. / .47' .7' > '> / 1'7 ,<' = '' .@; 7.' ; .' / '5: .41'%=4' < '' ?4' '77 / <>1.'Q4%6=4 U - ,71.'EE / .%' 8

.864 6' '- .;'4<' <- ,5'05.' .7' 1.EE?.;74.4@' '77' ; : . ' / .<78' ,<6 .41' .7'71>6' 554671.' ; , 3E1>1. '- ,71.8 .7;%

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-(' - $('4.$0(('-(' "(* + $*' $ +$$3Y $*/ (3. ' (,-Y(''$ $' ' '$\'#$ '7''+0.- *'4.(3$+)$'!' , .$5*(' -(4-$0$('4 $,$5$> $ ('4 '$(.''4$(3('' .(#$,0('' +'(5 4 ('- ' O $) (.,(' ' +.$'/3) (U' ' "+$'' */ $) .+$.(/ (+ ,3-($ (/*D' WG/FHTB ' .$2/P' ' *'') . () (,' C' '/#.95$ %-('4 .,'4 .', L('. 8++ ('

6 (''-$',$*9 ($

3?(/ * *' (','4(+b ,.('L 3+*' 5*$' '($' $, *3 $('4+. $' * '' *('0 (.O,$ *b4 '' *$0(.'(('5LL(' *3 $*' D(',' 5 (' ' ,*'' (''9.+*3 '4(.' **+9(''5 $' *,'4(*-+*,'3(,,(' % - -(+'' ''+$=$(',) ,.('-+' *-(/+ #3 $O*+' $''4$*'% -D+334. '(*,. ' '+' $(' (,' 4. %63$4('/ `D' #+$ (' 4$*'' 9.+*9(''36 '(' 0(('**',$.'4 ''$ $*4 (5 ` +' #,(*/-+*'''+' +*$(.('>- ,. *'+*,$5 ('(,(5 .$+>$-(/ +*'3 *,.+',('4$*'' \#.+44+*,(,# +' , +09('* + $(*+'# ,@(''(,'3 . 4 ('' +D+'4 '' 0+*(('5 $5+('$*-6(5,((*, ,.((9 (.+,$ *' U$4 $,$5 (' *'$*# (*3(' .&+' #$)(., %-(' $)(. (' ,(),.$ *+ ((('-('$+'?)(.< (.$3+ /*(' @.F G,.(%%3($('$ (*# *'5+ (+ *,'4+. $'& ''+'4.('(*,/ '(''(*$.9,$(*'/9,' ' $+.$('++D 'K'- ** '2'-('' *('-D+ <.('+(=

C

) (*,' D ,.('(, -$ ''2'.(*-.('+)',.+ ,('/0 $+''(''4, 34+ ' $,.('' -('9 $.(/(,''('' -. $,'' ' .' * ,.('.(3 **+$''+*3(+'0$('4.$0(('-% *' '+0+*,/ - **'4), ' 46(/ - *'4 $$$=' 5 (/,('5*(' +$/'(3.$,('4+.' $D R ('4 .' $ ',.+3,$ *'-(' ' *' #$ '' (,'-(''(''-('3(*-+*,'/*('4(*,'4. 3 .(.'+*'4+$'$.' ',-.$ (7'(*'-(0(44+*,' (''4. 9.(''-('+'.+$' *'(,'-(''+'# .D' , *(/$'- **('* *''(((*,'+''+'4 ',(.$,(/ +$''+'* '/ +$''+' +'*-,.(/-('' (*''- *,'* ''4 *0 *''4. #$(.'-+*'' 4 ''-% *'9(*.(' I

(' #$ '' -D+ ' +.,$'+*/ '$ 4 (' +0.$(.' $! - (' -+*'' ',' (+*(''(/ $9*+*' ('4.$,'-('3 *-+$,('+' $*- ',.$(/ +-.(''('' +' +'4.)$,(/ $*',. 3,$ *'+ 2'0(., '/4+.0$(*,/* *' '(*$(D' (*,'+' +D+##.+*3)$.'-('3(,'(,+,'-(')(' $*'- *,'' *'(*#+ 3(' \#+,' , . (*,((/(,'+' '((0(.'4+.'-(9.('' '5+D+'**('# .,**(' 4 $(*,(/ +$''2 --$0.(.'+' 4+,.$('-+' 9'- $,('+*, .$,(' ,8.+**$5 (/(,'2'4 +3(.'' *'* '4+. $'3(2-(''))$(*#+$,(.'' -(' 6+ +*$,('(,'-('' $)(.+,(+.''-(''4(4(('' ' *('4(*,' ,.(' '+*''#.*$,'4 .'+*3 *'('4.$,' ',(' (,' .+$' **+) ('-(' ('*$D' .('-+*''3(''0$3$''$, -('/(,'- (*,(*-.('-('+') 36(' +0(+' -(''(''#+ ,('' <3+.'5 (' '+9('*D(*'3 (,'4+'c?/(,''('' +2$D' : (''-(' 3 *-+$,(/ (,' #+' ' .3(/ (,' (*()+$*((*,'-(' '(+' ' 33('

'#+',' 0 $.'3 . (' (' (*(' $+*3Y $*' 0 *,'-D+) .-' '(' -(.'-(4 ('$(/ (,3 (. '((6+44+/ -$,D$$' +''(U'4 +$'+ !' . (*,/ ++' +)(.' - (,.('4 (,(7 + 6(+.'5+D$' * (+,'4 $*,' (0$,('$' +' *+,*8(' +0+$,'#+$,'4 .' ,.(7 +$'' ((' (*'0 + ,' \#+$.(' *'4)$ ' 4)('(,'+*' '+9(/ ('5*,' *D(','4+'', + .'' +' -.+('36 '(7' (('+..+*9(''4 .'3(+' (''3$.3)*',+*3('/ ' 4 ,-,' ((' *$' - **+' ('9(*$('*(3(''+$.('4 .'(*'4. #$(./ 3+./+'5 (5 (''(23(4,$ *''4.('/ ''3$.3 *',+*3(' +*5*($$,' $*''2 6 ('5 (') ('+ 2'3$.3 *',+*3(' ' '#+ ,'0 $.'3 (,'3 (* +' +' '%(2(.3(.'+' +'3 *,. D' 0(.'(7'3 . (' $' '(' -('' (*'+$,('4 .' (' ,8(' ,' ('' -$'3 .''- ' !' (,'3 .+ (' +'$(3,+.(' - *' *0.+9(' -(' (* 46 *' (*#$+ $,.+' ,'+'3 4' 4 .' +' (,6 -(' D' 3.+,$5*(/ - *,'$' 3 *'(.0+' *,('''+'0$(')+)$,*-('-('4+.+$D' ,.('- +,(./ ,'' (('5*D$'- ,+$,' (' $*'/ (,'-D(0$,(.' (+' \# .*$ ('', . 4'+##$. +,$0('/5*$'3 *0$(**(*,'$*$(+2'(*' (##(' Y' (*,(,((*,'5 DY' +' .+$' *

'#+ ,'0 $.'(*#$*' -+*''3(,' *0.+9(', *'' ('' 4.($(.''-(D' 0(44((*,''-('' *'9 ,'4 .' ('' (,,.(''(,'4 .' (''3$(*D' 3('/(,''(''4.($(.''4+''0(.''$+'# ., *(/ *'4+,-.' ('' 9 ('' (,' .+9('(' (4.(0('' $''$' #+', $'' +0+*,' -D8' +..$0(./(,' - *,'$'*(' .,$,'5+%Y'# %.3('-('3 A $,(/ - $*,($9(*3('(,'-(' 3 .+9(

(,'' ., *,'-+*''3('-() ,'-(' +'0$('5* '(','$*, .(+'+*,' -)'(.0(.' (''6 (''(2,.+ .-$*+ .('/3(+2'-+' $*''5+$' *('' $*'- ' 9.+*-' ,6(+,.('8' ' *,' *,(''4+.' -(9.('/ (*' *+*,'4. 9.(''$0(. (*,'-$##(.(*,'' ('' +*,' 3(U'5 $' *+$''(*,' (*'5*(5 (' (,(' ' '+' '3(*(/ (,'3 ('.(0(, '' -% *' 4(.' **+9(/$ '' (' (*,'-('. ,$*('(, *,(' (.'0$(/ (,'* ##.(*,'9 (.('-$$$,(. ,+' ''4(3,+,(' .'+.,(*,$#

(,,('4+.,$('-(''($.(''-(' .+*3Y $$$'*(' ('3 *- $,'5 (' +'5+DY' ' *'(,+) $''((*,'(,'' *' +.$+9('+' 6$+-(4)$(' *' ++$,'5 (' (' .(,('(2$',(/ (,' ('4) $3' *(',+.-(.+' 4(+)Y,.5' 4+'' +' (*' $.' *' +,,(*-+*,/ *' ,. 0(' -+*'' +''(3 *-'' 4+.,$('-+' 0 *' *D4.(3$''6$', .$5 ('-('+' 0$(/3 (' '+0+*,'(,'3 ('4 $,$5 (' *'4.$,'-('3(''$,.('' *''+*$(. +$' - **(')(++3 4'-#(, 9(''(,' ('4.('(*,('' '' (' . (' 4$*'' #+0 .+) (7 +*'''(3 *-/$' +$'''('4((4(.'3 *,$*+*(((*,' (' .(''(*,$ ($$,' -D**' *9 +$'' 3 *,.(' (' 4.$*3$4+' + ,(.' -D3 (' .(0(+,$ *'5 $' +').$'(' (' 9'$ 4 '('4+.' D *9(!' ,(..(' (''#+$,'' *' ,(.(' *' +'4.('(*,('/'/('' -4$,)(,('%' $* .$('(''('4 +33*,' +$9.(' +$' ' ''+'4 (' ('#+$,' (' (,(.c' '4.(*-' (')+ ('4 .' *'(9(/ (,/ 3 **+$''+$$,' +'4+''$ *'5 $'+*$ *' ('6$', .$(*/$'+44.(*-'+' .(-.(''(,' (' #+$,'' +$Y.(''-(')$', $.(

(''4$(3('' -$0(.'('/ -('' #$9 (*,'/ -(''+*'(3- ,(''.(+,$ 0(''2 .+*3Y $*/ (,' *'(23(' (*,'4(,$,$ (*,'4(,$,'3('4$ ' *' ,+5 ('(*#+*,' D (,(. $*(,0(.+'' %' ('0 #+ ('5 $'# . (' *' .(3 ($'(,L,.#$ ((*,'$*,(.('*''4 +. , ('' ('' 3 +''(''-(' (3,3+.'/ +$''' .,UL$,'4 .' ('' 4)$ ' 4#+('' (,'4 .' ((') ('#$).(' ' D

%

%+3+-Y $('-('''3$(*3(''+' 6 **(.'-('4.(0(*$.' ' ('' +- $*$',.+b .'/3 4 '+*,' ('' -$.(3, $.('' -(''EP'-(4+.,(!' (*,'/55('3($' ' +.$''0$(*,' -(' -('$9*(.' (9 $'(' -(' .+*-'! 9+',$* ' -('3(,,('0# L(/'4 .'8' -(4 '(.' ('4 $-'' (,' (' .('5 $'- $0(*,'9,.('+ (''('$$.3+-Y $(/+$,(.$ ('' - '-(3.(,' - ' ' - ( ) .('-(.*$(.7'(,'5*(' (''3 $''+$.(' $ # '4+.'(('(*'+,,(*-(.' (*0 $' 4 +.'#+$.$.('A('' 4Y.+D' ,$ $ #$Y3(''+$.(+' (.' (.$#$3+,$ *

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! # ' C' !' % ! ' &' ' : ' # ')!
?1,Q.75,<J7.<5?6'77.<>4.7>,<75/ .?'1' 7E,1747 5. G>.%>.;1.76 E -'<7NG' * I' G G G G Y A' ' 7
>.';, / / .<;.1'5'' > 6;466 ,<%
''J'1>.'<'7 ,<'5.8?5. <.'>;';,<E '<;.'>'<6'5''05.4 '

-. 55'<;.'.7>'<6'5.6' 6,4-.< 16'>.' 66./05>.8' -. 7''
'-.;' 5 <.' - -.' 1.;,<<' 66'<;.' =4 .55.'>' J<.' / / . '
> '7. / .<7 6 .< ,;;4?.1%
' ' < <6 67.'6<1'>.6'=4.67 ,<6'>>Q''1>6, '
54.6% .16,<'.' < J<,1.'=4.'>'<6'7,47.' .7.<>4.'>4'
1,V'4 / .'5''1>=4 6 7 ,<'>.'5''E,1;.''?<'17 .<7 2' '<7?'
1 7.' ; - 5.8' .7=4.'5.';,1?6' >J 65'7 E' ''>'<6'5.'5 .4'>.'
6.6' 6>'<;.6% .';, / 7.'>.'1>- 6 ,< <7' ;'5, / < .8' .<
J1'<>.'?'17 .8'?'1>.6?.16,<<.6=4 '<.' - .<<.<7?'6'V
1. / ?5 1' 5.' ?,67.'=4 ' 5.41' .67 '66 J<>'& ,4' '??5'4> 7%
>'<6' 5'' < 'Q,1 7>' >.' 5'' ?'17 .' J'4 / .P8' '' ?5';>' >'<6'
';7.';,<67 747 , / .58'=4'-,46'6.1'?1,0'05. / .<7?1>'
6.<7>' '' 5'' 6>'<;.'>.'>. / ' <8' 4< '17 ;5.'=4'?,17.'=4.'
5.' ;,1?6' >J 65'7 E'?,411'' > 6?,6.1' >.6' 71,4?.6' 5 @>.6'
>'<6' 5.'5 .4'>.6.66>'<;.6% #, / / .<7 6.?.47 5' =4,'5.6'
1<> / .6' ?.16,<<.6' =4 ' <'J4.1.'7> <, J<' .<7 7'<7 >.'
;,<5 '<;.' '5''J'1>.'<'7 ,<'5.'6,5>>.' >.' '1 6' ' .<7
' 1'>.'5'' 1.J'1>.1' ;, / / .'>'<J; .46.8' ?'1.>'=4 ;55.'
;:'<J.'>.'<? /'Z & <'??5'4> 7>'<6'5'' / 'Q,1 7.'>.'5''
?'17 .'J'4;:.%P
% 9 ' .7 % 'N ,46'< '-,<6' ?'6' > 7'
;.5'8' ,<6 .41I' '' ,1>1.%
% 'N .16,<<.'< J<,1.'5.6' / ,V.<6'= ,<
. / ?5, .8' 5.6' 014 76' =4 ,<E' 7 ;,41 1'641' 5.'71'-' 5' >.'
5''1>- 6 ,<% .6' ->1 7'05.6' .<<. / 6' >.' 5'' 5 0.17.'6,<7'
;.4@' =4 8' ?'1' >.6' / .6 1.6' '17 5 ; .46.6' 8' . / ?>.:.<7'
=4 .55.'<;'6 .7'05 66.8' .71.0 1>;<75'' / '1;:.'>.'<,6'7'' '
-' @' ?,41' ?.1?. 74.1' <=4 .7 >.% < > 7 =4,' 6'
6.< 05.'-.47 .71,J1'>.1%641' 5''5 0.17>85,16=4.'> ?4 -'
>.4@' '<6' .55.' / .7 4< Z.5:' <E'7 J'05.' '' .< ;,<6';1.1'
7,47.' .7.<>4.% & <'??5'4> 7 '' ?54 .416' 1.?1 6 .6%% '
' < V' '' =4.'>.4@' 0'6.6' >'<6'5.'71'-' 5' =4.'-,46' ?1,'
?,6.<7 5.6' ;,< 7. 'I ,45.0 -,<6' ;,<67 74.1' 5'' J'1>.'
<'7 ,<'5.'6,5>>.'.<'J.<>'1 / .1 .'<'7 ,<'5.'.7 .< <E'4'
7.1 .Z' & <J1'<>'<, <01.'>.' , @' >.'5''?'17 .'J'4;:.N
7 ' E :'0 .<' '>. ;1>7.0 5;'>,<.%
,1 !& !!') ! !' +#!' ' = !' !' !'
!' ' ! ' $!' ! ' # ! ' !' = !' ! ' ! 'GA! '
&! !' !' (! ' +#!' ! ' % # ') & '
! ') ' !' # 'C+# ' ,# !' !' & !'
+#!)! !'+?' !# ' ! ' 4 #! !&!)) !!
'' 6.'<;.'.67' 5.->.' '' ' :.41.6% I
' ' ' /' 57
% '4;:V' E' 7' 5'' 1.-4.' ' '17 ;5.6' >>;1.7>68' >'<6'
5''6.'<;.' >W -.<>1.>' C* Q4 55.7'Q6 / 1' >6' >>.:'1J;6<
;7 1.>4;7 ,<6'> / ?,6 7 ,<% '?1;6.<7.=<.5= .6'15 45.6'
'>> 7 ,<<.56'=4'6,<7' '>,?7 %1 ,46>.6 >,<<.1,<6'
>'<6'4< ?1,;:' <'4 / >1,%P' - ' %
41' ;'1'??, 7>.' %%%8'1 66. Q 05>.;,<E 1 / .'5.'71'M
-' 5' >4' ;, / / 66' 1. >.' 5'' 5 =4 >'7 ,< ?.<>'<7' 5'%6. '
/ ' <.'?1.;.>.47.% $ %
'-22 &' ;' !') &- '& !' 0!' ! ' '# '
' !'%#!' ! ' :C! ' & ') ! ' ' ' # @
%!)!'" # ' %!9' !! ' ' !% !' !'W/('= ! '
(! '% # ' %!9' !' !'& !' F# '$ & '
!'66'C# ! '% # ' %!9') ' ! A& !'', '
' ! ' = ! ' + ! P 8U !# ' E 1 C : #! '
4 &&!' ' > ' # !' -!))!') ! : !' ! !' !! '
!# ' = : G('% ! ,! ! ' ! ! F F
!' ') & ' ! ': '% 8& ! ! X R '% F
%!9' !) EYO' F !P% # L! !9' ' ',! : ')!# '
+#' ')* =! ' !' + =)# ' ! (F') ! ' !'H '
!' ' ! !'+# C # '+#!')! ') '$!$ ' ! (
' '=#! !('$ ' +#!' !# ' = * # ' !' ?2
)* ' !! !' ! ') ' ! # + Y+ !' ''F)* '
! ' $) ! ' !% : !'$ ' ' ! ' ('$ # 1#
& ' , # ! '+#! F' G_ !Q' !' ! #) ! '=45'
! * &$! 'F) & ! '" O) & !'
,')*+ = ') !+#!)!'F '% # ' !* ! ' 8C C!
66./05>.' <'B <'5.' [45'4 '?1>-. 5 'E5 55
;457.6' = <'?,411' .<E '571 >.'5''>7EE.E. ;.'=4 .@ 67='

U

.<71.'5.'> ;1.7 >4'C 'Q4 4'>.1< .18'4< =4. / .<7 '??5M
;'05.' "5"E,<;5 ,<'>.60'7' 55,<6>.6'J'1>.6'<'7 ,<'4@'
,5,< ' 1.6'>.67<.6' " 5" >.E.<6.'>.6'E1,<7E.1.68'.7 5.'
> ;1.7 >4')'Q4 <'>.1< .1'8' ;,<#.1<'<7 .<' J.<.1'5'5.6'
J'1>.6<'7 ,<'4@=4 1.67.<7>'<65.<1>>?'17. / .<71.6 '
?.;7E8'?,41'V' >71.8'4'0.6, <8'5.6'6,5>'56'>.'5" ;,<67M
747 ,<'8'5.6'>.E.<6.416'>.'5" 5 0.17>8'>.' ,1>1.' .7'>.'5"
?' @' <7.1 .41.I' -,45'<7' '466'1'??1,;:.1'>'-'<7'J.'
5"E,1/ '7 ,<'>.6'O'7' 55,<6'>.'71,4?.6'>.'5 J<.8'5<'>.'
< .4@'.7'05 1' 4< 7.'>.'?1 <; ?.6' .7'> '.5 ,<'>'<6'5.'
6.1- ;.'?,41'5.=4.5' 56'6.1,<7 1.4< 68'">>.1.7>';.'=4'
64 7N

17I'SW % %9'J'1>.6 '7 ,<'5.6'=4 6.6,<7?1.6.<7>.6'
-,5,<5' 1. / .<7 ?,41' / '1;:.1'"5" >.E.<6.'>.6'E1,<7E.'
1.6' 6.1,<7 > - 6..6'?'1'5.6';, </ 66' 1.6'>.6'>.?'17. '
/ .<76' .<';,1?6'>.' 9)' :,4 / .6';:';4<8' >.67<.6' "
E,1/ .1' / 'O'7' 55,<8' ' 'E,1/>'>'<6';:.=4.'>.?'1'
7. / .<7'47'<7>.'O'7' 55,<6'=4 6.1"?,66 05.> V1. 4< 1'
>.';,1?6'>.'-,5,<7' 1.6' 'V'<7 ;.77.'E,1;.I' 5.;, / 7>'
/ 5 7' 1.'?1>6.1 7.1"5.6' / ,V.<6> . / ?5,V.15.6:, / / .6'
> .@;;>'<58'>,<7 5.'<, / 01.'<.'6 .5.-.1' 7 ?'6' ";.54'
5 @>'?,41'4<'O'7' 55,<%

% .6';, / / 66' 1.6'>.6'>.?'17. / .<76' ;, / / .<;.
1,47?'1'> 671 04.1;:'=4.';,1?6'>.'-,5,47' 1.6.<':4 7
,, / ?'J< .6'>.'(':, / / .6';:';4<.%

5% '6.1" .<64 7.' .@71' 7>.' .0';4<.'>.';.6';, / '
?'J< .6%6411 <> ;'7 ,<'>.5.416';' / '1'>.68']';, / / .6'
>E'5" ?546':'47.'7' 55;'?,41' ';, / ?,6.1'4<.';, / ?' '
J< .'>.' JE,4'> .168'=4'<.'6.1"1>4< .'=4 '4' / , / .<7
,:'5.'O'5' 57,4'6. ";;&I=?'1'5.';, / / 66' 1.>;6J4.1'
1.6?,41'.< 1.1'.<';5 - 5>%

% .' O'7' 55,<' 67['" ;, <?,6>'?,41'5,16' >.'<. E'
;, / ?'J<'.6'>.'9 ' :, / <.6';:';4<.8'>,<7 5<.'>.'J1.M
<'> .16'.7':4 7'>;'E1I :.16%

% #:'=4.'#,1'?'J< .8'6, 7 >;'J1.<'> .168' 6, 5'>.'
E46 5 .16'Q'6.1";, / ?,6..'>.'71, 6',EE ; .16I' 6'-, 18'4<'
;'? 7' <.8'4<'5 .47.<'<78'4<'6,46 .47.<':7I'>.'6.?7
6,46 ,E5 ; .16 6'-, 184<6.1J.<7 / 'Q,1E' 6'<75.6E,<#
'O,<6'>.E,K11 .18>.4@6. J. 768=4'71.';'?,1'4@'7.<E<'
>.'# <=4'<7. >.4@'J1.<'> .16'W4E 6 5 .168.7> 4<'7' / M
0,41% %

% .7' / 0,41 / ' 71.%7 1.>4'#,1?6'>.'-,5,<7' 1.68'
;, / ?5.7.1" 5.'<, / 01.'>.' 9)' :, / / .6I' 5'E.1"?'17 .'
> .5 .7'7 / 'Q,18'41" 5.'1'<J'.7'5'6,5>.'>.6.1J.<7 .7'
;, / / '1 >.1"7,46'5.6'7' / 0,416%

% #:'=,.%;, / ? J / .8'6, 7 >.'J1.<'> .168'6, 5'>.
0%6 5 .168' 6.1" 640> - 6>.' .<'>.4@'?.5,7,<6I' ;:'=4.'
?.5, <'6.1"E, / >'>.'>.4@'6.;: 7 / 6I' ;:'=4.'6.;7 ,<'
6.1";, / ?,6..'> 4<';'?,1'5 .7'>.' 'J'1>.6%

% .'5 .47.<'<7 .7 / 6.1J.<7 6.1,<76?>. '5. / .<7
;:'1J>6'>.'5"641-. 55'<;.' .7 ;,<1 / '<>. / .<7>4'?1.M
/ .1'?.5,7,<8'5.'6,46 .47.<'<7 .54<'6.1J.<7 6.1,<7
8'6?>; '5; / .47 ;:'1J.6'>.'5"641-. 55'<;.' .7 >4' ;, / '
1''<>. / .<7>4'6.;,<>'?.5,7,< '7,46'6,46'5.6' ,1>1.6'
U54';'? 7' <.'> ";, / ?'J< .%

"% .'41J.<7 / 'Q,1''41"5.';, / / '<>. / .<7 64E5.6'
>.7 @?.5, a 'c / 41'7,47 ..'=4' '41" 1'??,17'" <6'
714;7 ,<8'?,5 ;. > 6; ?5 7 ..7 ;=? ?7'0 5 7.'>.'5" ;, / '
Q6'J77 .% G' $Z

d' 7W%5% 95'7 BSIQ,1'>.';:'=4.'O'7' 55,<' 6.1";, / ?,6>'
.'>.46'5 .47.77'<76 .,5,4.568' > K '>Q4>'<7 / 'Q,18'
>4<''>Q4>'<7 6 Q 6 ,a ; .7%> 4<'=4'57 .1Y / ' 71.8'> 4<'
7' / ,41 Q? '571.'.7 > 4E7'1 / 41 .1I.<6,17.'= '5"E,1;.'
7,7'5.'> 4<'O'7' 55,<' 6JE">. U';, / / .6% 8

" %#:'=4.'O'7' 55, 7 '417'6,<>1'?.'4' <E'., '5.416'
' <7 ,<'5.686415.=4.5'6.1,<7 7 6;1 76'5.<, / 4'>#?'1
7. / .<78' .7 5.W<4 / .1 '>4' O'7' 5 <?I'64??,6.'=4.' ;'
F< / .').?'17. / .<7 .<' '77Q0Q4 / '?746 .4168'5.'>1'?.'4'
6.1"?,75>' 4<'>.6'6.1J.<76 65 16'4, 0 / ']';.7
.EE.7?Qg'5.'?1. / .1'5 . E.<'<7 ;?5,<.5% ' 8' !' *

" % '<6'5.';'6', 5'5.' / X / .'> ` '17. / .<7 E04 / 1'%
?5 >.416 '7' 55,<6 56' 1.1,<7 / '6,17 .'1'<J=4 56
$?>. 00<7.<7J '.Q "' .'1'<J'>.6'>>?'17. / .476'1.67.1,'
* '$G

" % .6' J'1>.6' <'7 ,<'4@' -,5,<7' 1.6' .7' 7 >6
71 0406' >'176' 5.6' *' ;, / ?'J< .6'=4 '>, -.<7 E,1 / .1'5.'
O'7' 55,<8' ;:'=4.';, / ?'J< .'<, / / .1"5.6' ,E Q. .16' .5
6,46 ,E5 ; .16'?'1'5" -, .'>46;147 <8' "5" / 'Q,17;''O'
6,54.'>.6'64EE1'J.6% $

" % '6.1"E' 7 4<.'05.;7 ,<' 6. ?'1. .'>4';'? 7' <.8
4<.'>4'5 .47.<'<78' 4<.'>4'6,46 5 .47.<'<78' .7 4<. 54'
6.1J.<7 / 'Q,1I' 5'<. '6.1" E' 7 =4 4<.'6.45.'?,41'5.'
>.4@'6.1J.<568'.7 4<.'6.45.'?,41'5.6=4'71.';'?,1'4@'
'5" / 'Q,1 7.''06,54.< .67?'6'E,1 / ..'> '?106'5.6'>.4Q
7,416'>.'6;1 7 4'>'<6';:'=4.'.5.;7 ,<8'5.'?1. / .1'6;14'
7 <'<.?,411" ?,17.1'=4.641; .4@'=4 8'41,<7.4'5.'?5 '
>.'-, @'4'?1.;.>.<76;147 <8' .<'?1.<'<77,4Q,416'.4'
;,<;411.<76'?, 1';:'=4.'?5';.%

" % .6',< ; .16'.7 6,46 ,E5 ; .16'>.6';, / ?'J< .6' <
?,411,<7 E 71.';:, 6 6'=4.'?'1 '5.6' 64Q.76'=4''41,<'
6.1- '?1. .0>. / / .<78'6, 7 >'<6'5" J'1>.'<'7 ,4'5.8'6,'
>'<6'5.6'71,4?.6'>.'5 J<.%

" E%#:'=4.'O'7' 55,<';, / <.E' .6>.4@'5 .47.<'<76'
;,5,<.56' .7 6,<=4'17 .1 / ' 51.'?'1'5.'6;147 <8' "5" / "
Q,1 7.''06,54.'>.6' 64EH 'J.6'$ 5'6.1" E' 7 4<.'>5.;7 ,'
6.?'10.'>.';:';4<'>.';.6' EE ; .168'64 -'<7 5.6'1.J .'
?1.6;1 7.6'?'1' '17 ;5.' " %

" % #.54' >.6' >.4@'5 .47.<' 76 ;,5,<.56'=4 '6.1'
<, / <O'5.' ?1. / .1''41"5.';, / / '4>. / .<7 .<';:.E'>'
O'7' 55,<I' 4<'>.6'>.4@' 5 .47.<'<76';,5,<.56' / 5 .'
1. / 1'.<7>.-1" >71.';'? 7' <.'8' .7'-, 1';, / / '<>.'
.<';.77.'=4'5 7. 8'4<.';, / ?'J< .'>.6'71,4?.6'>.'5 J<.

" % '>Q4>'<7 / <Q,1.7 '>Q4>'<7 6,46 ,E5 ; .'
<.'6.1,<7 <,1'<>6'=4.'5,16=4.'5.'O'7' 55,<'6.1" '11 -'
'4'5 .4',:'>, 7;, < / . ;.1'6,<'6.1- ;.% " <, / '7,'
";.6'>.4@'?5';.6''??'17 .<>1" " ,EE ; .1'J.<.1'5''4N
,1>1.6'>4=4.5'5.'O'7' 55,<' 6.'71,4-.1'% '<.'?,411'
X71.';:, 6'?,41''>Q4>'<7 / 'Q,1'=4 7 <' ,E5 ; .1'8 ?,4'
'>Q4>'<78'=4 4<'6,46 ,E5 ; .1' I' 44' .7 '471.';7<.55.'
/ .'7' .<';7 - 7.'>'<6'5.6'71,4?.6'>.'5 J<.%O '>Q4>''
'41"1'<J'>.'?1. / .1'6,46 ,E:. .18'.7''41">. / 6,5>'
>.'?546'=4 7 <' 6.1J.<7%%

" "% .'=4'17 .1 1''571.''41"5.'1'<J'.7'5"6, >.>'
5 .47.<'<7I'E'1 / 41 .18';:, 6'?'1'5.6' ,E5 ; ;16'>.' .7'7'
/ 'Q,18''41"5.'E'<J'.7'5"6,5>.'>.';'? 7' <.%

" "% " > 67<;7 ,<'>.6'J1'>.6' >'<6'5.6' O'7' 55,<N
>.6J'1>.6'<'7 ,<'5.6'-,5,<7' 1.6'6.1,<75.6'7 > / ;6'=4&
;.55.6'1.I4.6'>'<6'5.6'71,4?.6'>.'5 J<.I' 5.6' / > / .6'1.M
J .6'6.1,<7 ,06.1-. .6'?'1'1'??,17'4';, / / '<>. / .<7
" ,E>1.' .7'"5" > 6; ?5 <.'>4'6.1- ;.%

' ';O ' !' # ! !' = !' ' ,>' ' +#,#
!# !$) !' ': 'AC!' !'< ' # +#'
'!' &!' !#N #': ' !'= !' !

% - 2 2 &'N 6?< 05..' "?.<6.'=4 5'6;1' 7 >'<'
J.1.4@'>.'E,1 / .1'>.'71,?'J1'<'6';,1?6'>.'-,5,<7' 1.6'
.55.'"-,454'=4 56'E4 6.<7> - 6>6'<,<'?' '.E'1.J / .<76'
/ ' 6'6.45. / .<7 .<'O'7' 55,<]% 18' 'E'47 4<'?546'J1' / '
<, / 01.'> ,E5 ; .16' 64?.1 .416'?,7E' ;, / / '<>.1'>.<I'
O'7' 55,<6'6.?'1. ' 4<'>.' '471.8'=Q .'?,41;, / / '<>;I'
>.4@' O'7' 55,<'1> / 6% ,46' -,46'?1,?,6,<6' ?'1'5'
/ > / .'?1,Q.7 >.'>>;1.7 > '77';:.1'2';:'=4.'O'7' 55,<'
' !) ' ' < 46714;7.41'?1 6'?'1 / '
5.6,E5 ; .16'>.'5"5 J77.% ,46Q?.<6, :6. '.EE.7=4.?,4'
=4 5' ' 75.'>1, 7 >.';, / / '<>.1'>.6';'? 7' <.6'>'<6'5.'
.@.1; ;.68' 5'E'47 =4 5' ' 7'4' / , / 6'5.' / > / .'E'<J%

% 'N .6'J'1>.6'<'7 ,<'4@'=4' .'5.E,<'
<6;1 1.'>'<6';:'=4.'>.?'17. / .<7 <.'E.1,<7 ?'6'7,4'
Q,416'477'<,Q40 .' .@';7 >.'O'7' 55,<6'>.' (U':, / / .6'
34,'E.1' 7 , '>.6'E';7 ,<6'Z

% ' L'I .' / < 671.'V ?,41-, 1'%
.%' 'N <'<,46'> 7 =4.'5.'?,4 , 1' .@.;47 E'Q
?.41-, 1'I' .7 / , 'Q.> 6=4 5'<V?,41-, 1"?'6% .?,<'
-, >' .@>;47 E'<.'E' 7 ?'6'6,<':5>7 .1% '1'.@. / ?5.'8':'
/ < 671.'%-,46'"> 7 =4 5'4 '7' 7 ?'6' <> =4.' '4@';,E?'
>.'J'1>.6'<'7 ,<'5.6'5.6'. / ?5';. / .<76'=4 56'>, -.<'
E; ;;4?.18' ?"1;.'=4 5'< V ' ' 7 ?'6'>.' >>;1.5'=4' I'
'47,1 7% :'O .<8'5.'>.;1.7 ?'1'5.=4.5'-,46'-.0',1'
' ' '>.' C9' / 55.' -,5,<7' 1.6' V' '7 7,E6

D'APRÈS UNE GRAVURE DU TEMPS.

Typ. Henri Plon. Réimpression de l'Ancien Moniteur. — T. IX, page 304.

Millet-Mureau, capitaine au corps royal du génie, député de Toulon à l'Assemblée constituante.

1 / .55; / .<7% ;'> 17<'<>.'6 8' '?1 / '?'1; 5' .@. / ?5.'
<>,5.<; .'>.'5" ?'17'>4'?,4-, 1' ;@>;47 E8' 5' .67'?.1M
6' .<; ,1.' >;'6;' : .1'641' < %
% '7 aLI' .' < ' '?'6' .7>' ; : '1J.'?'1'5.' ; , / 7>'
5 7' 1;' >.' 1 ?,<>1.' '4@' <;45?'7 ,<6' ?'17 ;45 .1.6'
,<'?.<7'E' 1.' ; ,<71.' c.' / 7< 671.% ;' 6' 6'6.45. / ;<7'
5.' >'<6' 5" > 671 047 ,<'=4#' ,<'E.1" >.6' 1,5,<5' 1.6'
7 ,7= ?@' .<'0'7' 55,<68' 5.6'=, / 01.6'1, <? 6' <.'611,<7'
' ?.1>468' ?'11.'=4.8' " / .67 1.'=4.'5.6' 5 67.6' >.6' ,4
17. / .<76' 1 . >-,<78' 5.' ; , / 7.' << 7' 1,' '41"5" ?546'
'<>.' '77.<7 ,<' " ,1J'< 6'7 ,<'>.' ; .6' ?,17 ,<6' >;'
7' 55,<6% ,46' - ,4 ;0' =4 5' V' ' 7' >.' 144 7.' ;7' >.'
1>1.% H'47 5' ?,41' =<.' 5.6' 0'7' 55,<6' 6, .<5' >J'4@'
; , / ?5.76' 1.7'1>.1'5" < <1; : .' >.6' 0'7' 55,<6'E,1 / .6Z
' <.' - '4>1' 7 5' ?'6' / .4@' ; , / ?5.7.1' 5.6' <, / 01.6'
/ ?46' ?'1' >.'<,4-.'4@' .<1 5. / .<7 8' .7 .<' .@; 7'<7'
/ 45'7 ,<'>.6' J'1>.6' <'7 ,<'4@' =4 ' <.'6;'6.1,<7' ?'6'
7'E<6;1 1.Z' <'?,411" '466 8?.47 .71.8E,1 / .1'5,16'
6' >. / 0'7' 55,<68' >.6' ; , / ?'J< .6' E1'<; : .6I' / ' 6'
'45' '77.<>. .'?,41' ;.5"5.6.;5' 1; 66. / .<76'>,'7. / ?6%
% ' N' <' "E' 7' ?5 6 .416' ,06.1-'7 ,<6I' 5"
. / .1.8641'5.'<, / 01.'>.6' ,EE ; .1664?.1 .416% ' / .'
/ 05.'=4.'5,16=4 5' V' "71, 6' ,E5 ; .16' 64?>1 .<16' ?,41'
'1.J / .<7' >.'5 J<.8' ; .'< .67' ?'6' 71,?'>.' =4'71.'?,41'
4@' 0'7' 55,<6' >.' J'1>.6' <'7 ,<'4@% 34'<7' '4@' 4 '
<76 < 'Q,168' Q; ;1, 6=4.8' >.-'<7 <6714 1.'5.6,EE ; .16'
' 0'7' 55,<8' 56' >, -.<7' ' - , 1' 5.' 1'<J'>.' ; '?7' .6%
;1, 6' =4 5' .67' <. ; .66'Q1.'=4 566, .<7' ; : , 6 6' >'<6' 5"
5 .' ?'1 / ' >.6' ,E5 ; .16' > 4<' J1'>.' =4 ' 64??,6.' 4<'
17' <' 7. / ?6' >.'6.1- ; .8' 'E <'=4 5664 .<7' ; '?'05.6' >.'
1 J.1' 5.6' / ,4-. / .<76' / 5 7' 1.6' .7' <6714;7 ,<' >.6'
7' 55,<6' '4@=4.56' 56' 6.1,<7' '77' ; : .6I' .>. / '<>.'6. '
<.<7' =4.' ,<' 'Q,47.' '4'>>;1;7' >J.' .7' 5"7' 55.<; ; .6 '
1.6' ?,41' .<71.1' >4<6' 5.6' -,5,<7' 1.6' <'7 ,<'4@%
% #46 N' .' 1>?,<>6' '4@' ,06.1-'7 ,<6' >.' %
' <.1V% ,6' ; , / 7.6' <.' >, -.<7' ?'6' B 1.' ; : '1J. 6' >.'
@. ;47 ,<'>.6' 5, 6% .6' / < 671.6' 6,<7' 1.6?,<6'05.68'
5.6' ; , / 7.6' <.' 5.'6,<7' ?'6% .' <.' ;1, 6' >,<.' ?'6'
,<' ?4 66.' >,<<.1' >.' ?546' / '4-' 6' / ,7 E'2' 66. / '
>;' =4.' >;'54 ' > 1.'=4.'E.' ; , / 7>' / 5 7' 1.'641-. 55;1'8'
5' E.1" 7.55.' ;7' 7.55.' ; : , 6.N' ; .6' >.7' 56' <.'5.'1.J'1 '
I<7' ?'6% 'E'<7' >,<.'4<.'5, '=4 ' .<' ; : '1J.'5.' / < 671.%
'??4 .' >,<.'5" ?1,?,6 7 ,<'>.' % .<<%
% *'N .' ; , / 7>' < .<7.<>' ?'6' 6.' ; : '1J.1' >.'
Q@>;47 ,<'>.' - ,6' >>;1;76' 8' / ' 6' 5' E.1" 6,<' >.- , 1' .<'
N'E' 6'<7' 1.<>1.' ; , / ?7.'>.6' 1>6457'76' >.'1'1 / . .'>.6'
1>.6' <'7 ,<'4@I' .7' ; .' 6.1" " 66. / 05>.8' 641' 5.6'
<6; J<. / .<76' =4.' 54 ' >,<<.1" 6,<' ; , / 7>8' " 6 .< '
5.1 1' >.' ; .'=455'E'4>1"E' 1.' ?,41' . / ?5,V.1' ;@; . '
<7' >.6' - ,5,<7' 1.6% ,41' 7,47' ; .'=4 ' .67' >.'5" J'1>.'
7 ,<'5;8' 66. / 05. .'<'7 ,<'5.' .<' "5"5 '47.'7.<4.I'
.67' " ;55.'6.45. "> .7.1 / <.1'7,47,6' 5.6' ?'17 .6' >.'6,<'
J'< 6'7 ,<8' .7' 5.' / < 671.'<.' >, 7' 6 , . .<?.1' =4.' >.'
;7 ,<' / 5 7' 1.% 6' ; .'6.1" " - ,71.' ; , / 7>' ' - ,46'
1>6.<7.18' 5,16=4 5' '41"1.Q4' >.6' .;5' 1; 66. / .<76' >.6'
?'17. / . 768' 4<' ?1,Q.7' >.' > ; ;1.5' " ; .7' >J'1>%
% 5 ' N' .?4 6' =4.5=4.%7. / ?6' ,<' " / 'J <>8'
f41'5.' ; , / 7.' / 5 7' 1.8' 4<.' ;6? ; .'>;'1;6?,1 6'0 5 7.'
5'= .55.' 5' <.' >, 7' ?'6' > 1.'7.<4% <6' .67 ' ; ; ,474 / >'
?.<6.1' =4 5' >.-' 7' <,<' 6.45. / .<7' E' 1.'5"5, 8' / ' 6'
1.' 1.6?,<6'05.' >.' 6,<' <.@. .47 ,<% .' >. / '<>.'
4<.'E, 6' ?,41' 7,47.6' 5' 6, 5' ; ,<-.<4' >'<6' 66; / '
. .' 0 .<' ?,6 7 - . / .<7' =4.' 5.' ; , / 7.' / 5 7' 1.' .67'
5 =4. / .<78' / ' 6' 6?>; '5. / .<7' ; : '1J>' >.' - ,46' ?1. '
<7.1' >.6' ?1,Q.76' >;'5, 6' 641' 7,47.6' 5.6' ?'17 .6' >.' ,1 '
< 6'7 ,<' / 5 7' 1.%
% #46 N' .' 64 6' '<66 ' ; ,<-' <;4' =<.' ; '?1. , '
<'<76' = / .'7,47' ; .' =4 '1.J'1>.' ' ;7 ,<8' .@>;<7 ,<'
\6 7 -.'>.6' 5, 6' '??'17 .<7' '4' / < 671.I' / ' 6' 7,47' ; .'
' '??'17 ;<5' " ,1J'< 6'7 ,<'>.' '1 / . .8' 7,47' ; .'=4 '
74<. <7.1?1>7'7 ,<'>.6' 5, 68G'??'17 .<5" 66. / '
>.' <'7 ,<'5.% .' < 671;' <.'?,411" . / ?5,V.1' >.6'
?5> / .<76' >.' - ,5,<7' 1.68' 6' - ,46' <.' V' ' - .0' E,1 '
/ ;55.<4<7' '47,1 6>%

66. / 05. .'1.<-, .'5" / ,5 ,<'>.' >% #467 / .' .7'
.15 <' '4' ; , / 7;' / 5 7' 1.%
.'?1,Q;7' ?1 .<7.' ?'1' % / / .1V' .67' >.;1.5>%
41' 5" ?1,?,6 7 ,<'>.' % K1,J5 .' 5.' >>;1.7' 64 - ' 7'
.67' 1.<>4N
66. / 05>.' <'7 ,<'5.' >>;1.7.'=<.8' >'<6' 5.' ;'6' , 5'
5.6' 1>J / .<76' >.%71,4?.6' >.'5 J<.' ' ;54.55. / ;<7' ; / '
?5,V>6' '1 6' 6.1' .<7' >>7' ; : .6' .<'7,47' ,<' ?'1' ?'17 .'
?,41' 6.1- 1' 641' 5.6' E1,<7 >1.68' 5.6' <> - >46' =4 ' .> / '
?,6.<7' ; .6' ; ,1?6' 1. ; . -1,<7' 5" / > / .'?' .'=4.' ; .55. 'E '
E. .7>.' '4@' '471.6' 1.J / .<76' >.' '1< >.7.7' 5' 5.41' 6.1"
E' 7' .<' ,471.8' 7,4 '5.6' 71, 6' / ? 68' 4<' >; ; , / ?7;' ?'17 '
;45 .1.<'E,1 / .'>.'J1'7 E ;'7 ,<'>464?? > / . 7>.?' .'
=4 ' .67' ; ,<6.1->' ' 7,<6' 5.6' <> 1 >46' =4 ' ,<7' 6.1- '5"
1. - ,547 ,<'>'<6' 5" J'1>.'<'7 ,<'5.' ,5>>.' >.' '1 6%
% .<,4' 6,4 / .7' '5">>5 0>1'7 ,<' 5" 64 7.' >;' 6,<'
?1,Q.7' >. >>.1.7' 641' ,1J'< 6'5 ,<'>.'5" J'1>.'6,5>>.'
>.' '1 6%
,46' >,7 / .1,<6' >. / ' <' 5.6' '17 ;5.6' >>.1.7.6%
% 5 ' ' ,46' ' - .0' 1.<-,V>' ' - ,6' ; , / 7.6' . ; '
;5>6 '67 =<.6' >.6' 1'??,106' ;7' >.6' 1. ; : ;1; : ;6' 5.6' 1>;5' '
/ '7 ,<6' / 4 7Q?5 . .6' >.' ?546 ;416>.?'17. / . 768' 1. '7 '
- . / . 17' '4@' 71,405.6' =4 .@; 7.<7' 5.6' ?1.71.6' <,<' ; , '
E,1 / 65.6% ,46' ' - ,<6' > .' .E71' - .6' >;' ; .77.' 5; : .% .6'
>'<J.16' >,<7' ; .17' 4 ' >>?'17.<5;<76' 6,<7' [<' ; ;6'
4>. .66 7.<7 >.6' / .641.6' <1, ?7.68' - J,41;46.6% #.6'
>.?'17. / .<76' 6,<7; .4%@' ,<' ,1%N' .7' >4' '6 >. #'5' 6%
.6' #,< / 66' .6' =4.' - ,46' V' ' - .0' .<-,V.6' 77, 6' ,47'
>,<<>' ; ,<<' 66'<; .' >.' E' 56' <=4 >7'<76N ' <6' <,46'
- ,46' ?1,?,6,<68' ?,41' ; .6' >>?'17. / .<768' >.6' / .6 1;6'
?546' E,17.6' =4.'?,41' >6' '471.6% ,46' ' - ,<6' >7>' ,05 '
J>6' >.' : .417.7' ;6J1'<>6?1 <; ?.6' >.' / ,>>1'7 ,<N' 5.6'
; 1; ,<67'<; .6' .@ J.<7I' 5.' 6' <7' >4' ?;4?5.' .67' 5" 5, '
6 ?1> / .% , ; '.<' ; ,<6 4.<; .'5.'?1,Q.7' >.'>>;1.7' =4.'
<,46' - ,46' ?1,?,6,<68' ?,41' 5.6' >>?'17. / .<76' >4' ,1>'
;7' >4' '6 >. #'5' 6' 6.45. / .<7%
66. / 05. .'<'7 ,<'5.'>>.1>7.8' W =4.'5.6' 1.5 J .4@'
>.6' >.?'17. / .<76>4 ,1>' .7' >4' '6 >.' #'5' 68' =4 ' ,<7'
>>. '1>' ,45, 1' 1.67.1' > <6' 5" - .' ; , / / 4<.8' 6.1,<7'
7.<46' >.'6,17 1' >.' ; . ' >.?'17. / .<76' >'<6' 5.' >>5' ' >.'
: 4 7Q,416' >.'5" ?405 ; '7 ,<' >4' ?1.6.<7' >.#1.78' .7' >.'
6.'1.<>1.8' 6,46' =4 <0' <.8' >'<6' 5" - 55.' >.' '1 68' ,<'
5" / 4< ; ?'5 7>' 5.41' <> =4.1" 5.6' / ' 6,<6' , ' 56' >. '
- 1,47' 1.67.1% &34.5=4;6' / . / 01.6' >.'5" ?'17 .'J'4.0.'
;7' 5.6' 71 04<.6' '??5'4> 66.<7%P
C ' #.4@' >.6> 76' 1.5 J .4@' =4 ' < ,<7' ?'6' '>,?7;' 5"
- .' ; , / / 4<.8' ,<'=4 ' 1,<7' ?'6' ?1>7.8' ,<' <.'?1.7.1,< '
?'6' 5.'6.1 / .<7' >.;1.7>' ?'1' 66. / 05>.' <'7 ,<'5.8' 6; '
1,<7' 7.<468' >4<6' 5.> 7>.5' 8' >.'=4 77.1' : '0 7>.'5.41'
; >. - '<7' ,1>1.8' .7' >.' 6 >5, J<.1' ' 71.<7.' 5 .<.6' >.6'
>>?'17. / .<76' E7 <7 .E.6%
D' ,<6' 5.6' ; ; .5>6 '67 =4.68; >. - ' : 5'E,<;5 ,< ' 1.6'
?405 ;68' =4 8' E' 55.' > ' - , 1' ?1>7>' ;' 6.1 / .<78' ,<7' > >'
1; / ?5' ;>6I' 5.6' ; >. - '<7' J1'<>6 - ;' 1.%6' .7' ; : '<, <;6'
6.1,<7' 7.<468' >'<6' 5.' / > / .' >>5' 8' >.'6 >5, J<.1' '5"
/ ; / .' > 67'<; .%
UD' .6' .->=7 ,6' & ;6' >>?'17. / .<76' 1. / ?5' ; .1,<78' '
5.41' ; : , @8' ; . / 7' >.6> 76' E,<;5 ,<<' 1.6' =4 8' < 'V'478'
?'6' ?1>7>' ;' 6.1 / .<78' < ,<7' ; .?;<>?<7' ?'6' .<; ,1.' >7>'
1. / ?5' ; .6%
D' ,<6' 5.6' ; ; ;5.6 '67 =4.68' 6>;45 .16' .7' 1>J45 .168'
E.1,<7' '5" / 4< ; ?'5 7>' >4' 5 .4' , : ' 76%1>6 >. : 7' ' ;74.5 '
5. / . 7' 5" >>;5'1'7 ,<'>.' ;<>1, 7G, : ' 56' - .45.<7' 6.'
1.7 1.1' I. 7' 56' 6.1,<7' 7.<46' >.' E' 1.' ; ,<65'7.1' 5.41' '1 '
1 ->.' ?'1' 5.6' > - ;16;6' / 4< ; ?'5 7>6%
9D' ' ?,411">71.'6416 6' ?'1' 5.6' > 1. ;7, 1.6' >.' >.?'1 '
7. .<78' 641' 5G' - 6' >.6' > 1. ;7, 1.6' >.' > 671 ;78' " .@. '
;47 ,<' & ' ?1>6.47>>;1.78' ?,41' #.4@' =4.'5.41' J.' ,4'
5.416' <7 1 / 7>6' . / ?>;5 .1' .<7' >.' ?'17 1' 641 5. ; : '< ?%
& <.' - , @' 6 > - .' >'<6' 5" ?'17 .' >1, 7.N' 4' 5.' >>E'<5'
> '1J.<7%P
(D' .1,<7' ?'1. 55. / .<7' .@; .?7>6' >4' ?1.6.<7' >>;1.7'
; .4@' =4 8' >'<6' ; ' >>5' ' >.' 54 7' <.8' ?1 7.1' .<7' 5.'
6.1 / .<7' 41.6;1 7% & <' , 41< 41;' >'<65" ?'17 .'J'4.0.%P

7.>;-'1 ;..<=<9B5W^5,E17 76.7< 7' ' '; .E.8 &5 <6>.6
?'V6.7 5.6 5 ' @ <> =4>6 W ' '17 ;5.' ?1. / .1G ' 5'
6.45.' ; 1; ,<67, ! ! =4.' 5,' E4<>6 J 5Q;7 ' 5' 1.>.-'<;.'
'?,V' 7?, <7 5' > / .' 6>?'1> 4.<7 .7 > 67 <;7. / .7 7

* ?1>6, / ,< >4;< / 45 >.' 5' > / .' '1..'5'
E.>. ':#E'.:'= ,7 7> >.'E14 76 <.'767 6.E'8 >'<6 ;6 ?'V6
.7 .6 ;']'; >.6646 <> =4>68 =4.'5,E6=4 5 6.1' Q467 .'
=4.' \ E4<>6 ,4 5.6 E4<>6G 64Q.76 ' 5' 1.>.-'<;.G
?'-' ;<7 6. ?'1. / .<7 .7 > 67 <;7.< .<7 5' > / .'>.6 c 1,6
E14 768 6, 5 '< ?1,?1 >7' 1.'>.'5' 1.>.-'<;.8 64 7 ' 4<
'471.>>>Q '7>4 .;.5.6 '65 =4.', '5' ; '6 / ?5.'?1.6M
7'7 ,< > 4<.' / .<4.' ,4 -.17.' > / .8 > 4:.' > / .'>.'
;:'1<'J.8 .7 '45E.' = E5 & .55.' >.6 J5,6 E14 768 6, 7 '4
?14?1 .7' 1.'>.'5' 1.>.-'<;.8 6, 7 ' 4<'471.'>.; / ''
5.5 1 ..;5>6 '675= .',4 5'7.8 <.8 6.1' ?'6 64E5 '<7.'?,41
E' 1.' ;.66.1 5' ?1.64 / ?7 ,< >4 ;4 / 458 ' / , <6 =4.'
#.77.' > / .'<.'E7E5 ?7V>;';, / / .'<, '5. 8

' ?1.64 / ?7 ,<>4 ;4 / 45 >.'5' > / .' '-.;'5' 1. '
>.-':;.' .< =4,7 7> >.'E14 76 7 '41' ?, <7 5 .4 5,16=4.'
5' 1.>.-'<;.' '??'17 .<>1' ' 4< ?1,?1 .7' 1.' 5' ;= '
:.'5' ^Q,66.>' 7 ?, :c B5 71.'>.'E .E8 .<;,1.'=4 5 7 .6,Q5
?, <7Q467 5 >'=4.' ;'E4<>68 64Q.7 '5'> 7.'1.>.-'<;.8#47
?'V>' ; Y>.-'47 5' > / .8 ' / , <6 =4 5 < V < 7 ?1.4-.'
?'1 5 71.6 ?1 / 7 E6 ,4 >>;5'1'7 76 >4 ;4 <458 ,< =4 5
:.'6, 7 Q467 E > =4.'5.' ?1,?1 .7' 1.'>.'5' 1.>.-'<;.' ' 7
7 7.' '66 Q.755 ' =4.5=4.6 4 .6 >.6 ;:'1J.6 ,1> <' 1.6
>.'5' > / .8 ,4 =4 5 '6, 7 ?1,4->'=4.'5' 1.>.-'<;.'
< 7 77.'?1>;>>. / 7<.7 7 ?,66.>. .'?'1 B0.<. ;5.1 ,<?'1
7 < ; ,1?6 .;;5>65'675=4.',< / @7.8 ;'?'05.'>.'?,66>>.1
5,' > / .8 '?41 4< 5'7.P ' 5 71.'> <E;,>'7 ,<8 >4=4.5
?E,?1 >7' 1.'5.' ?,66.66.41 5' 7 .<>1' E ?'1 0' 5 ' ;.'6
,4 ' 1.<7.

.6 1.>.-':;.6 .7' = 7,7 7> >.'E14 768 '??'17.'
<'<7.6'>.'; >.-'<76. J<.7 d6 >.'5 .E8 .<;,1.'=4 .55.6
6, .5 7 =7 '5 E ..6 1EE17R.18 <.' 6.1, 7 ?, <7 1>?47>.6
> / .6 <E>,>>.68 <5 64Q.75.6 > 5' ?1>6, / ?7 ,:'>4 ;4 '
< / 5 >.'5' > / .8 6 5 .@ 67' 78 >'<6 5' ?'1,56 .',4 >'<6
5.#'< ,< 641 5.=4.55;6> 7.6 1.>.-'<;.6 6.'?.1I , -.478
4< >>; / '7;41 .;;5>6 467 =4.' ,7 '5'7.8 .< ?,66.66 ,<
>.'?.1;.-, 1 5' > / .'>.6 J1,6 E14 76 8

0'<6 5.6 ?'V6 .7 5 .4@ ,E'5' > / .' .7' 7 > 46'J.'
;, / / 4<8 / ' 6, 7 5.'7.<>6 <> / .'>.';.'>1, 7 ?,7 -' 7
6.'?E.6;1 1.8 6, 7 ?'1 46'J.' J.<.1'5 > 44.'?41, 66.'
,4 > 4< ;'<7,<8 6, 7 / > / .'?'1 5.' <,< 46'J.' 61 1 4<
7.<>6 ?'15 # 5 . 8 5' ?1.6, / ?7 ,< >.'5 7 > / .' '-.;'5'
1.>.-'<;.' .< =4,7 7> >.'E14 76 '41' 5 .4 5,16=4K '>57.'
1.>.-'<;.'6.'71,4-.1' '??'17,< 14 4 '; >.-'<7 0.<.'
E ; .18 ' 4< ; >.-'<7 ;,1?6 ,4 ;, / <4 / '47.8 ,4 ' >.6
7> / 5<'51.68 ;=55>J.68 : ? 7<5 @8 ,1>1.>.' %$$ 'Q 7'
,471;6 ;,1?6 / @7.6 =4 .7' .<7 ;'?'05.6 >.' ?,66.>.1
5.6 > / .6.;;5>6 '65 =4.686 > ' 55 16 5'> 7.'1.>.-'<>.'
.7' 7 ?.1;4.' ' 5 71.' J. .7 '5 .7 44 -.16.5 641 4<.'?' '
1, 66.' ,7.64E 4< ;'<7,<8 >,<7 5.6E,<>6 7 .'E466.<7?, <7
,664Q.77 6 ' ?'V.1 6>?'1. / .<7 .5 > 67 <.5.7<.<7 5' > / .8 '
6, 7 ' 4< '471.'>;; / '7.41 .;; .6 '67 =4.' ,4 5' ;

H ' ' ! & ' #)#& ')!) (< ' ! !@
%)!' , ' ! +#!' + -F !'< = !'< ')< ! '
)#) ' !' ' # !' # #) (' +#!' ! '
?# !' ! ' !' ' !' # #) '$? < ' ,
!# ' #C! ' # ' ' ' &!

' ?1.6, / ?7 ,< .7'O55.'QP'S 1'17 ;5.'?1>,>>.47
'41''5 .48 .<;,1.'=4 5 <.'6, 7 ?,457Q 77 > =4.'5.6?5 '
?1 .7' 1.6 >.' 5' 1.>.-'<;.'E466.<7 ;41.6 ?1 / 7 E68 ,4
.466.<7 64??,17.' '4;4<.'>.6 #:'1J.6 ,1> <' 1.6 >.'5'
> / .

0'<6 5.6 / > / .6 ?'V6 .7 5 .4@ <> =4.6 .< '1 '
5 .5.' 55 ; >.66468 5' > / .' <.' '(.+ ?, <7 ?1>64 / >.'
>04 7 5>.' '-..'5' 1.>.-'7 ;.' .< =4,7 7> >.'E14 768 5,16=4.'
5'> 7.'1;>.-'7 ;.' '??'17 .<>1' ' 4< ?1,?1 .7' 1.'5' ; 8
.<;,1.'=< .55.'5 57 ?'1 < ?,66>>;';0>.- 7 > 5 71.'>.'
5 .E .7 =4.'5.6 7.<>68 64Q.76 ' 5'> 7.'1.>.-'<;.8 < .46 '
6. 7 ?, <7 ?14,.>. < / .<7 ?'-.'5' > / .' ' 4< >;; / 'M
7.41 .;;5>6 '67 =4;' ,4 5' ;8 ' / , <6 =4.'5.';4 / 45 <,

.'71, > ?1,77->'(% '5 71.6 ?1 / 77516 ,4 >>;5'1'75E68 ,'
4 5 <.6, 7Q467 E > =4.'5.' ?1,?1 >7'51.' 7 >7.'66 Q;7
' =4.5=4.6 4 4<.6 >.6 ;:'1J.6 , ><' 1.6 >.'$% > / .
' '5 68 7,<6 #6 ;'6 ,E'5' > / .' '41' .7> >;#5'1'
;4 / 45>4 '-.;'5' 1.>.-'<;.' .< =4,7 7> >.'E14 768 > '?1'
5.6 1>J5.6 ; >.6646 . ?1 / >.68 5' 1>>4;B,< >.'5,'<
>.-'7 ;.' 6;' E.1' ;,<E,1 / > / .<7 '4 E 1.J .6 ?1.6;1 7'
?'1 1'17 ;5.' ' '>4 5 71.' '>.' 5' 5, ' ,< ' ,-. / 0'
(* 8 .5 ?'1 5'5, '>4 'Q4 < (* 8 <7.1?1.7'7 -.'>'
7 57 '17 ;5J' '
' $ ' C # ' '5'> 7.' '> ' 5 'Q5 :' 57 * 8 '
! : !' !' !4 ! !' +#!' ' !< > ' ' '
&!' ! '2 ')* & ' # 4 & ' # ' ! '% = : '
!' !)!% ! ! ' ! !' !' +#!' !') & ' !' ! '
'5' +# &!(+# &) #) &&!' '
' !' '% = !(! ' ' &!' # ' ' ! & !(9 !&!'
9 !' # ' ! 9 $! !( ) ' #C # ' # ' !' # !' '57.'
%!&! (' # ! ' !' ' &!' ! ' '
$? ! !' # ' +#, # ! !' ' ' ! '
')!' ,4 ! & '$ ') +#! !! 5' ! ' '
Q ' ! !%)!' #) * # '6.1' $!'?'1 !' '
(' ' +# ' !' ' !' !' # ,# =!(' '
!' ' !' ! ' $ # ' !) (! ' ' #) '
! #) ' ! %!' '5' ! # ' !' ' &!
' '<6 7,46 5.6 ;'6 , 5G ?'1 5.6 > 6?,6 7 ,<6 >
?1.6.<7>.;1.7 5' ?1.6, / ?7 ,< >4 ;4 / 45 >.' 5' > / '
'-.;'5' 1.>.-'<;.' .5 =4,7 7> >.'E<5576 <.' 6.1' E,<>'
=4.' 641 5' 1;,<6 '<;.'=4.'5.'7.<>6 86 V.7 ' 5'> 7.'1W
&5.-'<;.8 <.' ?'V' 7 ?, <7 ' > / .' >.6 J1,6 E14 768 '
?1.6, / ?E ,<7 '41' ?546 5 .4 6 5 .7' 7 ?'V> '4 ; / '
,4 J1,6 >>, < '7.41 4<.' 1.>.-'<;.' ,4 ?1.67'7 ,<''
<4.5 >8 6, 5. '41J.<78 6, 7 .< J1' <68 ' 5 71.' > '0,5
<. / .<78 .7 ?,41 7. 1 5 .4 >.' 5' > / .I B.< 6.1' <
<> / .'6 5 >7' 7 ?'V>' ' ; 71> 7 .'1.>.-'<;.' '5 71.' 1
?1> / ;.68 6'<6 E54; .'> / .8 ,4 5 54 ' '-' 5 .7> ;.'
>.6 E4<>6 ?,41 7.4 1 5 .4 >.' 5' ?1.67'7 ,<>.'5' >5W<
.<;,1.' =4.' 5.> 7 '0,<<. / .<7 ,4 .6> 7.6 ;.66 ,'
<' .47 ?, <7 .7.'E' 56 '-.;'5.';,1?6 >.6 :'0 7'<76 > 41
?'1, 66.' ,4 > 4< ;'<7,<8 ,4 =4 56 4 ' .<7 ?, <7 .'
1.->77 6 >.6E,1 / '5 7. 6 ; >.-'<7 1.=4 6.6?,4E 5' -7
5 > 7> >.6> 76 40,<<> 4.<76

B.'<<, 68 >'776 5. '?'1,56 .6 >.'5' ; >.-'5 7 ?1.'
- 4;.'>.' ,7,48 >'<6 5.6=7 .55.6 '>7' 7 > 7 6'J.' >
?'V.1 '4 ;41> 4<>1, 7 >.'0, 66.5'J.8 5.6 :'0 7'<76
.6 ; >.-'<7 6. J<.4168 ?1,?1 .7' 1.6 >.';:' / ?'17 '
6 @ . / .8 >. / .41.<7.,<6.1->6 1.6?.47 -. / .<7 >'<':
>1, 76 .7 >>E.<6.6 = '5.41 ,<5 >7> ;,<6.5->6 ?'1 .>
>4 / , 6 > ',>7 (((8 1.J 671> '4 ; >.-'<5 ?'1 . / .'
>.' '1 68 > '>.6> 76 / , 6 .7 '<8 '5' ;:'1J.'=4.'
Q 6=4 '4 Q4J. / .<7 >.6 ;,<7.67'7 ,<6 <>.6 .7 ' '41.'
5.6 ;:' / ?'17 ;,< <4.1,<7 > 71#?'V>6 8 ?'1 ?1,-'
6 ,<8 6, 7 ' 5' <'7 ,<8 6, 7 '4@ ?1,?1 .7' 1.68 '< 7'<
';;,474 / >8 6'4E 1.67 747 ,<8 6 55 V ' 5 .4
' ' ,47.6 5.6 > 6?,6 7 ,<68 6, 5>4 ?1.6.<7>>;1,'
6, 7>.' ,.54 '>4 'Q4 < (* 8 &c4 '?'15.<7 >4 ;4 / 45 5
5' > / .' '-.;'5.';:' / ?'178 J1 .1,4 7.11'J.8 6 '??E
=4.1,<7 '7, 7.6 5.6 1.>; ' ;.6 0<; >1.6=4 6.'Q ' .1
.< =4,7 7> >.'E14 76 1>;,77>6 641 ;.'7.<>68 6, 56 = ;5=4
5 71.' .7>.<, / <'7 ,< =4 .55.6 6, .<7 ?.1=4.6

' ' ' ' ! ' ' 9 - 2 ')('
' ' F A' '

.6 '17 ;5.6 =4.'<,46 '-,<6 >,<<.6 641 ;.7 ,0Q.7
>'<6 5.'<Y *U8 <.'6,<7 ?, <7 .@';768 #.77.'<,<-.55
1.>';7 ,< .67 ;,<E,1 / .' 1 ;.55.' >4 ?1,;.6 -.10'5 '
66. / 05..'<'7 ,<'5.

< B , / '5.6 5 > '6< >.46>5 6 >.' J.' 7 .' ' '
6.1,<7 1> 7 6 7' 55 68 .7 6.5 <7 -'5<# ' .7 .'7 6 ;4>7 '
/ 4.<7.<@ >56?,6 754< '>.6 4< ;5.6 ' 5 5 .7 ' ' >.'5' \
>4 p'>>.. / 01.' (8
Q ' .6 0, 6 ! #! ! ! ' ! & ' ! ' 1= ' !'?546 .
.47.' ' ! # ' .67 7Y 6 1 ! '% ! ' ! ! !(! ' ..7 6'
C? +# ' 5.41 .@?5,55'5 ,<8 ! # !' 56 ?1,>4 6' / 1 '
)% & ' 1= ' 1 ! ' ! ' !$ ' # ' !! ' !')! !% !

[illegible]

_ $!4 3 3

D WBE % ' ' ! '4564' C'<

7 Q53 7 8

.` 3$ VE *#

'!) ' ' - ! ' + ' . <?.1.41' .67 1.-.<4' >'<6';.4.';% ?7'5.'5.'C ' '46, 18'
.'>4.'>.' ?>.<.'6.'?1,?,6.8'> 7 ,<8'> '0'<>,<<.1' ' 'J,< . / . / .<7'>.' 6.6'97'76' '' 6,< J.<>1.8' '1;: >4;' H.1> <'<>8'J,4-.1<.41'J < 1'5' >.' 5'' , / 0'1> .' '4 ' 71 .: .<<.%
' / 0'66'>;'1' >.' K466 .' '' 1.;4'5.' C ' '4' 6, 1' '<' ;,411 .1' >4' J.<.1'5' ?1 <;.' K.?< <' =4 ' 545' / '<>.' =4 ' '<7'?'66.'5.' '<40.' ' -.;' 4<.' ?'15 .' >.' 6,< '1G' 7<..' 5.' *' >.'1.' / , 68' 5' '' '77'=4.' .7'>.E' 7' .<7 .1. / . 4' '1 / '541=4.8'1'66. / 05..'?1.6'>.' ' .0 <8'.<'K45J'1 .% # .77.' '1 / ..' .7' 7'>.' (8 ' : , / < .68' .7 ; , / ?,67'>.' .5 7.'>.6'71,4?.6' > 6 ;8' 6,46'5.6' ,1>1.6' >.' #0'?'<' J5,4' .7'>.'a'1' 6 / '< J5,4% <' '' 71,<-.' >'<6'5.' ;' / ?' .<<. / 8'>,<7' ,<'6 .67' . / ?'1.8' '? .;.6' >.' ;'M <,<' 5.6' 41;6%' ,<7' ' 669' 641' 5'' ?5';.'?546'>.'U8 ' :, / / .6% <' '' ;, / ?7.'>4' ; ,7.'>.6' K466.6' ' 7496' .7' .<- 1,<' '05.66.6%
H.4' . / ?.1.41' '-' 5'64??1 / .'5.6' ; ,411 .16'>.' ;'0 M <.78' ;7' '-' 5' E' 7' E' 1.'5.41'6.1- ;.' ?'1'6.6'J'1>.6l' ;.6' ; ,411 . 68' '4'<,% / 01.>.' C8' - .<<.<7'> .71.'1.;1..68.7' ,<'5.41' '' >,<<.' '47'<7'>.' 64??5.'<76%' .' 71' 7. / .<7' E @.'> 4<.' ?'1. 55.' ?5' ;.' .67'>.' 'E5,1 <6l' <' 6' =4'<>' 56'6,<7' .<' ; ,416.' ,<'5.41' '55,4.' .<' ,471.'4<'>4;'7'?'1' Q,418' .7' 4<.' '471.'6, / / .'>U7.1 < U.'64 -'<75 .5, J<. ' / .<7'>.6'5 .4@' ,4' 56'6,<7' .<-,Q .6%
.6' '- 6'>.'5'' '5' ; : .' E,<7' .6?.1.1' =4 ,< 1.;.-1'' 71.6' <;.66'E< / .<7'5'' <,4-.55.' >.' 5'' ;,<;546 ,< >.' 5'' ?' @' '-.;'5'' ,17.' ,77, / '<.% .6' <,4-.'4@' ?1.?'1'7 E6' / 5 7' 1.6'=4' '-' .<7'.7.' ,1>,4<.6' ; .66.<7' .<7 .1. / .<78' G.7'5.6' ;, / / 4< ;'7 ,<6' .<71.'5.6' 64Q.76' 1.6?;;5 E6' 6,<7' 1 7'05 ;6%
% ' / 0'66'>.<1'>.' H1'<;.8' =4' ' -' 5' ; / ' ;,<V. ' <'05.' >.' 6.' 7.< 1' '' 5 U;'15' ?.<>'<7'5.'7. / ?6' =4.' ,< < .7' E' , ; ;4?.' >'<6'5.6; .1;5.6' >.' 6, ; .7 ' =4.%>.6.-. ' <.1'.<76'>.' H1'<;.8' ''1.?'14'>'<6'5.' / ,<>.' '?1.6'4<.' ; ,<E.1.<;.' =4 5' '' .4.'5.' U' -.;' %5,'?1 <;.'>.a'4 ' < '%%%%% ,? < ,<'J.< 1'5.' .67' =4.' 6 / 05..'<'7 , ' <'5.'>.'H1'<;.' 6 .67' ;,<>4 7.' ' -.;' 4<.' :'47.' 'J.66.' .<'<.'71'>4 6'<7'?, <7' ,4 6' '' '>.-'<7'4<'71 04<'58' .7' .<'<.' .0'<J.'<7' 1 .<' '4@' '17 ;5.6' ; ,<67 747 ,<<.56' >.Q''>.;1.5;6%%

'$! ' *H ' ^ ' <' '??1.<>' >.' B'7 6' 0,<<.' =4.'5.'>4.'>.' 417. / 0.1J' ''1'??.5.'6,< / < 6' 71.' ; , / 7 '5' '-'<7' ,4-.1741.' >4' ?1,7,;,5.' 1.5'7 E' '4@' ?1 <;.6' ?,66. 6 ,<< 6' .<'H1'<;.%
''1 J.<;.'>.' B'<,-1.' - .<7'>.'>.;:'1J.1'>.'5'';'M ? 7'7 ,<'5'' ;5'66.' <> J.<7.'>4' ?..,?5.8' .5'>.'1. / ?5' ;.1' 5.'>.E ; 7' ?'1'4<.' '4J / .<7'7 ,<' >.' 7'@.'641' >.6' / '1' ; '<> 6.6 .'54@.%
' <' / ?<>.'>. K.15 <'=4 ,<'V ,06.1-.'4<.' ';7 - 7.' .@M 71' ,1> <' 1.8'7'<7'>'<6' 5.' ;'0 <.7' =4.' >'<6' 5.' ; ,55.J.' 64?>1 .41' >.' J4.11.l' / ' 6' =4.'1 .<'<.'?.1; .'>4' 047'>.' ;.6'71' -'4@%
<' 7'5 .<8.;1 7 ,<>.' .<<.8'<,< / .' <7,< ,' ! 4' Q'< 8' - .<7' > V ?405 .1' 4<' ,4-1'J.' '-.;' ?.1 / 66 ,<8' >'<6'5.=4.7' 5' .<71.?1 6'>.'?1,4-.1'=4.'5.61.-,547 ,<68' '' <67'1'>.' ;.5 .' =4 '6 .67' ,?.1.' .<'H1'<;.8'6,<7' <.M - 7'05.6'>'<6'?1.6=4.'7,<6'5.6' .7'76'>.' H410?.l' =4.' 5.6'> -.16' .7'05 66. / .<76' =4 ' 6 V 6,<7' <71,>4 76'64.?.6' - -. / .<7'5.6'1.<>.<7' > 4<.' <.;.66 7.' '06,54.8' .7' =4.' 7,47.6'5.6'1>6.6'>.' J,4-.1<. / .<7' 6.1,<7' / ?4 66'<7.6' '' 5.6' ?1.-.< 1' .7' ''5.6' '71.5.18' '' / , <6' =4.' 5.6' 6,4-. ' 1' <6' <.'6,<J.<7' 1 .46. / .<7' ''E' 1.';.66.1' / / .<6.' > 6?1,?,17 ,< =4 F .@ 67;' .<71.' 5.6' > -.16.6' ;5'66.6'>.' ; 7,V.<68' .7' '' <71,>4 1.' .4@ / > / .6' 4<' <44-.5' ,1>1.

>.' .:,6.6% .' 5 71.'>.' ; .7' ,4-1'J.8' U;1 7' .<'5'<J4.' 7' ' .<<.8' .675.645-'<7N @ ' 1 ' ' ' & A)' ' &
<' / '<>.' >.' K.15 <'=4.' ,E' ;1, 7' = .'5.'1, ' '41'' 4<.' .<71.-77.' '-.;' . / ?. .41'5,16=4. % %6.'1.<>1'' .<' 5.6 .' ?,41'VE' 1.'5''1.-4.'>.'6.671,4?.6%

%

' ' ' (F ' ' .67' '11 -.' >' ?546 .41 ' H1'<;' 68'<, / / ><.<7'5.'J.<.1'5'>.B.V / '<<8'4<'>.6' E56'>.' %>.'K,4 55U8'.7' %> J,4:'.7'>.'K1';,<7'5I' 5.6'>.4@'?1. / .16'6,<7' '55.6' '' ,76>' / %
%5.' '1,<'>.' B ,1678' / < 671.' ?1 -.' > > '7' .7' >.' J4.11.8' .67' / ,17 '4@' .'4@' >.' .77.168' '' 5'' 64 7.'> 4<.' '?,?5.@ .8'>'<6'5'' (p' '<<..'>.'6,< J.%
'D '' &' ' 55V 77.7% + ' .6'1.J / .<76'>.'H' ' -1'76' .7'>.' 5>'<'6,<7'1.7,41<>6'> ;' ''5.416' '<; .<6' =4'17 .16'>.' ; '<7,<<. / .<7'N' 5.6'1.J / .<76'>.' B .<M .58' ! 55. / 8' .7' 4<.' ?'17 .' >.6' >1'J,<6'>.' .15: .1' 6,<71.-.<46'>.'5''E1,<7 .1.8' ,>' 56'6 .7' .<7'?1,7.6% .6' >=4 ?'J.6'>4'1, ' .7'>4'?1 <;.'1,V'51.- .<<.<7' ; % ,45' A '<<, 7; .'>.6'>. / '1; : .6' ?' ; E =4.68

%' %

' ! ' ' U ' ^ ' ,46' -.<,<6'> .71.' >' ' / , <6' > 4<'6?.;7' ;5.' =4 ' ''1. / ?5' 7,46'5.6' ; ;.416'> .< ' 7: ,46 '6 / .% # .7' 7' ->1 7'05. / .<7' ''E.7.'71 ??0'5.'>.' 5'5 0.17>% '6, ;5.7.'>.6' ,5,< ' 1.6' 6 .67'1.4< .?,418a' ;>5>01.1'5''1.-,547 ,<' >.' H1'<;.I' .58' >' 4'4<.' / '1;0.' ?, / ?.46.' ,< > <J.< .4@' . / 05> / ;6' 1.71';' .<7' 5.6' # 1; ,<67'<;.6'5.6'?546'1. / '1=<'0 66'>.' ; .7 .-.<; / .<78' .55.' '' ,EE.17 '4@' V.4@' >4' ?.4?5.'7,47' ; .' =4 ' ?.45' 54' 1'??.5.1' 6.6' >1, 76' .7' 6'' > J< 7>% <' 6 / 45';1.'>.'5'' K'67'55.' .7' 7' 4<'>.6' ,0Q.76' =4 ' '77 1' .<7'5.' ?546' E' 77.<8' 7 ,< N > 4<' ; ,7.' ,< 6' 7' ; .6' / ,768N' '- ' ()*8' & ' ' *' >.' '471.' N 87 ' A' ' 0 '1 0 ' ' .'?,171' 7' >4' -.<.1'05.'>,;7.41'H1'<; 5 <' .7' ; .54'>.' 1'0.'4' .7' .<7' ?,17.6' ; :' ;4< ?'1' >.4@' -,5,<7' 1.6% .' ?1.M / .1' '-' 5' ?,41' >.- 6.N' 7 ' & ' .'6.;,<>'N ' ! ' ' ,! ' ' 8' A ' ' - ' ' 1 'f' % % 8
.' ; ,17.J.8' '?1.6' '-, 1' ?'1.>414' .<'5,<J4.' E5.' 7,47.6'5.6'14.6' 4<' ?.<' ; ,<6 >.1'05.68' .67' '11 -.'U'5'' ?5' ; .' > 7.' >.6' , 5.6 K5'<;:.68' 4' 71, 6' E.4@' >.'Q, .' .7' .<7'?1.?'1.6N' 56' ,<7'>7.' '55<<'.6'64;;.66 -. / .<78' .7' >.6'6'5-.6%> '17 55.1 .' .<' ,<7' '; ; , / ?'J<.' .@?5,6 ,<%' 5,16'5.' ; ,1?6' .<7 .1'>.6' -,5,<7' 1.6' .7'5.6' ; 7,V.<6' =4' 5.6' '; ; , / ?'J<' .<7' .<'E,45.' 6.' 6,<7' >.-.5,??.6' .<' ; .1;5.>'<6' <7.1 .41' <> / .'>.' 5'' ?5' ; .8' .7'5'8' > 4<.' -, @'4<'< / .8' 56' ,<7' '>,?7.'5''>.;5'1'7 ,< 64 -'<7.' I W' .6'>1, 76' .7'5.6'>.-, 16'>.6' ; , / <.6'<.'?.4-.<7'>71.' J1'-.6' > 4<.' / '< .1.'6'>41'05.'641'5.' / '101.' ,4'641' ' 1' <'=4.' >'<6'5.41' / . / , 1.' .7'>'<6' 5.416' . / 416% W' ,46' -,<6'; ,<6';1.' ; .'Q,41' '' ; . .01.1' 5'' 1.-,547 ,<' >.'H1'<;.8'E <'=4.'5.'6,4-.< 1'>.' #.'J1'<>'.-.<. <.<7' 6 ;<E,<;.' > 4<.' / '< .1.'?1,E,<>.' >'<6'<,6' > / .6' .< ' ' E5' / / .;68'<,<'6.45. / .<7>.6' 'EE.;7 ,<6'?'71 ,5 =4.6'>4' ; 5,V.<8' / '0' .<;,1.' >.' ; .57.' 6V / ?'5: .' 4< -.16.55.' =4 '<,46'5 .' ' '7,47.' .6?.;.' :4 / ' <.' >'<6' 4<.' E1' ' 7.1< 7.> <7.1.768' >.'>.-, 16';7'>.'7.<>1.66.%
<.'1.-,547 ,<'65 1,?,17'<7.'?,41' :41'' < 7.8' . / ' 01E766'<7'7'<7'>.' / 55 ,<6'> ; , / / .68' .7.<>4.' 41' 4<.' 6 'J1'<>.'641E' ; .'>.'?'V68' .7' ; , / ?5.7..' >'<6' 4<'7. / ?6' 6 ; ,4178'.67?1,?1. '' .7,<<.1' .7' ; ,<E,<>1.' / 'J <' ' \ 7 , P ?'1'5''J1'<>.41'>.' ,0Q.7' .7'5''1'? > 7>'>.6' / ,< ' ' -. / .<76% ,46' ?.<6,<6'>,<.' =4.'5.' / .4@' .67'>.' <,46' E @.1' '' 4<.' -U1 7.' 6 / ?5.' .7'6405 / .' '<7,41'>.'5'=4.H.

<,6' ,? < ,<6' -5.<>1,<7' 6.' 1'<J.18' .5' <,6Q4J. / .<76'
;0;1; : .1' 4<' '??4 ' 6,5 >.W >46' E5 ' - ,7 6' =4.' >4' 0 ,<'
6.<68' / ' 6' <,46' 5.' ; ,V,<6' Q467.' .7' >1, 7%' ,46' - ,45,<6'
B94]>.5\ '11'66.1>.' ; .6' 5 .<6' <'J =4.6' >,<7' 4<.' >, '
=4.<>,' .,1>, / ?4.' .7' 6.>4;71 ; .' - .<7' -% . / . 5' > .6'
6'V.1'5.' ?,4- , 1' ?,41' .,410. ' >.' <,4-.'4' 5'' 550.15g8'
.7' 1 ?1 / .1' 5'' E,1;.' <- <; 05.' >4' J.<1.' 7 4< ' <' c' .7'
K'<6' <,4K' 5' 66.1' <' .05,4 1' ?'1' 5.' 5'5.7 58' <7' '0147 1'
?'18' >.6' 6 07 5 7.'' / V67 =4.68' <,46' - ,45,46?.<6.1' .7'
>.;5'1.1' <,6' 6.7 <. 768' : , , " '"V (

G ' 5 , 6' ?;<6,7 6' =4.' ;' J,4-.1<.G'
/ .<7' .67' 17.' .,<-.<7 , 5' '' 46 J.' > '?.4?5.' ' 4'
?.,?5.' .<' ?5 .<'<7' >'5 6 ,<' 7.<6' ;' c 6' . <>4' ; .' / 7'
6,4-.<7' '7' <7'5' ; . / ?1 6%' , 56%?.<'4<6' = 5;' ;' 0 .<' ? d
05 ;'.67' 5.' 047' >4' J,4-.1<1 <.<7' ' ;7' = 4' ;6' E,1 / .6' >>'
a ,4-.1<. / .74' <.' 6,<7' =W.' >.6' E7,Q.<6' 5 '77. <> 9' ; .'
0 4 7P' / ,V.<6' =4 ' ?.4-.<7' 6'<6' ; .%66.' . 1.' <.> 5 .6' ,4'
; : '<J.6' ?'1' 5'' - .1 7'05.' - ,5,<7.' ?4055=4;8' #.77.' - 5,<7.'
64?1. / .8' ; .77.' '45,1 7.' 6,4-.1' <.' 7 .' 5,47.6' 5.6' 71;6%
G ' " !' <,46' ?.E56,<6' = 4<' ?.,?5.' <.'
?.47' ?1, / .75 .' > ,0. 66'<; .' =4.' ; ,<'57 ,<<;55. / ; 58'
.7' =4 .55.' ; .66.' > .71.' 4,' >.- , 1' =4'7 >' 5'' ,5,<5#' >,'
?.4? .' ; .66.' > .71.' 5'' 5, ' >4' ?'V6%
G Z C' 0 ' <,46' ?.<6,<6' =4.' 5'' E,1; .'754
#4?7.' >, 7' .71.' . / ?5,V.' '' J'1'<7 1' 6'' 5 0.17#8' ;5' 7? .'
5 0.17.' .67' 5.' 6.4 ' J'1'<7' 641' >4' 0 ,< .41' ?405 ;%
.65' >,<.' '' ; .6' ?, <76' K>.' 55 ' <,46' E @,<6' I%.7' - . '
1 7'05. / .<7' 6' ,<' 4. / '<>;' =4.' <,- 6' < ?,17.' 5'' 1.- ,M
547 ,<' >.' H1'<7.8' ; ,46' 1.?,<751,<6f K.'K;,4?%
GG (' "' ' *' I ' # .67' 47'
0,<: .41' ?,41' 5'' <'741.' :4 / '5<.' =77.' 5.' J'.,<' ;1, 66.'
, ` Q'7E 66 .5E.-' ' 5'' K'67 55.% ,46' <,46' 1>Q,4 66, 6' > 4 '
.-.4. / .: 7' =45' 1, / ?5' 5.' >: '1<7.' ?'1' 7.=4.5' 5'' H >5 >'
><7 .1.' 7' 7' 1.7.<4.' >'<6' 5'' 6.1- 74>.' > 4 .' 0'%67 55>; '
- 5.' .7' 1.5 J5.46.8' 3 4'<>' <,46' - ,V4<6' .<7.' 9<,7d / .' ;7'
E4:> 5.' E,>7.1.66.' > '046' >1' .7 7.6' 6.45> <.<' ?'1' 5 :'W
0574>.8' #,7760 4 .' 641' J<,1'<; .' > 4<' ?.4?5.' '0'774 I'
=47 / 5' <,46' 5'' - ,V,46' .01'<5#;' 641' 6.6' E,<>. / .<76' 8' .7'
6,4>' <' 1.>4 .' '4' 7 - .'4' >.' E.J' ' >4' 0 .<' J.<.1'58'
<,46' : '1=4,<6' <, 1.' Q, .' 7' ; .77.' 1.6411. ;7 ,<' >.5'' <' '
741.' :4 / '5<.8' .5' <,46' E. .57,7 6' <,71.' E1. .8' : , / / .'
6,17'<7' >.' ..6' 6,47.11'5<'' ?. 6. ;47.416' .7' 7 .' >.6' .'Y
- .'4@' 'EE1.4@' >.' 5'' / ,17%' ,46' E.55>5,<6' 5.' / ,<>.'
;5 1.75.7' >.' ; .' =4 7<.' J1'<>.' <'7 ,<' 1.<,<.. ' '' 5,47.'
>..' >.' >,<=4 7.8' .5' ?40 .' J5,1 .46. / .<7' 5.' ?1. / .1'
<'< E.67.' > :4 / '< 7.8' > 4< , ,' .7' >.' ?' 7 7' <' 1.; ,<G'
<' 66'<; .' > 4<' 7.5' 71.6.'78' <,46' ?1 ,<6' 5.' 7 5.4' 7 .' ?' '
> : '5 55.1' ?,41' 7,4Q, 76' ; . .' 5.11.' 0 .<E'5 1 , .' 6 , ' >.'
<.' Q7 / '76' ?.1 / .771.' =4.' 5.' 71 ?5.' >.' ?,756 / .' >.6' 1,768'
>.6' <,05.6' .7' 7 .6' ?7.71,6' ? 566D' 71,405.1' : '1 / ,< .'
> 4<' ?.4?5.' >. 0.1<<7' 641' E.6' 5,76' '4 ' >,5-.< ' '6641.1'
6,<' 047 : .7 1' >7' >.577' >.' 7'47' >.' / 55 ,<6' >.' <,6' 6. / G'
05'05.6' .<; ,1.' 7' <'771.%' i
@ 7 '1 0 '5''1.- ,547 ,<' >.H1'<; .'
.67' >,<.' 0''47 E 4?8' 7<' 6' 0.' ; , ?' ?,41' <, N
C7' @ ' ! ' - 6 [' ,46' ' - ,<6' '4665' 7 <.'
?'715.8' .5' = '%<,46' .67' 05.<. : E.1,' I6 ' ; : .1.8' =4'<7' 76.6'
<7 1.768' =4.' <,46' 6,4?1 , / 7' '?1. ' '0.'<7 66. / .777' >.'
7,4 .' <7,5.1'<; .' ; - 5.' .7' 1. 5J .46.>'<6' ; .' ?'V6I' 6'
1:07e 8' =4'<7' '' 6,<' : ,<<. 1%' =4.' <,46' '??.5,<6>.'
7,46' <,6' - ,.4@' 5.' / , / .<7' , '' ; .66.1''?,41'Q' / ' 6' ; .'
; , / / .1; .' <E> / .' >.' 5'' 5 0.17V' ?405 =4.8' =4.' <,46'
- ,V,776' - .<>4.' ?'1'5 4 B 8'757.7 '?'1' '471.' I6 ' ; : 1.8'
=4'<7' .' 6'' 5 0.15>8' =4.' 5.' ?546' ?1,E, ; >' .7' 5.' ?5467 ,<6 '
7' 7' 7 .' <06' >.6516' ' 7 ' ' '
;' 6.45' J4 >.' .7' 5.' 6.'5' J'1\G
> .<' >>' *
,4164 6' >,<.8' ?.4?5.' J1'<>' .7' J.<.1.4@8' ?,4164 8'
; ,<7 <<.' '' ?1' =4.1' 5'' 6405 / .' ?0 5,6,?: .' >.' 7J
5.J 65'741.8' ' E7 1; .1' 5.6' '??5'4> 66. / .<76' >.6' <'7 ,<6'
7 ' / , 06' > 6?,6#.6' 7.1.<>1.' Q467 ; .I' .7' <,<' ?'1' 5.6'
; , =<> .68' 54' 6' ?'1' 5'' 7,47. ?4 66'<; .' >.5''1' 6,<I'
; ,<-.1556' .7' >#' -1.' ;' / ,<>.' 8; ;' / ,<>.' >,<7' 5.6V.4@

6,<7' E @>6' 641' 7,78' >,<7' 5.' #,.41' .67' 6'<6' ; .66.' '4' / 5 .4'
>.' 7, 8' =4 ' 6 .755 7 .<' >.' 7,7' >'<6' 7,47.6' 6.6' 5,''<J;68'
4' .6' 6'<6' >,47.8' ,4 8' 77 ' .6' 5'' - .1 7'05.' . .1'<; .' >.'
7,47' 4< - . 6' 8' >.' 7, 4 78' '' .@; .?5 ,<' >.' =4.5=4.6'
: , / / .6' >'<6' =4.5=7 .6' 7'0 17.568' =4 ' ; 1, .<7' =4.' .6
.; .' : 4 / '5<.' 5.41' '??'17 .<78.5' <,<' ?'6' .4@'5 .6?.; .'
41'' <.8' / ' 6' =4 ' / ' <7.75'7 7' 46714 76' ?'1' 4<' 1.>, '
7'05.' .@. / ?5.' ., / / .<; .<7' '' 71. / 05.1' .7' 4 ,6.<7' ?546'
6.' ; ,<5 .1' '' ; .6' '1 / ..6' 1'66.7<05..6' ; ,<51.' 7, ' .7' ; ,<7E.'
5'' ; '46.' =4.' 74' 6,47 .<6%
,46' ' - ,<6' 1.6,54' 4<'< < . / .<7' =4 4<.' ; ,? .' >.'
5'' >.;5'1'7 ,<' ; >,6646' 6.1'' '>1.66..' ?'1' <,71.' ?1.6 M
>.<7' 8' '4' <, / ' >.' 7,46' 8' '' 66. / 0 ..' <'7 ,<'5.' >.'
H1'<; ,%' & ' 4%% B 77%-K%
'E ' >.' ; .77.' 5. 71;' #,<7 .<7' 5.' >.7' 5>.6' 7,6676>,<7'
.6?1 7' 6.' >.-5<.' 6'<6' ?. <.%

K %

7 ' (' ' ' ' 7 5' '11 - .' ; ,< 4.55; / ;<'
5.' 7 .6' ,5B; .16' E7 '<='56%' ,46' 5.6' Q, E6' =46 =4.6 4<'
?'15.7 7' >.' ; .55.' - 55.' ?,41' 6.' 1.<> .' 2' =4.5=4;' >;6%5'
<'7 ,<8' 5%1' <, / 01.' ' ' >.6.17;416' .67' 7 .6' J1'<>' '
46' 0,41J%
<.' 5 J01;' .6; '11E5,4; : .' '' .4' 5 .4' ; .6' Q, 16 . ' .'5<'
'40.4J.' .7' ,<6%' .6' 6,5>'56' E1' =' 6' .5' >.6' 6,5>'7
' 571 ; : . 6' ,755' ?156' =4.1.55.' <,41' >. ' ; ; 47.41 %' 1
1' ; ,177.' =4.' =4.5=4.6' : , / <.6' 754' .J / .7 7' 64 66.' >1
. <' ;55' V'<7' 7 1964 d' >.6' 5B; : .7 6' 8' >.Y' 7 / 5 5' 1.'
5 <? 17'4@6.' 6,7 7' ? ` .< .68' .7' &c4.' ,55' 6 .67' 546 55.>1'
?'17%. ' > '471.%%' '' <4< ; ?'5 .' >.' '40.71J.' 6 .6'
0 .<' ; , >4 7.' >'<6' ; .77.' , ; ; '67?<8' .55.' '' E' 7' '11. . '
5.6' <J1.66.416%' 1 Q'' ?546 .416' ,57 ;5.16' E1'<7Q' 6' E571.'
17 ,<6' .7' .<7' ' ; ; ,4146 ' ..' ?5' .5 5 .1' 014 7%' 556;7 V' .<'
5''H1' ; .' '77'=4..8' .5' 56' ' ; ; , 41' .<7' ?,41' ; : '1J.1' 5.411
E5 .1.6%
.6' ' ; : '76' > '1 / .6' 6.' E,<7' >' ' -#;' 0;%'4; , ?' >' ;%'
7 - 5#' ?,41' 5.' ; , / ?7.' >.6' . / J1' '<76% '1J;<' =4' 5.4;'
<'<=4.' =4.5=4.E, ' 7,47 ' ; ,4?' 5.41' 1.- .<7' =4.5=4.'
E, 6' .<' 0 ,<>'<.;%' .6' ? ,?,6' >.' ; .6' 0'<>.6' 6,<7' 5,''
Q,416' 5.6' / . / .6f ,%<' 5.6' ;<54<>' > 1.' =4.' 5.41' 1.<51.7
.<' H1'<; .' .67' E @#;' '4' ' ,E 78' E.7.' >4' 1458' 5.41' / '716%
.6' H1'< ' 6' ,<7' >' 4<.' 6,17.' > <E54.<; .' ' 556, 77' .0'
7.<4' >4' J,4-. ; / .7 7' =4.' ,<' >. ;<> '?546 .416' 01''
; : 41.6' 71, ?' 501.68' .7' =4.5=4.6' , -1'J.6' =4 56' <,7' '
/ .<7' >'<J.1.468' .,71.' '471.6' 5.6' G ' ' 2
$) ' ''?1,7 50 5 ,<' ' 7< 6' ..' >.1< .1' ' - ,J4.I' '
6 .<' E' 7' >.6' ; ,<71.1' ; ,<6%' .' F ' '646?.4>4'
.7' =4.5=4.6' '47 - 6' ?' ? .16' , 7' ,<' 6 .@?7 =4.' 71, ?' E
01. / .<7' 6=?7' 64??1 <.6%

'7 5#5 :5 ' 0 ' 7 7

F ' ' & ' ' ' ' ' ' ' ' '
' ' ' ' ' (* %

(' 3 .4'' *$3$4+ / ' (,+*,' #+$,' . .$Z ##) 4,#,' -
-(2,' +- '' - -' - -4+.,(###(*,' -(' 4 @)(/' -(' '' WH (,' PI'
$ (,/' (,' +8+*,' (.$,($$- ' (''+-*$$*$',.+,(.''+ -$,' --!%
4+.,(,*($,/' 3 *'$--.+$$,' Q$ (' +' .(-+3,$ *' -(' (.'' +0$''
* (24.$ (' 4+'' ' #,$'+ (*,' $*,(* $ *' - ('' +-$*$,$$' !'
,.+,(.' / - *,') (,'4.$*3$4+' +' -,(% -(' #+$.(' 3 * +$,.('
+$,2' (N>.$3$$.'' +' *' - ' $ ' $ (,' -(.*$(./ (,' -(' ('
4.- *$.' 3 $$,$(' +) ''5 $' 4 ..+ ,#$,.(' #+$,-((,$.'
9* .+*3(7' ,$ (' 4.($(.')',$,!%+- ,' - ' 4.+3*!'
.(.' - (' +' 3 *(/+.,-,(5 +' +' .(-+3,$4,$' -.'-($$2'
+0$' / -(''c' 3,' +-' $ (,/' (.+' ')',$, (' +' -$' 4 '$,$ *'
-(' +' $' 5 $' 4 .,(/ +.,$3 (' 4.($(.' =/ (, ''
4(.' *(''5 $' +,. $$,4. 0 5 (' (' (. . / (' 4$ +9(/
$*3($$-$(/ (,' ($$' $ '# (((*,' $,' - ')#(+$$3('
+' +' / ' $' 4+.' - ('' 4 +3+.-'' ' +# $36('/ ' $' 4+.' ,$('
<$(.$ ''4) $3%'' 3 4 ., '/ ' $,' 4$$.-('-$'($$.',3,$ ''
-+*'-('' $(D' ,,+ '(*$) 3''4) $3'/ '3. *,' .(9+.-(('

; , / < .'6> 5 ;46;68;B '5 .17 10'71 ; .6 >.'5'' ?' @ ?<: ' '
=4;' 8 ;7 # ' ; ,<6.=4.<; .8 5.6 ,E5 ;Q.16 >= ?,5 ;= 6 ,<7
'<7,1 6>6 '' 5.6 E' Q= '11>7.1'6<1 5. ; : ' / ?8 ;7 '' 5.6 5 . '
< .771.' ' ?E71Q5<4 '4@ ?, 1 71.? / .66 - ' 7 = 5, I P
,1>,<<.' =<.' ' \ ' >;' ?,5 ; .' - . 5Q.1,<7
'- . .'5'' ?546 & " ' .@';774>.' '' .@>. 7 1'>.' 5''
5, I >.E.<>' '4@ ; ,5?,17.416 > ' K ?; .1 >;6 E.4 55.68
Q,4 '<'4@8 ,< '451.6,<-1'J.6% 6,46 4? 5 71.'> EE.1.<7
>;' ; .5 ' =4 56 ?,17.<7I '< '<>.' .7,1>4<<.' '4 ; ,< '
<'<>'<7 J><>1'5 >;' 7.< 18.<'; .'=4 ' = , ,<; .1<.' 8 5''
/ ' <'1,@>,47 ,<>4 ?1.6.<7'11>7.8 =4 6.1'' / ?1 / >8
'E5 ;0. 8 / 6 '' =1>1= =7 .<-,V;')d ' # < .6 >.6 U)
6.;7 ,<6%.7 '4@; , / / 66' 1.6>.'?,5 ; .%9(JW. Y 48)8
A ' K L8 *& !!

% % 7
K K# % <G

' B %$'4 '& ' &** ' ('E , % ' E ! &! '
- $! '& ,' A$,' ('&& (& ' &2% % B '
% '%*$) ' % & '& ' P% (, , % ((B$ '' '
(! ' '& ' ! 4 ' (% '$,' ! & ,'
' ' ' % 'G 7 '$,' ! &% '
! ,'& -'% N 'E! ,' '(, ! %' $& $%F! '
'*% '& * , '& ' & 4 , ! ,'($,'A % & '('
! &! ' (, , ! (' $ %** B '%'$ *,'* % ,

8

'' 6, ; .7>'>;6 / 6 >;' 5'' # ,<67 747 ,<8>7'05 ;' ' B4%
< <J .' 8 ;1, 7 =4,' 5'' ; ,11.6?,<>'<, .' ; 71.'7,7 7.6 7.6
6, ; .7.6.67 <> 6?.<6'05.'>'<J ; ,' / , / .<7 >.' ;1 6,I
/ ' 6 ?,41'5''1.<>1.' 1<, <6 > 6?;4> . 6.' ? 5.' ?1,?,6.'
D=4.'7,<6 5.6 ?'=4.76?.' ?'66.<7 ?'6 Q= ?? >6 > 4<,'
6 ? ?5; ;751.8 .7 >. ;5'1.=< .55.' < .< 1. ; . -1''4;44 =4 '
?'66;1' 7 ; .'?, >6I CD =4.7,46 ;6 / ?1 / >6 <,'6, =<7
?'6 71 ?5.6 .7 =4Q >14?5.6 8 4< 6.45 J4 5 7I D=<? ; : ?1
=4.6, ;5 7.E'66.' < ?1 / ;1=<?.7 76.'1'.7.1;66. / 05'F
05;6 '' ; .4@ >4 F ' '0< =4.'6,46 4< ?546 ?.7 7
-,54 / .' ,< 71,4V.' ?546 >.' / '7 .1.6 .7 '' / , <6>.'E1' 6I
UD8 .<5 <8 =4 ,< 1;51'<; : .'7,47 ?'? =1'05'<.' ?47 5,8
& ' & ' '() ' *** & + , & - ..++

K % K Z

1 ' ' ! "

' ' E% / !* !

5 #K <4' KK ' 9 8

% '00> '? < 6;' ?5' <7 >.'5'' 5.Q 7. 1 =4.'Q ,< '?'
?,17.>' 5'' E'01 ;'7 ,< >.68 cP ; ; .6 >.'E ' 1 =4 QS E5 7
>.- , 1 .<; ,1.' .71.'1;7'1>. .'> E5E5 ?, 68
66.< 05; ;' >>.1E.7.' =4.' 5.' / < 67- ;' ># 'E <'<; .6
1.<>1'' ; , / ?7.'>.' >7'7 >.' ;=77.'E'01 ;'7 ,<8
+ ' 41'5.'1'??,17 E?B ?'1' 8 # 6 / 468 (>>;1.7 Z4 '
-'<7.67 1.<>4N
Y 66. / 05. ;'4'7 ,<'5.'>>;1`7.'=4;'7,4604 66 .16S'
?1 6;4168 1; ; .-.416 >.6; ,7 6 J<'7 ,46 .7 . , / / 66' 146
'4@6' 6 .6%1>.55.68 <,7' 1.68 J.= .651;6 =7 7,4 6 '45 .6
>>?06 7' 1.6 >.'>.< .168 <= 1;4 .571,47 '4@ : >1Q7 ;1 8
;1>'<; .16 .7 '451;6?.16,<, .6 =V'<^ >1, 7 >.'7, =5 ; '
5.6%6,1< / .6 6>= .671>.6 ;5 >>?36>;68=4 .?Q467 5 '47 >4
?' . / .<7 >.6 / ?,6 7 ,<6 ?,0 5 .1.6 .7 ; ,<71 047 ,<6
?'71 ,5 =4.68 >4.6 ?'1 ; '?.16,<<.6 >;6=4=55.6 =6>7;6
6,1< / .6 6.1,<7 ?1,V.<4.6I 6.-,47 / .7<.''<7,1 6.68 .<
7'<7 =4.' 0.6, <8 5.6> 76 6.=4.676;6 .7 >,?,6 7' 1.6 ''
?'V.1'> 1.;7. / .<7 .6 ?,<71 047 ,<6=4 6.'71,?V.1' .7 7
>4.68 '-'<7 >;' ?1,=>>=1 ' 5'' >.E -1'<=.>.6>.4 =168 =7

;< ;0 / ?7;I >>.1.7= ;? ,471.'=4'' 5'6 1;J5.E5 .<76 . >=W
-' 7 E' 56 ?,41'5'' 6E71.7; 5= ; '4-1;E5 .<7 >;6 ?5?, '
7 ,<6 ?,16, / ;55.68 ?,5?4?<.<7 >.'5'' - c5= >.' 8 1 68
1.5'5 - ; .<7 '4 '' >; ;5'1'7 ,<6=4= >, -=<7E' R.5.6 ?1, '
?1 . 7' 1;6 .7 ;6 ?1 <; ?'4'' E5;=7' E;6%6;1, / ;@>;47>6

8 1 K N < <,46'' > 671 :4> ; .' / '7 < ' ;7,'
=,<67 547 ,<<.5I ' ?6 ' <,46 -,V,<6 6 '??1, ; : .1 5'' 5 <
>.' <,6 71'-'4@% .' / ,7 E=4 ' '-' 5 E' 7 646?.<>1;'5.J
>5.;7 ,<J , .@ 67.'?5468 <,46 ?,4-,<6 <> =, .1 7.' / , %
/ .<7,E5 5''?1. / .1.' >J 65'741.'<,46 1. / ?7'; .1'' 8 . c
> . 1'= P;' : 4 7 Q,416 '?1.'' 5'' ?405 ;'7 ,< >;' ' ;7 '
; ,<67 747 ,<<.5 5'6 > . ;7.416 6.1,<7 1'66; / 05>6% '
?.16,<<,'?'' 6 ,??,6.' '' / '' \1,?,6 7 ,<8Q.' / '5 65 .< '
>' '5 > .< >>-.5,??;1 5.6 / ,7 E68 & 66, / 05>,'??5' 7%
>7G\' 55 ,1>,<<'47=4.'5.6 > . ;7.416 6.'1'66, / 05;1,<7
>4 C ' >.'; . / , 6 =4 ' >4 / ,] ?1, ;5 ' <8 -,7 6 >4< 1.E
7,47.6 5.6 . ,E5-;<'<; .6G .' ? / ?,6.'> @Q,416 > <7,1%
-' 5.'?,41'6'7 6E' 1= '' 7,47.6 5.'' > EE>1.<. .6 >.' 5, ;' '
B7>68 '.7.' ; ,<67 747E,<<.Q -,<6 '' >7>'1.1' 6 '4Q,47
> 04 ' ' 5 .67 ?,66 05.=4.-,46,1>,<< ,@=4 5-,46. '
6, 5 >,4<>' 7E;741.'>.E5@: .41.'8)5=4,-,46'Q, / < ;(8
5'' > 6;466 ,< '' 54<> 8 .'64??,6.'=4'' , .77.'> 6,<66 4<
>41.' : 4 7Q,4168 , .5'' <,46 / >?.1'' '4 9 >. ; ,'< , 6I
>4 9 '4 C ' 5 V '' 0 .<8 Q= .?, '% 7E545 5.' E. / ?6<>. ;6%
6' 1;' ?,41 E' 1.' ?'1-. 41 ?.7 ';7.' '4@ '66. / 05>.6
;5. ;7,1'5.6 dQ& E'47 .?> ;1 ;J< 'E.6'<; .''4 / , / .<E
>.' ;41 1'66. / 05.4 .478
.<7.<>6 >Q1='47,41'>.'< / '=4 5 <.'E,<7 ?'6 5.-.1
5''646?.<6 ,< >.6'66. / 5>>.6>5. .7= 65.68'-'<7=43 ,<
6' ; : = 6 5;'1>' ' ; ; .?0 1'' ,? 4 ' ; ; .?7.1'' ?'6 5'' # ,467 %
747 ,<% #,5'' .67 '06,54 / . 5 <47 5.8 ,'1 Q;' / ' <7 .<6
=0.' ,71.' # ,<67 7,7 ,4 .67 <>>?.4>'<7.'>.' '; ?' G
7 ,< >4 ?, 8 &E, 47.' 5'' ?'< ;' J'4; : .' '??5'4> 7%P .67
'; ;'?'1 ;= .5 5.6 1.?1.6.<7'<76 >.'5''<'7 ,< .@41 %
1' .<7 6= V,5,<7>% 4;4< ; :'<J. <.<7 < .67 >> [/ 5'<7
>.'5'' -,5,<7> >4< , : >.' ? 46 .416 <> - >7 6% 3 / / >
<.' 0 6 <,46 &'41,46 '11>7=8 <, 56 '?,<1 ,<6 ?546
; ; : '<J.1%< '<,468 <<, 64; ;,6%6;W % c 4 V '' =4,'5''
/ 'Q,1 7>'>;'5''<'7 ,<=4 '?4 66= V 7,4.0.18 \ 'cP196,.%E
; ,<6 >.1'7 ,<6Q Q.'?.<6.'=4.'5'' 7. / ?6 =4 .Q ' '?1,E .6>
.67 ; .54 ' =4.'<,46 >.-,<6 '>,?7.18 , ;' / ,< ?1,Q.7
>,' >>;1.7N
66. / 07. .'4'7 ,<'5.'>>;1>5.' =4 .55.' 5,-.' '' 646%
?.<6 ,< ?,17. .?'15;>; .1.7>488%88 .7 ;< ; ,<6>=4. ; .'
5.6 <6. / 05. .6 .5. .7,1'5.6 6.1,<7 ; ,<-,=4>.6 >'<6 7,<6
; '>.?'17= / .<76 >4 1,V'4 / .8 '' ; , / ?7.1 >4 C ' ',E77
Q46=4 '4 '6.?7. / 01.8 ?,41 <, / / .1 Q.6 >.?47>6 '<
; ,1?6 0 J 65'7 EI =4.'5.6 >>?47>6 4, / / >6 6.' 1.<>1,<7
1,1<>> '7. / ;K7 '' '1 68 ?,41 .<71.1 .< E,<;7 ,46
.'Q,41 =4 '6.1''E@.'?'1 4< >. ;1.7 >.'7 66. <05>.' '%
7 ,<'5,%
'' ?'17 .'J'4; : .' 1.7.<7 7 > '??5'4> 66. / .1 76 ?07 '
.4 6 E, 6 1>?>7>68
8 K K6 K % >7 ,<>. / '<>.=4.5.'1''6, / ' '
05; / .<7 >.6 ; ,1?6 .5. .7,1'4@ 6,17 E @.'>4 C ' ',E 7 '4
'6.?7.?701.8
' 'N .6 1>; ,57. '6.' E,<7=>46 7'1>'>'<6 5.6 '
>>?'17. / .<76 >4 ,1>8%%' G
0 66; / 05. .'>,? .'4<'< / . / .<7 5'' / ,7 ,<>. '
B'<>1,8
4-.<7 >.6 '??5'4> 66. / .<76 .@. 7>6 ?'1 5.' ?546 -5E
.<7: ,46 '6< .%
8 ? ' N .'>. / '<>.'=4 '>.4@ : .41.6 5 <,46
64 7 E' 7 5. ;741.'>.' ',7;' ; ,<67 : 77,<<.58 ?,41=4 5
6, 5 ; , / / '>;' <,46 ;7 >.' , .4@ &Q '<,46 .<7.<>.4 '
#.77.?1,?<' 5 ,4 .W a5,?7. ,%
% K.1<'1>8 ,5E ; .1 / 4< ; ?'5 >.'H5,1.<; .8 > 6M
71 ;7 >.' 0 / - 55.8 ; -, ,'44, , / / .'>.' U8, , '7 -%
?,41 .<71;7 ; '>;6 0, < / ;6 >.' J4.11,8
% <>,' 8 5.6 6. .1 7' 1;6 E' 7 5',541.> / #5.771;'
>.' 8 '; 76 a, 5.'<8Q J.'>.'?' @'' -' 5,4%
K (/'' '8 Q.'<.'6.1''Q' <' %6 5.'>.1< .1'>'<6 5'' ; '11 .1='
>.6 V. 746 ; V .'% # : '; E E' 7 6,< >,< ?'0 ,7 =4.'
PP,41 ;B71.7.4 1 >.6 >.E.46.416 >,'5'' ?51 ,' '4@ E1, %
7 .1.68 ;7 / , '4J6 8Q.-;4@E' 1.'5.'1, .K8;5?1>6.<7 1''
1 66. / 05. .'4'7 ,<'5.' / ' : , / / 'J.'=4.'>.?4 6 5,<J '
7. / ?6 <,4 .; .41 54 '>.67 <.8
$.' 67 6 4a# >.'?' @'' -'55,<% .'54 6- 1.' . .

74<.ľ Y <6'Q.' ;,<6';1,''5''0 .<E' 6'<;.'7.6'5' 1.>.' /.6'>.4@' '<<E.' >.@.1; ;.'>.' /.6' E,<;7,<6% & <' '??5'4> 7%P

W#.>.6 <7. 1.66. /.<5'6.1''?,41' 7<, 8' 66./05..' E8.47 /.<';1, 1.8 4E7.'1' 6,<'>.' ;6'.@.1;;1''-.;'?546' >.'6, <'.7>.'6;14?45.'86 5'.67?,66 05.% '541.55./.<7 .<<./ '>;6'?5';.68'Q.'< ';;.?7''5'' < .<<.'=4.'?'1;.' =4 .55;'.67 < < /.<7 :,<,1'05.8 ?'1..'=4 .55.'?1>' 6.<7.' / 55.'6,17.6>;'Q,4 66'<;.6'4'.;.<1'>5<':,//_% ' 6.<6 05.ľ .< <8'?'1;.'=4 .55.'.674<.',;;'6,<'>.'E' 1.' ;:'&f4.' <67'<7 0.' 7;,4?'>.'0 .<% .6' />< .6;,<6' >.1'7,<6'.@ 67.<78' .7' . .67 7,47 ;.' =4 5' /.' E'47N . .67 5'' / '' 1.71 047 ,<'5''?546' E5'77.46.ľ. .67 5'' 6.45.' =4.'Q '.'.<' -4.8' 5'' 6.45.'=4' /.' J4 >.1''7,4Q,416%$ & .6' '??5'4> 66./.<76'1.;,//.<;.<7%P ' 55.4168 5.6'?'71 ,7.6'6,<7'6'6,4-.<7';.06.6'?'1'5,416'.<<./ 6' >.'< ' / .1'5''1.-,547 ,<'=4.'?,41'5.6' R1,5 76'=4 56'.<' 1;7 .<78.<'?'17 ;45 .18'=4 5'.67 0.'4'>.'5.6'>./.<7 1' .7'>.'5.6'E,1;.1''<,46'.67 / .1%

Y , >'>,<.''=4, 'Q.'>.67<.'5.6'>,40.';.<76' 5 -1.6' =4 'E,17<.<7 ;'6'5' 1.'>.' / ''?5';.'?.<>'<7>.4@' '46% .'1./.76'> '0,1>'' 66./05..' '5 -%?,41' .<71.' 7 .<'> 4<'J'1>.'<'7,<'5'=4' /.'1. <?5';.1'' '4@'E1,<' 7E.1;6I 5' V'41'' 9 '5 -Q?,41' .@7<;7,<'>.6'?,41' 64 7.6'> 1QJ..6'?,41'>.' / <;.6' ,0Q.76';.<71.'>.6' / '5' :.41.4@'?.<>'<7'5.';,416>.' /,<'.@;1; ;.ľ.7';,//.' . .67 4<'.<J'J./.<7=4.Q.'?1.4>6.<-.16'1 66./05..8' Q.'?1>6.<7.1'' '4' > 671 ;7'5.'1.J 671.' =4' E.1'' E,' >.' ./?5,'>.';.77.'6,//.% .6' '5 -% 1.67'<7.6'6.1,<7 ?,41'E,1/.18'.<'E'-.41'>.6'- 55'J.6'>.' / ,<> 671 ;7'5.6' ?546' 1'??1,;:.6'> '55,<8';,//.'.7'<7 ?546'>.'5'' E' / <.'8 44''0,<<./.<7'' 4<'Q,41<'5'=4.5;,<=4.8'' 5'?,17..>4'?.4? .8'=4 '>.?4 6' 71,?'5,<J7./?6'< .67 4.'5.'Q,<.78'E <6714/.<7.7'5''- ;7 /.'>.' J<,1'<;.8'

A 5'' 64?.167 7 ,<'.7'>55'E'<'7 6/.'I=4 8'?,41>51.6'J.8' <''0.6, <'=4.'> >71.'0 .<' <6714 7ľ .7' .<E<' =4 5'E'47 ?1./4< 1';, 71.'5.6' .15 >.6' <6 <4'7,<6'>.6'>>1';' 5.416'>.'5' 1>-,547 ,<8'.<'> 66./ <'<7>'<6'5.6' .6'?1 76' 5.6'54< 1.6'>4'0,<'6.<6'.7'>.'5''1' 6,<%

, ,6 '' '], , & , '' , ' '$

& 7 ''??5'4> 7''?546 .416'1.?1 6.6%P

V' +';,/?'J<;'> '6641'<;.' 641' 5'' -.' .<-,.' C8U '5 -%?,415,<71.7 .<>.6';, </.6'>.'J4.11.%

66./<>.'>.;>.'=< E6.14' E' 7 / .<7,<'<'?1,' ;.6 -.10'5'>.'7,<6';.6'>,<6%

% ' 'N % .<,4' -'' -,46'?1.6.<7.1' 5'' 64 7.'>.6'>.;1.76'641'5''1.;1.'7,<'>.'5''J'1>.'<'7,<>5.' 6,5>..'>.'5'' - 55.'>.' '1 6%'

546 . 16/./01.6>./'<>.<75.1'??,17?,411.@.' ;47 ,<'>4'>>;1.7'1.5'7E' %#,<>>%

G '1 'N .6';,< 7.6'6 .<'6,<7,>.4?>68 /'6' 5.'>>;1.7< .67?, <7.<;,1.'11>7>% ,46'>7 ,<6''66./' 05>68'5,16=4 ,<'<,46'''??,17.'=4.5=4.6' .@./?5' 1.6' >;' ';7.;,<67 747 ,<<.5ľ ;7 / .66 .416'6.'>,47.<7 0 .4' =4.'5''>;466 ,<''>7.'0 .<'- 7.' <7.11,/?4.% Y ' ' % '5,4.7 >./'<>.'5''?'1,5.' ?,41'1'??.5.1'5''>6;466 ,<'641'5.6'?1,7.67'7 ,<6'

66./05>.?'66.'2' ,1>1.>4'Q,41%

% .<,4?1` .<7.'5''64 7.>.6''17 ;5.6'641'5''1.;1.'M 7 ,<'>.'5'' J'1>.'<'7,<'5.'6,5>..8'>.'5'' - 55.'>.' '1 6%

66./05>.'-,7.'4<'< / . / .<7>.6'1./.1;7/.<56'' 5'' J'1>.'<'7,<'5.%

<'< .<P01.'>4';,/ 7>'>.6' / ,<<' ;6'6 > .-.';,<71.' 5.6' <=4 .74>.6'1>?'<>4;68'<' ;,//.<;./.<7 >.'5'' 6.'<;.8 641'5.'1.7'1>'=4 ,<' ?1.7.<>'>71.''??,17>''5'' E'01 ;'7,<'>.'5''?.77.' /,=?' .'> '1J.<78 5' '<<,<;.' =4.' ,<';,/ /.<;;1'' ''5''E1'??.1' / '1>'?1,;5 '<%

41' 5'' ?1,?,6 7 ,<' >.' % #:.-'5 .1'8' 66;/05>.' ;:'1J.'6,<';,/ 7>'>.6'5<'<;.6>.%6 ,;;4?.1>.6'/,V.<6' >.'?1,;41.1'>;6'?.7 56''66 J<'76'>.' '5 -% '4@;45 -'' 7;416%' $

%'' ,477 '' ''<4 7>.1< .1.'.7' 7 '7< -;16' 1.'>.

>?,=4.' 'Q' / ' 6' />/,1'05;' , 5' 7'<7 >'046' E4<' 1.<-.16>6% ''6>'<;.'';57 .55.'.]7'' '<< -.16' 1.'>.';' , 5' -,46' ;, / / .4;'7.6' ''?,6.1'5.6'?1./ >1.6'0'6.6' /'Q.674. @' >>E;.'=4' 6'';:.-.% #.67 '' ;@?1'7' Q467.'>.' 5''6.;,<>.' '<<>.'>.'-,71.' 6.66 ,<'8=4.'-,5 ;, / 7>'- .<7>.'-,46' ?1>6.<7.1'5.'?1,>4 7>.'-,67' -'4@%#, / / .'5''5.;741.'=4.'Q.'-' 6E' 1.' <.>, 7>' 64 - .' / ' <7.<'<7> ' ;4<.'> 6;466 ,<8'Q.'<.'>,<<.' '4;4<.'.@?5 ;'7,<ľ'4<'6 / ?5.'.@?,6.'5' 66.1''-,6'' E5.@ ,<6'?546'5 01.6%

' 9

' ' ''0 ' ' ' 13

.6'1.?1>6.<7'<76'>4'?.4? .'E1'< ' 68';,<6Q 74.6' ! ''& ' '8';,<6>;1'1 7=4.' J<,1'<' ,405' ,4'5.' />?1 6'>.6' 1, 76'>.'' :,//.'6,<7 6.45.6';'46.6'>.6' / '5:. 16'?405 ;6'.7'>.'5';,114?7 >;6' J,4-.1<./.<768 ,<71>6,54'> .@?,6;18' >'<6'' >.;5'1'7 ,<'6,5.<<.55.8' ;6>1, 76<'741.56% <'5><'0' ;7'6'.1>6'>.'1 , / / .8' ! '=4.';.77.'>.;5'1'7 ,<8';,' 7'< /.<7?1>6.<7.''7,<6'5.6' /./01.6'>4';,1?6'6,;' 5,41'1'??.55.'6'<6';.66.5.416'>1, 76' .7'5.416'>.-,' '5<'=4.'5.6'';7.6'>4'?,4-, 1'5.6 65'7E'.7';.4@'>4'?' -, 1.@>;47 E8'?,4-'<7>71.'' .<' ? ;4 67'47;,/?'' '-.;'5.' 047'>?'7,47.' <67 747 ,<' ?,5 7 =4.8' .<' 6,' ?546'1.6?..7>6ľ '5<'=4.'5.6'1>;5' /'7 ,<6'>.6';7,V.' E,<>>.6'>>6,1/' 6'641'5.6'?1<; ?.6' 6 /?5.6'.5' <;' 7.67'05.68'7,41<.<7 7,4Q,416'4' / ' <7 .<' >.'5'' G' 7 745 ,<' .7'4'0,<:.41'>.'7,46%

<';,<6>=4.<;.' 66./05>.'<'7 ,<'5.'1.;,<<'7 >.;5'1.8'.<'?1>6.<;.'.76,46'5.6''46?;.6'>.' E71.' ?1> /.8'5.6' 1, 76'64 -'<76'>.' :,//.'.7'>4';5,V

17% 5.1%' .6':,//.6'<' 66.<7 .7'>./.41.<5'5 7 .7'.J'4@'.<'>1, 76% .6'> 67<;7,<6'6,; '5.6'<.'?.4-' >71.'E,<>>.6'=4.'641' 47 5 7>'?405 =4.%

% .'047'>.'7,47.''66,; '7 ,<'?,5 7 =4.' .67'5'';' 6.1-'7 ,<' >.6' >1, 76'<'741.56' ;7' / ?1.6;1 ?7 0 ;6' 1: , / / .% #.6'>1, 76'6,<7 5'' 5 0.17>8' 5'' ?1,?1 >7>8' 6>1.7.'.7'5''1>6 67' ;.'' ,??1.66 ,<%

% .'?1<; ?.'>.'7,47.'6,4-.1' <.7>' 1.6 >.'.6' 7 .55.< .<7>'<6'5''<'7,<% 45';,1?68' / 5' <> - >4' ?.<7;@.1;.1'> '47,17;'=4'< .<'><'<.' .@?1.66./ % ''5 0.17>';,<6 67.'' ?,4-, 1'E' 1.'7,47;.' <.'<4 7?'6' ''4714 ľ '<6'1.@.1; ;.'>;6'>1, 76' / 1.56'>.';5 '=4.':,//.'<''>.' 0,1<.6' =4.';.55.6' '6641.<7'4@''E71.6'/./01.6'>.'5''6,;>7>'5''Q?4 66N >.';.6'/>/.6'>1, 76% #.6'0,1<.6'<.'?.4-.<7 71.' 7.1/ <>.6'=4.?'1'5''5, %

% ''5,' 1''5.'>1, 7>.'>>E.<>1.'=4.'5.6'';5' <4 6 05.6'''5''6,;>7>% ,47 ;.' =4'< .67 ?'6' >.EW ?'1'5''5,'<.'?.<7>71.' ./?>.:>8' .7'<45'<.'?.<7 ;,<71' <7''E' 1.';.'=4 .55.'< ,1>,<<.'?'6%

% '' 5,' .67 .@?1.66 , '>.'5'' -,5,<7.'J><.' ,465.6';7,V.<6' ,<7'5.'>1, 7>.';,<;, 11'?.16,<' 5.< .<78 ,4'?'1'5.416' 1.?1>6.<7'<768'' 6''E,1/'7 55;'>, 7>71.'5'' />/.'?,41'7,4688'6, 7=4 #55;'?1,7' 6, 7 =4 .55.'?4< 66.% ,465.6';7,V.<6'>7'<7 >J'' 6.6' V.4@' 6,<7 >J'5./.<7'>/ 66 05.6'' 7,47.6 ;6' J< 7.68'?5';.6'.7'./?5, 6'?405 ;68'6.5,<'5.<1';'?';' .7'6'<6''471.'> 67<;7,<'=4.';.55.' >.' 5.416' -.174' >.' '<6'7'5.<76%

% 45':,//.'<.'?.47 >71.'';;46> 8' '11>7>8' >.7.<4'=4.'>'<6'5.6' # 6>>7.1/ <>6'?'1'5''5, 8' .76' 5.6'E,1' ;6' =4 .55.'' ?1.6;1 7.6% #.4@'=4 '6,E5;7.' ;@?>> .<78 .@>;47.<7,4'E,<7.@>;47.1'>.6'=1>1.6'' 71' 1.68'>, -.<7>71.'?4< 6ľ / '6'7,47';7,V.<8''?6 ,4'6' 6' .<'-.174'>.'5''5, 8'>, 7 ,0. 1'' <67'<7N' 1.<>';,4?'05.'?'1'5''1>6 67'<;.%

% ''5,'<.'>, 7>7'05 1'5 (' >.6'?. <.6' 671' /.<7;7>->. / / .<7<>..66' 1.68' .7' <45'<.?.47' ?4< =4 .< 7'5'> 4<.'5, >7'05 ;'.7?;, / 45J4>;'' 1 ; 1;/;<7'4' >>5 7% .7 >4'5./.<7'4<5 ,<>.%

5 "% ,47: , / / .8_ 7'<7?1>6< / W <<, ; .<7Q'6=4 4 ; .
=4 5' ' 7 .7> 5 >'1.‾ ; ,4?'05.8 6 '.67Q4J.' <> 6?.<M
6'05.' >.' '11 7;18 7,47.' 1 J4;41' = ' <,' 6.1' 7 ?'6
<; ; .66' 1.?, 4 6641.1 >.'6" ?.16,<'.' >, 7 71.6>
- .1. / .<71.?1 1'>.?'1'5" 5, %

"% <5 <.'>, 7 .71.' <=4 .7.' ?,41 6.6 ,?< ,<6 8
/ > / .' 1.5 J .46.68 ?,41-< =<.'5.41'E7 '< E;67'7 ,<<.'
71,405.'?'6 ,1>1.'?405 ;' .7'05'?'1'5"5, %

"&% " 01.' ;, PP</ < ;_77 ,<>.6 ?.<61.6 .7 >.6 ,? M
< ,<6 .677 <>.6 >1, 76 5.6 ?546?1>; .7 @ >.' : , / / .'N
7,47 ; 7,V;< ?.<7 >,<.' ?'15.#8 >;1 1.8 4? / .1'5
01. / .<78 6'4E "1.?,<>1.'>.' '046 >.' ; .77.' BP.17.8
>'<6 5.6 ;'6 >.7;1 / <>6 ?'1'5" 5, %Y

" % " J'1'<7 .' >.6 >1, 76 >.' 1 , / / .' .7 ><' .
7,V.<<.; .66 7.'4<.'E,1; .'?405 =4.N ; .77.'E,1; .'.67>,<.'
<67 74; .'?,41 '-'<7'J.'>.'7,<68 .7 <,< ?,41 <5 5 5.'
?'15 ;45 1.'>.' ; .4@ '4@&c4>56 .55.'.67 ; ,<E >.%

" % ,41 ;<71.5 .<>.' 5" E,1; .'?405 =4.'.7 ?,41
5.6 >>?.<6.6> '><Q < 671'7 ,<8 4<.'; ,<71 047 ,< ; ,< 8
<4 ; .67 <> 6?.<6'05.N > .'>, 7>71.'>J'5.1'.<71.?'1'
5,46 5.6; 7,V.<68 . '1' 6,<>.'5.<16 E' ;4 7.6%

" % ,<6 5.6 ; 7,V.<6 ,<7 5.' >1, 7 >.' ; ,<67'7.1 8
?'1 .4@ < > <.6 ,< ?'1 5.<16 1.?1>6.<7'<768 5" <>..6'
6 7> >,'5" ; ,<71 047 ,< ?405 =4.8 >.'5" ; , 6.<7 1 5
01. / . 78 > .< 6< -1.' . / ?5, 8 .7 0 '>>7.1 / <.1'5"
=4,7 7;8 '66 .77.8 ;'1.; ,4-1. / .<7 .7 5" >41..%

" % "6, ; .7.''5.'>1, 7 >.>;E5 '<>.1; , / ?7. "7,47
'J.<7 ?405 ;'>.'6,< '> / < 671'7 ,<8

" % 447.' 6, ; .7> >'<6 5'=4;55.'5" J'1'<7 .' >.6
>1, 76 , .67 ?'6'6641..8 <'5" 6>?<1'7 7 / '>.6 ?,4-, 16
>>7.1 / <>;8 < " ?, <7>.' ; ,<67 747 ,<%

" % .6 ? ,?1 ;7;6 >7'<7 4< >1, 7 <- ,5'05.'.7
6'.176 8d / 5<.'?.<7 ;<>71.'?1 -.8 6' ; .'< .67 5,16=4.'5"
<.; .66 7.'?405 =4.8 5.J'5. <.47; ,<65'7>.'8 .@ J.>- '
>. < / .<78 .7 6,46 5" ; ,<> 7 ,<> 4<.'Q467.'>?1; '5'05.'
<>.<'4 7.%

66. / 05>.'<'7 ,<'5.8 - ,45''7>7'05 1 2" ; ,<67 74M
7 ,< E1'<=' 6.'641'5.6 ?1 <; ?.6 =4 .55.'- .<7>.'1.; ,<
<' 71.' .7 >.'>>;5'1.18 '0,5 7 11.- , ; '05. / .<7 5.6 <67 M
747 ,<6 =4 '05;66' .<7 5" 5 0.17> .7 .J'5 7> >.6 >1, 76%
'< V " ?546 <'<,05.%66.8 <'?' 1 .8 <'> 67 <;7 ,<6
:>1>> 7' 1.6Q <'> 67 <;7 ,<> ,1>1.68 <'1.J / .'E>,>'58
<'Q467 ; .6 ?'71 / ,<'5.68 <' '4;4<>.6 5 71.688>><,
< '7 ,<6 .7 ?1>1,J'5 -.6 =4 ' .<>.1 V' .<78 <' '4;4<
>96 ,1>1.6 >.'; : .-'5.1 .8 ; ,1?,1'7 ,<6 ,<>>; ,< 7 ,<68
?,41 5.6=4.56 ,< .@ J.' 7 >.6 5 71.6 >.'<,05.66.8 <'
'4;4<.''471.' 6 ?. -,1 7;' = .' ; .55.>.6E,<;7 , / ' 1.6
?405 ;6 >'<6 .@.1; ; .'>.'5.<16 E,<;7 =<6%
B VS " ?546 <' -.0'5 7.'<' : .1. > 7> > '4;4< ,EE ; .'
?405 ;8
'< V " ?5468 ?,41 '4;4 .'?'-7 .' >.' S" <'7 ,<8 <'
?,41 '4;4< <> - >'8 '<;4<?1 - 5.J.'<'.@; .?7 ,<'4
>1, 7 ; , / < 4<>.'7,<6 5.6 H1'< ' 6%
V " ?546 4'Q41'<>.68 <' ; ,1?,1'7 ,<6 >.'?1,E.6M
6 ,<6 8 '176 .7 <7> ;16% d %
" 5, ' <.' 1; ; , / '57 ?546 >.' -,.4@ 1.5 J .4@8 <'
'4;4<'471.'.<J'J. / .<7=4 '6.1' 7; ,<71' 1.'4@'>1, 76
<'741.568 ,4' "5" #,<67 747 ,<% % % % ' d

-E ' ' D1% + ' ! '& '
' 'G

" #,K67 747 , P J'1'<7 58 ; , / / .'>1, 76 <'741.56 ;7
; - 56 N

34.7,46 5.6 ; 7,V.<6 6,<7'> / 66 05.6 '4@?5' ; .6
.7 ; / ?5, 68 6'<6 '471.'> 67 <;7 ,<=4,' ..55.'>.6 -.1746
.7 & ,'7'5.<76I %

CW 34,' 7,47.6 5.6 ; ,<71 047 ,<6 6.1, 7 1;?'17 ;6
.<71.'5,46 5.6 ; 7,V.<68 .J'5. / .<78 .< ?1,?, 7 , ">.'
5.<16 E' ;4 7.6I

8 ' 34.' 5.6 / E < ;6 >>5 76 6.1,<7 ?4< 6 >?6 / / .6
?. <.68 6'<6 '4;4<.'> 67 <;7 ,<>.6 ?.16,<<.6%

"#,<67 747 ,< J'1'<7Q7 ?'1. 57. / .<78 . / 4 / .'>1, 76
<'741.56 ; ' ; - 0'7

75 5 0.17.' "<, / <.'5,47 > '5 .18 5.'1,67.18_7W ?'17 E8
6'<6 ?,<- , 1'5 1.' "11 7>8 ' ; ;46> <'>>7.<48 =4.'>'<6
5.6 ;'6 >.5.1 / <>6 ?'1'5"5, 8 .7 6.5,< <6 E,1 / .6 =4 .5 W
" ?1.6 ;1 7,6I

" 5 0.17.' " 7,47 0, / / .'>.'?'15.18 > > ;1 1.8 > / '
?1 / .1'6,6?.<6>.6 .7 > .@.1; .1'5.' ;457.'1.5 J .4@ '4'
= %.5 5 .67 77' ; :>I

" 5 0.17.' ' @ ; 7,V.<6>.6 '66. / 05,1 ?' 6 05. / .<'
.7 6'<6 '1 / .68 .< 6'7 6E4 6'<7 <4@ 7, 6>.'?,5 ; .I

" 5 0.17.'> '>1.66.1 '4@ '47,1 7>6 ; ,<67 74>.6 >.6
?.7 7 ,<6 6 J4>.6 <> - >4;B. <.<7%

#, / / .'5" 5 0.17> <.; ,<6 67.'=4 '?,4-, 1'E' 1.'7,45
; .'=4'<.'<4 7 <' '4@>1, 76 > '471 B ' "5" 6 1.7> ?4'
05 = .8 5" 5, '?.<7 >7'05 1 >.6 ?. <.6 ; ,<71.'5.6 ';7.6
=4 8 '77'=4'<7 ,< 5" 6>1.7> ?405 =4.' ' 5.6 >1, 76
' '4714 8 6.1' .<7 <4 6 05.6 "5"6, ; .7>%

" #,<67 747 ,< J'1'<7 5 <- ,5'0 7> >.6 ?1,?1 > '
7.68 ,4 5'Q<67..7 ?1>'5'05.' <>. / < 7> >.' ; . 5.6 >,<'
5" <. ; .66 7> ?405 =4.8 5 '5. / . 7 ; ,<67'5>.8 .@ J.1' 5
5.'6' ;7 E ; .%

.6 0 .<6 =4 ' ,<7 >7.' ; >.-'<7 >.67 <.6 ">.6 6.1M
- ; .6 > 47 5 7> ?405 =4.' '??'17 .<<.<7 > 5" <'7 ,<I
; .4@ =4 ' .7' .<7 'EE.;7.6 '4@ >>?.<6.6 >4 ;457.'6,<S
"6" > 6?,6 7 ,<%

'6.1" ;1.> .7,1J'< 6> 4< >7'05 66; / .<7 J><>1'7>.'
' '?,41 5.'6,45'J. / . 7>.6 ?'4-1.6 <'
5 1 / .6 .5>.6 ?'4-1.6 -'5 >.6 / '<=4'<7 >W71'-' 5%
6.1" ;1.> .7 ,1J' 6> 4<.' ' 1 '
; , / / 4<.' > 7,<6 5.6 ; 7,V.<68 J1%'7 7.' " .J'1'> >.6
?'17 .6 > .<6. J<. / .<7 <> 6?.<6'05.6 ?,41 7,46 5.7
: , / <.68 ;7 >,<7 5.6 '7'05 66; / .<766.1,<7> 671 04>"
J1'>4.55. / . 78 >'<6 4< 1'??,17 ; , / 0 <> ' '-.; 5" > M
- 6 ,< >4 1,V'4 / .% ' 8

$ Y

- '%% ' &' ' ' ' ' 3 ' ' ''0 '
3

17% 5.1% "H1'<; .'.67> - 6. .<=4'71. - 7 71, 7
>>?'17. / .<768 ; : '=4.' >>?'17. / .<7 .< > 671 ;76 I
; : '=4.'> 671 ;7 .< ; '<7,<6%
% ,<7 # 7,V.<6 '<=' 6N
#.4@ =4 '6,<7 5 >6 .< H1'<; .'> 4< ?E.1.'E1'< ' 6I
#.4@ =4 8 <>6 .< H1'<; .'> 5 / ' ?>1.' >71'<J.18 ,<5
5 @> 5.41'1.6 >.<; .'>'<6 5.'1,V'4 / .I
#. / @ =4 8 < `` .< ?'V6 >71'<J.1 > 4< ?.1.'E1'< < 68
6,<7 1.-.:46 6 >7'0:1 .< H1'<; .' .7 ,<7 ?1 7> 5.6.1'
/ .<7; - =4.I

5< ; .4@ =4 8 <.6 .< ?'V6 >71'<J.18 ;7 >.6 ; .<M
>'<78 " =4;5=4.'>.J1> =4.' ; .'6, 58 > 4< H1'<; ' 6 ,4
> 4<.' H '4;' 6.' .@?'71 .6 ?,41 ;'46.' >.' 1.5 J ,K8
- . / .<7 >. / .41.1 .< H1'<; .' .7 ?1 7.<7 '
; - =4.% 8

% #.4@ =4 8 <>6 : ,16 >4 1,V'4 / .'>.'?'1.<76
>71'<J.168 1.6 >.<7 ; ' .< H1'<; .8 >.- .<<.<7 ; 7,V.<6
E1'<; ' 68 '?1.6 ; <= '<6 >.'>, / ; 5.' ; ,<7 <4 >'<6 SW
1,V'4 / .8 6 56 V ,<7 .< ,471.' ';=4 6 >.6 / / ;405.I
,4 >?,46.'4<.'H1'<=' 6;8 ,4 E,1 / > 4< .7'05 66. / ;<
>.' ; , / / .1; .8 ;7 6 56 , 6E ?1>7> .'6.1 / .<7 ; - =4.8

% .?,4-, 15>J 65'7 E?,411'8 ?,41>.6 ; ,<6 >> '
1'7 ,<6 / ?,17'<7.68 >,<<.1 '4< >71'<J.1'4< '.5.'>'
<'741'5 6'7 ,<8 6'<6 '471.6; ,<> 7 ,<6 =4.'>.'E @.1'6,<
>, / ; 5.'.< H1'<; .8 .7 > V ?1>7.1'5.'6.1 / .<7 ; - =4.8
% .'6.1 / .<7 ; - =4.' I - ' ') '! '

'" ' ' ' ' ' 3 ' A
' ' I

' ( ) 8 (* ' ' (* 8

% " =4'5 7.'>.' . 7,V.<E1'<I ' 6 6.'?.1>N
W '1'5"<'77 1'5 6'7 , 7 .< ?'V6 >71'<J.1I
' '1'5" ; ,<>' / 4'7 ,4 '4@?. <.6 =4 ' . / ?,17.<'
5" >.J1'>'7 ,< ; - =4.8 7'47 =4.'5.' ; ,<>' / <> < .6'
?'6 1>: '0 5 7>I

'1'7<1'Q4J. / .<7>.' ; ,457 / '.;8 7'47 '4.'5.'Q4 '
J. / .<5 < .67 ?'6 '4>'<7 I

UD '1' 'EE 5 '7 ,<' '7 ,47 ,1>1.' ,<' ; ,1?6' 71'<J.1'
= '64??,6.1' 7>.6 ?1.4-.6>,'<,05.66.%
% .6 ; 7,V.<6 E1'< ' 68 ; ,46 >>1.6 6,46 5.'1'?M
?,17 >.6 1.5'7 ,<6 5, ;'5.68 =4 '<' 66.<7 >.' 5.41'1.4M
< ,<' >'<6 5.6- 55.6 >7 >'<6 ; .17' <6 '11,<> 66. / .<76
> 5 7.11 7, 1.'>.6 ;'7<?'J<.68 7,1 / .<7 5.6 ; , / / 4<.6%
.'?,4-, 1'5.J 65'7 7'?,411'' 5 @.1' >7.<>4.'>.' '1'
1,<> 66. / .<7 >.' ; : '= .' ; , / / 4<.%
% .6 ; % 7,V.<6=4 ; , / ?,6.<7 ; : '=4.' ; , / / 4<.'
<7 5.'>1, 7 > .5 1.' '7. / ?68 64 -'47 5.6 E,1 / .6 >.7.1'
< .6 ?'1'5'' 5, 8 ; .4@ > .<71.' ;4@ =4 8 6,46 5.' 5 71.'
> ,EE ; .16 / 4< ; ?'4@8 6.<7 ; : '1J.6 >.' J.1.1'5.6 'EM
E' 1.6 ?'17 ;45 .1.6 >.'5'' ; , / / 4<.%
' ?,411'' >71.' >.5>J4>' / @ ,E5 . .16 / 4< ; ?'4@
=4.5=4.650<;7 ,<6 1.5'7 -.6'' <7.1.'J><>1'5>.5 7'7S
% "' .6 1E;J5.6 =4.'5.6 ,E5 . .16 / 4< ; ?'4@6.1,<'
7.<46 >.'64 -1.'>'<6 ;@.1; ; .8 7'<7 >.6 E,<;7 ,<6 / 4'
< ; ?'5.6 =4.'>.' ; .55.6 = / '5.41' '41,<7 .7.'>#5.J4;.6
?,41' <7>1>7 J><>1'58 6;1,<7 5 @ .6 ?'1'5.6 5, 6%

- '==' &P ' ' *

17% 5.1% '' 6,4-.1' <.7>' .67 4<.8 <> - 6 05.8 .7
'??'17 .<7 ' 5'' <'7 ,<I' '4.<<.'6.;7 ,<' >4' ?.<?5.' <.'
?.47 6 .<' '571 04.1' .@.1; ; .%
% ''<'7 ,<' '>.'=4 '6.45.'. / '<.<7 7,<6 5.6 ?,4-, 168
<;'?.<7 5.6 .@.1; .1'=4.'?'1'>>5.J'7 ,<%
'' ; ,<67 747 ,<' E1'<;' 6.' .67 1. 4>6.<7'7 -.' N 5.6
1.?1>6.<7'<76 6,<7 5.' ; ,1?6 #J 65'5 E .7 5.'1, %
% 7.'?,4-, 1' >J 65'7 E .67 >;5.J4.'U 4<.' 66. / '
05..' <'7 ,<'5.' 8 ; ,1,?,6..' >.' 1.?1.6.<7'<76 7. / ?, '
1' 1.68 5 01. / .<7 .546 ?'1'5.'?.4?5.8 ?,41'>71.'.@.1; .'
?'1' .55.8 '-.;'5'' 6'<;7 ,<' >4' 1, 8 >.'5'' / '< E.1.'=4 '
6.1'' > 7.1 / <#.' ; '?1.6%
% .'J,4-.14. / .<7 .67 / ,4'1.: =4.N 5.'?,4-, 1'
.@>;47 E .67>>5.J4.' '4' 1, 8 ?,41' >71.' .@.1; >86,46
6,<' '47,1 7.8 ?'1'>.6 / < 671.6 .7 '471.6 'J.<76 1.6 '
?,<6' .68 >. ' / '< .1.'=4 '6.1''>>7.11' 77 .' ; '?1E.6%
% .'?,4 , 1' Q > ; ' 1.' .67 >>5#J4 ' '' >.6 Q4J.6
& 546 '' 7. / ?6 ?'1'5.'?.4?5.%

#B '5.1%

' , ' ' &

17% 5W1% 66; / 05>.'<'7 ,<'5.8 E,1 / '<7 5.' ; ,1?6
5.J 65'7 E8 .67 ?.1 / '<. 7..7< .67 ; , / ?,6>.'=4.'> 4<.'
;Q ' / 01.%
E% 55.'6.1'' E,1 / >.'7,<6 5.6 >.4@ '<6 ?'1'>.'<,4 '
.55.6 >Q.;7 ,<6%
#: '=4.' ?>1 ,>.'>.'>.4@ '<<>.6 E,1 / .1'' 4<.'5.J 6M
5'741.%
% .'1.<,4-.55. / .<7 >4' ; ,1?6 5.J 65'7 E 6.' E.1'
>.'?5. <'>1, 7%A' 8 % G
% .' ; ,1?6 5.J 65'7 E <.' ?,411'' ?'6 71.'> 66,46
?'1'5.'1, %

+ ' ! " S C!!' ' ' ' '

17% 5.1% .'<, / 01.'>.6 1.?1.6.<7'<76 '<' ; ,1?6 >'
J 65'7 E .67 >.' 6.?7 ; .<7 =4'1'<7. ; <=8 '' 1' 6,<' >.6
=4'71. - <J7 51, 6 >>?'17. / .<56 >,<7 5.'1,V'4 / . '.67
; , / ?,6>I .7 <>>?.<>' / / .<7 >.'#.4@ =4 '?,411' .<7
>71.' ' ; ; ,1>.6 '4@ ; ,5,< .6%
% .6 1.?1>6.<7'<76 6.1,<7 > 671 0 ' .<71.' 5.6
=4'71. - <J7 71, 6 >.?'17. / ;<76 8 6. , '5.6 71, 6 ?1,M
?,17 ,<6 >4'7.11 7, 1.8 >.'5''?,?45'7 ,<' .7 >.'5'' ; , '
71 5< 7 ,<' > 1.;7;%
% .6 6.?7 ; .<7 =4'1'<7. ; <=' 1.?1>6.<7'<768
>.4@ ; .<7 =4'1'<7. 6.?7 6,<7 '77' ; :>6 '4'7.11 7, 1.%
#: '=4.'>>?'17. / .<7 ;<'<, / / .1'' 71, 68 '' .@; ;?'
7 ,<' >4'>>?'17. / .<7>; '1 68=4 '4 .<'<, / / .1''=< 4<%
% .4@ ; .<7 =4'1% <7; <.4E 1.?1>6.<7'<76 6,<7
$ 771 04>6 '' 5'' ?,?45'7 ,<%
'' / '66.'7,7'5.'>.'5''?,?45'7 ,<' ';7 -.'>4'1,V'< / .
768 E7

> '= .' >>?'17. / .<7 <, < / .' '47'<7 >.' >>?47>6 =4 5
'' >.'?'176 >.'?,?45'7 ,<% %
% .4@ ; .<7 =4'1'<7. <.4E 1.?1.6.<7'<76 6,<7 '7M
7' ; : .6 '' 5'' ; ,<71 047 ,<' > 1.;7.% '' 6, / / .'7,7'5.'>.'
5''7 451 047 ,<' > 1.;7.'>4'1,V'< / .' .67 >.'<> / .'> - '
6..' .<' >.4@ ; .7 =4'1'<7. <.4E ?'176 8 .7 ; : '=4.'>.?'1'
7. / .<7 <, / <.' '47'<7 >.' >>?47>6 =4 5 ?' .'>.'?'176
>;' ; ,< <047 ,<%' %

+ ' ' = = 9 ' ; '
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17% DSGS ,16=4 5 6 'J 1'' >.' E,1 / .1' 1 66. / 05..'
<'7 ,<'5.' >J 65'5 -.V5.6 ; 7,V.<6 ' ;5 E6 6.1.4< 1,<7.<'
'66. <05>.6 ?' / ' 1.6>'<6 >6- 5 .6.7 >'<6 5.6 ;'<7,<6%
' % ,41' ;71.# 7,V. %' ;7 E 5% E'478I%
1.H1'<;' 68 ,4 5.-.<4H1'<=' 6I
1.' J>'>;' 6 ' '<6 ' ; ; , / ?5 6 $
1.' &5, < ; >'>' 6 5'' - 55; ,4' 5'5 ' # ; '<7,<8 / '
< , <6 >.?4 6 4<' '<I $
'V.18 >' '6 44'5 . / '=4.5; ,<=4;' >4' 1,V'< / .8 4<.'
; ,<71 047 ,<' > 1.;7.' '<' / , <6>J'5. ''5'' - '5.41>.'71, 6
Q,41<>.6 ;5.'71' - ' 58 .7 .<' 1; ? >6;<7.1'5''=4 77'<; .I
>71.'?'6 >'<6 4<' > '5 >;' >, / ;65 ; 7>8 . .67 ' > 1.'
>.'6.1- 7.41' '' J'J.6I
1.' <6;1 7 >'<6 5'' / 4< ; ?'5 7>' >.'6,<' >, / ; 5.'
'4' 1 5.' >.6 J'1>.6 <'7 ,<45;6I
-, 1'?1.7>'5.'6.1<1.<5' ; - = .%
% ,46 5.6 > @ '<68 5.' ; ,1?6 5.J 65'7 E E%@.1'' 5.'
/ < / 4 / ' ;7 ;' / '@ / 4 / '>.'5'' - '5.41'>;'5'' Q,41 ; .'
>.' 71' - ' 58 .7 5.6 '> / < 671'7; 16 >.6 >>?'17.< .<76
.<'E.1,<75''>.7.1 / <'7 ,<'5, ; '5.'?,41' ; : '=4.'>671 ;7%
I 45 <.' ?,411'' .@.1; .7 5.6 >1, 76 >;' ; 7,V.17
' ;7 E >'<6 ?546 > 4<' .<>1, 78 < ' 6.E' 1.' 1.?1.6.755;1'
?'1'4<' '471.% %
% ,<7.@7546>.1.@;1; ; .>.6>1, 76>.; 7,V; <' ;5 EN
#.4@ =4 '6,<7 .<' >7'7 > ' ; ;46'7 ,<I
#.4@ =4 8 '?1.6 '-, 1'>7>' ; ,<67 7 .6 ;<'>7'7>.'E' 5'
5 7.' ,4' > <6,5-'0 5 7>8 ?1,4-.' ?'1' ? 7;.6 '47: .<5 '
=4.68 <.' 1'??,17.<5 ?'6 / ' ' ; =4 7 J.<>1'5 >.' ;4-6
;1>'<; .16%
% .6 '66. <05>.6 ?1 / ' 1;6 ,< / .1,<7>;6 .5.;'
7;4 6 ;<' ?1,?,17 ,<' >4' <, / 01.' >.6 ; 7,V.<6 ' ;7 E6
>, / ; 5 .6 >'<6 5'' - 55.' ,4' 5.' ; '<7,<%
'6.1''<,< / .4<'>5.;7. 1'' 1' 6,<'>.' ; .<7 ; 7,V.<6
' ;7 E6 ?1.6.<76 ,4' <,<' '' 1'66. / 05. ;%
' #B 6.1'' <, / < >'>.4@ >.?4 6 ''Q<6=4 U 6 8 .7
' 6'>;'64 7.%
% 45 <.' ?,411'' '<, / / >' > .;7;418 6 5 <;'
1. / 7 '4@ ; ,<> 7 ,<6 <>>.66' 1.6 ?,41'>71.' ; 7,V.<
' ;7 E ; .55,' > .' ?'V.1'4<.' ; ,<71 047 ,<' > 1.;7;' >.%%%%%%%
Q,41<>.6 >;' 71'-' 5%
K' .6 ; , / 7>6 >.' ; ,<67 747 ,< .7 >.' 1>- 6 ,<' ,<7
?.<6>'=4.8 ?,41' ; ,?6.<1.1'5''?41.7.'>.'5'' 1.?1.6.<7'M
7 ,<' <'7 ,<'5.' =4 8 >'<6 <,71.' #,<67 747 ,<8 .67 5''
?1. / .1.'0'6.'>;'5'' 5 0.17.8 5 / ?,17' 7 > '6641.1'%
'47'47=4 5 .67 ?,66 05.8 <>;?;<>'<; ;' ;75;65 / .1.6
>'<6 ;6 '66.< 0 ; .6 >5.;7,1'5.68 .7 >.' <;' / .771.' .<'
64 7.' '4;4<.'0,< .'U 5.41' ; ,<5 '<; ;' .7 U 5'' 5 0.17.'>.6
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56 ?1,?,6. 7 '' 6 . / 05>.'>.'64??1 / .1'5'' ; ,<> 7 ,<'
E54 / '1;'> '1J.<7'57' ; :>.'U1> J 0 5 7>' >.6 1'. / 01.6
>4' ; ,1?6 5.J 65'7 E8 .7 > '4J / .<7.1'5'' ; ,<71 047 ,<'
;@ J>.'?,41'5.6 >5.;7.416% & <' '??5'4> 7 '' ?546 .416
1.?1 6.6%P $
5 ' .67 0 .<' .<5. E54 =4.8 5.6 ; ,1?6 >5.;7,1'4@ 6.'
71, -' ' E,1 / >6 ' '<7 5'' ?1>6.<7.' > 6?,6 7 ,<8 ; .6
; : '<J. / .<76 <.'6.1' .<7 ?, <7 '??5 ; '05.6 '4@ ; : , @
>.'5''?1, ; : ' <.' >J 65'741.%2

+ ' ' , ' ' ' ; ' -

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/ .<7].'1>4< 1, 7 ?,41'>71.'5.'<, / 5 1;' >.6 1.Q 1>6;<'
7' 76 >,<7 5'' 4, / '7 , '6.1'' 571 0 >.' '' ; 1'>>?<1

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' ' ,('-(3+.+,$ *'-('9 (,(',(.('#+$,(*'3('',($! (D'
$=(' $
,'BBB' '+44+.,$(*,'+' . $'-%+..(,.(,'-(''$9*(.'+0(3' !'
,('' (''4 $''+*3('' (,.+*9(.('' ('' $.+$, ''-('4+$2/'-D+,!'
$(*((',-('3 (.3('(,'+*,(,.('3 $$0 $ *''5 D ' 9(.+

[illegible]

[illegible]

_ 3 Xa 3 $ $

WBT 8 '5 ! '4564 C'< **,#('--

H # %

[illegible]

F ') ' 'C

[illegible]

B < A'.

[illegible]

< '9 !

[illegible]

6.<7 / .<76 >.Q, .' .7 > '75' ; : . / .<7 >,<7 / ,< ; , .41;67
?5. < 55 Q - .46 6.1'' 1. / 6.' ? '1 <,71.' - .<.1'O5.'E1 61.'
K'17O.5; / L 8 '1; : .- =4.' >.' ' / .77.8 < ,71.' <,<; .'
,1> < ' 1.' >4 6 .J.' '?,67,5 =4.' ' ' ' ' : '
& ,<6 J<,1 . 'P

,16=4 5 '41'' : ,<<.41 >.' - ,46 5'' ?1.6.<7.1 .7 >.'
1. / ?5 1'' '?1.6 >.' 5.6 E,<;5 ,<6 >,<7 <,<6 '- ,<6
; : '1J .8 <,46 - ,46 64??5 ,<6 >.' 5.' 1. ; .- , 1' '- . ; - ,71.'
1,V'5. O,<7; 8 .7 > '- , 1 .< 54 '7,<7.' 5'' ; ,<E '<; .'=4.'
- ,46 '<1 7O .< <,46 / E / .6 ;'19 .'=4.Q.'1. / ?5Q6 ; '
?1.6 >.' - ,46 8 Q.' 5.' 1. / ?5 6 '466 ' ?1.6 >.' <,71.' 71.6
; : 71.' 5 55.' .< .48 5'' 1. <.' <7, <.77.8 - ,71.' ; : .1.'
.?,46.8 ?1.6 >.' <,71.' 71.6 ; : .1 E 56.< .<8 ,4 6
>'4? : <8 .7 >.' 7,47.' 5'' E' / 55.' 1,V'5.8 '- . ;'7,47 5.'
O.5.' .7 'EE. ;7 , ; >,<7 Q.' 64 6 ; '?'O5. 34.' >.' - , .4@8
=4.' >.' ?1 E.1.68 =4.' >.' 7'1 / .6 <,46 ,EE1,<6 ?,41 - ,<6
'4 ,47 4 66'<7$ <,46 54 '>. / '<>,<6 ?,41 - ,46 4<
?1, / ?78 ?' 6 O5.' .7 71 , / ? : '<7 1.7,41 >'<6 - ,71.'
- ,V'4 / .' <,46 54 '>. / '<>,<6 >.' - ,46 1.<>1.' - ,71.'
'<; .<<.' '47,1 5.8 >.'1.E,1 / .1 5.6 5, 6 .7 >.' - ,46 1. '
7'O5 1 >'<6 7,<6 - ,6 >1, 76 34.' 5'' 1.5 J ,< - ,46 V 1' '
/ .<.' '- . ;' 5.' O1 55'<7 ; ,1 >J.' >.6 >->QQ4.6 1. / ,<7'<7
641 5.416 6 .J.6 34 ;5 .'1E.J<.' '- . ;'- ,46 641 5.6 ?.4 Y
? .6 >,<7 .55.' '41'' 1. ?1 / .' ,1J4. 5 .7 5'' 5 ; .<; .8 .7
>,<7 . 5.' '41'' ?5 7 5.6; , .416.<E <>, ; 5.6 '4 Q,4J >.6
< , .<168 >.' 5'' ? >7.8 >.' 7,<6 5.6 >.- , 16S .566, 7 5.6
- . .4@F=4.d<,46 <.' ; .66,<6 > '>1.66;1 ?,41 - ,46 '4
; .5 .5 .67 4< =4.' ,OQ.7 >.' <,6 ?;<6. ;68 >.' <,6 >. '
6 16 8 >.6 6, <6 =4 '<,46 , ; ;4?.<7 . .67 >'<6 ; .7 .6?1 78
7196 ; : .1 E 568 =4.' >4 E,<> >.' <,71.' ; , .41 <,46 - ,46
>,<<,<68 '' - ,468 '' - ,71.' '4J467.' .?,46.8 '' 7,47.' 5''
E' / 55.' 1,V'5.8 <,77 .'O.<. > ;7 ,< '?,67,5 =4. 4 66. '
7 .55.'X71.' ?,41 - ,46 5.' ?1.6'J.' .7 '- '<7 ; ,41.41 >.6
O;<; > ;7 ,<6 > - <.6 .7 >.6 6<; ; .6 =4 '>, - .<7 ' ; ; , / '
?'J<.1 .7 ; ,41,<<.1 - ,6 <,O5.6 >.66. <6 .7 - ,6 J1'<>.6
.<71.?1 6.6S

,<<> '' K,1<.8 5.' >Q4 55.7 (* 8 '< 5 D >.<,71#
?,<7 E ; '5

@ ') ' ' ' & ' 'C* 9

'' H1'<; .' '' ; ,414 5.6 ?546 J1'<>6 >'<J.16 Q.'5.'
- , 6 / ' <7.<'<7 ?'1 / , / > / . 34.' 5.' 1,V'4 / .' 'Q7
; ; : '??> '4@ 71' : 6,<6 >.' K,4 55>8 . .67 4< ?1,> J.'
=4 '< .67 >> =4 '' ' / ,41 >.' 5'' ?'71 .8 - .174 6 '<,4 '
- .55.' .7 >.Q'' 6 ' 1,O467.' >'<6 5.' ; , .41 >.6 H1'4J' 6
K,4 55.8 ,EE ; .1 > 4< J1'<> <. 1 7.8 '- ' 5 / 6 4<.'
J1'<>.' E,1; .' >.' 7>5.' >'<6 6,< ; , / ?5,7 .' / ,>.1<.'
#'7 5 <'' 5' 66.1'' '<; .< O .< , < >.11 E.1.'54 '>'<6 5''
/ . / , 1.' >.6 : , / < .68 6 ; ?5'<' >.' 6,< '77.<7'7 .67
O .< ; ,<<4 >.' 5'' ?,67.1 7. .<.'?'1 '?, <7 >.' ; .'=4.'
7,47.' 5'' H1'<; .'6' 5 >.Q'8 .7 >. ; .'=4,' / , 8 7,47 671'<
J.1 =4.'Q.'64 68 '- '56 >.- < '>.6 6'' > ?5,1'O5.' 'EE' 1.'
>.' '<; Q.' - .4@ > 1.' '- . ; =4.5 1'EE <.< .47 >.' ?.1 '
E > .' ; .5 : , / / .' '' 64 7 1.1 ?'17 '>.' 5'' 1.?47'7 ,< =4 5
'- ' 5 O ') ' '17 ?546 ; , / / 4< =4 ,< <.'
5.' ?.<6.' >'<6 5.6 ?1 <; ?'4@ E,<;7 ,<<' 1.6 ?4O5 ;68
'4 / , / .<7 ,4 ; : .O 4< ?.4?5.' 1 J <.1.' 4< / . 55.41
;7'7 >.' ; : ,6.6 ,4-1.' > / . '' 5'' .1 >45 7 .'?.17 >.'
J.<.1'58 '?1.6 '- , 171, / ? '7'<7 > : ,<<>7.6 ?'71 ,7.6
.7 66. / O .'<'7 ,<'5.' .55. / >1' .8 =4 ' ;1,V' 7 '- , 1
O.6, < >.' 6.6 7'5.<76 .7 / > / .' >.' 6'' - .174 8 '- ' 5 ?1 6
>.6 > 6?,6 7 ,<6 7.55.68 =4.' 5.' ; , .41 >4 ; 7,V.< .< >, 7
E1> / 1 '?1E.6 V '- , 1 . ; : '??.8 .7 =4.' / 'J <'7 ,<
/ / .' > 4< : , / / .' >.' J4.11.'<.'?.<7 ?'6 ; , <; .- , 1
; , / / .<7 6 .67 E' 7 ; .' / 1' ;5. K,4 55.' >'<6 7,47 6,<
; , / / '<>. / .<7 '- ' 5 5' 66.'6'<6 >.E.<6.' 7,47.6 5.6
?5' ; .6 E,17.6 ; ,<E >.6 '' 6.6 6, <68 .7 5 '- ' 5 ?,41-4
>.' / 7 ,<6 >. O,4; : .' .7 > '??1, - 6 ,<<. / ><7 .<
'O,<>'<; .' ; .' / > / .' >.?'15. / .<7 >.J'1< '> : , / / .6
.7 >.?,4 55.' >.' 7,47.'V J4.41 .' - .<6 >.' 5.' - .1 E .1''
.7O8 >,<7 5.' >.<4. / .<7 ' ;74.5 '77.67.' .<; ,1.'5.6 / ; '
6<1.6;1 / <. 5;6>; 'K,4 55. .6 ?1.' ; '47 ,<6 41,?,6. .6
?'1 5.6 ; , / / 6 ' 1,6 >.'1 66. / O5. ;'<'7 ,<'5.' '4 ,41

> : < ' / .4 .' 6.' <.J5 J.<7 '' - ' =4.5=4.6 ,4-<.16
. / 2P ,V.6 / ,55; / ; 7 '' <.77,V.1 4< E,6 6. , 5'' 5,47
; .'=4 ,< E' 7 ?1.6;<7.< .<7 ' .7O .' ; ;17 5 ;'=4 5 6. '
1' 7 > EE ; 5.' >.' >.E.<>1. ; .55.' ?5' ; .' / ?,15'<5.' > 4<.'
641?1 6.' ,4 > 4< 6 . J.8 ;< .7'5 , ' .55.' .67

B.41;46. / .<7 =4.' 5.6 .<<. / 6 >.' 5'' H1'<; .' ;1' '
J<.<7 ?546 <; '5;45'O5.'E,1; .' .7 5'' ; .5.67;'4< ,< >.6
?'71 ,7.68 =4.' 5.6 > 6?,6 7 ,<6 .7 5.6 / .641.6>.- ,6
; ,< 7.6 .7 >.' - ,6 / < 671.6

.' < .< O1E5 .'?'6 < ? 6 >4 >>6 1 >. - , 1 - ,6 E1,< '
7 .1.6.< >.E.<6.' .7 >'<6 4< .7'7 1.6?. .7 O5. / ' 6Q.'
64 6 > ' 55.416 5, < >.' ;1' <>1.' ?,41 5.6 H1'4E' 6 <
-4 '- . ;'77.<>1 66. / .<7 4< 6.45 E' 7 =4 ' < '' 1'6641.''
71'6O,41J . .67 '> / 1'O5.' 4< ,< >.6 71,4?.6 >.'
5 J4.' .7 >.6 J'1>.6 <'7 ,<'5.6 '1 .@.< ?5.8 ; .77.' ?'1'
7 .' >.' 5'' ; ,<6? 1'7 ,< >.' K,4 55.' .67 .<7 .1.< ; <7 >.
714 7; '' 5 J<.' >.' >. / '1; '7 ,<8 =4.' ; .' J. ;1'5 '- ' 5
6 ' : 'O 5. / .<7 71' ; .? .7 .<71;7. / ; .<71.' 5.6 6,5>'76 '
; 7,V.<6 .7 5.6 ; 7,V.<6 6,5>'768 '' > 6?'14 '- . ; ,<
?.15 > ;' '47.41 #.77.' <,4- .55.' <7.55 J.<; .' .67 E''Q467
E ; '7 ,< >.6 71,4?.6 >.' 5 J<. 34.' >.'Q 5' 47.6 >,<7 ,<
'' E'7 J4.' 66. / O5. .' <'7 ,<'5.8 .5 =4 ' ?1,4- .<5'4
; ,<71' 1; 7,47.6 ;< E' - .41 754 6,5>'78 =4 ' < '?'6
V,454 71'O 1 5'' ?'71 .S

'' > 6; ?5 <.' .7 5'' 64O,1> <'7 ,< 6,<7 6'<6 >,47.'5.6
> ; <.456 >.' 5'' E,1; .' .7 >.' ' ;7 ,< / 5 7' 1;6 / '6
=4.' 5.6 ,E5 ; .16 ; : .1 66.<7 5'' 1. - ,547 ,<8 5'' #,<67 74
7 ,< .7 5.416 6.1 / .<768 .7 - ,46 '41.O '1 / ; .' 5'' / . @
> 6; ?5 <. .' .7 5'' ?546 ,O. 66'47.' >.' 41,?; .'64 6
/ 5 7' 1.8 Q.'64 6 .71'<J.18 Q ''O .< - 4 .7Q.' ?1,7.67.'
=4.' . .67 5'' 5.' - , .4 >.6 6,5>'76 .7 >.6 J'1>.6 <'7 ,<44@
=4.'Q '' <7.11,J>68 .7 =4 ' ,<7 1. ; , <4 6,4- .<7 '' / ,<
. / ,7 ,< =4.'Q ' / .' 5'' H1'<; .' .7 5'' 5 O.17.

.' <.' 6' 6 =4'<> 5.6 .<<. / 6 =4 ' - ,46 < .<' ; .<7
- ,4>1,<7 ,4 ,6.1,<7 - ,46 '77'=4.1 Q ''?.4 > > . .' >.'
5.416 <,V;<6 Q ''4<.' J1'<>.' >. .>.'5.416 <71 J4.6
.' - ,46 > 1' '7,4Q,416 ; .'=4.'Q.'5 .<6 >.'=4.5=4.6>; '
6.17.416 '55. / '<>68 =4.'Q '' .4 , ; ; '6 ,< >.' - , 1 ''
.7O '' ?'1 ' '' 4< > .4@8 =4 8 <V'<5 1. 4 >.'
K, 5 '9 5 - 8 5.'Q,41 >.'6,<'11 - . .' '' 4@. / O,41J8
6.'Q,4 '' 7.5 5.< .<7 >.' ; .77.' J><.1,6 7.' =4 58 .< ?1, 5''
?,41 6.' / .771.' .< 5 O.17.

#.'6,5>'7 / ' > 7 =4 5 V '- ' 7 >4 / > ; ,<7.<7. / .<7
.7 >.6 / 41 / 41.6 >'<6 .' ; ' / ? >.6 > / J1>68 641 5'' > 6
; ?5 <.8 .7 =4.' 5.6 6,5>'76 '55. / '<>6 - ,45' .<7 > Q''
>71.' 71' 7.6 '' 5'' E1'<J' 6. , 5'' >.' = , ' >>6.6?.1.1
- ,6 .<<. / 16 / ' 6 <.' ; , <?7.O =4.' 641 - ,6 ?1,?1.6
E,1; .6 >?5,V.O 5.6 7,47.6 '' 5'' E, 68 - ,46 V J'J<.1.O
> >71.'6'<6 '5'1 / .68 .7 >.'E1'??.1 >.'7.11.41 ; .4@ = '
;1, .<7 - ,46 7.< 1 ?'1 . E1, 8 .7;

' ' ''

@ ' O ' ' 3 ' 'C ' ' ' , '

'' <'7 ,< '- ' 7 / ' E.67.'6,< - . .4 ?,47 '4< 71&I -
/ ,<'1; : =4 .8 5.'6.45 =4 ' ; ,<- . / .' '' - <J7 ; <= / 5
5 ,<6 > : , / / .6 1.?'<>46 641 4<.' 641E' ; .' / / .<6.
,46 '- .O E,<>.' 5'' #,<67 747 ,< 641 ; .77.'O'6.' ;66; '
7 .55. ! 1 ; .6 - ,466, .<7 1.<>4.68 ; ,41'J.4@ ;J 65' '
7;416 ;<- 1,<<;6 >4 - , .4 <'7 ,<'58 / '1; : .O T'' 71' '
- .16 5.6 ;5' / .416 6.> 7 . 6.68 - .16 5.'7.1 / .' >.' - ,6 1'

<- ,5'O5. / .<7 '77' ; : >6 '' 5'' ; ,<67 747 ,< =4.' - ,46 '- .1
E' 7.

A& A a ' ' ' '! A

[illegible]

[illegible]

?'1ˢ 5.ˢ < <Q671;8ˢ '7ˢ 5.6ˢ '<7 #6ˢ Q1 ?,6 ``ˢ ?'1ˢ 5.6ˢ ; : .56ˢ
&P.6ˢ 1.J .6Zˢ 8

(0ˢNˢ ˢ >7 7ˢ <'741.Sˢ =4.ˢ 5.6ˢ 1.J .6ˢ 7ˢ'<7ˢ B8ˢ
7&4d466_5.6ˢ >'<6ˢ 5.6ˢ ?1,>4 76ˢ <, / / '66.<75.416ˢ'J.<76%
ˢ B ˢNˢ '>/ < 671'5 ,<ˢ ; .<71'5.ˢ =4.ˢ .ˢ?1? ˢ
?,6;ˢ 6.1' 7ˢ . 5. < / .ˢ1.6?,<6'05;ˢ >4ˢ 64.; .6ˢ <.6ˢ 71' ˢ
-' @8ˢ .'1ˢ ?,4 / - ,46ˢ 1.<>1.ˢ .ˢ / < 671.ˢ 1.6?,<6'05.ˢ
5 .6ˢ 71'-'4@ˢ >'17ˢ' @=4.56ˢ 7ˢ <.ˢ 6.ˢ ; ,<<'77ˢ ?'6Zˢ ˢE'47ˢ
&R5 .ˢ .ˢ / < 671.ˢ 6, 5ˢ 4< =4. / .<7ˢ 1.6?,<6'05. >.ˢ . / ˢ
54ˢ >.6ˢ E,<>68ˢ .7ˢ >.6ˢ ,1>1.6ˢ J.<7 1'4@ˢ &? B>,<<.?,<1ˢ
1.@.; 7 ,<ˢ >.ˢ - ,6ˢ >>;1.76% '>/ < 671'7 ,<ˢ >.6ˢ 71'
-' @ˢ >, 7ˢ >,<.ˢ '??'17.< 1ˢ 7ˢ 41 .ˢ '>/ < 671'7 ,<ˢ ; .<M
71'5.ˢ ; , / ?,6>.ˢ >.ˢ J.<6ˢ >.ˢ '178ˢ 1'>1' < 671'5 ,<ˢ >.6ˢ
E,<>6ˢ '4ˢ / < 671.% 'Q,47.ˢ =4.ˢ 5.6ˢ <6?..7.416ˢ J.<>ˢ
1'7 @ˢ >, - .<7ˢ <, < / .1ˢ 5.6ˢ 64Q.768ˢ ?'1;.ˢ =4 .4@ˢ 6.456ˢ
$5.6ˢ ; , / ' 66.<7% #.77.ˢ '>/ < 671'7 ,<ˢ ; .<71'5.ˢ 6.1"5.ˢ
; .<71.ˢ > 'O,47 66. / .<7ˢ >.ˢ 7, 7.6ˢ 5.6ˢ ?'17 .6ˢ >.ˢ '>/ ˢ
651'7 ,<ˢ >.6ˢ ?,<76ˢ .7ˢ ; : '466..6% ,45.O - ,46ˢ =4.ˢ5.6ˢ
; ,11;6?,<>'<; .6ˢ >.ˢ '17ˢ 6, .<7ˢ .<J5,47 .6ˢ >'<6ˢ 5.6ˢ
041.'4@ˢ > 4<ˢ / < 671.ˢ =4 ˢ <.ˢ 6 V ; ,<<'57ˢ ?'6Zˢ ,<ˢ
4 'J71"Q' / ' 6ˢ 6'<6ˢ 5.6ˢ ,1>1.6ˢ >4ˢ / < 671.8ˢ / ' 6 ;.ˢ
< .67ˢ ?'6ˢ '4ˢ / < 671.ˢ >ˢ 'J 1% 34.56ˢ 6,<7ˢ ; . @ˢ =<ˢ ?.4 ˢ
- .<7Q4J.1ˢ >.ˢ 47 5 7.ˢ >.6ˢ 71'-'4@ˢ ,<ˢ >.ˢ 5" =4'5 7.ˢ >.6ˢ
64Q.768ˢ 6ˢ ; .ˢ < .67ˢ ; .4@ˢ =4 8ˢ >'<6ˢ 5.416ˢ 7,414>.6ˢ >'<6ˢ
7,47ˢ 5.ˢ 1,V'4 / .8ˢ ,47ˢ ' ;=4 6ˢ5" ; ,< ' 66'<; .ˢ ?.1] ,<
<.55.ˢ >.6ˢ 5, ; '5 7>6ˢ .7ˢ >.6ˢ 'J.<76Z%%%%%% ,<6ˢ ' - .0ˢ >>Q
>>; ; .7.ˢ =4 5ˢ Vˢ '41' 7ˢ 4<.ˢ '>/ < 671'7 ,<ˢ ; .<71'5.% .ˢ
>. <'<>.ˢ =4.ˢ - ,46ˢ - , 6ˢ 0 ,1< .0ˢ ˢ>7'05 1ˢ 5.ˢ ?1 <; ?.ˢ
r=4.ˢ 1'> - < 671'5 ,<ˢ ; .<71'5.ˢ 6.1"6,46ˢ 7.6ˢ ,1>1.6ˢ .7ˢ
6,46ˢ 5" 641-. 5 '<; .ˢ / / >> '7; ˢ >4ˢ / < 671.ˢ >.ˢ <7. ˢ
1 .418Ŷ , 7; .ˢ =4 7 .47'ˢ '17ˢ >, 7ˢ >71.ˢ E' 7ˢ ?'1ˢ >.6ˢ
J.=6ˢ >.ˢ '17I'7,47ˢ ; .ˢ =4ˢ '??'17 . 7'5" #, / ?7'O 5 5>8ˢ
?'1ˢ 5.ˢ / < 671.%
?1.6ˢ E5 .5=4.6ˢ >.O'76ˢ 5.6ˢ 71, 6ˢ '17 ;5.6ˢ 64 -'<76ˢ
6,<7ˢ >>;1>7>6N
17% 5.1% 55ˢ V' ' 1" 4<.ˢ '>/ < 671'7 ,<ˢ ; .<71'5.ˢ >.6ˢ
?4<76ˢ .7ˢ ; : '466>.68ˢ .7ˢ ; .77.ˢ '>/ < 671'7 ,<ˢ 6.1" . ,<E >.ˢ
' 5ˢ / < 671.ˢ >.ˢ <7>1 . 1%
% .ˢ / < 671.ˢ ?1>6 >.1" '66. / O5> ˢ >.6ˢ ?,<76ˢ .7ˢ
; : '466>.68ˢ .7ˢ ?, ?11'8ˢ .<ˢ ; '6ˢ > 'O6.4; .8ˢ 6 VˢE' 1.ˢ 1. ? ˢ
?5' ; .1ˢ ?'1ˢ 4<ˢ ?1.?,6>8ˢ 641ˢ 6"1'6?,<6'O 5 7>%
% '<6ˢ '66. / O5.?ˢ >.6ˢ ?,<76ˢ .7ˢ ; : '466>.6ˢ =4ˢ6.1"
E,1 / . .8ˢ 641ˢ ; <=ˢ <6?..7.416ˢ J><.1'4@8ˢ 7 , 6ˢ 6.1,<7ˢ
?1 6ˢ >'<6ˢ 5.6ˢ ; >.-'<7ˢ ?'V6ˢ > .7'76%
"6.'<; .ˢ .67ˢ5.- . .ˢ ˢ ˢ : .41.6ˢ .7ˢ >. / .%

#ˢ ˢ ˢ9ˢ %

66; / O5>.ˢ ,1>,<<.ˢ <6.17 ,<ˢ >'<6ˢ 6,<ˢ ?1, ; .6 ˢ
- .1O'5ˢ > 4 .ˢ '>1.66.ˢ ?'1ˢ 5ˢ =4.55.ˢ 5.6% ?'V.416ˢ >.6ˢ
1.<7.6ˢ 1>;5' / .<5ˢ ; .<71.ˢ 5.6ˢ <;45?'7 ,<6ˢ 1>?'<>4.6ˢ
;4 ;ˢ ;41ˢ J#67 ,<ˢ >'<6ˢ 5" > 671 O47 ,<ˢ >.6ˢ '66 J<'76ˢ
>; ˢ ˢ5 -%
% <1, ; : ;E,4; '457ˢ E' 7ˢ 5. ;741.ˢ > 4<.ˢ '>1.66.ˢ >.6ˢ
'>< 671'7;4 6ˢ >4ˢ > 671 ;7ˢ >.ˢ ! ,<.66.8ˢ =4ˢ '<<,<..ˢ
=4.ˢ ; .ˢ > 671 ;7ˢ "?'V. 8ˢ ?'1ˢ' ;4 / ?7. ˢ5" / , 7 >ˢ >.ˢ 6.6ˢ
Q / '?,6 7 ,<6%
ˢ 9ˢ ˢ ' ˢ ˢ?1,?,6ˢ > / ?,6 7 ,<68 .ˢ ;1, 6ˢ >. - , 1ˢ
?5' ; .1ˢ ; ˢ / .ˢ / ,7 ,<ˢ >,<7ˢ - ,46'55.bˢ 6.<7 1ˢ 1 < c\ ,1 ˢ
7' ; .% ,46ˢ < J<,1.0ˢ ?'6ˢ =4.ˢ >'<6ˢ 5.6ˢ >.?'17.< .<76ˢ
ˢV ">.Q ˢ 0.'4; , ?ˢ > <71 J'<76ˢ =4 ˢ; 'O' .<7ˢ ?,41ˢ '1ˢ
1 - .1ˢ ˢ 5" 5.J 65'741.% 34 <0.ˢ " - <J7ˢ / 55.ˢ '6? 1'<76ˢ
64< ˢ,#;4?.6ˢ " / .771.ˢ 5.ˢ 71, 4O5.ˢ >'<6ˢ 5.6ˢ > .;7 ,<6% .ˢ
;1, 6ˢ =4.ˢ ?,41ˢ 7 1.1ˢ ?'17ˢ > .5 '1>; 41>. ; .6ˢ 6,4? 1'<76ˢ
5ˢE' / 51' 7ˢ > ;1>7.1ˢ =4.ˢ <47ˢ <.ˢ 6.1" >5 J O5.ˢ =4 '?1E.6ˢ
ˢ' - , 1ˢQ465 5 .ˢ 5.ˢ ?' . / .<7ˢ >.ˢ 6.6ˢ / ?,6 7 ,<6ˢ >; :4.6%
#.77.ˢ 5, 8ˢ O.'4; ,<?ˢ ?546ˢ 1' 6,<<'O5.ˢ =4.ˢ ; .55.ˢ >4ˢ / '1;ˢ
>ˢ '1J.<78ˢ 6.1" > 4<.ˢ ?546ˢ E' ; 5.ˢ .@. ;47 ,<8ˢ .7ˢ > 4<ˢ
>5O7ˢ 0.>4; ,4?ˢ ?546ˢ E14;74.4@%
1GGˢ N .@>;47 ,<ˢ >.ˢ ; .77.ˢ 5, ˢ ?,411' 7ˢ >71.ˢ 71E.6ˢ
> E7 ; 5.ˢ .7ˢ '??,17.Eˢ >.6ˢ 5.<7.416ˢ >'<6ˢ 7.6ˢ > .;7 ,<6%
.ˢ >. / '<>.ˢ 5.ˢ 1.<V, ˢ >.ˢ 5" / ,7 ,<ˢ '4ˢ .< / 7.ˢ >.6ˢ . ,<ˢ
871 E< 7 ,<6ˢ < O5 = .6%
66. 0 ..ˢ ,1>, / ; ˢ5.ˢ 1.<- , %

<ˢ1.?1.<>ˢ5" > 6;466 ,<ˢ 641ˢ 5.6ˢ ?,<76ˢ .7ˢ ; : '466>.6%
.6ˢ '17 ;5.6ˢ 64 -%'<76ˢ 6 ,<7ˢ >>;1>7>6%
17% 5.-% '<6ˢ 1'66. / O5>.ˢ >.6ˢ ?,<76ˢ .7ˢ ; : '466>.6ˢ 8ˢ
=4 ˢ 6.1" E,1 / >.ˢ >.ˢ ; < Qˢ <6?.;7,416J><>1'4@8ˢ 71, 6ˢ
6.1,<7ˢ ?1 6ˢ >'<6ˢ 5.6ˢ ?'V6ˢ > .7'76%
% 7ˢ V '41" ?'1ˢ ; <'=4.ˢ >.?'17. / .<7ˢ <<ˢ <6?. ;7.41ˢ
J><>1458ˢ =<ˢ '41"6,46ˢ 54 ˢ > ' 71.6ˢ <6?..7.4168
% ˢ #.6ˢ <6?..7.416ˢ 6.1 ,?78ˢ #, / / .ˢ 5.6ˢ <J>< .416ˢ
.<ˢ . : .E8ˢ .5 J O5.6ˢ ?,41ˢ 5.6ˢ ?5' ; .6ˢ > <6?..7.416ˢ J.<. ˢ
1' @%
% .6ˢ '??, <7. / .<76ˢ >>;1>7>6ˢ ?'1ˢ 5" <,4 .55.ˢ ,1M
J'< 6'7 ,<ˢ ˢ?,<76ˢ .7ˢ ; : '466>.6ˢ 6.1,<7ˢ ?'V>6ˢ " ; , / ˢ
< .<; ;1ˢ >4ˢ '<- .1ˢ (* %
% <ˢ ; ,<6 >.1'7 ,<ˢ >.6ˢ 6.1- ; .6ˢ / ?,15'<76ˢ =4.ˢ
% ,>,5?0.ˢ .1,<<.78ˢ ?1. / .1 <J>< ;41ˢ ' .7 .58"
1.<> 6ˢ " 7'78ˢ ?.<>'<7ˢ ?546ˢ >.ˢ ;4 =4'<7. 71, 6ˢ '<6ˢ
> ' ;7 - 7>8ˢ .<ˢ > - .16ˢ J1'>.6ˢ >'<6ˢ 5.6ˢ ?,<76ˢ .7ˢ ; : '466>.6Gˢ
' 6ˢ =4.ˢ ?'1ˢ >7'O5 66. / .47ˢ ;7ˢ 5" > 1.;7 ,<ˢ >.6ˢ . ; ,7.6ˢ
?,41ˢ ; .7'178 .71' 7. / .<7ˢ >.ˢ CC89 U5 -% >,<7 5Q,4 7ˢ
' ;7 .55. / .<7ˢ .<ˢ '??, <7. / .<76ˢ .7ˢ ?.<6 ,<6ˢ 54 ˢ 6.1"
; ,<7 / >%
% ˢV '41"4<ˢ <J>< .41ˢ .<ˢ ; : .Eˢ ?'1ˢ ; <'=4.ˢ >> ˢ
?'17. / .<7%
% .ˢ7. / ?6ˢ >.55>; ;5.6.1' ; [/ ?7>ˢ ?,41ˢ 5" ?.<6 ,<ˢ
'4@ˢ J.< .416ˢ =4 6.1,<7ˢ 1.67>6.5.->6ˢ .7ˢ 'B' ; : .66 [6ˢ
<7.114?7 ,<ˢ '4ˢ 6.1- ; .ˢ >.6ˢ ?,<76ˢ .7ˢ ; : '466>.6%
% .6ˢ >5.- .6ˢ =4 ˢ 6.1,<7ˢ .<- ,V>6ˢ %641ˢ 5.6ˢ 71'-' 5 ˢ
'41,<7ˢ ˢ5 -% ?'1ˢ / , 6.<ˢ 646ˢ ; 451' 7; / . 7=4 76ˢ
'41,<7ˢ >.ˢ >; ,5.8ˢ .7ˢ5.6ˢ E1' 6ˢ >; ˢ - ,V'J.ˢ 7. ˢ 6.1,'7ˢ
?'V>6ˢ "1' 6,<ˢ >; ˢC ˢ6,46ˢ ?'1ˢ5 .4;% ˢ 8
+ˢ % ! ,4>'1>ˢ ?1>6.<7.ˢ 5.ˢ >.1< .1ˢ 5 71.ˢ >55ˢ ?1,Q.7ˢ
>.ˢ >>#1.7 641ˢ 5.6ˢ O41.'4@ˢ >.6ˢ 71' 7,Wˢ .6ˢ <15 >;6ˢ 64 M
- '<76ˢ 6,<7ˢ >>;1>7>6ˢ N

- ˢM%%%ˢ ˢO ˢ

17% D1% ˢ : .ˢ ?,411" >71.ˢ >7'O7ˢ ,4ˢ 64??1 / >ˢ' 7; /ˢ
O41.'4ˢ 6'<6ˢ 4<ˢ >>;1.7 >Wˢ ; ,1?6ˢ >J 65'7 EIˢ .7ˢ >'<6ˢ 5.ˢ
#'6ˢ >.ˢ 4 ,4- .5ˢ .5'O5 66. / .<7ˢ ,4ˢ >; ˢ64??1.66 ,<8ˢ 5.ˢ >>ˢ
;1.7ˢ =4 ˢ ' 1" >7.ˢ 1.<>486.1" ?4O7 >ˢ >'<6ˢ =4'71.>;6ˢ
?'1, 66.6ˢ 5.6ˢ ?546ˢ ?1, ; : .68ˢ .7ˢ =4 ˢ6.1,<7 641ˢ 5" 1,47.ˢ
>4ˢ 5 41.'4ˢ <,4- .5E. / . 7ˢ >7'O5ˢ ,4ˢ >.ˢ . .54ˢ =4 ˢ '41"
>7>ˢ 64??1 / >8ˢ .7ˢ 6.1" / 6ˢ >.6'E5 ; : > "1.471. .><ˢ
5 .4ˢ ,4ˢ 5.ˢ O41.'4ˢ 6.1" .7'O5 8ˢ
ˢ '<6ˢ ; ˢ; '6ˢ >.ˢ <,4- .5ˢ >5'O5 66. / .47ˢ > 4<ˢ O41.'48ˢ
5.6ˢ / '1; : '<> 6.6ˢ 4.ˢ 6.1,<7ˢ 64Q.77.6ˢ " ; ,<E 6; '7 ,<8ˢ
?,41ˢ < V ' - , 1ˢ ?'6ˢ >7>ˢ ; ,<>4 7.6ˢ ,4ˢ >>.7'1>.68ˢ J .ˢ
>.4@ˢ / . 6ˢ '?1>6ˢ 5" ?4O5 ; '7 ,<ˢ ,1>, ,<>,ˢ ?'1ˢ '17 ;5.ˢ
; 6] 46% ˢ $ 8 ˢ %
B % "1>J .ˢ 6.1"7.<4; ˢ >.ˢ E' 1.ˢ / .771.ˢ '4 >.6646ˢ >.ˢ
5"?,17.ˢ >. ; <'=47I'O41.'48ˢ ,4ˢ .<ˢ 44ˢ 5 .4ˢ '??'1.<7ˢ ?1.6ˢ
5ˢ > 7.ˢ ?,17.8ˢ 4 ˢ7'O5.'4ˢ ?,17'<7ˢ ; .6ˢ ˢ ˢ 4 ˢ
*ˢ , 7.ˢ 6' 6 .ˢ >.ˢ &<'1; : '<> 6.6G=4ˢ' 1' .<7ˢ
>.?'66>ˢ 4<ˢ O41.'4" >J'1>ˢ >4=4.5 '??,6 7 ,Kˢ >7 ˢ
> 7ˢ 7'O5.'4ˢ < '41' 7ˢ ?'6ˢ .4ˢ 5 .48ˢ 6.1' 7ˢ 4455.ˢ .7ˢ >.ˢ 45ˢ
.EE.7% " 1>J .ˢ 6.1" ?'1. 55. / .<7ˢ ,O5 J..ˢ >.ˢ 7. 1ˢ >'<6ˢ
5.6ˢ >,4' : .6ˢ 5.ˢ7'1 Eˢ J><>1'5ˢ >.6ˢ >1, 76ˢ > .7 71>.ˢ .7ˢ >.ˢ
6,17 .8ˢ ?,41ˢ >71.ˢ ; , / / 4< =4>ˢ ˢ ; .4@ˢ =4 ˢ - ,4>1,<7ˢ
.<ˢ ?1.<>1. . ,<<' 66'<; .8ˢ .7ˢ > <> =<.1ˢ ?'1ˢ >.6'E5 ; : .6ˢ
'??,6..6ˢ >'<6ˢ <7.1 .41ˢ >.6ˢ >,4'<;6ˢ 5.6ˢ E,1 / '5 7>6ˢ
=4.ˢ 7.ˢ ; , / / .1; .ˢ ' 1 Eˢ " 1. / ?5 1ˢ ?,41ˢ 6.6ˢ > 5E>1.<7.6ˢ
.@?.> 7 ,<68
% .6ˢ O'11 .1.68ˢ O41.'4@8 j cP 6 .6ˢ ,4ˢ ;5 541.6>. 1ˢ
7 <.6ˢ ˢ5" J'1>.ˢ .7ˢ 641-. 55'<; .ˢ >.6ˢ E1,<7 >1.68ˢ ?,41 ˢ
1,<5ˢ >71.ˢ .7'O5 6641ˢ 5.ˢ7.11' <ˢ =4 ˢ 6.1" <. ; .66' 1.8ˢ ."
?'V' 7ˢ ?'1ˢ 5"<'7 ,<8ˢ '4@ˢ ?1,?1 .7' 1.68ˢ 5" - '5.41ˢ >4>77ˢ
7.11' <8ˢ >.ˢ J1>ˢ ˢJ1.ˢ Iˢ .78ˢ .<ˢ ; '6ˢ >.ˢ > E5 ;457.8ˢ 641ˢ 5.ˢ
? .>ˢ =4 ˢ6.1"1.J5>ˢ ?'1ˢ 5.6ˢ > 1. ;7, 1;6ˢ >.ˢ >>?'17. / .'7ˢ
641ˢ ' - 6ˢ > .@?.176ˢ ; ,<- .<46ˢ ;<51.ˢ ˢ1>J .ˢ >; 6ˢ >,4'<.6ˢ
.75.6> 76ˢ ?1,?1 .7' 1.68ˢ 6 <,<ˢ <, / / >6ˢ > , ; .% .ˢ
O 1.'<@ˢ >.ˢ 1. ; .57.ˢ ?,411 ,<7ˢ >71.ˢ ?5' ; >6ˢ >'<6ˢ 5.6ˢ / ' Gˢ
6,<6ˢ =4 ˢ6.1,<7ˢ 5.6ˢ ?546; ,<- . 4 O .6'4ˢ 6.1- ; .ˢ ?4O5 ; ˢ
.7ˢ " ; .5 >; ˢ5'> 7.ˢ 1>J .8ˢ '471.6ˢ <>' / <, <6ˢ =4. ; .55.6ˢ
=4 6.1' . 7, ; ;4?>.6ˢ ?'1ˢ .6ˢ ? ,?1 >7 1.6I .<ˢ ?'V'<7ˢ
5.ˢ 5,V;1ˢ >.6> 7.6ˢ / ' 6.46ˢ 64.ˢ 5.ˢ ? .>ˢ ;766O'4@8ˢ ;7ˢ O

> 76 J'J.868J1'7 ! ;'7 ,<6.7 / ,54 / .<768 6.1,<7< 55.6 .5>. <E75 .EE;7I .5 ; .4@ ; 4 6. 71,41.1,<7 ; :'1J 6 >. 5.6 ?'V.1 6,<7 > 6?.<6.6 >; ; , / ?'1'771.641 5.6 '66 6<'7 , 6 = < 5.<16.1' .<7>,< .68 ' 7 6 =4.>.7?<7.6 > ;5'1'7 ,<6 .7 'E5 1 / '7 ,<6%

" % .6?1 ?,6 6>.5'1 J . ?,411,<7 E, 1.8 ?,41 1' 6,< >.6 >1, 56 >. >, 1'<.6 1 '7 ,<<5.68 7,<6 .@?5, 76 .7'471.6 ' ;7.6>; Q<67 7. =4. 5.6 :4 66 .16,<7 ' ; ; ,474 / . >. E' 1.I 56 ?,411,<7 7,<7.E, 6 6. 6.1- 1 >. 7.56 4 66 .16 =4. O,< 5.41 6;< O5.1'8 <,7' / / .<7 ?,41 5.6 1.<7.6 > ,<Q.76 6' 6 68 ; ,<E 6=4.6 ,4 'O'<>,<< 6%

" "% '1 J . 6.1' 1.6?,<6'O5. >4 E' 7 >. 6.6 ?1 $?,6 68 >'<6 .@.1; ; . >. 5.416 E,<;7 ,<6 6.45. / .<78 6'4E 6,< 1; ; ,416; ,<71. .4@ ,4 5.416 ;'47 ,46%

" "% .6 ?1,?1 .7' 1.6 >.6 / 1; :'<> 6;6 6.1,<7 1.6 8 ?,<6'O5.6 ; - 5. / . 7 >4 E' 7 >. 5.416 E';7.4168 'J.<768 6.1- 7.416 .7>, / .67 =4.68 .< ; . =4 ; ,4; .1<. 5. 6>1, 768 ; ,<E 6;'7 ,<68 ' / .<;5.6 .7 > c\.<6%

" " '<6 5. ;'6 > '??,6 7 ,< >. 6;.55 6 641 5.6.EE.76 .7 ?'? .16 >.6 ; , <?7'O7.68 5.6 1.J 671.6 >.1. ; .77. .7 '471.6 >. '<< . ; ,41'<7. <. 6.1,<7 ?'6 1.<E.1 / . 6 6,46 5.6 6; .<. 6I ;6> 76 1.J 671.6 6.1,<7 6.45. / .<7 '1 1 7.6 .5 ?'1'?O.6 ?'1 ; 4J.8 =4 5.61. / .771' '4 ?1. ?,6 ; :'1J. U ; 5' 1. ; .77. ?'1 5.=4.5 .< >. < .41.1' J'1'<7 ; ,< / . > ?,6 5' 1. >. Q467 ; . .7 5 .< %.1' E' 7 / .<7 ,< >'<6 5. ?1, ; .6 -.1O'5 > '??,6 7 ,< 5.6 6; .<. 6%

" " % '1.J . '41' ?1 - 5 J. .7 ?1 E;1.<; . ' 7,<6 Q1 '<; .16 6G41 5.6 / .4O5.6 .5 .E5.76 / ,O 5 .16 >.6 ; , / ? 'O5;68 ?,41 5.416 >7 O.5688.7 641 ; .4@ >.6 1.>.-'O5.68 / 4B .6>1, 768 .@; .?5 ,< >.6 E1' 6 >. Q467 ; . .7 < 71.6 ?1 - 5 J . 68 >. ; . =4 6.1' >E5 ?,41 6 @ / . 6 >. ,V.1 6.45. / .<78 .76'4E '466 5' 1.-.<> ; '7 / >4. Q .<7 E,1 / .. ?>1 5.6 1,?1 7' 1.6 >.6 1''1; :'<> 6.6 I< <'741.8 =4 6.1,<7 .<; ,1. 6,46 O'55. .7 6,46 ; ,1>.% '1; 5 ?1 - 5 J. 6 .@.1; .1' 641 5.6 / < .4O5.6 ' ;=4 6 ?'1 5.6 ; , / ?7'O5.6 >.?< 6 5. ; , / / .<; . / .<7 >. 5.41 J.67 ,<%

" " % 4 ;'6 >. '17 ;5. ?1 ; .>.<78 5'1 J . '41' :V?,7: =4. 641 5.6 / / .4O5.6 >.6 ; , / ?7'O5.6 .7 >.6 1.>.-'O5.6I 6'- , 18 ' .J'1> >.6 ; , / ?7'O5.68 ' >'7.1 >4 Q,41 >. 5.41 ?1.67'5 ,< >. 6.1 / .<7I .7 >.6 1.>.-'M O5.68 ; , / ?7.1 >. ; .54 , > 5.6 6,4 / 66 ,<6 '41,<7 7. E' 7.6 641 5. 1.J 671.8 .7 J<. .6 ?'1 .4@ ,4 5.416 E';M 7.416 N ?,41-4 <.'< / , <6 =4. 5.6 .@71' 76 >.6 1.J 671.6 ; ,<5;<'<7 5.6 6?4 / 66 , 6 >.6> 76 1.>.-'O5.6 ' .<7 7. 6,4 / 6 ' .<1.J 671. / .<7 >'<6 5. >.5' E@ ?,41 5.6 ';7.6 >.6 <,7' 1.6%

" " % ,47 ?1 ?,6 8 >.67 74 >.6,< . / ?5, 8 94 =4 5. =4 77.1'8 6.1' 7.<4 >. 1. / .771. ' <67'<7 '5' 1 J .8 ' 6,< E,<> >. ?1, ;41'7 ,<8 6' ; , / / 66 ,<8 5.6 1.J 671.6 .7'<71.6.5 ;76 >,<7 5 6.1' ; : '1J. ?,41 5' 1.M J .8 .7 >. 1.<>1. 6.6 ; , / ? .6N 6 <,<8 .7 '5'45. >. ; . < 1.8 5 6.1' > ; .1< ; ,<71' <7. ?'15.> 7 E,<>S >. ?1, ;41'7 ,<I .7 5' ; ,<71' <7.8 - 6 .?'1 4< >.6 Q4J.6 >4 71 O4<'5 >. > 671 ;78 6.1' .@. ;47.. ?'1 7,47.6 , .68 < / . ?'1 ; ,1?6%

" " % 4;4<. ?.16,<<. <. 6.1'1. ; .-'O5. 'E,1 / .18 ; .<71. 5' 1.J . >.6 >,4'4.6 <'7 ,<'5.68 >. >. / '<>.6 .< 1.67 747 ,< >. >1, 76 .7 >. / .1; :'<> 6.68 ?' .1' .<7 >. 5,V.16 .7 '??, <7. / .<76 >. ?1.?,6 68 >.4@'<6 '?1.6 ?,=4.=<; 5.6 1 ;5' / '7.416 >,<<.1' .<7'4?' . / .<7 >.6 >1, 768 >.c>P7 >.6 / ' ; :'<> 6.68 ; : .'<; .6 >.6 5,V.16 .7 '2P?, <7. / ;<76% '1 J . 6.1' > ; :'1J .871, 6 '76 '?1.6 ; : '=4. '<< . .@? >.8 >. 5' J'1>. >.6 1.M J 671.6 >. 1. ; .77; .7 '471.6 >. 5'> 5. '<< .%6'<6 ?,4-, 1 ;71. 7.<4. >; 5.6 1.?1.6.<7.18 6 5 <V '- ' 5 >.6 <67'<M ; .6 .<; ,1. 64O6 674<5.6 ?,41 5.6 <6714;7 ,<6 .7 Q4J; / .<76 >.6'<.55.6 5.6> 76 1.J 671.6 .7 ? . ; .6 E466.<7 ; ;66' 1.6N 5'> 7. 1 J . 6.1' ?'1. 55. / .<7 <,< 1. ; .-'O5. E,1 / .1' ;4<. >. / '<>. .< ?' . / .<7 >.6 >1, 768 5 : '< '?1 6 =4. 5.6> 76 >1 76 '41,<7 >> 71; ?'V 68 5. 5,47 / , <6=4 5 < V .>7 '-'<7 5.6> 76 7.1 / .68 6, 7 ?,41 5' 1.J .8 6, 5 ?,41 5.6 ?'17 .68 ; ,<71' <7. 6 J<

5 ; .8 >. / '<>. EO1 / . .< Q467 ; .8 ., <>' / <'7 ,<8 ?1, / .66.8 ; ,<-.<7 ,< > ,O5 J'7 ,< ?'17 .<5 .1.6 .7 6? ; '5.68 1; =7 - . / .<7 ' ,OQ.7 =4 6.1' 7 1 ?.7.%

" " % .6 1.J 671.6 >, >. ;5'1'7 ,<68 ?' . / .<76>.6 >1, 68 6,4 / 66 ,<6 >.6 1.>.-'O5.6 .7>. 5.416 ;'47 ,<68 >.6; .<7.6 >.6 / '1; :'<> 6.68 ;7 > ; :'1JEE >.6 ' ;=4 76 ; '47 ,<8 =4 6.1,<7 7. 46 >'<6 ; :'=4. O41. '48 >. -1,<7 1. 6'<6 '4;4<.6 5';4<.6 < <7.15 J<.68 .7 5.6 6, / / .6 V 6.1,<7 <6;1 7.66'<6 ; : EE1.6 < 'O1 - '7 ,<68 6'4E8 '?1 6=4 .55.6 '41,<7 .7 ;1 5.6.< 7,47.6 7. 71.68 ' 5.6 7 1.1.< ; : EE1.6 : ,16 5 J<.% < ;'6 >. ?.17. >.6 .@?.> 7 ,<68 5.6> 76 1.J 671.6 ?,411,<7 6.456 6.1- 1 ' 5' >. ; :'1J. >.6 1.>.-'O5.68 '4@= .56 5 6.1' >;5 -1 ?'1 5.6 1. ; .-.416 .7 ; ,<71 5;416 7 .6 ; ,? .6 ; .17 .6 >.6> 7.6.@? > 7 ,<68 7,47.6 5.6 E, 6 =4 7 ?,411' 71; ?1 6 .6 ?1. ;'47 ,<6 64E5 6'<7.6 ?,41 . / ? ;<.1 5.6 >,4M O5.6 . / ?5, 6 .7'471.6 'O468 .76'<6 =4 '4 / ,V.< >.6 > 7.6 ; ,? .6 ; .17 .6 ,< ?4 66. ?1,5,<J.1 5.6 > 7' 6 E @.6 ?'1 5.6 .@? > 7 ,<6 ?,41 5.6 ; :'1J. / .<768 > .:'1 J.< .<76 .7 71'<6?,17 >.6 / '1; :'<> 6.6%

.6> 76 1.J 671.6 6.1,<7 1.5 .68 5.6 E.4 55;76 ; ,7 6 ?'1 ?1. / .1 .7 >.1< .188 .7 ?'1'?: .6 6'<6 E1' 6 ?'1 4< Q4J. >. > 671 ;7 ,4 Q4J. >. ?' "8 #: ';4< >'<6 6,< '11,<> 66. / .<7% %

" " % .6 ?1 ?,6 6 ' 5' ?.1; .?7 ,< >.6 >1, 76 . 1,<7 .< ,471. 7.<46> 'V, 1 4< 1.J 671. Q, 1<'58 64E 5.=4.5 56 ?,17.1, 78 Q,41 ?'1 Q, 18>. 64 7.8 .7 6'46 '4;4<. 71'<6?,6 7 ,48 641; : '1J.8 <E1'741.8 7,47.6 5.6 ?'17 .68 7'?5 >. 1. ; .77. =4. >. >.?.<6. =4 56 E.1,<78 '- . 1.<; / ; '7 ,< >.6 <, / 6 >.6 ?'17 ;45 .16 =4 '4 1, :7 E' 5 5.6 ?' . / .<768 .7 >. ; .4@'<@= .56 56'41,47 ?'V; I 5.> 7 1;J 671. Q,<1 '58 ?/ . 55. / .<7 1.5 .8 6.1' ; ,7 .7 ?'1'?: . ?'1 ?1. / .1 #7 >.1< .1 E.4 ;78 7'<7 ?'15 4< >.6 Q4J.6 >4% 71 O4<'5 >. > 671 ;7 ,4 Q4J. >. ?' @8 =4. ?'1 5. > 1. ;7.41% %

" " "% .6> 76 ?1.?,6 6 ' 5' ?.1; .?7 ,< >.6 >1, 76 <,<; .1,<7 >'<6 5.6 ' ;=4 76 >. ?' . / .<76 5. 7 71. < -.174 >4= .5 56 '41,<7 ?.1;45 6 >1, 768 .7 56 .< Q46 7 .1,<7 6 56 .< 6,<7 1.=4 6I .5E.7 >. =4, 8 5.6 1 J5. / .<76 '11 7 6 ?'1 5. ; ,1?6 ;J 65'7 E 6.1,<7 / ?1 < 6.5?4O5 6 '466 7>7=4 566.1,<7 <7.1-.<46 7 5.41 .67 >.E.<>4>.?.1; .- , 1> '471.6 .7 ?546 E,176 >1, 76 =4. ; .4@'7 @.68 ' ?. <. >. ; ,<;466 ,<%

'3 ,>1, 76 6.1,<7 ?'V 6 ; ,1'?7' 7'7,47.6 5.6 .<71 .6 m7 6,17 .6 >4 1,V6 4 / .I .7 5.6 / '1; :'<> 6.6 <. ?,411,<7 71. 1.7 1..6 >.6 >,4'<.6 ,4 O41.'4@ =4 = ?1 6 5. ?' . / .<7 >.6> 76 >1, 76%

" " "% '<.'< / , <6 5. 1. ; .-.<1 '- ' 5 E' 7 ;1.> 7 >. >1, 768 5 6.1'8 .< ;'6 >, 1.E46 ,4 >. 1.7'1> >. 5' &\'17 >.6 1.>.-'O5.68 '47,1 6 ' > ; .1<.1 ; ,<71' <7.8 .< E,41< 66'<78 .< 7 7. >. 5' ; ,<71' <7.8 .@ 1' 7 >4 1.J 6M 71. =4 ; ,<7 .<>1' 5' 6,4 / 66 ,< >.6 1.>.-'O5.6%

" " " % .6 ; ,<71' <7.6 > ; .1< .68 7'<7 ?,41 5. 1. ; ,4-1. / . 7 >.6 >1, 76 >,<7 7 '41' 7 .7.'E' 7;1; > 78 =W; ?,41 >.E'47 >. 1'??,17 >.6 ; .17 5 ; '76 >. >. ; :'1J. >.6 ' ;=4 76 ' ; '47 ,<8 6.1,<7 - 6 ;6 6'<6 E1' 6 ?'1 4< >.6 Q4J.6 >4 71 O4<'5 >. > 671 ;78 .7 .@. ;47 .6 ?'1 7,47.6 - , ;68 / / . ?'1 ; ,1?68 ' 5' ; '47 ,< >. 5' 1.J .% .6 Q4J.6 <. ?,411,<78 6,46 =4; =4# ?1.7.@7. =4. ; ; 6, 78 1. 46.1 5. A 7, 7; %6 ; ,<71' <7.6 =4 5.41 6.1,<7 ?1.6.<7..68 ' ?. <. > 71.8 .< 5.41 ?1,?1. .7 ?1 - < , / 8 1.6?,<6'O7.6 >.6 ,OQ.76 ?,41 5.6 4.7. .55;6 N / 1,<7 .7. ' . ..1<..6%

" " " % .@. ;47 ,< >.6 ; ,<71' <7.6 <. ?,411' 1. %646?.<>4. ?'1'4;4<. ,??,6 7 ,< ,4 '471. ' ;7.8 6 < .678 =4'<7 ' ; .55.6> ; .1< .6 ?,41 >.E'47 >. 1'?&BP17 >. ; .17 5 ; '76 >. > ; :'1J. >.6 ' ;=4 76 ' ; '47 ,< 8 ;< ; ,<6 J<'<75. 6 / ?5. >1, 7% 5 .67 >.E.<>4 7,46 Q4J.68 6,46 5.6 ?. <.6 ?,17..6 .< 1 17 ;5. ?1 ; >.<78 >. >,<G <.1 ; .<71. 5.6> 7.6 ; ,<71' <7.6 '4;4<.6 > E.<6.68 >? 8 6416. '<; .68 =4 6.1,<7 <4 .6 .7 >. <47 .EE.78 6'4E 5.6I >,1'< 'J.6 ;7 <7.1 7 >. 5' ?'17 .%

8" " " % .6 ?1.?,6 6 >. 5' 1.J .8 =< 8 >'<65. ; ; 76

C)

>.'5.4 6'E,<;5 ,<6%?'66.1,<7>.'1.7.<> .> 4<>.?'17.'
< .<7>'<6;.55;'> 4<'471.8?, 11,<7'6.'6;1- 18?,41'
5.416'?1,;7. -.10'4@ .7'471.6 ';7.68 >4'?'? .1'4'
7 /01.' .<'46'J.'>'<6 4<,4 '471;'>.?'17./ ; 7%
" " " % .6>76?1.?,6 6?,411,< 8 .<;I6>.'?,41'
64 7.'>.'5" E1'4>.8'5'%6' 6 18 />/.'4 >.5" >.6>.4@8
5 .4.6>.6; 7.6 .7E1,<7 E.1.68?,41-4' Q4 56 ' .17-4.'
?><>71.1%.7=4 56 ' ;<7'64 - .'6'<6 <7.114?7 ,<%
" " " % .6>76?1,?,6.6?, 11,<78 >'<6P.'/>/.'
;'68 E'1.'5.416 1.;:;1;:.6>'<6 5.6 /'6,<6'6 74..6
>'<6 .7.<>4.'>.6>.4@5 .4.6>.6;,7.6,4'E7,<7 .1.6
>.'7.11.8?,41'V'6'6 1'5.6 /'1.0'<> 6.6>.';,471.'
0'<>..7'471.6=4 56'41' .<7 -4 <71,>4 1.8?,41-4'
7,45.E, 6= 56 ' . 7?'6?.1>4'>.'-4.'5.6>7.6 /'1'
;:'<> 6.6'Q4644 '4'5 .4'>4'>.;:'1J.< .<7I'.7?, 11,<78
6 5'V "1.E46'>,4-.1741.'>.'?,17.68 5.6E'1.',4-1 1'.<
?1.%6.<;.>4<Q4J.' ,4> 4<',B . .1/4< ; ?'5>4'5 .4I
7,47.6 '471.6 1.;5 .1;:.6:'>, / ; 5.'5.41'6,<7 <7.1'
> 7.68'6c;.'< .67'4';'6>.' '17 ;5.' 7 '>4'?1.6.<7>`'
;1.7%
" " " % ,47 /'J'6<,4.<71.?>E>.'<'1;:'<> 6;6
/'<4E';741. .68 ,<>,<7'5.'>1, 7> .<71..'
-% ?'1'=4 <7'58,4'.<5<>,<7'5" 6,17 .' .67 ?1,: 0..'
,4''664Q.77 .' '>.6>1, 76?'1'5.'<,4-.'4'7'1 E8 .67>.'
E.<>4>'<6'5">67'<;.'>.'>.4@5 .4.6>.6E1,<7 1.6>.'
7.11.8 " .@;.?7 0<>.6 5 . @>,<7'5"?,?45'7 ,<6.1"
<5 / , <6>.'C8 '7<.6%
" " " % .1 <71.?45..6.<.<71.?>7'7,47.6;.55.6
>.6>7.6 /'1;:'<> .6=4'6.1,<7.<'0'55.6,4'0'55,768
'471.6;.?.<>'<7=4.'>4;14'>4'?'V6%8 .7?,41'5.6'
< .55.6,<<.'?, 11" ?'6 1.?1.6.<7.1'> .@?.>7 ,<6
' /'041.'4'>.'>,4'<.8>05 -1..6>'<6'5.Q,41'?,415.'
71'<6?,17>.6>7.6< '1;:'<> 6;6%
d" " " "% .6 /'1.0'<> 6.6.87>. 1;.6''<6'.<71.?, %
6.;6 6.1,<7'6' 6;6;7;,<E 6=4..68'-.;''/.<>.'>.'
5 -%;.<71.';, @=4'5.6' 1,<7 1.;4.6 .<.<71.? 7%'
1.5 ;7>.'= , '5.6 ?1.?,6.6>.'5"1.J .'?, 11,<7'5'1.'
5.416'1.;5 .1;:.6>'<6'5.6 /'6,<6,4'5.J .<71.?,76'6.M
1,<7'E,1/ .68 ,<6.'E'6'<7'66 67.1'>4<',E5 ; .1'/4< M
; ?'5><'5 .4%
" % 5< .67?, <7;,<67'7 '=4 15'V%' 7 . 71.? 7 1'
/ ,7 E>.6'6 .8 7 6.1" ?'V.'5"6, / /.'>.'CU5 -%8?,41'
>, QQ/'J.6.7<7.1 76'8'6 5V' "5 .48 ';.5 ''4'>, / M
; 5.'> =4.5'5.6'1;.:.1;: 66'41,<7;7>'E'7.68'6'4E''54'
"&> 6?,6.1'>.'5'>7.'6, / / .''<6'=4 5'-6.1"%
" % 7<.'?,411" 71.'E,1< 8>'<6'5" / /.'>7.<'
.' '>.4@5 .4.6>.6E1,<7 .1.68 " .@;.?7 ,<>.6
1 ;68'4; <.'<,4-; 5.' ;5,47.1 .8?'?.7.1 .,<'471.'
Q1'4>.' /'<4E';741.',<E'01 =4.8'6'<6'4<.'?.1/ 66 ,<
@?1.66.'>4' >1;;7, 1;'>.' >.?'17. / .<7I .7 .< ;'6
'046'5'>7.' ?.1/ 66 ,<6.1"1.-,=4..%
" % .7.<>4.'>.6>.4@5 .4.6>.6E1,<7 E.1.6>.'
.71'<J;1'6.1" 5@;;' ?'1'5.6>1.;7, 1;6>.'>.?'17.M
/ .<7'8'641'5.'? .>'>.'5"5 .4.';, / /4<.'>.' H1'<;.8.7
'47' 7=4.'5" ?,6 7 ,<>.6 - 55.68 0,41J68 - 55'J.6.7
:<4 .' @8'5.6'1 - .1.68 , 6 .7< , 7'J ;6?, 11,<7'5'
?.1/ .771.8 6'<6=4.8 >'<6 '4; ' ;'68 5" >67'<;.'
? '66.' 71.'/ , <>1.'>.'>.4@5 .4.68'6'4E .<;'6> <'
?,66 0 5 7.8'1;5' -.< ,<7'4'6.1- ;.'>.6?1,?,6.6>.'5"
1.J .8>.'71';.1'5" 5J<.' ' ;.77.'>67'<;.'?1.; 6.'>.'
>; # 5 .4.68>4' ; 7.'>.' <7 1 . 1I 5" @'5,<>.6
>67' ;.6. 71.'5.'7.11 7, 1.' .71'<J;1'.7 5"5 J<.'6.1"
E 7.8'6'<6 .J'1>' ' @'6 <4,6 7.6 >.6 1,47.68 .<?1.'
'<7'5" / ;6 1.'5"?546>1, 7.'.7" -,5>, 6.'4%
" 55% " 5 J<.'6.1" /'1=4..'?'1G ">.6 J<'7 ,<
=4.';.:'=4.'>1;;7, 1;'>.'>.?'17. / .<7'7.1">.67.11 '
7, 1;6'641'5.6= .56 .55.'>.-1"?'66.18 .7>,47 .7'5'6.1"
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=4 .<-.5,??.1"5'>7.'5 J<.I 5'6.1" . ' ,471.' ?5' '
641';.77.' 5 J<.' >.6 ^5,7.'4@8 "5" >67'<;.'>.'>.4@
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0 <<9 ^). => _= P&< 4

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$ (7 + . ?1 <; . ,6.?a ,< ' 7, [6 >, 7 <; . ' / / .<78 " 5" 7.5. > 4< ; ,1?6 >. 71,4?.6 .5 > 4< 71' < > '15 55.1 ;8 '57.1 1.?1 / .1- .6?1 7 >. 6.> 7 ,< =4 1.J<. >'<6 1' <. % < - .<7 >. 1'? ?.5;1 =4.5=4.6 / . / 01.6 >4 71'0 ,< ; ,<6. 5 >. 641 T - . 55'<; .8 >, <7 5" ?1.6.<; . ?'1' 7 .71. < ; .66' 1.I .7 641 4< 6, ?; , =4. 5. 1, 1 6=4' 7 > .71. .<5.- . >4 #: 5.'< >. ,0 .<6 8 ,< " >, 405 5" J'1>. .7 01'=4 >4 ;'<,<% A 8

@ G F G

< - ,46 " ; , / / 4< =4. >'<6 5. 7. / ?6 5" 64067'<; . >. 5" 1.?,<6. >4 - ; ;:'<; .5 .18G; , / 7. > 67.1 / '<48 .< >'7. >4 9 Q4 <8 " 5" <?7. =4, 5.6 / < 671.6 >.6 ; ,416 '5 5 . . 6 ?1 6.<7.1.<7 5. C9 / ' ' '4 ;'0 <.7 >. .7.160,41J% 1.6.<7. / .<7 <,46 ?,4-,<6 - ,46 >, <<.1 " <,4-.55. 1.=4. >. 0,<<. / ' < >. .7.160,41J 8 =4 .8 641 ; .57. 1 ?,<6. >. / ?.1'71 ; .8 5.6 / < 671.6 > <J5.7.11. .7 >. 1466. ,<7 1. / 6 5. C* Q4 < 4< / . / , 1. ; ,<7.<'<7 5.6 ?1,?,6 7 ,<6 64 - '<7.6 ?,41 '11'<J. / .<7 >. 5" ?' @ ' - .; 5" ,17.N <5 3 4. 5.6 E,17 E ;'7 ,<6 > ;0' , [6, .<7 >. / ,5 .6I CG=4. 5" 5 01. '<' - J'7 ,< >4 < .67.1 6, 7 '6641. . I p =4. 5" 1 - . J'4; : . >. ; . E5.4-. <.W, 7 ?'6 E,17 5 . . % Y .6 / ,V.<6 > .E5.;74.1 ; .7 '11'<J.M / .<7 ,<7 .5. 5' 66.6 '4 ; : , @ >. / ?.1'71 ; .% '1 5. 7,< >. ; . / . / , 1.8 =4 .67 ; ,<=4 >'<6 5.6 7.1 / .6 5.6 ?546 / ,>.1.68 .7 ,4 , 6. 1.E.1. '4@ 6.<7 / .<76 >. Q467 ; . .7 >. / 'J<'< / 7. >. / ?.1'71 ; .8 ,< ?.<7 6.<7 1 '66.0 .- >. / / .<7 =4. 5.6 ?1,?,6 7 ,<6 I < ,< ; . . 6 <. 6,<7 ?'6 5. >.1< .1 8 .7 =4. 5. 7,47 .67 .<; ,1. 6,4 / 6 " >.6 / ,> E ;'7 ,<6% ,< V - , 7 >. ?546 =4. 5.6 ; ,416 '55 .6 0,1<.<7 5.416 > 6 16 " <E54.1 641 5" ?'; E ;'7 ,<8 ?547,7 ?'1 5.6 0,<6 ,EE ;.6 =4. ?'1 5" - , . > 4<. / .> '7 ,< E,1 / .55. ' '=4.55.8 '?1 '7,47 ; . =4 6 .67 ?'66>8 5. ; '0 <.7 1,66. " 7 EE5, J<. =< 5 1. ?4J<' 7 6'<6 1.7,41%

=< % L 3 <G 9 %P

< 7 + . 6. ; ,<> ; ,1?6 > '1 / . ?146 6 .< 6 .67 4< ?.4 1.7 1> >.6 E1,<7 .1.6I =4.5=4.6 1.J M / .<76 ?, / .1'< .<61.7,41<.<7'5.4 6 '<; .<6 =4'17 .16 >. ;'<7,<<. / .<76% .6 1.J / .<76 >'<6 7. > 671 ;7 >. 5" .70. ,1 / .<7 4< ; ,1>,< Q46=4 " 1 .6.<% " 0,45'< J.1 . >. ;' / ?'J<. .67 " H,1>'<I " ! 1'4>.<70 ,< " ?5' ; . >.6 ? . ; .6 >. ; '<,< 641 71,Q6 0'77.1 .6%

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$ 9] + .6 .5' 6 >. ,1'- . 'V'<5 >. / '<>. " ; / ?.1.41 6,< 'J1. / .<7 '4 1.7'05 66. / .<7 > 4< ; , / 7. ?.1 / '<.<7 ?,41 5.6 'EE' 1.6 =4 5.6 ; ,< ; .1<.<78 % %V ' ; ,<6.<7 %

.67 =4.67 ,< >. >, <<.1 5. J,4-.1<. / .<7 >. 5" , / 0'1> . '471 ;0 .<<. " '1; : >4; 5.@'<>1. . ,M ?,5>8 '4 ;'6 =4. 5. >4. >. ,>.<. ; .>. 6.6 .7'76 " 1'1; : >4; H.1> <'<>8 J,4-.1<.41 ';74.5 >. 5" , / M 0'1> .% 8

'V " >4 / ,4-. / .<7 >'<6 5. / 5 7' 1. I >.6% 0'7' 5 5,<6 .7 >.6 ; , / ?'J4 .6 6,5..6 '11 - .<7 ; .7 1.?'17.<7 6Q1 5; _ 5 ' / ?% < J<,1. 5.41 >.67 <'7 ,<%

F (2 2 + < 6'57 '4Q,41> :4 ?, 6 5 - . / .<7 =4. 5" ?54?'17 >.6 <6714 ;7 ,<6 >.6 / < 671.6 ; , / 7 '4@ >'<6 'EE' 1. >.6 ?1 <; .6 ?,66.66 ,<E >6 .< H1'<; . 6,<7 ; , E,1 / .6 '4 ?1,Q.7 >,<<. ?'1 >5. ;7.41 >. 'V.<; .% ?'1' 7 > '?1.6 ; .5" ; .17' < =4. 5 ,< 'J 1'

G + < ' .

'-.; 1 J4.41I / ' 6 5.6 E,1 / .6 ; ,<67 747 ,<<;55.6 >. / ? 1. ' '?? ,17.1,<70. '4; ,4? >. 5.<7.41 " .@. ;47 ,< >.6 / .641.68 =4 > ' 55.416 >'<6; . / , / .<7 <. 6,<7 ?'6 .<; ,1. '11 7. .6 >.E < 7 - . / .<7% < " - ,7. ?,41 5. # >4 ; ,<7 <J.<7 N ; . =4 E.1' 7 4<. '1 / . >. C 8 : , / / .6%

.6 5.771.6 >. K.15 < > 6.<7 =4. 5. 1, '41" 4<. .< 71.-4. ' - . ; . / ?.1.41 .< K,0. / . .55.6 ?,17.<7 '466 '66.0 ;5' 1. / .<7 =4. '<70 ; .7 : ,1< 6.1,<7 'Q,47.6 '4@ ?,66.66 ,<6 >4 1, % ?'1' 7 = . ; .6 - 55.6 >.- .< >1,<7 5. ?1 @ >. >>>, / / 'J. / .<7=4. ,< - .47 E' 1. '4 1, >. 1466. ?,41 6.6 E1' 6 >. J, .11.

J,4-.1<. / .<78 .;1 7 ,< >. .<=.8 " E' 7 '11 7.1 ?546 . 16 ?'17 ;45 .16 =4 8 >'<6 >.6 .<>1, 76 ?405 ;6 6. ,<7 ?.1 / 6 >. ?1,E.1.1 =4. 66. / 05. . <'7 ,< 5; >. H1'<; . - '5' 7 0 .< 4<. 797. ; ,41,<<. .%

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?Q \ + < '6641. =4 5 6.1" / 6 4<. 7'@. '>> 7 ,<<.55. 641 / ?,6 7 ,< >.6 - <68 64;1.8 ; 'E.8 6 1,?68 .7;%

. ; ,5,<.5 ><.V8 'V'<7 ; ,<6714 7 4<. 0'77.1 . E5,7_ 7'<7.8 > '?1 4< <,4-. '4 ?5'<8 =4 ?,17. ? . ; .6 >. ; '<,< .7 : , / / .68 " E' 7 5 . %55> . ; . / , 6 >.6 / 'M <, .4-1.6 ' - . ; ; .77. 0'57.1 . 641 5" ?1. .8 .< ?1.6.<; . >4 1, 8 >.6 ?1 <; .6 8 >.6 / < 671.6 .7 >. 0. '4; ,4? >. J <.1'4@ =4 V 6,<7 7 ,<6 / ,<7 ` Q ; .6 / '<; .4-1.6 ,<& 1 466 ?'1E' 7. / .<5%

.4@ ; , 11 .16 '<J5' 6 6,<7 '11 - . ; 5. C Q 4< > .4@ " ; ,<7 <4. 6" 1,47. ?,41 67,-.%

>.?'17 >4 1, ?,41 5" 1. -4. >.6 71,4?.6 .< 1466. 1.67. 7,4Q,416E @ '< , 7% % % 1.67.1" >'<68 ; ; 1,V'4 / . Q4 =4 '4 8 .7 6. 1.77>1" .<64B. >'<6 5" >6 .%

5

A + < '6641. =4. 5.6 <,< ; ,<E,1 / 65.6 ,<7 . : - ,V>8 5. C >4 / , 6 >.1< .18 4<. >.?47'7 ,< % 778 ?,41 5. ?1 .1 >. E7 1. ?,4164 -1. 5.6 <67 J' 7.416 .7 '47.416 , .6 .@; .6 ; , / / 6 " K 1 / <J: ' / 8 .7 =77. ; . ?1. / .1 / < 671. 5.41 " 1.?,<>4 =4. 5. J,4-.1M < . / .<7 .7' 7 >.Q" > 6?,6>8 <>5?.<>' / / . ,7 >. 5. 16 6,55 ; 7'7 ,<68 " >>?5,V.1 7,47.5" - J4.41.7 5" Q467. 6 ->1 75 =4 .@ J. ' 7 5" ; 1; ,<67'<; .% + < ; ,<6.=4.<; . 5 " >7. ?405 . 5. C* >.4@ ?1, ;5' / '7 ,<6 1,V'5.6 ?,1 7'<7 ?1, / .66. >. ; .<7 5 -1.6 67.15 <J ?,41 ; .4@ =4 >. ; ,4-1 1,<7 .5 E.1,<7 '11.7.1 5.6 '47.416 >.6 '71, ; 7 6 =4 ,<7 .4 5 .4 " K 1 / <J: ' / % + 'V " .J'5. / .<7 ; .<7 5 -1.6 67.15 <J ?,41 =4 ; ,<=4. > ; .5.1" 1'47.418 / ?1 / .41 .7 5. > 671 0<7.41 >. '>1.66. 6.> 7 .46. ; , / / .<; '<7 ?'1' ; .75. ? :1'6. N

! * *) . / . / .

Q,41 & - .<>1.> C* Q4 5.7P 5. 1, 8 6>'<7 .< 6,< ; ,<6. 58 " 1. - .74 >. 6" 6 J<'741. 4< ,1>1. =4 ?1,5,<J. > 4< / , 6 5" ?1 / . '55,4. . '4@ / '7.5,76 ?1.<'<7 >4 6.1- ; . 6415.6 - ' 66. '4@ / 6 >.1< .1. / .<7 .< ; , / / 66 ,<% + ! .?.<>'<7 5 E'47 =4 5 6, 5 641- .<4 >.?4 6 =4.5=4. ; : '<J. / .<7 >'<6 5.6 > 6?,6 7 ,<6 >4 ; '0 <.78 ; '1 / 1' 7 " .@?.> > " ,176 / ,47: 4< ; ,411 .1 ?,17.<1 > 4< ,1>1. ?,41 ; .66.1 5" ?1.66.% + 55 " >7. 6 J< / . 5. '7,465.6,EE ; .16 >. 5" E5,57.% + < . ;1 7>. ,176 / ,47: =4 5 >>6.17. 7 E 6 5.6 Q,416 0. '4; ,4? >. J.<6 >. < ;18 .7 ,< '771 04. " <; .17 74>. >. 5.41 6,17 .7 " < ; 7 - 7. .<<4V.46. >'<6 5 =4.55. ,< 5.6 1.5 .<7%

,46 5.6 ?'? . 6 ?405 ;6 ,<7 '<<,<; . 5. / '<'J. >4 >4. > L,1; ' - . ; 4<. ?1 <; .66. >. 466.I ,< '6641' 78 5 V " =4.5=4.6 Q,416 8 >'<6 5.6 ?<<; ?'4@ ; .1;5.6 >. 5" ; '? 7'5.Q =4 5 .7' 7 ?'17 5.C) 4<; , / .1 >4 ; '0 <.78 '- . ; >.6 5.771.6 >4 1, 8 =4 '??1,<- . 5. ; : , @ >4 ?1 <; .7

C

'' ! 'O.77.'>.'5'' ;?41'>4' '?,17.'=4.'>.6'>.?.;:.6'
5.@'<>1 .8'>'7..6'>4' C' / '16'>.1< .18' '<<,<;.<7'
4<.'= ;67''.EE1,V'O5.''4j#' 1.% ' / ' 6';.77..'? 7'5.'>.'
7 JV?5.'< '' ?1,4- ';'E59'4'> 4<.'1''< .1 '?546' 7.1M
1 O5.8' ?4 6=4 .<' 4<.'6.45.'6. / ' ?.'5'';,<7'J ,<' '' .<'
?1.6'>.' < 55.'?.16,<<.6'?'1'Q,41%

% <'6.'1'??.75.'=4.'5''6,; 5 '>.6' ;,4-.17.6' '-' 5'
;:'1J.'5.' / 'Q,1' B,4J:7,<'>.'? <.71.1' >'<6' <7.1 .41'
>.' E1 =4.I' ,<' '' 1.=4'>.6'<, -.55.6'>.' ;.7':'O 5.',E'
; .1I' 5' / '<>.'=4 5' -''6 .<J'J.1'>'<6'5.6' 1.J ,<6' .<M
;,1.' <;,<<4.6'>.';.' ;,<7<.<78' .7' 5' ?1 ` 4 / .'=4 5'
4>1'' O .<'>.4@' ' / >.6'?,41'=4 5'?4 66.'E' 1.?'1-. '
< 1'>.'6.6'<,4-.55.6% 4'1.67.8' 5.' / 'Q,1'64 7' '' ?.4'?1 '
5'' 1,47.'= .' >% L ' 55'<7' '' 71';..'>'<6'5.6'1.5'7 ,<6'>.'
5.6'-,V'J.68' ';41 .4@' .7' 6' <7 1.66'<76%

.6' 5.751.6' >.' :.EE .5>'8' >'7..6' >4' C)'Q4 55.78' ?'1 '
5.<7'> 4<.' 7O.45.''11 -..'>'<6' ;.77.' - 55.8' .7' 6 .@?1 '
/ .<7' ' <6 NW <'?1.66.<7' 7' >.?4 6';<='' 6 @'Q,416'5''
1 -,55.'=4 '- .<7> VE.;5'7.1% '5<.41.46. / .<75 '11 - .;
>4' >.7';:. / .<7' >.' 71,4?.6' = 5 ,<' '-' 5';14'>.-, 1'
/ '<>.1'< '' E' 7'=4 ';; 5.1.1' .@?5,6 ,<% <'6 .7' 7' '4 '
7,1 6>' > 4<' ';7.'>4' ?'15. / .<7' ?'66.'>'<6'5'' >.1< .1.'
6.66 ,<'?,41' .<;5,1.' > 4<.' ?'5 66'>.'4<.'-'67.';, / M
/ 4<.'6 74 '?1.6' >.';.77.' - 55.I' ; .67';.77.' .6?.;.'>.'
6,4671';7 ,<8E' 7.' '4@' :'O 7'<76' > 4<.' ;:,6.' =4 4<.'
5,<J4.'?,66.66 ,<' ,4'>4' / , <6' 4<'5,<J' 46'J.'5.6' '-' 5'
';;,474 / .6' ''1.J'1>.1';, / / .5.41'O .<8 =4 ' '' 6.1-'>.'
;'46.'.7'>.'? 7.@7.'' c'' 6.> 7 ,<% B .1' / '7 <'5''?,?4M
5';.'6 .67' ?,17#.'' 5''?1 6,<8' .7' '' ;, / / .<;.' '' 5'' >#'
<,5 18' '?1 ''-, 1' / 6' .<'5 O.17.'7,?6';.4@' =4 .55.'1.<'
E.1 / ' 7% .'5''.55.'.67' '55..' / .771.'5.'E.<' ''5'' <'6,<'>.'
% 5 <6,<'&?1.71.'.7Q4J.'>.'?' @P8' ' <6'=4 '' ?54 '
7.416' / .45.6'>.E, <'=4 '54' '??'E7.<' .<7% <'' 6(!'
1.46. / .<7' ?#466' '' '11 7.1' 5.6' ?1,J1.6' >W6' E5' / / .6'
'- / 7' =4.' <;.<> .' ' 7';'469'O.'4;,4?'>.'>, / / 'J.6%
.'?.4?5.' 11 7#' '' '466' O1 6#'5.6' E.< 71.6' >.' O,7.5' >4'
>4.'>.' ,1E, ' .7' ;;B.6' >.' 5'' ;:'?.55.';'7:#5 =4.I' 5'
'55' 7' 5'' 1'6 18' 5,16=4 4<'>.7';:. / .<7' >.';'-'5 .16' ?' '
147% .6 / 47 <6' <.'6.'1.7 1.1.<7' =4 '?1.6' '-, 1' .664Q9'
?546 .416'> ;:'1J.6' N ,<' 6.' E5'77.' <#'< / , <6' =4.'?.1 '
6,<<.': '' ?91 %

Y 4Q,41; :4'?546'>.';.<7';7,V.<6',<7' ?1E 7.'6.1 / .<7'
.<71.'5.6' / ' <6'>.6'Q4J.6' ?,41' 1. / ?5 1'5.6' E,<;7 ,<6'>.'
;,<67'O5.6I' .7.<';.' / , / .<7' 56' ?'1;,4 .<7' 7,47.6' 5.6'
14.6'>.'5''- 55.8' .66'V',7'>.'> 66 ?.1' ?'1' 5'' ?.164'6 ,<'
5.6' ' 1,<?. 77.<76' =4 ' 6406 67.<7' .<;,1.% '' E,45.'>.6'
6.> 7 .4@'6.'J ,66 78' <'V '' 1.;,<<4' 4<' J1'<>'<, / O1.'
>.';.4@' =4 ' <7' E' 7' 5.'?546'>.' / '5' '' K 1 / <J:' / '8' .7'
5 ,<';1' <7' O .<' =4.' 5'' <4 7' <.'6, 5'5.'6 J<'5' >.'<,4 '
-.'4@'O1 J'<>'J.6% <'6.;,<>'>.7';:. / .<7'>.'71,4?.6'
.67' ;<51.'>'<6' 5'' - 55.';.' / '7 <% <' - .<7'> '-, 1'5.'
O,<:.41'> '11:.1' ?546 .416';:.E6'>.' . / .47.' ' .7' ,<'
<.'<#J5 J.''4;4<.'?1.;'47 ,<'?,41'E' 1.' / '<= .1'5.416'
;, / ?5, 6' .7' '1 7.1'5.6'>.6?1>1.6' '4@=4.56'6.'5 -1.'4<.'
?,?45';.'#;:'45E..% <' '' 1.J4'>.6'<,4-.55.6' ?546';,<'
6,5'<7.6' >4' % ' <.'6 .67';, / / 6' '4;4<'>.6,1>1.'>.M
?4 6': .1I',<'5.'>, 7' '5 ';7 V 7.'>.6' ,EK; .16' >.'?,5;.'
.7'>.6' 71,4?.6' 1.?'17 . '>'<6' .6' > EE.1.<76' =4 '17 .16' I'
;.?#<>'<7' 5' 1.67.' .<;,1.' O.'4;,4?'>.'E.1 / .<7'7 ,<%
.'?.4?5.';,<7 <4.'>.'.- .1N
<'6 ,??,6.' '-.;'6, < 5'' E,1 / '7 ,<'>.6J1,4?.68' >.'
?.41'=4 5N< .<'1.6457.'>.'<,4-.'4@' / '5:.416% 1,O' '
O5. / .<7 1'11.67'7 ,<'> 44' J1'<>' <, / O1.'>.' / 47 <6'
<7 / >.1'' 5.6' '471.68' .7' ,<'.6?.1.'-, 1'O .<7,5'1.7' '
O5 ' 5'' 71'<=4 55 7V%Y ' $

L K %

8 ' ' '/' Z'' +' .6' . / J1'<76' E1'< 6'
,<78' - .<<.<78' '11 -.<7%.71.?'17.<7' 6'<6';.66;%556';,<G
;, -.<7' >.' .6?.1'<;.8' 56' 5'' ?.1>.<7 ' 7,47 ' ;,4?%
K .<' Q46=4 '' ?1.6.<7' <'<<,<;.' 4<' ?1,Q.7' -1' / .<7'
/ 1' .7' >.7.1 / <.%%%% 5' .67' ?'66V' =4;5=4.6' ;:'1 ,76'
1. / ?5 6' >.'O,45.768' =4 ' > <-.16' ,4'>.' '5<.6' ,<7'
?1 6'5''1,47.'Q5.' ' / 41'.7'>.' 4@. / O,41JI' / '76';.'<.

6,<7' ?.47 >71.' =4.'>.6' 1. / ?5';. / .<76'>'<6';.6'>.4@'
;7'>.55.68' >, ' ,<' '-' 5' 71'<6?,17V' >.6' / 4<7 ,<6'
5,16'>.'5'' 1.< .'>.6' 471 .O .<6% '<.'6.'E' 7' '4;4<'
/ 'J'6 <' .@71',1> <' 1.% ' ,<' ''.<-,V.'>.6' >V7';:. '
/ .<76' 641'5.6' E1,<7 .1.68' . .67' ?,41' V' ?1.6.1-.1'>.' 'J
7' 7 ,<'=4 ' 1.J<.'.<' H1'<;.%%%%% .6' .6?1 76' 6,<7' .<;,1.
71.6' .;:'4E .6' >'<6' <,6' ?1,- <;.6I' 4<' 5.-' <' 6.;1.7'
E.1 / .<7.'>'<6' 5.6' 7.7.6' E'<'7 =4.6% .' J,4-.1<. / .<7'
;;.1;;.'' / ' <7.< 1'5.';'5 / ..<' / ,<71'<7'>.'5'' E.1 / .7.%
'- .<7'>.'6.'?'66.1' '' ! '4>8' 5,16'>.'5'' 64??1.66 ,<'>.'
5'' ,4' * 4<.'6;.<.' ;14.55.' .<71.'5.'
'?.4?5.'.7'>.6'>1'J,<6'>4' .J / .<7'>.'5'' ,41% #.6'>.1'
< .16' .7' .<7' <64 7.6' ?4O5 =4. / .<7% <' '' ?1 6' ,;;''
6 ,<'> 4<.'?1,;.66 ,<'?,41''77'=4.1' '' ;,4?6'>.'? .11.6'
4<'? =4.7'>.' ;.6' >1'J,<68' 556' , 7' > 66 ?.'5'' E,45.' .<'
6'O1'<7' O.'4;,4?'>.'?.16,<<.6% <' ''71,4-.'>.6';'?4'
; <6' .7' > '471.6' / , <.6' ?'1 / ' 5.6' / ,176' .7' 5.6' O5.66.6%
#.6' / ,4- . / .<76' <=4 7.<7'>.'?546' .<'?546' 5.' / < 6 '
7.1.''471 ;: .<% 1.6=4.'7,46' 5.6' ?'?.16' E1'< ' 6' 6,<7'
64??1 / .6' ; I' 56' <.'?'66.<7' ?546' ''5'' E1,<7 .1.% .47 '
71.'4<.'7.55.'1 J4.41' ' 7 .55.'>.6' < [\<-V< .<76%8%% .6'
471 ;: .<6' =4 ' 6,<7' ' >J.'>, -.<7 1. / .771.' <;.6 '
6' / / .<7' ;.77.' - 55.' '4@' 71,4?.6' ?1466 .<<.6% .6' 4<6'
> 6.<7' =4.';;7 '11'<J. / .<7' .67' ;,<-.<4' .<71.'5.6' >.4@'
;,416' 'E <'>.';,<7.< 1' ?546' E';5. / .<7'5.6' VJ., 68' =4 '
,<7';,<6.1-V' >4' J, 7' ?,41'5'' 1466.I' > '471.6' ?1.7.<'
>.<7' =4.'5.'?1,Q.7'.67' >.1'??1,;:.1'' <6'>.6' ,<7 .1.6'
>.'5'' H1'<;.'5.6' E,1;.6' ?1466 .<<.6' .55.6 / . / .6%

H # %

' '

'' / 4< ; ?'5 7.''V'<7' '11>7.' ! ' '< !< '
' ' ' 8' .7'>.'1. / ?5';.1'5.'> - ?.'4' 1,4J.'
?'1'4<'>1'?.'4'O5'<;8' 1 ' ' ' #
' ' ' ;,<E,1 / . <.<7' '' 1'15 ; .' '' 55>.5''
4 > / .5, 8'';14'>.-, 1'.<'?1.-.< 1'5.6'; 7,V.<6' ?'1' '- 6'
64 - '<7N '
' ' ' 3 ' '8

W# 7,V.<6' $ 5'' <V4< ; ?'5 5.'1.7 1.' .<6. J<.'> 4<.'
5, ' 7.11 O5.' =4 .55.' '-' 7' ?4O5 . ' '-.;' >,45.41% 55.'
'1O,1.EE-.;'Q, .'5.@ 1'?.'4'O5'<;'.7 .6 J<.>.5''?' @%
#.'< .67' ?'6=4.5471'<=4 55 7.6, 7?5. <; 4;<7'6641..%
.6' .<<. / 6' >4' O .<' ?4O5 ;' .@ 67.<7' .<;,1.''47,41'>.'
<,46I 56' 1' -' 55.,76,41>.1';<78' .7' <,46'>;5' 1,<66'<6'
;.66.'5.416' / '4;.4-1.6I' <' 64<.'5, '6>-.1.'5.41' '' / '
?1 / V' 5'' 7.11.41N 5' < V' '' ?546'>.' 6>> 7 ,<68' ?'1;;'
=4 5' 4 V' '' ?546'> '551,4?. / .<76I .6?1 7' ?4O5 ;8' 5.'
;'1';7 14'>.';7,V.<'6 .67 / ,<51;8' .7' 5.';'5 / ,'.67' ?,41'
;.'% / , / .<7' 1.7'O5 % ,46' '??1';:,<6'>4' 7.1 / ;' >.6'
<'4@' .7'>.6'>'4 O.16>4' 7.1 / .' ,4' 5' E'47' =4.'7,47'
6 ,4O .8=4.'5.6 < / 7 .6';.66.<78' =4.' ;6' .6?1 76' 6 ' '
?' 6.<7'.7' 6.1.4< 66.<7N ;.'7.1 / .'6.1'' 14;:V-. <. 7'>;'
5'' #,<67 747 ,<% 66. / O5..'<'7 ,<'5.'-''5 @.1 11.-, '
;'O5; / .<7' 5''>.67<..'>.' . / ? 1.E7 ' E' 6I' ; .67' 5.6,17'
>.6'?. .6' .7'>.6' 556 8' .7'>.'5''J><.1'5 ,<'?1>6.1 7.'.7'>.6'
J.<.1'7 ,<6'E4741.6I' ;,<;,41,<6'>' ;.7%,4-1'J.'?'1'5''
;,< '<;.' .7'?'1'5.' ;'5 / .% B' '' >7>' ;,1' <;<;.'>'<6' ;6'
,1'J.6I' 7 ' 6' ; .67' ,4-1'J.'>.'5'' 6'J.66.8' 5' E'47' =4 5'
6 ';:.-.' '>'<Z' 5'' ?' @% ,46'>.-,<6' .<7, 1.1' > 4<'
6 5.<;.'1.6?.;74.4@I'<,46'>.-,<6' / ,<71.1'5.'1.;4. 55.'
7<.<7' > 4<.' <'7 ,<'?4 66'<7.'=4 ' -'' ?1, <45J4.1' 5.6'
5, 6' .7.1<.55.6'>.'6,<' O,<:.41' .7'>.'6'' ?1,6?.1 7V% ''
H1'<;.''77.<>';.7 .@. / ?5.'>4'?.4?5.'>.' '1 6' 8%6';,4 '
1'J.4@'>'<6'5.'?V1 58 6' ?14>.<7' .7' 6 '1.7.<4'>'<6'>.6'
V-.<. / .<76' ?546' ;1 7 =4.6' .7' >.6' ; 1;,<65'<;.6' ?546'
> EE ; 5.6% # 7,V.<68' -,71.'>.-, 1'.67'>.'E.1 / .1E,1. 55.'
'4@'64JJ.67 ,<6'?.15 >.6N=4.'5.6' / ,7 ,<6 <;.<> ' 1;6'
<.'E'66.<7' ?546' 1.7.<7 1'5.6'?5';.6' .7' <.'71,4O5.<7' ?546'
-?6' .<71.7 .<6?'; E =4.6S' 34'<>'<,46' '-,<6'O.6, <'>.'
5'' ?' @8' &^4 ;,<=4.'-.<7'-,46' 'J 7.1' .67' -, 1.'.<<. / %
#, 55 '<;;'.<' -,6' 1.?1.6.<7'<76' .7' .<' -,6' / 'J 671'56%

(

4< ,<. / 1.' ' ; , 41'J.' ; .<71.' ,6;<<. / 6I -, 7''
I' =4S '6641.1SS - ,71.E. ,<: .41% ,71.'>.1, 1E '<,46 .67
>.' / / <7.< 1' 5.' ;'5/ .' ; , / / .<; .I 6,V.0 >,<.'71'<'
=4 55.6I<.' ;1'7J<.0 ?'6=4.'>.6 01 J'<>6 ?1.-'5.<7
, ,<71.' 5'' #,<67 747 ,< .7 ; ,<71.' -,46% '' 5, '>.' 5''
J4.11.'.67 7,4Q,416 - -'<7.'?,41.<@I .55Z 1.?'1'E71''6'
-,71.'6>1.7.' .@ J.8 .7 -,6 / 'J 671'76 6'<1,<7 / ,41 1'
?,41.55.% $

< #,<6.=4.<; .' 5.' >1'?.'< 1,4J.' '' .7>97>5.'> '
/ '<; : .'(' , 578 .7 1. / ?5'; .' ?'1' 5.' >1'?.'< 05'<;'8
=< 1.67;1'Q46=4 '4> / '<; : .' U '5';1, 6. .>.5 :E75.5'
>. - 55.%

' /* & . ' ' 'W ' (* 8

,<6 .418%

,46 -.<,<6>.'>.; ,4-1 18 J1'; .' '' <> 6#1.7 ,<>.'
+ '% L ' '8 '>4 'Q4 55.7 >.1< .18 =4.'6.?7
>.'<,6 ; , / ?'71 ,7.68 <> J<.6 >.' >51.'8 - #<<.<7 >.'
.'?1,?,6.1'?,41'1.7'05 1' .'71><.'>'<6 6,< '<; .<<.'
6?5.<>.418 1.J'1>'<7 ; .7 ';7.'; , <.'4< >.'5.4 6 >.M
-, 16 5.6 ?546 6'; >6% ,71.' / 4< ; ?'5 7>8 641' ; .7 '- 68
- .<7 > .<E' 1.''11 7.1' ; <=I .78 '?1.6 '-, 1'1._I4 5.416
>.;5'1'7 ,<68 5.6 ''E' 5. ,<>4 1.' .< 5'' / ' 6,< > '11E 7 .7
>><,<; .1'' ' ; ;46'7.41'?405 ;%

#, / / .5.6 E56 >.' ; .'?1,Q.7 ?.4-.<7. / 01'66.1'7,47
. / ? 1.8 5'' 6, ; >7.8 ; ,<6 >.1'<7=4.'?,41'5.' 0 .<>.'
5''?'71 .8 5 .67 <7.1.66'<7 >.'>,<<.15''?546 J1'<>.'
?405 ; 7.' '' ; .7 >-><. / .<78 '' '11 7.'>.%-,46 ?1 .1'> <'
6. 1.1' 5''?1. 6.<7.'>'<6 -,71.'Q,41<'5%

' ' ' ' ' 'G A' ' '
,

% ' ' /% ' &' 3

'68 ' 3 ' ' ' ' '! '
' 'F F ' ' '
' A'

@& ' '(' (* %

.66 .4168

''71, 6E 56 I 5.'?1. / .1'Q >E.6 5.'?1 <; ?.'>.'5''1>'
-,5<7 ,<86 .67 -,4.' ''6'?'71 .8 .75 '6.1- .' ; , / <.'6,5'
>'7 <'7 ,<'5 '-.;' 4< L2 ' ; ,<<4 >.'6.6 ; : .E6I 5.'
6. ; ,<>8 71,?Q. <.''5,16 8 .<' 7 2 ?. <.'> '77.Q<>1.'
75J.' ,4 5.6 , 6 54'?.1 / .77' .<7> ,EE1 16,< 01'6 ''5''
?'71 .% ,16=4.'5.'1, '6 .<E4 78 7,46 5.6 >.4@ -,5>1.<7
'4 > 671 ;7 6 ,EE1 1' ; , / .'-,5,<7' 1.6I .7>.?4 68 A'
E,1 / > / .<7 '4 >>;1.7>4 C 'Q, <8 56 6.'6, :7 E' 7 .<1.'
J 671.1' '' 5'' / 4< ; ?'5 7>%' '5: .41.<6. / .<7 5''E' '
05.66.'>.6,< J.'<.'?.1 / .7 ?'6 '4 71, 6 . / .'>.'?,17.1'
5.6 '1 / .6I .7Q46=4 '' ; .'=Q 5 5.'?4 66.'Q .< >, 6 ; , / ?7.'
''5''?'71 .N .< ; ,<6. =4.<; .'Q.' < .<J'J.' '>,405.1' / ''
; ,<71 047 ,< ?'71 ,7 =4.'& '5 -%P8 ?,41' ; .77.''<<>.8
6 5V ''J4.11.8 .7 ' . ,<7 <4.1''5''?'V.1''47'<7 >.'5. / ?6
=4.'5'' J4.11.'>41.1'% '5J1.' .@71> / .' / .> , ;1 7>'>.'
<''E,174<.8 Q.' / .67 / .' : . 1.46.'>.'?, , - , 18 ?'1'4<.'
. ; ,<, / ;'6. - .1.'8 ,EE1 1' ; .'5. J;1'6. . ,416 ' / ,< ?'V6%

''1: ,<<.41'> E 1.8 .66 .4168 -,71.'71E.6 :4 / 05.'
.7 71.6 ,0> 66'<7.'6.1-'<7.8

8 .'> 1. ;7, 1.' '' '11>7>'=4G 5 ' ; ; .?7' 7 ,EE1.'>.' / ''
>' / .' .11'1>8 .7 =4 5 6.1' 7 E' 7 / .<7 ,<>.'6,<'';7.'
; - =4.'>'<6 5.'?1, .>6 - .1:'

%

@ ' ' ' ' ' A% - '
' ' ' ! ' 8 ' '
F ' \ A \ 3

#.'1'??,17 .67 E' 7 '-.;'5'' / >7: ,>.'> 4< '> / < 6'
71'7. 41. 75 J, >7 > 4< '17 67.I 5 .67 >;1 7 '-.;''47'<7

>.' ;E'17.'=4 .>'.%>J'<; .% '47.<18 '?1.6 '-, 1'>.7' 55>'
5.'?5'< .7 7,47.6 5.6 1 ; : .66.6 >4 / ,<4 / .<7 >.'5'' A'
' A% ' 6 .@?1 / .' .< ; 7,V.< .7 .<
?: 5,63?0.' 41'5'' >.67 <'7 ,< <,4-.55.'>.' ; .7 >> B; .%
% 3 4'71.< .1.<.6 '11>7.'?, <7 '' ; , / 0'771.'<'5.6?1>'
Q4J. '<'5.6 64?.167 7 ,<6 >.=4.5=<.6 : , / / .6 =4 ' 1,4 '
-.<7 71,? ?.< > .J5 6.6 '' '1 68 >.?4 6 =4.' 66. / 05; .'
<'7 ,<'5.'V '' ; ,<6';1.'4< / ,<4 / .<7 '' 5'' 1. ; ,<<' 6M
6'<; .'>.'5''?'71 .% < .6?E.1.QQ4.5'' 5. ;741.'>. ; .'1'?M
?,17 : 7.1''5.6 >.1< .1.6 / .641.6 =4.'5.6 5.J 65'7.416
,<7 '' ?1.<>1.'1.5'7 - .1'.<7 5'5''>.67 <'7 ,< >.'P'' '
' A% ' .7 E.1''71 , / ?: .1' .6?1 7?4M
05 ;'>.' / ? >7.'>.6 0 J,76 .<-.16 5'' / > / , 1.'>.6
J1'<>6 0, / / .68

! # %

8 '6 ' ' & ' ' A'
& ' ' ' ' & %

.6 ; 7,V.<6 'J1 ; ,5.6 <;'5 6.<7 ?, <78 <,< ?'6 ?'1'
<6,4; '<; .8 / ' 6 '' ; '46.'>4 ?1 @ >.6 5 -1.68 45 < '
/ .<7'4 >.6646 >.5.41'?,17>.%556>.-,1.<7 '-.;''- > 7>'
; .4@ =4 ' 5.41'?'1- .<<.<7 J1'74 7. / .<78 .5 5. / > / .'
->54 <.'E' 7 64; ; .66 -. / .<7 5.'7,41>.5'; , / / 4<'47.%
.6 ' / 6 >.' :4 / '< 7> ,<7 ?.<6>=4 .< / .77'<7 >.'
0,<6,4-1'J.6> 'J1 ;45741.''5''?,17 >.6;457 -'7.416
?.<' 6.68 >'<6 4< / , / .<7 ,< 5.6 E.4 55.6 ?. ,> =4.6
5.6 ,<7'77'; : >6 >'-'<7'J. ''5''5. ;741.8 ,< ?,411' 7?'1'
-.< 1' '' >.714 1.'5.416 ?1.Q4J.68 5.6 <6714 1.' .7 ., <71 '
04.1''5.41' 0,< : .41% 6 ,<7 ,< ; ,<6. =4.<; .'E,1 / >'
745.''66, ; '7 ,< >.?.16,<<.6 = / 8 / .57'<7; : ' ;4<.' '
5 -1.6 >.E.<>68 E.1,<7 / ?1 / .1'5.60,<6 ,4-1'J.6 /M A'
/ .<7' 1.6 > 'J1 ;45741.8 > 4<.' / '< .1.'' 6.0>. ,<, / '
=4.?,417.6 -.<>1.''5'' / , 7 >>.'5.41'-'5.41',1> <' 1.%
< 5.6 '66, ; .6 '' ,E7.17 >.'5.6 / ?1 / .1'?,41'5.66.456
>>0,416>6% #.6 / > / .6 ; '? 7'4@8 1.<71'<7 ?'1'5''-.<7.'
64; ; .66 -.'>.6 5 -1.6 / ?1 / .68 6.1- 1,<7 7,4Q,416 '4'
' > / .'46'J.I' <6 8 .<<.'6'; 1 5 '<7=4. <7>1>7'E5< .5'
>.' ; .77.'6, / .8 ,<''41''5''6'7 6E';7 ,< >'-, 1' ; ,<71 '
04>' ' '0,< : .41' J>4.1'5%

.6 ?.16,<<.6 =4 '-,4>10<7 6.'1> / 5 1''; .77.''66, ; 'M
7 ,< >.Q''E,11'. .'6,<7 ?1 >.6>.6.E' 1. <6;1 1.'' '1 688
; : .0 , 'K 6'' ' '>.5'6, ; ;7>> J1 ;45M
741.8 14.'>.6 K5'<;6 '<7.'4@8 <YC I,4'' / ?1 / .1 ;'
>4 #.1;5.'6, ; '58 14.'>4 : .'71. H1'77J' 68 <D U8 ; : .0
' : 3 ' / . / 01.'>.' ; .77.' / > / .'6, ; .7>% < V
>,<<.1''7,46 5.6 1.<6. J<. / .<76 =4 '].1,47 4J>6 <>'
; .66' 1.6%

471.'5.6 ' ;7 ,<<' 1.6 =4 ''41,<7 , @ >'<6 5.6 '6'
6#1'05. .6 '> / < 671'5 - .6 >.' 1>7'05 66. / .<78 7,465.6
; 7,V.<6 =4 '>>6 1.1,47 ; ,< ; ,<1 1' '' ; .6 -<.6>. 0 ;<E' '
6'<; .' 6.1,<7 '> < 6 '' V ; ,<71 04.1% < 1. ; . -1''-.;'
1. ; ,<<' 66'<; .' 5.6 6, / / .6 =4 56 -,4>1,< 'V ; ,<6''
;1.18 =4.5=4.' / ,> =4.6 =4 .5 .6 6, .<78 .7 5.'<, / '>.6
>,<'7.416 6.1'' <6;1 7 641'5''5 67.'>.6 0 .<E' 7.4E6%

''6, ; >7>'> J1 ;45741.8 0 .< ; ,<-' <;4.'>.'7,<6
5.6 '-'<7'J. '=4 ' ?.4-.<7 1>6457.1' > 4<.'?'1. 55.''6'
6, ; 7 ,< 8 '' ?1>5.->'641' 5.6 E,<>6 5'' , / / .'>.'9 '
5 -1.68 ?,41' ; ,<71 04.1' '' 4< ?1,Q.7 6'5,4'05.% #.77.'
; , / ?'J4 .'6.'?1,?,6.' .< / > / .'7. / ?6 > <> =4.1'5.6
,4-1'J.6 =4 .55.' ;1, 75.6 ?546?1,?1.6''1. / ?5 1'5.'047
=4 ,< 6 .67?1,?,6>%

%

''6, ; >7>.5.6 / 6>.'5''#,<67 747 ,<8>.' , ; : .68?1>'
- .<7=4 .55.'<.'1. ; .-1''?546 <'5.771.6 <'?'=4.768 6 56'
.'6,<7 'EE1'<; : 68 .@; .?7>'>.6 6, ; .7>6 >.' '1 6%

< - .<7 >.' / .771.' .< - .<7.8 :E77.5 >.' : ,4'8 14.'
>.6 , 7.- <68 <D 7)8 5.=4'71 . / .'-,54 / .'> . 5 >> 7 ,<
< UD '-.;'E J%8 .7 5.6 7, / .6 6.?7 .7 :4 7 >.'1>> 7 ,<
$ <)D >4'-,V'J.'.< 40 . .7.< 0V66 .8 ?'1'5.'; : . -'M
5 .1' ';4<;6 K14; .8

" b

' " '

8' ' ' 'F ' , V'

' ' 5' ' K%

%' K ; :<1>'?1 <5;' <<.' '>1.66.' 6 J<>.' ?'1' 8 ' - 7 V.<6'>.' ,45,<6.'8'=4 ' '>5 E.1.<7' '4@'?1 <; ?.6'=4 ' ,<7'>P;79'7,46'5.6'>' ;1.76'>.' 6. / O5..'<'7 ,<'5.%

+' %' . 55'1>'E' 7'5.;741.'> 4<;'>1.66.?'15'=4.55.' .'> 1.;5, 1.'>.'5'' '<;:.8'.<'7. / , J<'<7'6;6' <=4 .M 74>.6' 641'5'' 4 H' >4'?,17'>.'#:.10,41J8'>. / '<>.' '47,1 6'7 ,<'>.' 66. / O5..'<'7 ,<'5.'?,41'5''E,1/ ' ' 7 ,='>.'>.4@';, / ?'J< .6'-,5,<7' 1.6> '17 55.1 .%

' ,.77.' '>1.66..67Q, <7'4<1'??,17'>.>.4@;, / / 6 ' 6' 1.6'>4'>.?'17. / ;478'=4 '5 < 7' .<';.6'7.1< N

8 ' ,! ' !')# % !#'+#' !' ' K' ' : ' !' !'& < !'& ! !' # !' #' #' !* & ' !': !' #' '! ! # !' : # !# # 4+#!' ' !' &!' !#'& +# !' '):! ! ' !'$) ' !' !# ')* #!' #'!') ' !' !'! !& ' !' ' !% # '+#' ! ! ' !' !' &!')! !' !#' !'

+' %' '1 55. '4@ K,56'E' 7'5.;741.'> 4<.''>1.66.'>4' >>?'17. / .<7' >.' <I' -, ; ' 5'' 64067'<;.' >.' ;.77.' ? 7.;N

$'5 .?4 6'1'11.67'7 ,<'>4'1, 8'5.6' <71 J4.6'1.;, / ' / .<;.<7I' 5.6' ;,11.6?,<>'<;.6' ;,<5 <4.<5' .<71.' 5.6' '1 67,;1'7.68'5.6'?1>71.68'5.6'1,O <68'5.6'E'<'5 =<.6'>.' 7,47.6'5.6';,45.416%#:';4<'??1.<>' 'Q,4.1'5.''>5.'=4' ;,<-, 7' '6,<':'O 78'.7';.6' <71 J4.6'6.'E,<7'6417,47' 1. / '1=,.1?1 '>.6E1,<7'7,.6%' .6'. / 66' 1.6'-.<<. 7' 6 'O,<;:.1''-.;<,6'?1>51.68'<,6;:'<, <.68' .7'471.6' / '5' <7.<7 ,<<. 6%#.4@ ;' ; :.1;:.<7' '1.?<<>1.'5.41' ;,114?7 ,<'>'<6' ;6;'<'?'J<.68'.7;:.1;:.<7';,<>4 1.' 5.6' ;7,V.<6' '' 5'' J4.11.' ; - 5.8'.<'5.6' .J'1'<7'?'1'5.' E'<'7 6 / .%' .6';41>6';,<67 747 ,<<.56' 1,4-.<7'>.6''?' ?4 6'>'<6'1'47,1 7>'>.6' ;,1?6' '> / < 671'7 E6I / ' 6'5.6' '471.6'71,<-.<7' / ><7.6'6.;,416'>'<6'5.6'71 O4<'4@% .'6.4'1',V.<'>.'1. <>> .1' '' ;.' / '5' .67' > '??5 =4.1'' <,71.' >>?'17. / .<75.6' / ,< .6' <.641.6'=4.';.55.6'=4' ,<7'>7;' '>,?7..6?,41'c;'>. ?'17. / .<7'>4'K'6 : <%' < ?,411' 7' ;.?.<>'<7'E' 1.'4<.' .@;.?7 ,< .<'E'-. 1'>.6' .;;5>6 '67=4.6= <.'71,4O5.<7'?'6' ,1>1.'?4O5 ;8'.<' ; :' '<7'5.6' / << ; ?'5 7>6'>.'5.41'>, / ; 5.'>.'1. ?,<' >1.'>.'5.41';,<>4 7.%' '.67'7. / ?6>.>>714 1.';.6'E,V.16' ?.67 5.:7 .568'> 66. / <>6>'<6'7,46'5.6';'<7,<6'?,41'V' '554 / .1' .'E.4'>.'5''J4.11.'; - 5.8'.7;%Y

' !& !' !' ! % !')! !' !<<!' #') & ')!P')! +#!

%'8#' ' 'N ;';, / 7>' .;;5>6 '67 = .' / .';:'1J.' >.'>.;5'1.1'=4 5' <.'6.' / >5.1''?546'>.';.6'6,17.6'>'; ' E' 1.6%

'D #) 22 ;O U' !' ! ('#') !% ')# !' !) ' !' #:!' ' !' =#! A' ' ' !') & ' ' !' :# ' ' !' !-)*#F!' ' ! (! # ! # # ') +' ' !' ' !) >! ') $A' ! # ')!' !& ' ' !'C # ' !' ' ' ' ' #' $!'L!') '+#!' (' # !# !' ! ' #' & ' !# ' !' ' !' ! % ' : !&-! ' !' ! F ! ' !'))*! '(' '$ = ! ' !)# !# ' #:) ' !' $!' !#' !% (' '$! : ! ')! ! ' ! ' =#! ' !')! '$) !# ' A

66. / O5.'1.<-,Q.' '>1.66.' >4' >.?'17. / .<7'>.' < '4@';, / 7.6'>.Q'' ;:'1J.6'>.'?1>6.:7.1'4<'?1,Q.7' >.'5, ' ?,41'5''1.?1.66 ,<'>O6'>.O76';;; .6 '67=4.6%8

+' <'>. %'5.6'6.;1.7' 1.6'E' 7'5.;741.'>.'?546 .416' '471.6'>1.66.6'> '>:.6 ,<%

' ';' !' /'C# !' ! ! ('! ' ! ') & !')'+#! , % '!) ! '' O # >'WW

; .17' <',1>1.'=4' '-' 5'>7.'>,<<.'4;'?'V.1'5.6'71,4?.6' .<' ?.7 76' '66 J<'768' Q ' ' '<<,<;.'= .' ;.6' >.6,1>1.6' % '-' .<7' .7..@; .68'?'1'5.6' .<<. / 6>4O .<?4O5 ;8'>'<6' 4<>.6'1.J / .<76'641'5.6=4.56'5.?'71 ,7 6 / .;, <?7' 75.' ?5468'>'<6 4<'>.6'1.J / .<76'5.6' / .4@'>6; ?5<.6'>.' '1 / ..8';.54'>.' . / ';:8' 64 66.%' .6'E' 56';,<7. / 6' >'<6'5.6'5.771.6'>,<7Q.'-,46'&6' '7,16'5''5.;741.'?'1' 6' 6.<7' .@71 / . / .<7' .@'J.1.6%

+' %' .15 <'E' 7'5.;741.' > 4<.'5.771.'>4';,1?6'>.6' ,EE ; .16>4'1.J / .<7'>.' . <';:8'=4 '>.>'1.<7'=4 44.' 1 @.8'6411.<4.'>'<6' 4<.'>'<6.' .<71.'=4.5=4.6'6,5>'76' -1.68''6.45.>,<<.'5 .4' '4@'O14 76' <Q41 .4@'1.?'<>46' ;.<71.'5'' ;,<>4 7.'>.';.'1.J / .<7I'=4.'5, <'>.'1.E46.1' >.6'?.7 76' '66 J<'76'5.6' 6,5>'76' .<' '-' .<7'>.Q''?1 .%' >. / / .47'1.?4'4<' J1'<>'<, / O1.%

1')! !' ! !' ! 'C '#' !) ' !' '&#) @ >

66. / O5.',1>,<<.' <6.17 ,<' >.';.6'? .;.6'>'<6' 6,<'?1,;.6 -.1O'5%

%' & 'N' .61.J / .<E664 66.6'6.<7' .<';.' / , / .<7' 71'-' 55>6'> 4<.'V71'<J. / '< .1.%6, 7?'1>.6V< 66' 1.6' >71'<J.1686, 7'?'1 %' 'EE1V8'5.41''<; . ';, / / '<>'<7% 'V' '' 4<' '<'=4.' 5.' ;, / 5>'> ?5, / 7 =4.' <,46' '-' 5' '<<,<;.'4<' 1'??,17'641'5.' 1.<,4-.55. / .<7'>.6';'?M 745'7 ,<6%' #, / / .'Q.' 64 6' ;,<-' <;4' =4.' . .67'5''=4.' 1.?,6.'5.'?1 <; ?.'>.';.6'>.6,1>1.68'Q.'>. / '<>.'=4.';.' 1'??,17'6, 7'E' 7 <;.66' / / .<5I6'<6' ;.5''-,46'<.'?,<' -.O'?'6'; , / ?7.1'4<' / , / .<7'641'5''E >>5 7V'>.6 4 66.6%

%' / & 'N' .'<.' ;1, 6'?'6'=4.;.'6, 75;' / , / .<7' >.'6 ,;;4?.1'>.';.6';'? 745'7 ,<6%'#.'6.1'' '4'?,4-, 1' .%@.;47E8'5,16=4 5'6.1''.<'?5; <.' ';7 - 5.8' '' [1.'5.6' .J,; '7 ,<68';'1';, / / .<7'E.1 .O -,46'.<';.' / , / .<7' E' 1.'5.6'<>J,; '7 ,<6'Z ,46'< '-,<6'?'6'> ' / O'66' ' >.4168'6';.'< .65' %' >1';8'?'71 ,7.=4 '< .67'?'6;5 '4>8' .7'4<'6.;1.7' 1.'>.'5.J'7 ,<8'4=4.5'5.6' 7'76'<.'>,<<.' 1' .<7'?'6' 6'<6'>,47.' <';,<5 '<;.'<. ;.66' 1.'?,41'5.' 6<..16'>.';.77.'<.J,; '7 ,<%' '<6';.'1' , / .<7 ; ' 5'V' '' .<;,1.'4<.''471.'> E5 ;< V%' .';,<6. 5' >.'K.1<.''.<' -,V>>.6'71,4?.6'>'<65.'?'V6>.' '4>I' ,<> 7=4.'. .67' ?,41'?4< 1'5.6':'O 7'<76'> '-, 1';>5.O1>' '<< -.16' 1.' >.'5''1.-,547 ,<'E1'<J' 6.%' ,47.6';.6'; 1;,<67'<;;6'<.' 6,<7'?'6'E'-,1'O5.6''4@'< J,; '7 ,<6'>,<7' 5'6 'J 7%' ;' ?.<6.'&Q,<;'=4.'5'' / ,7 ,<'>.' %' .15 <'>, 7'>71.''Q,41:V.%

66.1'O5..',1>,<<.' 'Q,<1<. / .<7%

' " # 13O -4,! # & # !&! ' ' +#!'C!' !' 1 !&: !' !' !'$!' ! !') & !' !' ! #D' !') && !'! % > ' ' , & ' ' !' ! !# !'GR! =!' +#, '$!' !#' #% ' ! ' : ! ' F$ & !F' ' , :C! ! !# '& ' ' '$ ' !' !% !') : ! ' !'= ! ' (')!'+#' # ' !# !' ' ' !%!!' !') '% ! ' !) ' ' ' !$! !' ! '$! ! (')!' +#C('$ =#!' ##)&! ' !') >! '(')) !' !' !O !') :) (')' %!' ' !&! ' ,# !'$)!' #: +#!+ A' !#' ! ' !! !'L!' !& ' !'+ ')') & !' @ & +#!' ')* =' !'$!')! &! '#' @ ' ')! ' =

' 5 ' '<'<, / ' > ';, / 7>'>.6' 1'??,176N' < -,46' '' >><,<.>' '> / < 671'7 ,<'>4' >>?'17; / .<7'>.' . <; .7 '1<;8 .7'5'' ;,<>4 7.'> 5<'>. .O.<7.<7' ' ;:'66.416'>.'B' <'478' .<'J'1< 6,<''K1 . #, / 7. , ' O .17%' .6' ;7,V.<6'>.';.77.'- 55.'-,46' ,<7' '>1.66.'>.6' 1>;5' / '7 ,<6'641'5'' ;,<>4 7.'=4 ,<77.<4.'5.'> 1.;7, 1;' >4'>>?'17. / .<7.7'5'' / 4< ; ?'5 7.8' '5''64 7G'>.6'71,4M O5.6'=4 ' ,<7' .4' 5 .4' '4@' / , 6' >.'Q'<- .1' .7'> '-1 5' >.1< .16%' 56'-,46',<7> 7'=4.'5.41' ' / ,41' ?,41'5''5 M O.17V'5.41''6.45' ,;;'6 ,<<.';.6' / '5:.416I'=4 56',<7' >7>'- ;7 / .6'>.'5.41O>5.'.7'>.'5.41'?'71 ,7 6 / .I'=4 56' 6,<7' <- ,5'O5. / .<7''77';:.6' ''5''#,<67 747 ,<%' 56'6.' 6,<7'?5' <76'> >71.'5 -1>6' '' '1O 71' 1.'>.'5'' / 4< ; ?'M 5 7V'8' .7'4@'.@.>6'> 4<.'E,1;.'?4O5 =4.' ,??1.66 -.%']

(' #') &' ' !') !' !' ' ' #% #! !A' !' ' !' ' ' ' ')')!'+#, ' ' !#!%' !' *# ' ')

[illegible]

[illegible]

% ' '> 66. / 05 .' <'7 ,<'5.8 > 6 1'<7 E' 1.'Q,4 1'5" H1'<;.'>.' 4< E,1/ 7>'>.6?, >6 .7 / .' 641.66 " 1,454'=<.' ';'>> < .'>.6 6; .<;.6 ?1>?'1>7 ;.57.' J1'<>.' ,?.1'7 ,<% .6 ; , / / 66' 1.6 >.' ';'' >>/ . 6 .< 6.<7 ,;;4?>6'-.;' 7,47 5.' 6, < &Q4.' ,< ?,4-' 7 '77.<>1.'>.'5.41 b.5.' .7>.'5.41'?'7<,7 6 / .% ' 6 5.416 ,?.1'7 ,<6 .@ J.<7>.'5">.?.<6.% <'-' 7 > '0,1>'.-' 4>';.77.'>.?.<6.'71.6 :'471 .55.''-' 5 .7>' ?,17.' " ?546 .4 6 <5 55 ,<6% '?.11">.6 ;, / / 6' 6' 1.6 <.'5" E' 7 / ,<7.1 =4 " ' / 55.'5 -% <'-' 7 '466 '0.'4;,4? .@'J>1>'5.'7. / ?6 =4 '6.1' 7<>..66' 1.1 5.6 ;, / / 66' 1.6.6?E.1.<7?,4-, 1'?1. 6.<7.1'>'<6>.4@ '<6 5.41'71'-' 5 "5"5.J 65'741.% ' <7.<'<7 0.'4;,4? > ,4-1 .16 6,<7 >.Q" ,;;4?.6% .6 -,V'J.6 -,<7 > 1.' .<71.?1 68 ;'1' 5 E'47 / .641.1'4<'=4'17'>4' / .1 > .<8 >.?4 6 4< .1=4.'Q46=4 " K'1;.5,<'% .'<.'>./'<>.' ?'6 " 66. / 05>.'5" 7,7'5 7V'>.6 E,<>6641 5. ;:' / ?1 / ' 6 .55.'?,411' 7 >>;1.7.1'<<.'6, / / .'>.' 8 % ?,41'>71.'>.5 -1..'4@;,'< / 66' 1.6 '4'E41'.7 " / .641.' >.'5.416 0.6, <68 .7>.' . / ?5, '>.' 5'=4.55.' 5 6.1' 7 1.<>4';, / ?7.' "5"5.J 65'741.8

% 4 2 ' ' .;1, 6 =4.'5">. / '<>.'><' / < 671.'>.' <7.1 .41'<.'?.<7 6,4EE1 1'>.'> EE ;457. I / ' 6Q' / ' 6 66. / 05..'<'7 ,<'5.'<.'>, 7>.5'-1.1'>.6 E,<>6 641'5" >. / '<>.'>4' / < 671.8 .7>'<6 5" / > / .'6.'<;.% .'>.M / '<>.'>,<.'5.'1.<-, '>.';.77.'>. / '<>.''4';, / 7>'>.6 E <'<;.6%

$$

66. / 05>.',1>,<<.'5.'1.<-, %

" 6.'<;.' .67 5.-..' "71, 6 :.41.6%

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DD ($(' *(' 4+.+$,.+$,/ -+*"3(' +'/ $*-((.' (" #$,(.' - ' +.(36+' -(' >(*-+' -(' (,$." 4(*'$ *'/ 5+D(*' . $.;7,<$,' +').+*36(' +'3* $*(/ (,' (*' . 4+*,' -(' + ..+*9((*," -' ' #+ $ ('+ '' '+3.("5,$(' (9$,$ (" (,' $*-(',. ,$) (' *' 4(+' -.(# (2$ */ (' (' . 4(,(/ + .+$,' G3 +$.-' 3(" *' ,.+-$3,$ *'8' (' -(, .*' (" 3 4$ (*," 4.(+, .(" 5 $' ' *,' 4+.0($$ "+' +' #+ $ (' -(' >(*-+ / + ',6 (*,' ,$,$*!' 3 LO$,$)$ $<G' -('3(" ' 44 '$,$ *" *(' $' 4.F'(*,+$,/ +*' $(+' -_ *')$(*#+$,/ 5+D *(' . *(' -D+ ,+6,' 4$*" +33+) +*,(' 5 (D' ,+*,' 4 "3 *,.+$.(' +' +' 8+*,(' -(" .+* +$,/ 3(,,(' #+$ $ $(' *(' 4 +0+$,' 4+" 4 " 6GV +,,(*-.(' 5*(' 'D8 ' + (,,.(D ' ++' 3(" 3 4$ (*," * *',-,(' -$.$9 " 5 (' 4+.' +' 3 *,$+*3(' 5 (' (" '* $(**(" 4(*'$ *" -(' +' #+ $ (' -(' >(*-+' *(' 4 +&' +$(*' G,.(' 3 *# *- (" -+*" (".(3 $(*'(" * *0(,(" -(' +'*+,$ */ (*3 .(' '*" -+*" (' 4.$2' -' .(9$ (*,' -(' >(*1 -+'/ (,' -+*" +' $5 $-+,$ *' -(' '*' ,.+$,((*,' 6(.(-$,+$.(' R,' 3(,,(3 *#$+*3(/ (*-(0(*+*,' +$0(.'((/ +' ,,$#$' 3(' (' 5 (' +' #+ $ (' -(' >(*-+' *(' 4(' ,' 3(''(.' -D+0 $.' -+*" +' '1 ,$3(' -(" .+* +$$" *#$*' (' --(.(' 5 $' $' (,(' +-.(''-' <$$&' .(3$((*,' -(,(. $*(' ' *' G (' 0 $./ 4$*$ *' F' +5 ((' $.- $' 'D#$2(.' B ((',!,$!-$.(' 5+(' (" -. $," -(' ( ).+*36(' ,*+'3+ *(' -(' >(*-+' *D *' (*3 .(' (,$.+$,(" 5+(' -+*" (*,' 4 " #+$) (' 4+.,$(' #5 +$ " .(3 +$53*' * ($,,',$ (' 3 4 (,(/ (,'5 $$" +,,(*-(*,' +0(3'3 *#$+*3(7

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.<';>.8' ?'E' 5" , ' ?405 =4.8' >.' " E4 7 ;'7,7'56' >.' / .6' .<E'<76' .5' >.' 5.41? 1.8' 5.'?1. / .1'1<,4-. / .<7' >.' / ,<' ;;.41' '5'1 / .' / " ? , 17 , 8' 5.' 67 ' 15 >.1< .18' -.16' -,71.'1'??,17.418' ?,41'7< 5<6714 1.' > 4<.' ,4-.55.' 6' E' 7.' ?,41' 646?. >1.' 7<" ;1.>45 7V%%' .' <.' / .' ?.1 ' / .571' ' > .@?5 =4.1' 6 ,<' .<7 .7 .<' =4 .<' > 6'<7' =4.' <,46' <,46' 6, / / .6' -1' 6. / 05'05. / .<7' / '5' . 7.<>468' ?4 6=4.' Q.' 1. / ?,17' ' > '4?1 6' >.' 54' 5.'71' 7' >.' / " 05.6641.' ?546' >,45,41.4@' =4 '4?'1'-'<5%%%' " 5.75 #' =4.'Q.'54 '?,17' 6' 7, / 0" '5,16' >.' / .6' / ' <G' >'<6' ')<' 6 .<<.6%%' # .7' 7' .@?1.66 B' 640 7.' .7' ;,<E46.' >4' >>F' 6,1>1.' > 4<.' / .'>;;: 1. .' .7' ?'17'J>.' .<71.' 5.6' 6.<7 M / .<76' >.' : ,<<.41' .7' >.' 5" <'741.%%%' 55.' >.-' 7' .<G' > 1.''66.0' " ;.54' =4 ' .7' 7' <671< 7N .55.' .<' > 6' 7' E, ?' ?.4'?,41' 5.'?405 ;8' / ' 6' .55.' <' -' 7' <' .7.'E' 7.'?,41' 54 %%' R \' .' ?,17' 5' .7 64 7.' ' -,6;, / 7>6' 5.6' 1.?1. 6.<' 7'7 ,<6' <> 6?;<6'05.6' =4.'Q.' >.-' 6' .41' E' 1.8' .7 Q '5' Q' 6' '-, 1' : ,<<.41' >.' -,46' 5.G' 6,4 / ? 1.8' .66 .416' .7' >.'6,47.< 1' >.6' 5 71.6' =4.'Q ' '?1,>4 76' '-,6' ;, / 7.68' 5' V' " > @' / , 6I' 5 71.6' =4.'Q.' >.-' 6' 1.?'<>1.' ?'1 / ' ,46' '4' / , / .<7' > " 1'??,17I' / ' 6' J7 4<' 1'??,17' '466' / ?1>-48' ' <67'<7' ' 5' " .5> E' 58' =4B' '-' 5' .7.'5,<J7. / ?6' '77.<>48 7 " 6.45' . / ?>. : .' > V 1>?, ' >1.%%' 4' / , / .<7' , 5 Q.' / ;" , ;;4?' 68' Q ' ' 1.;4' >.' -,71.';, / 7.' >.6>>.1.76' !N ! ' >>' >.;1.7' >4' 67' '-1 58' 1.5'7 E' "5" E' / 55.' >.' , [.<>'5%

" 5.;741.' .67' >.-.<4.' ?,41' / ,5' 4 '1'V,7' >.' 75' / >1.'?'15.=4.' / .6'55'1 / .66.> 66 ?.<7'< .641.=4.' -,71.'Q467 ;.' 6 V' >>-.5,??.' " / .6' V.4@' I' Q V' 1.71,4-.' 1.6?. 1'7 =.'=4.'Q.' <' ' ?4' ;.66.18' ;7' =4.'Q.' <.' ;.66.1' ' >.' E,<>.1'641' 5"Q467 ;.' > 4<.' <'7 ,<' <,5<.' .7' E1'<;'.8' =4 ' <.' ?.47' -,45, 1' 6 .<1 ; : 1' >.6' >.01 6' >.6' 5'41 .1G' .4. 55 6' ?,41' .55.8 .<' ?'1' 66'<7' 5.6' '??1.; .1' .7' VE' 1G' >1, 7%%' V1.;,<<' 6=4.' 5.6' H1'< ' 6' <.' ?.4-. 78' .<' 66. / 05.' <'7 ,7 '5.8;,<6';1.1' Q465 ;.' 641' 5.416' 1.J 671.6' ' ;>7>' >4' <, / ' >.' , [.<>'58' ; ' ?% 1' 66'<7' V' ;,<6 J<.1' " 1.;,<<' 66'<;.8' <' 71.?546' . .,<, / .G' - 6 ' - 6' >.6' : .1 7 .16' >4' / '1.;:'5' >.' , [.<>'58' =4,' 5.6' / < 671.6' <.' 1'-' .47' >7.'Q46=4 ; %

'Q' #W7W 5.416' " .7.' ?40 .' >'<6' 5.' G '>< ;6 -1 U

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, 71 . ' >9 ; 1.78 .66 .4168 ; ,<6' ; 1.' 5.6 - . 1 7.6 64 ' - ' <7.6N

p 34.' 5.6 .<E'<76 .7 ?.7 76 .<E' 76 > 4< / '1>; : '5 >.' H '<; .' '466' 554671.8 =4 ' .67 / ,17 14 < .8 .7 =4 ' <.' 6 .67 14 <>8 .7 < "14 < '6.6 .<E'<76 =4.' ?,41 5.' 6.1- ; .' .7 5" J5, 1.' >.6 H1'<J' 68 <.' ?.4-.<7 >71.' >.?,4 55#6 >4 ?.4 >.' E,174<.' =4 56 ,<78 6'<6 <>. / < 7.68 >;' 5" / ' <'>.6 1.?1>6.<7'<76 > 55<.' <'7 ,< E' 7.' ?,41<.' ; ,<' <' 71.' 1 ; ,<,1' .' =4 '?17.' ' - , 1 6'7 6E' 7 " <Q467 ; .' .7 * 5" 1. ; ,<<' 66'<; .I

CD 34.' <>. / < 7> >.5 <; ,1?,1'7 ,< >4 1>J / .<7 >. , [.<>'5 &,?>1>; ' ?'1 4< < < 67.1.' / ' E' 64<78 ;7 6'<6 1.5 J ,< ?,41 5" E, ' >.6 71' 7.6P & P <.' ?,4-' 7 ?'6 >71.' , O5 >.' " ;97> >.6 <>. / < 7V >.6 ?.<6 ,<6 >.6 >' <.6 >.' K1'<;'6 .7 >.' 41? <8 5 5 .6 >4 / '1. ; : '5 >. , [. >'585,16=4.5" <'7 ,<8 .<71' <'<7 >'<6 6.6 1>E,1 / .6 5.6 ?.<6 ,<6 >.' ; .6 >' / .68 " >.714 7 .< / [.' 7. / ?6 ?'1 6.6 <,4-.55.6 5, 6 .6?, 1 =4.' 5" O1 .5 .' > 1. ;7; .7 / '6;45 <.' >.' ; .77.' E' / 55.8 ?1,?1 , ' 7' %8 ' ; .' 7 71;8 >4 1.J / .<7>.' , [.<>'58 "7,4Q,416 ; ,<6.1-.' >.' - , 1 1.7'O5 1 ; .' 1.J / .<7 :>1.> 7' 1.8 '4@ 7.1 / .6 >.' 6,< 71' 7.I

G 34.' <>. / < 7.' >.' 5" ?1,?1 >7> ?. ;4< ' 1.' >.' ; .1>J < .<78 1;6?. ;7>. ?'1 7,<6 5.6 / < 671.68 < > / .' ?'1 ; .54 ' =4 ' ; < ">. 714 7 5" ?'17 .' : ,<,1 5 =4.8 <'7 ' 7'=4. .Q46=4 ; 8 .7 <'77'=4'O5.8 < " ?4 > 1.8 .7 < " ?, <7 > > ; ,<E,<>4.' >'<6 <>. / < 7.' >.' 6" ?1 -'7 ,< : ,<,1 5 =4.8< ' >'<6 ; .55,6 >.6 ?.<6 ,<6 >.6 >' / .6 >.' K1'<;'6 .7 >.' 41? <I

UD 34 .< ; ,?6>=4.<; .' 5.6 ?.<6 ,<6 >.6 5 5 .6 >4 < '1>; : '5 >.' , [.<>'5 6,<76.45.6 1>E,1 / >.6 8 ; ,7< / .' > .6 6,<5 6.45.6 <>. / < 6>.6 ?'1 5.' >. ; ;7 =4 ' >,<<.' " ; : ' ;4<.' ' 5 -% > <>. / < 7.I

D 34.' 5.6 8 ' 5 -% >>;1>7>.6 .<E' .41 >.' % >.' ,- .<>.58 6 .55.66,<74<.' <>. / < 7.8 <.' 6.<78 '4@ 7.1 / .6 >4 >. ;1.78 =4.' <>. / < 7> >.' ; .' =4.' 5" O1'<>: .' / '6;45 <.' " ?.1>48 ; <='< ' ' ?1.6 5" / ,17>4 / '1>; : '5 >.' , [.<>'5 Q >'<65.' 1.J / .<7 > <E'<7.1 .'55. / '<>.' >.' 6,< <, / 8 >,<7 6,< E 56 4< =4.' .67 6.45 ?1,?1 .7' 1.I .7 ; .77.' <>. / < 7.' < .67 =4.' . .55.>. <; ,1?,1'7 ,<>.' ; .' 1. J / .<78 .7 >.' .6?, 1 =4 5 ?;1>8 ?'1 - ,6 <,4 ' 67.55.6 5, 68 &5.' 5.' - , 1 1. ,1>.1%8 #'1 5 < .< " ?.1>4 Q46=4 . ' =4.' 5" ?'17 .' : ,<,1 5 =4.8 .7 5 4 " ; .66>8 < 4 ; .66.1 > .<; ,<6.1-.1 5.71' 7. / .<78 ' - . ;' 5" =4'5 7.' ; ; ,5,<.5 ?1,?1 >7' 1.' &; ,<6' ;51>6" ?.1?>74 7.' >'<6 ' ; ' ? 745'7 ,< .7 >'<6 5" 4 , ; '7 ,< >4 / '1>; : '5 >.' , [.<>'5 - 6 ' - ' >; 5" H1'<; .8 .7 >'<6 5.' O1. - .7 >; % >.' , .<>'5P%

34.5=4.' E' O5.' =4.' 6, 7 ; .77.' <>. / < 7.' >.' 8 % .< ; , / ?'1' 6,< >.6 ' - ' <7'J.6 : ,<, ` =4.6 > 4< 1>J ' / .<7 >.' E' / 55.8 >.' <, / 8 .5 :>1>> 7' 1;' " ?.1?>74 7.I =4.5=4.' E' O5.' .7 > 6?1,?,17 ,<<>.' =4.' 6, 7 64 '7,47 ; .77.' <>. / < 7>8 =4'<>.55.' .67 ?1.6.<7>.' >'<6 - ,71.' >. ;1.78 .66 .4168 .< ; ,<6 >.1'7 ,< W>.6 / ?,17' 6 Y6.1- ; .6 1.<>46 " 7'7?'1 5.E. ' / '1>; : '5 >. , [.<M >'5IY .<; ,<6 >>1'7 ,< W>.' 5'?.17.=4;6.6>.6; .<>' 76 $,<7 >?1,4->.6416,<1>J / .<78Y ;7 .< ; ,<6 >>1'7 ,< $ >.' 5" 6 74'7 ,< ,4 5 " 5' 66> 6.6 >.6; .<>'<76IY 5" O1'<; : .' / '6;45 <.' >.' ; .77.' E' / 55.8 '47,1 6>.' ; , : / ,' .55.' .678 ?'1 - ,71.' >>J1.78 ' 1. / ?5' ; .1 5.' / ,7 > < ' >. / < 7> ?'1 ; .54 ' >.' ; ,<6 >>1'7 ,<8 1.J, 7 ; .77.' ?' >. / < 7> ?'7 ,<'5.' .< ; ,<6 >.1'7 ,< ' >.6 / ?,17'<76 Y 6.1- ; .6 1.<>46 " 7'7 ?'1 5.' E.4 7 '1>; : '5 >.' , ' $ [.<>'5I $ .7>. - .<'<7'<.' / '1=4.' >.' 6,4- .< 1.7 >.' 6'7 6E' ;7 ,< >.6 H1'<J' 61'66. / O5.68 ?,41 5.6 6.1- ; .6 >>6 <7>1.66>6 >4 / '1>; : '5 >.' , [.<>'58 .55.' >; - .<78

? ,41 5.6 :>1 7 .16 >.' 6,< <, / 8 4< 5 71.' >.' J5, 1.8 >,Y5 : ,<<;41 E' 7 7,47 5.' ?1 @%%

9D 34.' 5.' 71' 7. <.<7 >.' C 8 ' 5 -% '77' ; : ' &'46 7.1 / .6 >4 O1. - .7 >.' % >.' , [.<>'5P " 5" =4'5 7.' >; ; ,5,<.5 ?1,?1 .7' 1.' >4 1>J / .<7 >.' , [.<>'58 <.' ?' ' 1' 66'<7 .< 1 .< >'<6 5.' >. .1.7 1.<>4 641 ; .77.' E' / 55.8 ; .' >. ;1.7 < .67 <. ; .66' 1. / .<7 =4.' ?1,- 6, 1.I ,4 O. ' ; .' 71' 7. / .<78 <-'1 'O5.' 46=4 ; 8 .67 <>; .66' 1. <;7 5 ; ,<6. - .8; , < / . ; .5'>. - ' 7.71.8; '1; .71' 5. / . 7 .6 '471.' ; : ,6.' =4.' 5.6'11.1'J.6 > 4<.' ?1,?1 ;7.8 > 4< O .< >.' E' / 55.8 >4 6.45 ?'71 / , <.8 .< <8 >.' 5" O1'<; : .' > 1. ;7.' .7 >4 <, / ' >; , [.<>'5I ?'71 / , <.' =4.' - ,6>. ;1.76 < ,<7 ?4 E1'??.1" ; .'5 71.8 .7=4 56 .' ?,411' .<7 .5E'; .1 >.' 5" 5 67.' >.6 ?' . / .<76 >.' 7'78 =4 .< .< >. .1>7'<7 5" 5 =4 >'7 ,<8 ;5 .< .< ,1>, '<7 =4.' 5.' ; '? 7'5 >.' U 8 ' 5 -% E47; , / ?7; ' ; ; 77.' O1'<; : .' < '6;45 <.8 ?,41 5.' 1. / O,416. / .<7 >.' 6.6 C 8 ' 5 -% >.' 71' 7. / .<7 ?.1?;74; 8

.' 71' 7. / .<7 >4 1>J / .<5 >.' , [.<>'5" > > 5.6;45 : . 1 7'J.' >.' 5" O1'<; : .' / '6;45 <.8 5,16=4.5.' / '1; ' ; : '5 >.' , [.<>'5 .67 <.17 ?'4-1.' .7 14 <.8 ?'1 ; ' 'O'<>,<6 =4 5 - ,46 " E' 568% .66 .4168 5,16=4 5 ;65 - .<4 1. / ?,17.1 >.6 - ;7, 1.6 641 - ,6 .<<.< 6I 5.6 ?.<M 6 ,<6 >.' 6.6 5 5 .6 6,<7 >. - .<4.6 ?,41.55.6 4< 6; ; ,41I <> 6?.<6'O5.' >.' 7'78 4< 1. / ?5' ; . / .<5 > : . 1 7'J.8 .7 ?'1 ; ,<6>=4.<7 5'6.45.' 5.J 7 / .' >.' 5.416 .<E'<768 ; , / / .' 5.' 71' 7. / .<7 >.' ; ,5,<.5 ?1,?1 >7' 1.' .67 5 6;45.' >J 7 / .' >.6 ?.7 76 .<E'<76 >.' 5" O1'<; : .' >1. ; ' .7 >4 <, / ' >.' , [.<>'5% .6 / > / , 1.6 - ,46 ,<7 > Q5 1'??.5.% .66 .4168 =4 5 <.' 6 .67 71,4- .' " 5" / ,17 >& ; .' ; . 1,68 ?,41 E14 7 >.' 6.6 6' ;1 E ; .6 " 5" H1'<; .8 .7 >' 6,< >>6 <7.1.66.< .<78 =4.' 8 ' 5 -% >.' >.77.6 &= ,<7 >7> ?'V. .6 ?'1 6" E. / / .' 641 5.' O .< / '7.14.5 >& 6.6 .<E'<76P8 .7 4< 1. J / .<7 :>1. > 7' 1.8 ?1,?1 .7; <M > - 6 O5.8 7'<7 =4 5 V " >.6 <'>5.6 >'<6 5" E' / 55. ' .@ 67.<; .' > >. % >.' , [.<>'58 >.' 6,< E 568 .7 / > < >.' 6.6 E 55.68 6 ,??,6.' " '4; / ' ?'17'J.' >.' ; .77.' ?1,' ?1 .7> ' - . ;' 5.6 O1'<; : .6 E> / < .6%

(D 34.' 5" ?.<6 ,< >.' 8 ' 5 -% =4.' % >.' , [.< >'5 ' ;74.5 " ' ; =4 6.' ?.16, / 4.55. / .<7 ?'1 >.4@ J4.11.6 >.6 ; ' / ?'J<.6 > / . =4.8 .7 U ' '<6 >.' 6.1- ; . ' ' ? , <7 >78.8 .7 < " ?4 >71.' <,< ?546 1.E,1 / . .' >'<6 ' >. ;1.78 ?4 6=4 .55.' <.' ?.47 E 71%.' 1.E,1 / . .' 6'<6 <>. / < 7.8 ; '1 .55.' < .67 ; .17.6 ?'6 4< 'O46% .66 .4168 ; >7'<7 5" 6.45.' 1>; , / ?.<6.' >.6 6.1- ; .6 >.' 7,47.' 6" - . ,46 ' - .O > 7% .66 .4168 =4.' - ,46 <.' 1.E,1 / ;1 . >.' 5" 5 67.' >.6 ?.<6 ,<6 =4.' ; .55.6 =4 ' 6.1' . 7 < ' ;=4 6;68 =4.' - ,46 ; ,<6.1- .1 .O ; .55.6 =4 ' 6.1' .<5E,7 >. .6 641 5" Q467 ; .8 .7 =4.' - ,46 '4J / .<7.1 .O ; ;55; =4 ' ; / ,<71.1' .<7 7 ; ,? E' O ;6% #.77.' >. ; 6 ,< " 5% E @.1 5.' 6,17 >.6 : . 1 7 .16 >4 / '1. ; : '5 >.' , [.<>'5% .' / . / , 1.' ; Q , <7 - ,46 E,41< 1" 5.6 ?1.4-.6 >. ; =4.' Q ' - '<; .% 34, =4.' 7'1> - .68Q.' >, 6 - ,46 5.6 E' 1 ; , < , '571;8 O4 6=4.' - ,71.' 1'??,17.41 <.' - ,46 5.6 " ?" ?1>6.<5>.6% 5 V " > @ / , 6 =4.' ' ' 1. / 6 ; .' / . / , 1 " - ,6; , / 7. Q .< ?1.6.<7'<7 " ; 7.' 5.6 ?1.4-.6 ,1 J <'5J6I .7Q;' ?,411' 6 .<; ,1.' .<'Q,47.1 O.'4; ,4? > '< 71.6717.1; < '1=4'O5.6&5P% $

.6457.' >. ; .6,O6.1-'7 ,<6% .66 .4168 =4 5 - ,< 1.67.' " 5 O>1.1 " ?.1?>74 7> <,< 5.6 ?.<6 ,<68 / ' 6 ' O .<>.' % >.' , [.<>'5 .7>.' 6.6 .<E'<56= 6, 7 .< >.' .1>7'<7 6" ; ,<6.1-'7 ,< ?.1<.74.55.8 =4 ' <.' ?.47 >71 .<E1. <7.8 .7 =4 ' < " ?4 / . / .' 6.' E1,4-.1646?.<>4 >'<6 5.6 / ' <6 >.' - ,6 71>6,1 .16 =4.' ?'1 <7.1?1.7" 7 ,< 71, ? .7.<>4.' >.' - ,6 >. ;1.568 641 4<'7 ' 7. / .< ?'71 / ,< '5; ,<E,<>4 "7,17>.?4 6 (/ , 6 '- . ;' 7,< 5.6 71' 7.< ,< 6 =4 ' Q-'1' 66.<7>.' 5' / > / .' ;5'66.8 / '< =4 . Q.' ?4 6 > 1.' <'+46 '75'=4.1 5.416 >1, 76 <'17 ;4 5 .16P =4 ' < V ?.4- ;<7 >71.' ; , / ?'1.68 ?4 6=4 56 <.' 6

' & P " ; '? 7'5'7 ,< >'1.J / .<7 >.' , [.<>'5 ?,17' 7 =, 5 <.' 6.1' 7Q' / ' '1.E,1 / .' .<7. / ?6 >.' J4.11. I =<G '< 6.45 O'W 7' 55,<Y .<'7. / ?6 >.' ?' @8 ?,411' 7 64O 1 5" 1.5 ,1 < .' ; 1'1' >'<6 5.6 '471.6 1.J / .<76 .71' <J.16I / '76 =4.' 5G.7'7\ / 'Q,1 6.1' 7 ; ,<6.1-.' >'<6 7,<6 5.6 7. / ?6 .< 6,< .<7 .1%%% # .67 .< 7. / ?6 >.' J4.11.' =4.' 5.' 1.J / .<7 " .7.' < ; .1? .1.% # <= '<6 '?1.6 5" / , 7 >4 / '1. ; : '5 >.' , [.<>'58 5 V .< ' - ' 5 >.' / , <6 '<; .<6 =4 ' .<7 .7.' ; ,<6.1- .6I .7 5.' 1.J / .<7 >4 1' ' 1. ; : '5 >. " , [.<>'5 .7' 7 >.' - .<4 5.' 6.45 : .1 7'J.' >.' 6,< ' 6%

% & P .' / . / . 1.' ; 7 ' #767 4< 1' 68]. / O . / .<7 >G <6714;7 ,< 9 '>.' ? . ; .6Q467 >; '7 - .6 8 E, 41< W 5 V " <4' '<8 '4@ ; , / .6 641 5.6 >. / '<>.6 >.' % # ' / 46% ' " .7.' > 671 O4.' " 66. / O5. ; '7 ,< 5.8 ' - . ; 5" ?196. / .' >1.66.% 1, ? > .7' 55.' ?,4 5.6 O?1<.6 > 4< Q, 41<'5Y 7 <.' ?. '7 6GV 71,4- .1 1.4< % G

[illegible]

Y% 5)

C WWB] T . BHTB + < 6 3

3 3

$ $. H1'<;E,17Q 7 ^ .6 5.751.6 >. 1'<;.
%'??1.<<.<7 = . ,<?'E' 5 3 71. 71.6 <=4 .7 '4'4Q.7
>4 1, >. 4.>.8 < ;1, 7 .. / ,<'1=<. / ?5 =4. >'<6
.?1,Q.78 -1' ,4 E'4@8 > 4<. .,<51. 1 -,545 ,1 I5.6 <
> 1.6%=4. ,<W< >,<<. 6,<7 5.6 ;<71.-4.6 =4 5 " .4.6
" @ ' #:'?.55. .7 ' 55.4 '-.; 5.6 ?1 <;.6 E4J 7 E68
';;4. 5 =4 " E' 7 '4@ 1.E4J .6 E1'< ' 68 '>/ 66 ,<
>4 J.<.1'5 K,< 55; " 6,< 6.1- ;.8 5. 1'??.5 >.6 ,5E ; .16
64.>, 6 >4 .1- ;. / 5 7'57. >. H1'<;.8 6.6 -,V'J.68 ;'1
,< ?1.7.<> =4 5 .67 '466 '5 " " 5" ;,41 >. #'66.5R ,4
.67 '11 -.>.1< .1; / .<7 >. 5.6 [; 7 5. ?1 <;. #:'15.6
>. B.66.8 E.5> / '1.;:'5 J.<.1'5 >.6 '1<7..6 >'<, 6.68
.7 O.'4%?.1. >4 ?1 <;. 1,V'5 >. '<. / '1; 8 .7;%8
' 6 7,<6 ;.6 <> ;.6 <.6'41' .<7 ?1,4-.1'471. ;:,6.8
6 <,< =4. ;. ?1 <;. .67 > 4< ;'1';7.1. <=4 .78 1.
/ 4'<78 =4 5 < ' / . ?'6 5"1.-,547 ,< E1'< ' 6.% ' 6
5 1.67. " 6'-, 1 6 7,47.6 6.6 >. / '1;:.6 ?1.6.<7#<7 4<
,OQ.7 1>.5 ;5 O5.< E,<>>> <=4 .74>. ?,41 5.6 H1'< ' 6N
,< ">. 5" ?. <. "6. 5. ?.164'>.18 =4, =4 ,< > 6. = 5
.67 1.5,41<. >'<6 6.6 '7'76 ?,41 1.-.< 1 '-.# 4<.
E5,57. =4 .67 ?1.5. " E' 1. -, 5.8 .7 641 5'=4.55. 'V
>.6 71,4?.6 >. >>O'1=4. / .<7% J<,1. 7 ,< =4. 5. 1,
>. 4.>. < .67 ?'6 4< / ,<'1=4. '06=54I =4. 6,< ?,4
-, 1 .67 O,1< ?'1 .6 97'76 >4 1,V'4 / .I =4 5 <. ?.47
?'6;,<>4 1. 'G,< J1. 4<. '1/ . O,< 4 6. / O5.8
6417,47 5,16=4 .5 . < .67 ?, <7 >.67 <.. " ;, / O'771. 5.6
.<<. / 6 >. 5" ?'71 . .7 " >.E.<>1. 6.6 5 < 7.6 f 7 <
> Q" ,405 ;. =4 6 .67 ?'66. >'<6 6,< '1 / .. " 5" >.1
< .1. J4.11. ;,<71. 5" 466 .Z ;. / ,<'1=4. "71,4-
2 ;.57. ,;;'6 ,<7'<7 > , 67';5.68 =4, =4 5 E>7 ;.17' <
=4. 5" 466 .6 7' 7 / .5.. O.'4;,4? >.6 'EE' 1.6 <7'
V .41.6 >. 4.>.8 ;, / O .< < .< 1.<;,<71.1' 7G 5 ?'6
=4'<> 5 6 'J 1" > '55.1 6 .<'O'1=4.1 ?,41 ;, / O'771.8
=4 Z 5.6 H1<< ' 68 ;.77. <'7 ,< =4 <. 54 " Q / ' 6 E' 7
'4;4< / '58 5" ?546 '<; .<<. '55 .. >. 6,< 1,V'4 / .Z
#;15;6 ;.5" < .67 ?'6 ?1,O'O5.8 ' 6 8 > 1' 7\ ,<8 5 .67
J'1'<7 >4 71' 79 >. .67?:'5 'I ;.5" .67 -1' 8 / ' 6 5
< .67 ?'6 .<;,1. ?1,4-9 =4. ;.57. J'1'<7 ;6, 7 >. <'M
741. " .@ J.1 6,< <7.1-.<7 ,< >'<6 'EE' 1. >.6 ?1 <;.6
'55. / '<>6 1.;5' / '47 ;,<71. 5.6 >.;1. 6 >. 66. / O5..
<'7 ,<'5.;.6 ?1Q<;;6 < .7' .<7 ?'6 5.6 ?1 <; ?' .6 ?'1M
7 .6 ;,<71' ;7'<7.6 > " ;. 71' 7.I .7 >. ?546 56 ,<7 71' 7.
%>'<6 5. 7. / ?6 '-., 5" H1'<;.8 ;:';4< 6.?'1. / .<7
.7 6,5. / .<7 8 6'<6 5. ;,<;,416 >. / ? 1. '7 >.6
I6,4-?1' <6 J'1'<76>4 71' 7. >. .67?:'5 .% 4641?5468
S>'<6 5. ;'6 / . / . ,. ;.77. <7.1-.<7 ,< >>7 '-, 1 5 .48
8.55. .67 64Q.77. " >.6 O1 / '5 7.6I 5 E'47 =4. / ? 1.'5"
1.=4 .1.Q.7 5 < " ?'6 .<;,1. .79 =4.67 ,< >. ;.77. 1I
=4 6 7 ,< "5" > .7. 8 <6 ,<<. -, 7 ?'6 >. =4.55. / '
.1.'5. 1, >. 4.>. ?,411" 6. ?1.6.<7.1 ?,41' '77'=4.1
5" H1'<;.I .7 ?' ;,<6 =4.<7 5. 6<Q.5 > <=4 .74>.
6,< .J'1> <. ?.47 E 71. =<. .EE.7 > 4<. <6 <4'7 ,<
'>1, 7. ?,41 '5'1 / .1 5.6 .6?1 768 7'<7 5.6 . / J1'<76
E1'R ;' 6 6,<7 :'O 5.6 " ?1,E 5.1 >. 7,46 5.6 / ,V.<6 >.
71,4E;5.1 .7 > 'J 7.1 5.41 ?'71 .% 34, =4 5 .< 6, 7 8 5"
H1'<;. " < .4@ =4. >.6 1' 6,<<. / .<76 ,??,6.1" >.6
;,<Q.;741.6 8 S ?4 66'<;. 6'41' 7 1.6 67.1 "
>.6 19" 7.68 .7;8

@ (0 F 9

%%% #.77. <,4-.55. = '0 . $'E
" ;,<67.1<> <,71. '1267,;1'7 . <'7 ,<'5.8 .87 54 " E' 7
O' 66.1 5. 7,<I 5.6 J.<6 >. ?'17 < ,6.<7 ?546 ,4
-1 1 5" O,4;:.% #.4@ =4 ,<5 6;<5 <;<56 > EE.1.<76
,6.<7 5. > 1. .7 ?'15.1 c '47%8 .6 <> EE.1.< 6 1 .<7 >.

B_ V < '.

O,< ;;.41 >. -, 1 =4 ,< ' 7 >7. 6 J1,66 .1. / .<5 '771'
? 8 .7 =4. ,< .< 6, 7 ?,<1 6.6 1.Q,4 66'<;.68%%% .67
;,<67'<7 =4. 5" 1. <. >. '?5.6 " ?1,> J4> 5.6 6, <6
'4?1.6 >. . / ?.1.41I .55. V " 979 >. 7,47. E / .% .@ %
/ < 671.K, / O%%%P8%=' 6 5,<J7; / ?6 ! ; 8
" E' 7 5. 1.67. '-.; 4< ;,<< 7. ;,11.6?,<>'<7 &5. O'1,<
>.K1.7%%%SP% < <,46 " E' 7;1, 1; ;=4. . / ?.1.41
'-' 7 ?1 6 5" ;:,6. " ;,.418 .7 =4. 5" J1'<>. 'EE' 1.
-' 7?,41 ?1,7.;7.41% ' 68 <,46 > 6' 7 , \ '-.; / V67.1,8
. / ?.1.41 -.<7 .7 e 6 1 >. 7,47. 5" E' / 55. 1,V'5. ;7
>. '66 65'<;. >.6 '471.6 ?4 66'<;.6% < / : 1';,<7.
= ;.K, / O%%%S8 " ?1,?,6 >. 5" E' / 55. 1,V'5.8 '-' 7
> 7" .,?,5> N '1 Z '3
- $ 3 -,V.G O8 .,8
=4. 5" ;'O'5. -,45' 7 7.<7.1 5.6 '-.<741.6 '-'<7 =4.
,4 6 " =4 75'7 '1 6% ' 6 . / ?.1.<1 < 'V'<7 ?'6
-,454 .< > / ,1>1.8 5" E457. " .7 >.;> .%%% 5 " 5.77
/ , / .<7 ,4 .1,?.1.41 " > 6 '??5'4> 1> '-,51 ,> =4.
5" / '1;:.8 6 7'<7 .67 =4 5 ' 1 <> =4.. N . .67 5,16
=4 " 5" <,4-.55. >. .-'6 ,< 5 " E' 7 ;:'<7.1 4< <
2 7 ?,41 ;.7 ;;4 ;4@ 64;;.6%%%%%%% . 1;;, 6
>.6 .771.6 >. ! .<, 6% 56 6,<7 .@;.66 -. / .<7 ;,<7.<76
=4. 'EE' 1. ' 7 7,41<. >. 5" 6,1 .% 56 7.<' .,7 ?,41
'6641 .5" O'<=4.1,47.86 5. ? ,Q. >.5" ;,41. 7 466 %
#.57. ?.7 7. ;,<6 >.1'7 ,< 7' .1 .55.<. 5' 66.1" ?'6 =4.
>. 6.1- 1 5.6 O,<6 H1'< ' 68 .7;%8 .7;%

H ; %F
? ? 7 a 7
, (* %

. > 1..7, 1.81.4< .< 5" 6'55. ,1> <' 1. >. 6.6 6. '<M
;.6 8 '-.; % ! .<6,<<> .7 ! '55, 68 ;, < / 66' 1.6 ;
- 568 .<-,V>6 ?'1 5. 1, > '<6 5. >>?'15. / .<7 >.% 5"
.<>>.8 .< .@.;47 ,< >< >..1#7 >. 66.<5O5.. <'7 ,
<'5.8 >4 9 >. ;. / , 6I
< ?1 .<;. >.6 / . / O1.6 > 1.;7, 1. >4 > 671 ;7
.7 >.6 <' 1. .7 ,EE ; .16 < 4< ; ?'4@ >. ;.77. - 55.I
/ >6 '-, 1 >.7 O>1> 641 5" ?.7 7 ,<>4 ;,<6. 5 J. <>
1'5>. 5' ;, / / 47 . >. 5'> 7. - 55.8 .5 67 1 5. / ,>.
> . " ;;47 ,< 5. ?546 ?1, ?1. " ;,<; 57.1 5.6 > 6?,6 7 ,<6
&5.6 5, 6 1.5'7 -.6 '4 ; 57.8 6'<6 ;, / ?1, / .771. 5" 71'<
=4 55 7. ?405 =4.8 .7 .<E1. <>1. 5.6 ?1 <; ?.6 >. 7,5.M
1'<;. 1.5 J .46.8 6,5.<<.55. / .<7 ?1,;5'1 ` ?'1 6
6. / O5>. <'7 ,<'5.I
#,<6 >.1'<7 =4. '157;5. 5W1 >. 5" 5, >4 / 'Y
>.1< .18 =4 >.;5'1. =4. . >.E'47 >. ?1.67'7 ,< >4
6.1 / .<78 ?1.6;1 7 ?'1%5" 5, >4 C9 >#;. / O1. (* 8 <.
?,411" .71. ,??,6. " '4;4< ?1971. 6. ?1. 6.<7'<7 >'<6
5.6 ,1'7, 1.6<'7 ,<'4@%6.45. / . '?,<1V> 1. 5"
64??,6. .@.;47 ,< >.6 '17 ;5.6 .7 > . "1<> / . 5,
>4 C9 >.;. / O1.8 =4 ,1>,<<. =4. 5.6 E,<;7 ,<, ' 1;6
?405 ;6 =4 6. 1.E 6.1,<7 5" ?1.67'7 ,< >4 6.1 / .<7
;5- =4.6. ,<7 1. / ?5';.6I =4. ?'1 ;,<6.=4.<7 .%@.1
;.?405 ;>.5" E';457.8';;,1>.. '4@ ?1 71.6<, < ;,<
E,1 / 67.6 8 >. > 1. 5" / .66. 6.775. / .<7 >'<6 5.6 .J5 6.6
> ,1'7, 1;6 <'7 ,<'4@8 . 75 / 7.. " ;. 5.6=4 6,<7 >.6
6.1- .6 ?'1 7 .6 ?1#71.6 ;,<67 547 ,<<.568.7 <. ?.<7 .71.
.7. > " ;.55;6%>,<7 5.6 >.66.1-'<76 < ,<7 .<;,1. ? 8
.71. 1. / ?5';.6I
#,<6 >.1'<7 .<#,1. =4. '15 ;5. >. 5" 5, >4
/ ' >.1< .1 ;,<7 .<7 ;5.6 > 6?,6 7 ,<6 =4 E'; 5 7.<7 9
7,<6 5.6 ; 7,V.<6 .@.1; ;;>. 5.41%;457.8 =4.5 =4 5
6, 78 ?, 114 =4 566.6,4 / .77.<7'4@ 5, 6 >. ?,5 ;.=
5.41 6,<7 ?1.6;1 7.6I Y
7 5. ?1,;41. 1 J.<.1'5 6V<> ;8 .7 >. '- 6 >.
% 5.6 ;, / / 66' 1;6 .7 >4 > 1.;7, 1. >4 > 671 ;7 >.
H,<7.<'V8

[illegible]

' , < ; ? ' 6 ' 4 " / .7< . ' . ; . 6 ' . ;1. 6 =4 ; Q ' ' " - , 46
. <71. . < 18 ?7' 6 6. <5. / . ?7 >4 ? : < =4 ' - , 6 ; , / 5>6
, <7 ' > , ?5>8 7 > . 6 ; , <6 >>1'7 , <6= < 5. 41 , 47 6.1 1 > .
5. J. < .1'5. ? , 41 > 6; . / .1 5. 6 > . ;1.76 -1' / . <7
, <67 747 , << .56 > . ; . 4@ =4 7 ; 67 6 , <7 ? ' 6% % 8
+*, + 4 +*7 $ - ,+$, 4 ' '$) (5 (* * - " . (*#(. !
$*+*, -+*" ('(+" ' , . $3, (, . $9 . (' - , 3 - [$S[#[&!
* " * (#$' '$ * " (* , . (. , +* ' * , . (, . +0+$ 5 (D
*$5 ( ) (, -#$ + - 0'$ * (- (.9+ $'+,$ * -#" A
% [[E , ;1 1' 'E . <> 6 ' - =< , 06 .1->=4 .1 66 . / 05. .
6 +0+$,4+" #$,+)#$ + * ' , , , ,$ * 4 # -+ $$(4 * 1
0(+ / *$, +,$' *$$(, (. . (0$(.9(7 5$$5 + . ,$*3(9($'
' $, - (4 $" 4 '$(. " '$ 3 (" ' " *(# ($* ' ,$, !
,$ * " $*34$+4+,$, (" +0(3 - * (3 * ' ,$, $ * 4 .# . ($9(!
$$(.3 ' (/ +$(36+ , . (3$.$5 $(+) $,$ * " 5 $
&* -#$ 4. (3 , . . +$4 +- , , ,$ * - (+ $) (. , ((, - (. F!
9+ $, (! - (8+$, , .3 3)$, '+3. - . Q3 * ,$, ,$ 6?$(((*,
% (" 35 $, - " * ,nE ' '$ * * , , 5^ (($ 6 (' ' !
#$$' '++, (* ' 3$#$,#$ * , - (" -D $, " $* - 0- (" - (* ,$ "
* (*, (* - (*+" #+$. " ('+3. $#$3(7 5 + ,#(', + 3 *!
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% K40, 'I' .;, / 7>'>.'1.- 6 ,<'< 7' 7?'6;:'1J.' >.';:'<J.1'5.6'>.;1.768'<,46'<.'6, / <.6'?, <7'>'<6'5.' .'6'> ,4-1 1' 5''> 6;466 ,<' 641'4<.' <,4-.55.'E,1 / .'>.' J,4-.1<. / .<7I' / ' 6'<,46'>.-,<66.45. / .<7 .@' / <.1' =4.56'6,<5' 5.6' '17 ;5.6' =4 ' >, -.<7 .<71.1' >'<6' ';7.' #,<67 747 ,<<.5%

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% % '00.' '41V8' '> .18'H,4;'4578' '<>1.4 58' .7'?546 .416''471.6' / . / 01.6'?5'#>6'>'<6' .@71. / 7.' >.'5'' ?'17 .'>1, 7.8'6.' E.-.<7 .<'>>;5'1'<7=4 56'?'17' ' J.<7 & ,?< ,<'>.' % > ?1> / >< 5% & <' 1 7 >'<6' 5'' ?'17 .'J'4;:.I',<''??5'4> 7'>'<6'5.6'71 04<.6%P

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66. <05>.8' ;,<6457>.'>.'<,4-.'48' '>,?7.' ,1' >,<<'<;.'>4'71'-' 5'>.6';, / 7>6'>.';,<67 747 ,<' .7'>.' 1>- 6 ,<%

% ' 'N 5' 1>6457.'>4' >>;1.7=4.'-,46' -.<.0' >.' 1.<>1.'=4.'5''> 6;466 ,<'-'' / ' <7.,'<76 .' 7'05 1'641'5'' > 6?,6 7 ,<'>.6''17 ;5.6'=4';,1'?,6.<7'5'' >#5'1'7 ,<'>.6'>1, 76%

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?.1 / 6'> V'E' 1.''4;4<';:'<J. / .<7% 55.' '' ';=4 6' 4<' ;'1';7.1.'1.5 J . @' .7'6';1.I' .55.' .65'>.-.<<.'5.'6V / ' 0,5.'>.'5''E, ' ?,5 7 =4.I' .55.' .67 / ?1 / ..'>'<6' 7,46' 5.6' 5 .4@' ?405 ;68' 'E5 ;:..'>'<6' 5''>. <.41.'>.6';' 7,V.<6>.'5'';' / ?'J<.8' .7'5.6' .<E'<76''??1.4<.<7''V 5 1.% '6.1' 7'>'<J.1.4@'> . E'05 1' .<'?'1'55.5.'4<.'>>' ;5'1'7 ,<'> EE.1.<7.8' ,4' / > / .'> .<';:'<J.1'5'' 1>>';' 7 ,<% ,46' ;1,V,<6' =4 .5 .';,<7 .<7 7,46'5.6' J.1 / .6' >, '>.1 -.<7'5.6';,<6.=4.<;.6' 47 5.6' '4' 0,<:.41'>.' 5'' 6,; >7.N . .67 ?,41=4, 'Q.'?1,?,6.1'' '>.'?'66.1' '4' 6.;,<>'7 71.8'=4 'J'1'<7 7'5.6'>1, 76'=4 .<' . / '<.<7%

% 'I' .'6.<6';, / 0 .<' 5' .67 <>..66' 1.'>.' ?,17.1'1.6?.;7 '';.77.' .;5'1'7 ,<I'Q.';1, 6';.?.<>'<7 =4 5' .67'0,<'>.'1.?'1.1'4<.' <.@';7 74>.'=4 '6.'71,4-.' '' '17 ;5.' '' 8' '<6';,<Q4'N W .6' ?1,?1 .7. 6' .7'<7 4<' >1, 7 <- ,5'05.' .7 6';1.8' <45' <.' ?.<7 .<' >71.' ?1 - .%%%Y 'E'47'> 1.'N W '' ?1,?1 .5.' .7'<7 4<' >1, 7 <- ,5'05.' .7'6';1.8 <45' <.'?.<7 .<' >71.'?1 ->%%%%Y

'- 'N # .67 4<.' E'47.'> / ?1.66 ,<' =4 ,<' '41''6, <'>.';,11 J.1%

% 'N <'>,?5'<E'5'' .;5'1'7 ,<'>.6'>1, 768' 66. / 05>.''>.;1.7.'=4 .<'E' 6'<7'5'' 1.- 6 ,< ,<'.@'' / <.1' 7'6 5'<.'?,4-' 7 ?'6'V'>71.'E' 7'=4.5=4.6''>> M 7 ,<6' 47 5.6% '1' 4<'>.;1.7 <6.1>'>'<6' 5.' ?1,;.6' -.10'58' ,<' '' 'Q%,414;' '' ;.77.' .?,=4.' .@'1'. '>.';;7 '17 ;5.N' $,46'5.6' / . / 01.6'>.'5'' 6,; >7.8'6 56'6, 7 <> J.<76',4' <E / .68' ,47 >1, 7 '4@'6.;,416'J1'74 76' >.' 5.416';,<; 7,V.<6%Y #.77.' > 6?,6 7 ,<' / .'?'1' 7 ;,<E,1 / .''5''> J< 7>'> 5 <.' J1'<>.'<'7 ,<% '' .;5'M 1'7 ,<'>.6'>1, 76' / .'?'1' 7 .<;,1.'646;.?7 05.'> '<7 ;6' ;:'<J. / .<76% '1' .@. / ?5.8' 5' .6E> 78' '17 ;5.'' 'I' W ,46' 5.6'; 7,V.<6',<7'>1, 7'>.' <?,7%Y ' 66,<6' 5'' ;.6' .@?1.66 ,<6'=4 '6.<7.<7 .<;,1.'5.'>.6' ?,7 6 / .% W ,46'5.6'; 7,V.<6',<7'5.'>1, 7'>.'1>J5.18'>.' >>7.1 / <.1' / ?>7% $, 5''; .'=4 ' .67 .7;.'=4 5' E' 5' > 1.% <' - , 7'=4.';.'71'-' 5' '' >7>' E' 7 .<' 71. / 05,7' 5' ?'1'>.'?'4-1.6'1.?1.6.47'<76'>;6';, / / 4<.6% 1 ;' .M ;5'1'7 ,<'>.6'>1, 76'>, 7'> 1.'1.> J..''-..'4 .'01 .-.7.' / ?.1 '5.' ;7 '-.;' 4<.' 6'J.66 .'?: 5,6, : =4.%% 5' <.' 6 'J 7'?'6'>.';:'<J.1';.55. ; 8' / ' 6'>.'5''1.<>1.'?546' > J<.'>4'J.<1.':4 / ' <'?,41'=4 ' .55.' .67'E' 7.%

'N .'?1.,? <'<7'>. / '<>.'=4 5'6, 5'Q,457' 4<' '17 ;5.'?,41'; 67'7.1' ;6' >1, 76' >.6' ?'4-1.6' ' 6' 6.;,416' ?405 ;6I' 5' ?'1' 7 =4 5' < '' ?'6' 0 755' 54' '' -' 7 >.1< .1'?'1'J1'?:.'>4' 7 71.'?1. / .18'=4 '?,17.' W 5'6.1'' ;1..';7 ,1J'< 6.'4<' ;7'0066.1' .<7 J.<.1'5' 6.;,416' ?405 ;6'?,41'5.'6?45'J. / .<7 '?'4-1.6' <' E 1 / .6' .7>.6' ?'4-1.6' -'5 >.6' / '<=4'47'>.'71'-' 5% ,46' '-,<6'?5';>';.7'17 ;5.'>'<6' 54' #,<67 747 ,<' =7' 6.1'' 6'<6'>,47.' '466'>41'05.'=4.'5'' .;5'1'7 ,<'>.' >1, 76'> ,0' .55.'>>1 - .%

66. / 05>.''>,?7.'5'' >.5'1'7 ,<'>.6'>1, 76' 5.55' =7E.55.'.67'1'??,17>.'>'<6'5.'<D' C)%

8' - 'N .'?1,?,6.''''5''>.5 0.1'7 ,<'5''> 6?,M 6 7 ,<'=4 'E,1 / .'5.'?1.' / 045.%>4' 7 71.'?1. / .1%

W 66. / 05..'<'7 ,<'5.8' -,45'<7'>7'05 1'5'' #,<67 M 747 ,<' E1'<?' 6.'641'5.6' ?1 <; ?.6' =4 .55.' - .<7'>.'1;' ;,<<'571.' .7'>.'>.;5'1.18' '0,5 7 11. -,;'05. / ;<7 5.6' <67 747 ,<6' =4 ' 05.66' . 5' 5'' 5 0.17>' .7 .J'5 7.'>.6' >1, 76%

$' 5' <GV '' ?546'<'<,05.66.8'<'?' 1Q.8' <'> 67 <;7 ,<6' :>1>> 7' 1.68' <'1.J / .'! <'Q467 ;.6'?'71 / , ' '5.68' <''4;4<'>.6' 5 71.68'>.<, / <'7 ,<6' .7 ?1>1, ' J'7 -.6'=4' .<'>>1 -' .<78' <''4;4<'>.6',<>1.6'>.'.0.' -'5.1 .8';,1?,1'7 ,<6' ,4'>.;,1'7 ,<68'?,41'5.6=4.56' ,<' .@ J.' 7'>.6'?1.4-.6'>.'<,05.66.'<''4;4<.''471.' 64?>1 ,1 7>'=4.';.55.'>.6'E,<;7 ,<<'71.6' ?405 ;6'>'<6' .@.1; ;.'>.'5.<16'E,<;7 ,<6%

Y 5' <V '' ?546'<'-><'5 7.8' <' :.1>> 7>'>'4;4<' ,EE ;.'?405 ;%

Y '< V '' ?546'?,41''4;4<.'?'17 .'>.'5'' <'7 ,<<' ?,41''4;4<' <> - >4' '4;4<' ?1 - 5.J.'4'.@;.?7 ,<''4' >7= 7'., / / 4<'>.'7,46'5.6' H1'<J' 6%

[illegible]

%ʿ B ʿN ,46ʿ><-?O'"77' ; : .1ʿ5.ʿ?ʿ<6ʿJ1'<>ʿ <7, 1ʿ7
$5 71.ʿ?1. / .18ʿ, 5ʿ6.ʿ 71,4-. 78ʿ 6;5,Qʿ / , 8ʿ 0.'4ʿ
?ʿ >, / 66 ,<6%ʿ ʿ <.ʿ 64E5 7ʿ ?'6ʿ>.ʿ > 1.ʿ=4.ʿ5" 5,ʿ
J'1'<7 7ʿ7,<6ʿ5.6ʿ>1, 76ʿ<'741.568ʿ 5ʿ E'47ʿ =4 .55.ʿ5.6ʿ J'ʿ
1'<7 66.ʿ1..55.< .<7%ʿ # .67ʿ 5' 8ʿ ; .ʿ / .ʿ6. / 05.8ʿ =4.ʿ >, 7ʿ
6.ʿ?5' ; .1ʿ '17 ;5.ʿ =4ʿ?, 17.ʿ =4.ʿ 5.ʿ1, ʿ < ' 1" ?'6ʿ ;ʿ
>1, 7ʿ>.ʿE' 1.ʿJ1>; .%

ʿE'47ʿ> 1.ʿ,4.5=4. ; : ,6.'466ʿ641ʿ5.6ʿ?1 6.6ʿ" ?'17 .%ʿ
#1, 7 ,<ʿ=4.ʿ5" 5 0.15>ʿ>.ʿ5" ?1.66.ʿ 6, 5ʿ 0 .<ʿ'6641>.ʿ
?'1ʿ5" > 6?,6 7 ,<ʿ >.ʿ ; .ʿ 5 71.Zʿ " Q.ʿ -, 6ʿ5.ʿ?1 < ; ?.ʿ
>7'05 8ʿ ?546ʿ0'6ʿQ.ʿ -, 6ʿ5" 1.671 ;7 ,<%ʿ ,41=4, ʿ<.ʿ?'6ʿ
>. ;5'1.1ʿE,1 / .55.1'.<7ʿ =4.ʿ 5.6ʿ >J 65'74.16ʿ <.ʿ?,41ʿ
1,<7ʿ ?'6ʿ7,4; : .1ʿ " 5" 5 0.17>ʿ>.ʿ 5" ?1.66.Zʿ #.6ʿ,06.1M
-'7 ,<6ʿ6,<7>;ʿ5" >.1< .1.ʿ / ?,17'< ; .ʿ?,41ʿ : ʿ5 0.1 .ʿ
?405 =4.%ʿ 66. / 0 .ʿ-,4>1" 0 .<ʿ <.ʿ ?'6ʿ5.6ʿ?.1>1.ʿ
>.ʿ-4.%

%ʿ Iʿ .ʿ5 71.ʿ Dʿ< '66 1.ʿ1 .<ʿ641ʿ5" 5 0.17>ʿ
>,ʿ5" ?1.66.% <ʿ6.1.E.1.ʿ '4@ʿ5, 6ʿ6406 =4.<7.6%ʿ # .67ʿ
' <6ʿ =4 ,<ʿ?'15' 7ʿ>'<6ʿ '<; .<ʿ1.J / .%ʿ .6ʿ <J5' 68ʿ
?,41ʿ< '-, 1ʿ?'6ʿE' 78ʿ5,16ʿ>.ʿ5.41ʿ1.-,547 ,<ʿ ʿ>.ʿ5, 6ʿ
?,41ʿ '6641.1ʿ5" 5 0.17.ʿ>.ʿ5" ?1.66.8ʿ .<ʿ6,<7ʿ1, ' <7.ʿ
<'<7ʿ 1;>4 76ʿ " ; .77.ʿ .@71. < 7.8ʿ =4.ʿ 5. / < 671." 5.ʿ
6. ;1.7ʿ>.ʿE' 1.ʿ ; ,4>' / <.1ʿ '<ʿ ? 5,1ʿ4<ʿ ;1 -' <ʿ ?,41ʿ
'-, 1ʿ> 7ʿ=4.ʿ 5.6ʿ -' 66;'4@ʿ< >7' .<5ʿ?'6ʿ'1 / >6ʿ; .<71.ʿ Q
6?'J<.8ʿ / '76ʿ ; .<71.ʿ5" H1'< ; .%ʿ -.0 -,46ʿ>. ;5'1.ʿ
6.45; / .<7ʿ =4 ,1ʿ ?,411' 7ʿ 6 .@?1 / .1ʿ5 01. / .<7ʿ 641ʿ
5.6; : ,6;6Zʿ ;47 ,<ʿ6 .@?5 =<.1ʿ<.77. / .<7ʿ 641ʿ 7,47.6ʿ
5.6ʿ ';7 ,<6ʿ> ʿJ,4-.1<. / .<7Zʿ 7ʿ 5 .ʿ -,46ʿ ' ; ;46.1'ʿ
5 ,<?'6ʿ> ; -,45, 1ʿ>.714 1.ʿ5" E,1; .ʿ>.ʿ5" 5, 8ʿ.<ʿ>.-, ʿ
5'<7ʿ5.6ʿ / '5-.16'7 ,<6ʿ>.6ʿ / < 671.6Zʿ & <ʿ '??5'4> 7%P
ʿ / ʿN ʿ.67ʿ <47 5.ʿ> <6;1;1ʿ>'<6ʿ ' ;7.ʿ
; ,<67 747 ,<<.7ʿ>.6ʿ>.7' 56ʿ=4ʿ?,411' .<71' E' 05 18ʿ 5ʿ
64E5 7ʿ =4.ʿ 5.ʿ?1 < ; ?.ʿ>.ʿ5" 5 0.17.ʿ>.ʿ " ?1.66.ʿVʿ6, 5ʿ
>. ;5'1>ʿ ?,41ʿ =4 ,<ʿ <.ʿ>, -.ʿ?'6ʿ;1' <>1.ʿ>.ʿ5.ʿ -, 1ʿ
'57.1>% 34'<7ʿ'4@ʿ ;'6ʿ , ʿ 5.6ʿ?'17 ;45 .16ʿ>, -.<7ʿ>71.ʿ
?4< 68ʿQ.ʿ5.6ʿ1.J'1>.ʿ ; , / / .ʿ'??'17.<'<76ʿ'" 5" 5.J 65'M
7 ,<%ʿ .ʿ ;1' J<.0ʿ?'6ʿ=4.ʿ5.6ʿ5 J 65'7.416ʿ '<.'<5 66.<7ʿ
; .77.ʿ5 0.E7>8ʿ ?,41ʿ 5'=4.55.ʿ 5ʿ< V " .4ʿ =4 4<ʿ -..4ʿ8
'-'<7ʿ=4.ʿ-,46ʿ5" ; ,<6' ;1'66 .0ʿ?'1ʿ-,6>. ;1.76% .ʿ>.ʿ
/ '<>.>,<;5" =4.67 ,<ʿ?1.'5'05.ʿ641ʿ5.6; : '<J. / .<76ʿ
?1,?,6>61ʿ

Bʿ Iʿ .ʿ?'17'J.ʿ5.6ʿ'5'1 / 8Z6>.6ʿ?1.,? <'<76%
.ʿ#1' <6ʿ5.6ʿ'77. <7.6ʿ=4ʿ?,411' .<7ʿ 71.ʿ?,17..6ʿ" 5"
5 0.17.ʿ >.ʿ5" ?1.66.%%%Iʿ Q.ʿ / .ʿ1'??.55;ʿ=4.ʿ5.ʿ 5.<>.ʿ
ʿ / ' <ʿ >.6ʿ 71,405.6ʿ =4ʿ ,<7ʿ 'J 7;ʿ 5" ; '?7'7.ʿ ,<ʿ-,46ʿ
?1,?,6.ʿ>.4@ʿ'17 ;5.6ʿ=4 8ʿ6 56ʿ< '-' ;47ʿ.7;ʿ / ,> >%6ʿ
641ʿ 5.6ʿ ,06.1-'7 ,<6ʿ E' 7.6ʿ ?'1ʿ %ʿ >7 ,<8ʿ '41' .<7ʿ
?,17>ʿ" ; .77.ʿ5 0.17.ʿ 4<.ʿ'77; 47;ʿ'5'1< '<7.I
ʿ ʿN # .67ʿ 6'<6ʿ '4 .174 / .ʿ =4.ʿ Q;ʿ> 1' ʿ"
%ʿ .7 ,4ʿ .7ʿ " %K40,7ʿ=4.8ʿ6 56ʿ.7' .<7ʿ-.<46ʿE,17 M
E .1ʿ>.ʿ5.416ʿ,06.1-'7 ,<6ʿ5" > 6;466 ,<ʿ>.6ʿ; , / 7.6ʿ>.ʿ
; ,<67 747 ,<ʿ.7ʿ>.ʿ1.- 6 ,<8ʿ>, 7ʿ 56ʿ6,<7ʿ / .7<01.68ʿ 56ʿ
'41' .<7ʿ>?'1J<.ʿ" 66. / 05. ;ʿ ; .77.ʿ > 6;466 ,<%ʿ & <ʿ
'?cP5'4> 7ʿ>'<6ʿ5" ?'17 .ʿJ'4; : .%Pʿ ' 6; .ʿ< .67ʿ?'6ʿ?'1ʿ
>.6ʿE <6ʿ>.ʿ<,< 1; ; .-, 1ʿ=4 ,<ʿ>, 7. ; '17.1ʿ>.6ʿ,06.1M
-'7 ,<6ʿ=4'<>ʿ .55;6ʿ6,<7ʿ0,<<.6%ʿ '1 / ʿ ; .55.6=4ʿ ,<7ʿ
.7.ʿE' 7.68ʿ 5ʿ.<ʿ .67ʿ>.ʿQ467.68ʿ 5ʿ.<ʿ .67ʿ> <47 5.68ʿ 5ʿ. ʿ
.67ʿ>" >'<J.1;46.6% 34'<>ʿ ,<ʿ " > 7ʿ=4.ʿ<,46ʿ< '- ,<6ʿ
?'6ʿ>. ;5'1.ʿ=4.ʿ5.6ʿ5.J 65'741.6ʿ<.ʿ?,411' .<7ʿ?'6ʿ7,4M
; : .1ʿ " 5" 5 0.17.ʿ >.ʿ5" ?1.66.8ʿ ,<ʿ 6 .67ʿ71, / ?.%ʿ '1ʿ
7 ;5;ʿ?,17.N "5 0.17>" 7,47: , < / .ʿ>.ʿ?'15.18ʿ> > ;1 1.8ʿ
> / ?1 / .1ʿ6.6ʿ?.<6. ;68ʿ.7; %Iʿ<,46ʿ'-,<6ʿ> 7ʿ=4.ʿ ,<ʿ
6.1' 7ʿ1.6?,<6'05.ʿ>.ʿ 7,<6ʿ5.6ʿ'0468ʿ ; ,<Q / .ʿ >.ʿ 7,46ʿ
; .4aʿ=4ʿ?,411' .<7ʿ1.6457.1ʿ>.ʿ7,46ʿ5.6ʿ'471.6ʿ>1, 768ʿ
.Q4J. / .<7ʿ ?'1ʿQ41.8ʿ =4.ʿ-,46ʿ.7'05 1.0ʿ6'<6ʿ>,47.ʿ
?,41ʿ7,46ʿ5.6ʿ>.076ʿ1.5'7 E6ʿ" ; .77.ʿ / '7 ;1.8ʿ<.ʿ5' 66.1"
=\'6ʿ>.ʿ?1>7.@7.ʿ>4@ʿ?546ʿ ;J.1.6ʿ ;1' <5;6%ʿ 8
34'<7ʿ '4ʿ >1, 7ʿ>.ʿE' 1.ʿJ1 5; .8ʿ<,46ʿ ?.<6,<6ʿ =4.ʿ
>'<6ʿ7,47ʿ ?'V6ʿE 01.ʿ 5.ʿ >1, 7ʿ>.ʿ 7. / ?.1.1ʿ5" Q467 ; .
'1 .=4 7.ʿ>, 7ʿ .@ 67.1%ʿ '<6; .5" -,46ʿ<.ʿ?4< 1 .0ʿ?'6ʿ
.6ʿ / . / .6ʿ >>5 76ʿ >.6ʿ / / .6ʿ ?. <.6%ʿ %V " 4<.
*1'<>.ʿ> EE>1.<; .ʿ .<71.ʿ ; .54ʿ= ʿ" 74.ʿ4<ʿ0, < <.8ʿ>;ʿ
;6%-; <ʿ?1. / .> 7>8ʿ .7; ;54ʿ=4ʿ " 7'>ʿ"?1.6ʿ%'-,1ʿ .7.ʿ
?1,-,= .ʿ ?'1ʿ>.6ʿ'J1.66 ,<6%ʿ .ʿ>1, ʿ> >=4 7>ʿ >, 7

7ʿ6,54 / . 7ʿ.@ 65.1ʿ>'<6ʿ4?ʿ ; ,>.ʿ ;1 / <.5Iʿ / ' 6ʿ.65 ; .ʿ
'4ʿ1, ʿ=4 5ʿE'47ʿ1'75 04.1Zʿ ,6ʿ ; , / 7>6>.ʿ ; ,<67 74M
7 ,<ʿ.7ʿ>.ʿQ41 6?14>.< ; .ʿ ;1 / <.5ʿ5.ʿ,<7ʿ ;14ʿ=4 ʿ?,4ʿ
-' 7ʿ6.ʿE' 1.ʿ4<.ʿ ; , / 0 <' 6,4ʿ7.55.8ʿ.<71.ʿ ;6E,< ;7 ,<6ʿ
>.6ʿ 4J.6ʿ.7ʿ ; .55.6ʿ >.6Q41>68ʿ =4 ,<ʿ?,411' 7ʿ5.ʿ 5.41ʿ
1.< .771.%ʿ #.77.ʿ >..ʿ.67ʿ <; -.ʿ.7ʿ .67ʿ?'6ʿE,175 . .ʿ
?'1ʿ5.6ʿ5. ; ,<6ʿ>.ʿ .@?>1 .< ; .%ʿ 46'J.ʿ>.ʿ <J5.5.11;ʿ
.7ʿ ; .54ʿ>.ʿ / >1 =4.ʿ<,46ʿ-.17P66. 7>.<,4]>7 .18.7ʿ
6ʿ <,46ʿ.7 ,<6ʿ,05 J>6ʿ>.ʿ1. -.< 1ʿ" 5.41ʿ / ,>.ʿ>.ʿQ41.8ʿ
5ʿE'4>1' 7 <> 6?.<6'0 ; / .<7ʿ=4.ʿ5.ʿ>1, 7ʿ>.E' 1.J1 ; .ʿ
EE57ʿ 1. / 6ʿ'4ʿ 1, %ʿ .ʿ ?.<6.ʿ=4 5ʿ .67ʿ0,<ʿ>.ʿ1.<-,V.1ʿ
'4ʿ ; , < 7.ʿ .@' / ;<ʿ >. ; .ʿ 5 71.Iʿ 5ʿ 5.ʿ > 6;47.1" >.ʿ
<,4-.'48ʿ .7ʿ-,46ʿ?1>6.<7.1" 6.6ʿ-4.6ʿ ʿ5" 6.'4; .ʿ>.ʿ
>, / ' <%ʿ + " > 6;466 ,<ʿ .67'Q,41<..%
" 6.'<; .ʿ.67ʿ5.->.ʿ ʿ71, 6ʿ : . 1.6ʿ.7ʿ4<ʿ=4'17%

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ʿ 4(,$,6 *+." +8+*ʿ,+36(, /ʿ *(*%ʿ**ʿ)+,$ $ʿ,-(ʿ
TIʿ, **(+ 2/ʿ,. "# .ʿ ʿ) *ʿ0 $ $(./ʿ3 4,(ʿ(4 8(.ʿ(ʿ
"-D+ -ʿ4 +.ʿ -5 $4(.ʿ3 *0(*+) ((*,ʿ+*ʿ *9ʿ0 8+9(ʿ
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4*) $3ʿ5 (ʿ+ʿ' *ʿ3.$4,$ *ʿ5 D$ʿ+ʿ *0(.,(ʿ3)(Uʿ ʿ (+) ,-(/ʿ
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< ,4 ,+ʿ$,+ $(*
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@+$*) 9ʿK ≟ WPGʿ7W!>PW.6ʿ K Kʿ & 5 . RC
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,$ *" -(ʿBGIIʿ 0ʿ K / & K K & & K K K K K ʿ BFBG
+ʿ >. C5 -%ʿ5 6%ʿ % % G G G G G G D G D D G ʿ CʿU
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Vʿ -(ʿBWG $ $4*'/ʿ-(3ʿBHEFʿ K K /ʿBXʿB[E/ʿH[E/ʿP[Fʿ)/
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BTWX/ʿPI/PG/ʿDI/ʿFE/&/ʿFI PX

D'APRÈS LAMBERT.

Typ. Henri Plon. Réimpression de l'Ancien Moniteur. — T. IX, page 348.

Fr. Nic. Léon Buzot, né à Évreux, le 1er mars 1760, député d'Évreux à l'Assemblée constituante et du département de l'Eure à la Convention.

b B ',% 'B %

D WWW:' F 'BI' . 'BHTB/ +'<

#< 'K ' ! 5 # %

' ' 'Y ' ' ' +' E'H '< '6 -,V'J.'<7 .< !1.;.' '-.;' % H1'<; 6 .7 6 1 ! .1. / V .5;' / 0.' 'c\?1 7 5'' / ,1 _5.' 1'0.'4 ?'1 4<.' 7'17'<;' / ':' 6.% '' '5'> .'>.' 8 H,<7'<''5.6'V'<7 >.7.1 / <.6''1.5'G ;:.1'>'<6 ;.' ?,178 56 >.6;.<> 1.<7 >'<6 7.' 1>.'?,41 V - 6 7.1 5.6 / ,<4 / .<76 >.' ;.77.'?'17 .'>.'5'' ! 1.;.% '' 5'<7.1<;'>.' / ,67:.<.8 >,<7 '6 5.' .67 '4Q, 1> :4 ' 4< :,6? ;.'>.;'? ;7<68 5.41 <6? 1'%5.'>.66. <> .5.-.1 641;.77.' ;11.' ;.5.01.'4< / ,<4 / .<7 '' / / ,17.5 M 1'0.'4% V'<7 >,<.'1.5.->'4<.' ;,5,<<.'71,<= .'>.6 >.01 6 >4 7. / ?5.'>.' 4? 7.1 5V / ? .< 8 56 V '77' ; : ' 1.<7 4<.' ;,.'1>.'71 ;,5,1.''-.;',.77.' <6;1 ?7 ,< 641 5.' 67V5,0'7.' I ,' F ' ' $ > & ' % .5;, / 0.' 'Q,47'' '4 0'6 N K ' ' ' ' I .67 ' > 1.N '0 '1

! a%

'G & H' ' (' + < ' -' 7>,<<> ,1 ' >1.'> '1 / .1 71, 6%-' 66.' @ >.'5 J<.' .7 >.4@ E1 '7.6 I 4< <,4-.5 ,1>1.' 'E' 7 '1 / .1 .<;,1.' .6 71, 6 -' 66.'4@ >; 5 J<.' 64 -'<76 I 5.' ; '>.')U8 5. 4 8 >.'(U8 .7 5.' F '>.'9U .'<,<6%

.?4 6 5.' '>.' ;.' / , 68 ' W67?'66U ?'1 5.' 4?> U 9 '0'7 / .<76 >.'> -.16.6 <'7 ,<68 5''?54?'17 -.<'47 '>.' 5'' K'57 =4.%

' ;,417 ;' 4< 014 7 =4.'7,47.'5'' E5,77.' >.'J'5.1.6 1466.6 .67 .<71..'>'<6 5.'J,5E.'>.'H <5'<>.% < ?1.7.<> =4 ,471.' 5 U=4 ^\'J.' ,1> <' 1.' 5 6.'71,4-.' '0,1>'>.' ;.77.'E5,77.' (8 ' :, / / .6 >.'71,4?.6 1.J / .6%

%

'8 & ' 'Y (% + ' .' J.<>1'7 ?1 <;.'>.' K.?< < ''.<-,V>'5.'1'??,17 >.'5'' - ;7, 1.8 =4.'5.'5 .4M 7.<'<7J.<>1'5 a4740, ['1. / ?,17 .6 15.6 41;6.7 '1' 7'1.6 ?1.6 >.K'0'>'J:8 '4 ?1 <;.' ,7. / < =4 8 .< 6'' =4'5 7.' >.' ;, / / '<>'<7 .< ;:.E >.'7 '11'..'8 ''?1.M 6.<7.'' / ? 1'71 ;.%

'9% + . / ' < 5 1'<>1'71 ;.8%64 - .'>.6'' ;,418 6.' 1.<>1'' >.' ! 0'1 , b 5,' '' .7.1:,E8 ?,41 V ..>01.1 5'' E>7.'>.' ' <7 .11.' .7 ' <7 '45% Y

.'J.<.1'5 >.' ! ,4>, [76;:8 =4 ' .67 >.-'<7 <'?'8 '' .<-,V.' ; 4< ;,411 .1 '-.;'5''<,4-.55.'=4 ' ''0'754 4< ;,1?6 >.'71,4?.6 741=4.6 =4 ' .7' 7 -.<4 > 5 -1.1 ;.77.'?5';.N?546 >.' ' 4#;6,<7?.1'';.77.',;;'6 ,<% + ' ''?5';.'< ''?'6 7'1>.' ''6.'1.<>1.% .' -' <=4.41 '' E' 7 U8 '?1 6,<< .16% ,<7.6 ' / 4< 7 ,<6 >.'J4.11.' .7 5.6 -' 66.'4@ =4 ' 7' .<7 '' '<;1.'>'< '&.' ?,17 6,<7 7,1'0.6 '4@ / ' <6 >.6 'K466.6%

! B %

' '2' ' (* * < .66' .'>E.'-' <6 .EE,176 ;,<71.'5''1.-,547 ,<>4 ' / ' % < '6641.' / . / .'=4: <' ?'17 ' '-' 7 E,1 / .'5.';, / ?5,7 > .<5.-.1 5.'1, % .6 / .' 641.6 6'J.6 ,<7 6'0 . ' >.Q,4> .1''?.1E > .6 =4 5< ''.7 ' E' 7 '4;4<;'7.<7'7 -.% ''J'1>.'' 7.'>,405 .8 .7 .-. 5 .67 J.<.1'5% < .67 71'<=4 55.' / ' <7.77'<7% 34.5=4.6 5 0.55.6 ,<7 '466'?'14 ;,<71.'5''<,4-.55.' ;,<67 747 ,<% 4< > .4@ .67 <7 745.'

! %

'$ ' 'C' ((A^' < ?1 7.<> =4.'5.' ;0 / 7.' > 67.1:'6V .7E.'0'1,<>.'B.10.17 ,<5 1.;4 >.' . / ?.' 1.<1 E ,1>1.'>.'1.?'66.1 5.' '<40.'?,41'55.11.?1.<,1.' 6.6 <.J,; '7 ,<6 ' 67,-.I ,<%'Q,47.'=4.';.7 ,1>1.'5.41) ' ^ < ' .

'' .7.' .@?.> .'>.' '>,4.' '466 7>7 =4 ,< '' .4 '??1 6 5'' <,4-.55.'>.' '7 .67'7 ,''>4 1, '>.'H1'<;.I ,< '6641.' =4 .< ;,<6.=4.<;.' '1 / 67 ;.'6.1'' ?1,5,<J '>.4@ ,< 71, 6 / , 68 ' <6 '=4.'5''1.?1 6.'>4 ;,<J1.68 .7 =4.' 5.6 / < 671.6 '471 ;: .<6 6 J<.1,<7 6 / ?5. / .<7 5.' ' 1 '64 -'<7 5'' ;,<-.<7 ,<'>.' . ;:.<0'J08 6.' 1 ` .1 ' -'<7 '' - >.1'>'<6 4<.'< J,; '7 ,<?'17 ;45 .1;'5.'>EE.' 1.<> 641-.<4 7,4;:'<7 5.6 ?1.7.<7 ,<6 7.11 7,1 '5.6 >.' 5'' <' 6,< ;E 471 ;0.8 E,<>..6 641 5.' 71' 7> >.'K.5J1'>.' .56415.6<.J,; ' ?<'>6 () %

' / ' 6 ,<'< '' -4 >'<6 ;.77.' ; ? 7'5.'4<.'?'1. 55.N'EM E54.<;.'> 71'<J. 68Þ'Y7'5''?54?'17 6,<7 >.6 6. J<.416 ?,5,<' 6 =4 '?'1' 661' 7 >.7.1 E7 <.6 J V E @.15.41 >.' / 41.' I >.' ;.' <, / 01.' 6,<7 5.6 J , 1'4@ ,E, ; 8 K. [46 8 5'' ;, / 7.66.' K' / 6V6 8 5.' ?B<..' >' / '#R' ' 5,1 6 V.7 ?546 .416 '471.68 % F

' 7' +'% . / ?.1.41 < '66 67.1''?'6 '4@ a7.6 >4 ?1 <;.'>R 67.1:' % % % %''>,<< '0 .1 4<.''4> .<;.' ?405 =>.' ,4 6.' ,<7 71,4- 6 5.6 > ?47 6 >.'?546 .416 - 55.6 .7 , 47 5.';,1?6 > ?5, / '7 =4.%

A 70, A AG ' ' + .';, / 5.%>.' .1;V8 1J.<5.'4'.7 5.'J.<.1'5 >.'K1, [< 6,<7 ?'17 6 0<,? <.' 5 .<7 >.' ?'' ?,41 6.'1.<>1.' ''K14@.55.6 N ,< '771 04.' ;.'>.?'17 ?1.; ? 7.' '' >.6 / ,4-. / .<76 / 5 7' 1.6 ?,41 '?74V.1 5''1.<71..'>.6 . / J1'<76 E1'< ' 6%%#.'=4 ' ;,<' E 1 / .' ;.77.' >.' 4 ' V.4@ >.6 . / J1'<76 , 67 =4.'5.' 1, '>.' 4.>.'5.41 ''?1,E< 6 >.'1.-.< 1'07.<7>7 ''5''7.7.' >.' 98 ' 4 >, 6 ?,41 6.'Q, <>1.' '' '1' .'<, 1.I % % 4.>, .''E' 7 ?'17 1 ?,41 .<<.'8 5'' -. 75.'>.' 6,< >.?'178 % >.'H.16.<8 ;,5,<.5 >.'K,V'5 4 >, 6%%_' 5?'1' 7 =4.'5.6 1.E J .6 <.'<.J5 J.<71 .<?, 1 <=4 ' 7.1'5''<'7 ,< E1'<;' 6.% < ?1 .<>=4.'5.'1, '>.' 4.>.' ' ;1 7 ''6,< / < 671.' '' '1 6 5''5.771.'64 -'<7.N

,< ;:.1'0'1,< 7'.5 >.'B,567. <8 G 8

%%% '<6 5''?1,E,<>.''EE5 ;7 ,< =4.' / .';'46.'5.' / '0' :.41.4@.- <. / .<7=4'V .<7 > '11 -.1'41, '>.'H1'<;.' .7 ''6''E' / 55.8 'EE5 ;7 ,< =4.'Q.'<.?'17'J.'?, <7 6.45. ' / .<7 '-.;'7.46 5.6 6,4-.1' 4 8 / ' 6 6'<6 >,47.' .<;,1.' '-.;'7,47 ;.'=4 5V ''> / .6 J#< 1.46.68Q.'<.?7 6 =4.' -, 1 '-.;'1.J1.7 .7 6.<6 0 5 7 ';.'?1 <;.' 6 -.174.4@ 8 6 ' :4 / '5<8 6 0,< .76 ' <Q467. / .<7?.16 ;45 8 1.7,41 7.1 >'<65';'?7 - 7 ' ''5'=4.55.'6.6 64Q.76 1.0.77.65 ,<7 ;,<' >' / < 8 .7 > , ' 5 '-' 7 .4 5.'0, ;.<<>.'6 ;E''??.-% #, / / .'1.?1 6.<7'<7 > 4< ?1 <;.'=4 8 >41'<7 5.';,416 >.'6'' - .8 '6 .67 74> '=4 ''J'1'<7 1 ''6,<?.4?5.'4<.' 5 0.17 ' 'J. / .<7 1.J5 .'8 ' ;,<6.1-.1 ' c'' E, 6 5''71'<' =4 55 7#?405 =4..75''>J<7 '>.'6'' ;,41 77<.8Q '57.<>6 >.'-,46 =4.'7,47.6-,6 >. / '1;:.6 .< ;.77.',;;'6 ,<.. ' 1,<7 / .641..6 .5>1 J .6 641 / ,<;'1';7.1.';,<<48 5'' >J<7 '>4 71,<.'>.' ! 467'-.8 .7 6417,47 5. %6.<7 / .<76 >,<7Q ''7,4Q,416 7 ' ? <.71 '?WY 1 % % % & ''' .6 6, <6 '66 >46 51'' ;,<6,5'7 ,<6 =4.8 >'<6 ;.6 71 67.6 ;,<' Q,<;541.68 -,46 >,<<.1.0 '' <E,174< ' / ,<'1=4.8 <.' 5.6 1.J'1>.>'?'6 6.45. / .<7 ;, / / .' 4< / ,V. ' >.' / .' ?5' 1.8 / ' 6 .<;,1.' ;, / / .'Q4< >.-, 1 1 J,41.4@ '77'M ;:.' ''-,71.'?5';.% 8 8

#1'7 .<;,1.'4<.'64 7.' >.' -,6 >.-, 1.'=4.'-,4 '<.' ;, / / 4< =4 .08=4.'-,46<.71' 7 .08 .< -,71.'=4'5 7 '>.M / ,<' / 0'66'>.418 '-.;'=4 '=4.';.'6, 58 '' / , <6 =< 7 < V6, 7 '47,1 6 '?'1 ;'1, ' % #%E 01.% .?4E '5.' / '< ' E.67.'=4.';.'?1 <;.' ''5' 66 8 .< 6 5, J<'47 >.' '1 68 >.' ?4 6 =4 5 '' .7;' ;,<71' <7 > V1.7,<1<.18 6'' ; ?7 - 7 '.67 71, ?'<,7, 1.'?,41 =4 ,<'<.'>, -;'?'6 1.J'1>.17,46 5.6 ';7.6 =4 '?'1' 66.<7 .< 6,<'<, / ' ;, / / .''11'.E' 6 ?'1 5''E,1;.' ,4 64??,6 68 .7 ?'1 ;,<6.=4.<7 ., / .' 7'<7 <456 .7 >.'<,55.'-'5.<1% # ;67 ,<;' / ' [,5,<7.'5''?546 .@?1.66.'=4.'-,46 -,46 '067.< .0 >.'7,47.' ;,<E41.<;7 '-.;'5.' / < 671.'>.6 'E5' 1.6 71'<J.1;68 .7 =4.'-,46 <.

1 ?,<> .0'=4.'-.10'5. / .<7 "7,47 ;.'=< 5 -7/6 ;, / '
/ 4< =4.1'8 , 7 >.' 0, ';0.8 6, 7 ?'1' 1 7'8 >'<6 5"
E,1 / .'> ?5, / '7 =4.1' .7 ;.7?1>1.' .67 6'1 J,<1.4@ =4.8
=4'<>' / / .'>.6 ; 1;,<67'<;.6 <.6?.1..6=4 '641- .<'
7 1' .<7 ?'1'571' .<7 >.-, 1'5.' ; :'<J.18 -,46 <.'>.-.0
7.?.<>'<7?'6-,46?.1 / .771.'>.'?1.<>1.'=4.5=4.';:,6.'
741-,46 '-'<7>.'1.;.-, 1'>.6,1>1.6'457U1 .416 ,46
&7.-.0><'1.67.'-,46 1 J5.1'641'5.6>. / '1;:.6>.6'<71.6
' / 0'66'>.<168.76415,4764 -1..7 '??4V.1';.55.6=4 56
?,411,<7 E' 1.' .<E'-.<1'>.' #%
#.'6& <7 '5.6 6.'56 ,1>1.6=4.'Q ' .'"-,46>,<<.1'
?,41'5.' / , / .<7I / ' 68 .<-,46 ?1.6;1 -'<7 5"6.45.'1.M
J .'>.';,<>4 7.'=4';0'- .<<.'" / " > J< 7V8Q.'<.'>, 6
?'6 ,405 .1'5.6>'<J.16 ?.16,<<.56 '4@=4.56-,46 6.1.0
?.47 E 51.' . =\,69I .7 =4, =4 .< ,47.' '471.' ; 1;,<6'
7'<;.'Q.<.?4 66.'>,47.14<'6.?H' / , / .<7 >4' 1.6?.;7
=4.5 ,<?,17.1"'4';'1';7E.-. ';1.'>,<7Q.'-,46 ''1.'
-.748 <' / .67 0 .<?.1 / 6 7,47.E, 6 >'<6 ;.55. ; 8>.'
/ '77.<>1.' :7,47 >.'5" ?'17 > 4<'?.,?5.'=4' " ,69
?,17.1'6.6 / ' <6 ;,4?'05.6'641'5"?.16,?<.'>.'6,<4< M
=4.'6,4-.1' < .'<.'?4 6 .< ;,<6.=4.<;.'71,? -,46
1.;, / / '<>.1'> .- 7.1% 6, J<.46. / .<7 7,47.6 5.6 ,;;'M
6 ,<6=4';, / ?1, / .771' .<7-,71.'?.16,<<.' .5-,71.'> '
J< 7.%
'34.'>'<6 <7.1 .41'>.'-,71.' / ' 6,<7,47 '4<,<;.'
5.'>.4 ' .7 5"71 67.66.'I '4 >.:,168 ;,<E,1 / .0 -,46 6.4'
5. / .<7 " ;.6 5, 6 ''@=4.55.6 4<' / < 671.' .71'<J.1' ;67
,05 J.'>.'6.'6,4 / .571.% '77.<>6 >.'-,468 / ,< ;0.1'
0'1,<8 >4' ;,41'J.8>.'5" E.1 / .7.8 >.'5" ?14>.<;.'8 .7
0.'4;,4? >.' ?,<;74'5 7.' " 64 -1.' / .6 ,1>1.6I .7
;1,V.0=4.'Q.'6 671.6 6.<6 05.''4@?.1 56 ;7 '4@E>;:.41'
6.6 ;,<Q,<;741.6>,<7 -,46> .6 .<- 1,4<>%
41';.8Q.'?1 .' .4'=4 5-,46' 7 .<J"6' <7.'J'1>.8
J<>' 3 2
! %
' +' .' ?'15. / .<7 6.' 1'66. / 05.1" ?546 7,7
=4 " ,1> <' 1.8>4' / , <6 ';.'=4 ,<'6641.I , .67 ;.'
=4.'5"<>;.66 7> >.'-,7.1' >.6 6406 >.6 ?,41'E' 1.'E';=
'4@ >>?.<6.6>.' '1 / . / .<7 1.<>' .<. .7 71.6 ?1,0'M
05.% <'Q,<7.'=4.'5"E5,57.'>.' ? 7:.'>'>, 7 6.'6.?'1.1'
<;.66' / / .<78 .5=4.' '-' 66.'4@ >.'5 J<.'?1,E 7.1,<7
>4' ?1. / .1' -.<7 E'-,1'05.' ?,41' 6 #< >.7';:.1' .7 6.'
1.<>1.'" / ,470% +' < ,EE ; .1'>.'5"E5,4.8 -.<'<7
>.' ,176 / ,47:8 '11 -"5.' ''4'041.'4'>.' ' / 1'47.% '
'??,17' 7 >.6 5.771.6 >.' 5,1>' B ,,>8 =4' .67'77.<>4'
6,46 ?.4'>.'Q,416>'<6 5";'?7'5.% ' / 1'47 '"E' 7
?'66.1' " ,176 / ,47:'5.6E,<>6>.67<.6 '4?' . / .<7>.6
.=4 ?'J.6 5 ;.<; .68 -4' ,1>1.'>.'>6'1 / .1'?546 .416
-' 66.'4@I
<'1. / '1=4.'-.;'?5' 6 1=4J'>.?4 6 ((C'5.6E,<>6
?405 ;6< .5'Q.<7Q' / ' 6 / ,<7:6 '466' :'45'=4 56 5.'6,<7
'<Q<41> :4 % +' < '771 04.'5" / '<E.1.'-'<7'J.46.'
>,<7 5"< J,, '7 ,<"E7 7.1 / <.'' .7.160,41J% /G
? 1'71 ;.'" ;,<6.<7S8 > 7 ,<8 ";.'=4 5'E47 E' 7 4<'<,4M
-.'4' 71' 76 >.' ; / / .1;.'641'5.' ? .>'>.' ;.54' =4 ,<
5' 66" .@? 1.1'.<' ()9%
%
T '$ ' +' % ,1 '8 .<-,V '>.'5"1.?405 =4.'>.'
! .<.6 ?,41';, / ?5 / .<7.1' % % % 641'6,<'-.<. / .<7
'4' J1'<> >4;0.'>.' ,6;'<.8 - .<7 >.'1.;.-, 1'>.'6"
?'178 '?1.6 ';;4. 5 5.'?546 J1'; .4@8 4<.'1 ;:.'0'J4.'
?,41' ?1.6.<7 > 46'J.% .6<,4-.55 67.6 ,<5> 0 7.'=4.'
;.' / < 671.''-' 5 ?1,4-.'>4'1.7'1>'>'<66";, / / 66 ,<
?'1' 4<.' E'466.' >. / '1;:.'>.'<,71.';,<645'1 6 >'<7 "
! <.6I / ' 6 56 ,47 < J5 J.'> 'Q,47.1' =4.' 5.6 ,1>1.6
>.'5"#, /G ,<7 E' 7 1.<51.1';.';,<645'>'<6 6.6 / 7.6%
B %
K ' 0 ' ' ' '9 3 ' 'C*' (
<'?G;64 / ' 7 =4.'5";,41'67'7:,4>.1 .<<;'1.67.1' 5'
;'Q46=4 '4' / , 6>.6.?7. / 01.8 =4.' ,<'-' 5 <> =4

?,41'E' 1.'5.'-,V'J.' 'K.15 <I / ' 6 ;.' -,V'J.' "
'-'<; 8 .7 ; .67 "5"! ' ><' / , 6 ;,41'<78 ,47,47
?546 7'1>'>'<6'5.6 '?1. / .16Q,416'> ', 78=,.'5"?'
;.66.'> 1'<J.' .7 5.'?1 <;.'0 1 > 7' 1.8 6,<E 5686.'<
>1,<7 "5";,41'>.' 1466.% <'?1 7.<>'=4.'>.6-4.6I
5 7 =4.6 ,<7 >E.5.1 / < ';.'?1, / ?7>.?'17% < .EE.7%
?1 77; .66.'> 1'<J.';,<7 <4.'> >71.' / .'>.6 ;,<6
=4' J4 >.<7 5.' / < 67 1.'>.'K.15 <8 .7 5 / ?,17.'71,'
% % % >.<.'?'6?.1>1. <E54.<;.'=4 .55.''-' 5
6,<' E1.1.8 >4' 7. / ?6 >4' / < 671.' B .1700.1J8 ?,41'
?'6 / .771.'7,<6 K6 / ,V.<6.<,.4-1.'>.'6 '6641.1>.;'
=4E' 5.%1. / ?5';.% .6 ;'>.'4@<.'6.1,<7?'6 .?'1J1'
;, / 1'.' .<'J <K1'5 ,<'6 '?.1=, 5'=4.'5.Q.4<.'?1 <;."
1 > 7' 1.'< .67?'6 .@71K / . / .<7 ' / >'>4'?'17'?'71 '
< / 9 / .JK<K1'5. / .<78,<1.J'1>.., / / .'71.6'4.;.66'
6'<6>,47.'?,41'5"64 7.'>.'54' / '<'J.1'5.6 6.;,4 6
641K6 > 4<.'?4 66'<;.'=4' " >KQ"6'4- '4<.'E, 6 5.'6
7:,4>.1'7.<' ()(8 ! .6 ?1.;'47 ,<6 6,<7 .<;,1.'Q4'
K." ?'1' 5" E.1 / .<7'7 ,<-1' / .<7 ;,<6 >.1'05.8 '
6 '4J / .<7.'>.' Q,41' .<'Q,41' .<71.'5.6 >.4@?'17 6
/ 67.1>' / 8 641' 5'=<.55.' <E54.<7 <E< .<5 5.6 '
E' 1.6 >.'H1'<;.% '11.67'7 ,<'>4'Q< E' ?:1' / '";''
4>.'6.<6'7 ,<' .7,<<'<7.'>'<6;.'?'V6 ; 8 ; .65 '>
.<'Q, .'?,41'5.6 ?'71 ,7.68 .7 .< ;:'J1 <' ?,41' 5.6 6
7:,4>. .<6 I' 5 .67 -1''=4 5 ?'1' 7 =4 ,< "1.5';5
/ ' 6 6";,11.6?,<>'<;.'.7'<7 ;,<<4.' .7 <7.1;.?7.>
< .67 ?546 ";1' <>1.% ' .67 / ?,66 05.'>.'?. <>1.'
J 7'7 ,< , 5'6.'71,4-.'5" -B5.'> / 67.1>' / ' I Q% / ' 6%
> - 6 ,<>.'?'17'<V " .7K ?,17 .'"4<'?546 :'47 ?,'
;:'=4.'Q,41' ,< ;1' <5'=4 .55.'<V ;5'7.8 .7 5" / '^
71'741.'" 0.'4;,4? >.'?. <.'"V / ' <7.< 1' 5" ?,55
<'-' 5?1 6 :'0 74 5.''4';'E.'H1'<;' 6 >.';.77.'-
>.'5 1.' ' :'47.'-, @'5.6 ?'? .16 ?405 ;6 >.'H1'<;.8
>.?4 6 =4.5=4.'7. / ?6 5 V '-' 5 7'47> '4> 7.416 .7
;41 .4@=4.'5"1 .'.<.7' 7 ,06714..I ;:';4<'6 5.;'
6'57 .< =4.5=4.'E' < " ;.6 5.;741.6 ?405 =<.6 I .5
- .<<.<5 > .71.'>.E.<>4.68 .7 ,<" <7.1> 7 '466''
1 -..'>.'5"?54?'17 >.';.6?'? .168 ; .67G' > 1.';.4@'
?,17.<75.'?54J . / ?1. <7.'>4'?'715,7 6 / .% #.6 / ,V
>.'1 J4.41' 11 .<7 >.'?546 .<'?546'5.6 ; 7,V.<6 '77';'
?'1'5.416 6.<7 / .<76 .7 5.41E,154<.'46,17>.5'H1'<'
.7 5 .67E,17 ";1' <>1.'=4 56 < .<'#'66.<7 .<;,1.'"
/ .<7.1'5.'<, / 01.% 4' 1.67.8 5 < V " ?546 '4;4<.'
? ;.'>.'>,47.''4Q,41> :4 %=4.'5.' 1, '>.' 1466.%
?1 <;.66.'> 1'<J.' .7 5.'1, '>.' 4.>.'.7' .<5 > ';.'
?,41' ,?.1.1'5";,<71. 1 V,547 ,<E1'< ' 6.% .;,4'
/ '<=4.'?'1' .-.<. / .<7>.' '1.<<.6 N ,<' 1 7 0.'
;,4? ;'>.';.77.' 664.'8 =4' 71, / ?;'5.6 .6? 1'<;.6
<,6 '1 67,;1'7.6% "<,4-.55.'>.' '?5.6 6.;,<E 1 / ;'
?.4?5.'V .67 .< <6411.;7 ,<I 5 .< .67 >.' / . / .' >
=4.5=4.6 ;'<7,<6>.'5" 4 6J.8 1,' 6 <,46 <'-,<6 &
;,1.''4;4<6 > 7' 56 ?'17 ;45 .16% , <7 >.' ?' @ .<;'
.<71.'5" 466 .' .7 5.6 41;6%
&'< ' ' '% L ' ' ' ';
H # %
'? ' %
"> 671 0<7 ,<'>.'5" / ,74 ' .'>.;4 -1.8 .<.;<',
> '66 J<'768 6 .67 E' 7.8Q46=4 "?1 6.<78 " :>7.5
1 55V8 . 55. 4. >4 . / <5.% ,41' E' 1.'#.66.1'
<;,<- < .<76 '4@=4.56 .55.'>,<<' 7 5 .<8 .7 5"1.<7
?546'Q467.8 5" / 4<Q; ?'5 7 ' " ,07. 4' >4' / < 671.'&
;,<71 047 ,<6 ?405 =<.6 ;55.' .'E57 ' '-.< 18 Q
5.6 ;, / 7 6 >.6 =4'1'<7. << 7 6.;7 ,<68 >'<6 5" (
?,17 ,<' 1.5'7 -' '4' <, / 01.'>.6 ?'7 -1.6 >.';:';'
> .55.6%
.6 ; 7,V.<6 ,<7 .:' ;,7 6 =4.<;.' '-.17 6 =4.'
> 671 047 ,<'<.'6.'E.1"?5468 ' '-.< 18 . 55. 4. '
. / ?5.I / ' 6 =4 .55.'6.'E.1'8 ;:'=4.'Q,418 ";, / '
7.1'>4' / .171.>' '>4'?- 6.<7 / , 6 > ',E 7 (* 8 >7
5.6 ;, / 7 6 >.6 =4'1'<7. :4 7 6.;7 ,<68 ,7' 56 ?,

1,<7 6 '>1.66.1 ?,41 ,07.< 1'5" / ,<<' < >.' ; -1.8
=4 '5.41 6.1" >,<<E;' .< .; :'<J.'> ,66 J<'76%

* ' '8 5'. ' ' ; 8'8 - '8

@ 0 ' ' ' &' 'U' , .*F

.6 014 76 >.' J4.11.' ; ,41.<7 <,6 >.4@ >>?'17. ' / .<76 .7 <7 / >.<7 0.'7 ;,4? >.' / ,<>.I .6 '1 67, ' ;1'7.6 6,47 .<<.<7 ;.6 014 76I .7 .< 5.41 >,4<'<7 7,47.6 6,17.6 >.' ; ,45.%416 76 <.' / '<=4.<7 ?'6 >.' 71,4-.1 4< 71.6 J1'<>' ;1.> 7 "5" .' / ? 'J<.8 '4 ?, <7 =4 ,< V ; : .1; : .' "6.'>.E' 1.'>.6 '66 J<'76 "7,47 ?1 @% + ,6 ?1.?'1'7 E.'>.' J4.11.' E'-,1 6.<7 ;.6 014 768 .7 <,71.'- 55.6417,47V / .7 4<.' ;7 - 7.' ;, / <5.6 ' .<<. / ' .7' 7>.Q">.-'<7<,6 ?,17.6% ,71.1>J / .<7> '17 55.1 .' .7' 5 71,? E' 05.' ?,41 E' 1.' ; .6 71' -'4@8 <,6 ; 7,V.46 >.' 7,47.6 ;5'66.6 .7 .7'76 ?1>7.<7 >.6 6.; ,4168 .7 >. ' ?4 6 :4 7 Q,416 ,< <.' / '<=4.' ?546 >.' 01'68 ; .67 : 67, 1.' >4 #:' / ? >. '16 >.' '<<..' >.1< ' .8 .7 <,6 1; / ?'176 6.' J'1< 66.<7 >.' ;'<,<6 ; , / <.' 6 56 6,15' .<7 >.' >.66 ,46 7.11.% .6 : .1,6 > ,471. : < ; , / / .<; ;<7 " 6 .<<4V.18 .7>>6.17.<7 ?'1 0'<>.'N 5 .< '11 -.'Q,41<.55. <.<7 ; %

41.67.8 7,47 .67 E,17 71'<=4 55.8 .7 5 E'47 .6?.1.1 $=4.'5"< '< .1.'>,<7 5"H1'<;.'6.'?1.?'1.' " 5" >.E.<6.' >.J,47.1" 7,47.' '471.' ?4 66'<;.' >.' 6.' / 5.1 >.' <,6 'EE' 1.6 -; .7' 7 5.' / . 55.41 / ,V.< >.' <,46 '6641.1 5" ?' @% .6 .71'<J.16 =4 ' ?'66.<7 ,4-1.<7 >.' J1'<>6 V.4@ .< -,V'<7 7,47 ; .5'%

! %

: ! ' 0 *!

66. / 05>.' <'7 ,<'5.' 1. / .7 '466' 5.' >>?>7 >.' 5" #,<67 747 ,< '4@ .?,46.6 .7 '4@ / .1.6I / ' 6 V ' 7 5 4<.' 6.45.' 5, ' =4 ' 5.41 ?.1 / .77.' 4< 6.<7 / .<78 4<.' ';7 ,< 5 01.Z .6 .<E'476 =4 .55.6 ?1,>4 6.<7<.' 5.41 '??'17 .<<. 7 ?'6 N .?,4@ 8 E 7 5 / >/ .' .@71'-'M J'<7 8.< > 6?,6.I 5 .67 7,478 5 "7,478 5 ?,66 .'7,47 .5 ?.<7 7,47I 5 .67 6.45 >'<6 5" E' < 55.%

546 4<.' E. / / .' .67 / '5:.41.46.8 ?546 .55.' ;,417 >.'1 6=4.' " 6 .< ?5' <>1.8 ?'1;.' =4.' ?546 ,< 5" E' 7 6,45E1 18 ?546 ,< .67 ;14.5 Q '17 E ; .4@ .7 / . ; : '1 78 .7 =4 5 < V " ?'6 >.' 5, ' ; .17' <.' .7 ?1,1'?5.' ?,41 5" >. ' E.<;51.' >.' ,??1.66 ,<8 =4 .55.6 6,<7 7,47.6 .< E'-.41 >.' ;.54 ' =4 ' ,??1 / .%

.' >.6?,7 6 / .' / '1 7'5 .67 .<; ,1.' >. ,47 ; , / / .' 4<.' ? .11.' > '77.<7.%

"

' / .++ '

' ' ' F ' , ' '

' ' @ ' T'

' % ' N ,46 '-.0'1.<-,V>' '4 ; , / 7>' >.' ; ,<6M 7 747 ,< 5" ?.7 7 ,< >.' ?546 .416 '<; .<6 <>J, ; '<56 .7 / '1; '<>6 1.7 1>6 >4 ; , / / .1; .8 641 5" > E5 ;457>' =4 56 >?1,4-.<7 1.5'7 -.1'.<7 ' 5.41 >5 J 0 5 7>' '4@ ?5' ; .6 >.'Q4J.6 >'<6 5.6 71 04<'4@ ; ,<645' 1.6%

.5 1>6 >.' 5.41 H& ' .7 'V'<7 > 6; ,<7 <4> 7,47.6 'EE' 1G 8 56 <.' ?.4-.<7 >71.' 7.<46 E5.' ?1.<>1.'>.6 ?' ' 7.<7.68 =4, =4 56 ?4 66.<7 >71.'Q4J.68 '4@7.1 / .6>.' 5" 5, ' >.' ,1J'< 6'7 ,< Q4> ; ' 1.I ..?.<>'<7 ; .55.' =4 ' .7'05 7 5.6 ?'7.<5.6 ?,17.' =4.' <45 <.' ?,411" >71.' '> / 6 >'<6 5.6 71 04<'4@ >.' ; , / / .1; .' =4 5 <.' 6, 5 / 4< ' >.' 6" ?'7.<7.I ' ' .67 Q467.' ?,41 7,<6 5.6 <>J, ; '<76 ';74.55. / . ' .< ';7 - 7>I 5" Q'7.<7.' .67 5.'7 71.' = .5"5, ' .@ J.'?,41 =4 56 ?4 66.<7 .71.' / <1.: '<>68 <>J, ; '<76 ,4 0'<=4 .16% ' 6 5 <.' ?.47 >71.' <'Q467.8 <'1' 6,<<'05.' >.' ?.<6.1 =4.'>.6 '<; .<6 <>J, ; '<76 =4 8 '4 64 .7 '4 -4 >.' 5.416 ; ,5 ' 5.J4.68 ,<7=4 77>' 5.' ; , / / .1; .8 ?4 66.<7 '-, 1 '6]10

?.< >.' >.5 ;'7.66.' ?,41 ?1.<>1.' >.6 ?'5.<7.68 >'<6 5" 6.45.' 4.'> >71.' '> / 6 2 ; ,<; ,41 1 ?,41 5.6 ?5' ; .6 >.6 71 04<'4@ >.' ; , / / .1; .I ; .17' <.7<.<5 ,< <.' ?,411' 7 ?'6 5.41 ?1>7.1 > '471.6 -4.68 ?4 6=4.'8A<.' E' 6'<7 ?546 > 'EE' 1.6I 5.6 ?'7.<7.6 <> =4.1' .<7 < 7.<7 ,4 ,4 ' / 0 7 ,< > >71.' 546 Q4J.6I 4<.' 7.55.' 5, ' .67 <Q467.' .7 / / ,1'5.N $ $

<Q467.8 ?4 6=4 .55.' '664Q.77 ' " 4< / ? 7 ; .<"%=>' <.' ?.4 .<E ?'6 ?546 .< >71.' 7.<46 =4 '4 ;4< '471.' ; ' 7,V.<I ' 8 %

/ / ,1'5.8 ?'1; .' =4 .55.' .<5>-.' '4 ; ,77; ,<76 >.6 Q4J.6 >.' ; , / / .1; .'5.6 <.J, ; '<7Y 5.6 ?546 > 67 <J4>68 ; .4@ =4 ' ,<70 .< / >1 7.' >.' 5' ?'71 .' I; .4@ =4 ' ,<7 ';=4 6 0.'4; ,%4? > .@?>1 .<; .' .7 >.' 54 ? .1.6I ; .4@ =4 8 < 'V'<7 ?546 > 'EE' 1.6 8 ?.4-.<7>,< .1 7,47 5.41 7. / ?6 5 5" ; ,<; 5 '7 ,< >.6 'EE' 1.6 ; , / / .1; '5.6%

% ! ,6 < ?1>6.<7.'4< ?1,Q.7>.'>>;1.7=4 ' .67 '>,?7>' .< ; .6 7.1 / .6N

W 66. / 05..' <'7 ,<'5.8 '?E>6 '-, 1 .<7.<>4 5.' 1'??,17 >4 ; , / 7> >.' ; ,<67 747 ,<8 E.,<6 >.1'<7=4.' 5.6 '<; .<6 '<>J, ; '<768 / '1; :'4>6 8 0'<= .16 ;7 '471.6 >.6 J:>6 ?'1 5" 5, '>.'1,1J'< 6'7 ,< Q4> ; ' 1.8 =4 ' 6.' 6,45 1.7 1. 6 >4 ; , / / .1; .8 <.' ?, -'<78 ?'1 5.' E' 5 >.' ; .77.' > 6; ,<7 <4'7 ,<8 .71.' '664Q.77 6 " ?1. / 0 .' >.6 ?'7.<7.68 >>;1.7.' =4 56 6,<7 >5 J 05.6 .< =4'5 7>' >.'Q4J.6 '4@ 71 04<'4@ >.' ; , / / .1; .8 .7 .'< / , 6 = 5 56 <.' ?,411,<7 71.' .5.; 7.416%Y

\+ % H.1 / ,<7 ?1.6.<7.8 '4 <, / ' >4 ; , / 7> >.' 5" / '1 <.8 4< ?1,Q.7 >.' >>;1.7 641 5" ?,5 ; .'>.'5" <'- 8 J'7 ,< .7 >.6 ?,176 >.' ; , / / .1; .N 5 .67 '>,?7>' ' <6 ' =4 5 64 7N

\- ' %K ' + 8b .' " ' ' ' ' !! '

[illegible]

[illegible]

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[illegible]

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5 0 1'<76N -,46 -.11 .0 >;J1'<>.6 - 55.6 .< ;,1?6 >. ;, / <4<.'E' 6'<7>.6?.7 7 ,<68 =4 .55.6'??,55.1' .<7 0 .<7 7>.6>.5 0.1'7 ,<6% & <'??5'4> 7%P

E6. / 05>.>. ; >.= 5 < V "?'6 5 .4 ">. 0.1.1 67 1 5" ?1,?,6 7 ,< >. % K '40'7%

) .?1,?,6.> 'Q,47.1'4 ?'1'J1'?:.

P?,17.N "5 0.17>"7,47:, / 1'.>.?'15.18 > . .1 1.8 / ?1 / .18 ;.: / ,7N '6.6 ?.<6. .6%

66. / 0 . .'>,?7.;.77.?1,?,6 7 ,<%

% ! 4 7% < N -,46 ?5';.0 "5"64 7.>.6 '17 ;5.6 =4 - .<<.<7 >. -,46 71.?1>6.< .6 5" > 6?,6 7 ,< =4.-,46 ?1,?,6. 5 :,41.78 5 .< 1>6457.1"=4.5. ;,1?6 >J 65'7 E ;1, 1" ?,4-, 1?,17.1 '77. <7." 7,<6 5.6 '471.6 >1, 76I Q. >. / '<>. >,<.=4.;.77.1.6.1-. 6, 7 1.71'<;:>.%

34.5=4.6 / . / 01.6 <6 67.<7 ?,41 5.1.71'<;:. / .<7 >.;.77.> 6?,6 7 ,<%

% - N @' / <,<6 6 '>> 7 ,<=4. ?1,?, 6.<7 5.6;, / 7>6 ">.6 <;,<->4 .<768 .5 6 .55.< "?'6 =4.5=4. 47 5 7>% V ">.4@?'17 .6 >'<6 5.71'-' 5 =4 -,46.676,4 / 6I 6'-, 185.6 5, 6 <> - >4.55.6'<7> 1 .41;6 '4 J,4-.1<. / .<78 ?4 6 5. J,4-. / . / .<7% . 7 71.5Y1 =4 -,46 .676,4 / 6 ;,<6';1.5.6 5, 6'<7>1 .4 1.68 .7 ,< >.6 1.4<. .@?1.66 ,< =4 '6641.5" J'1'<7 . ;,<71. '046 =4.?,411' .<7 E' 1.5.6 >J 65'7 1.6% V ">,<.=4.5=4.47 R 7>'>'<6 5" > 6?,6 7 ,< =4 -,46 .67 6,4 / 6.I / ' <7.<'<7 V ' 7 5>.6 <;,<-.< .<76Z < > 7 =4. 6 < / > / .;5'46.<.6. 71,4-.?'6 "7,<6 5.6 5 71.6 ,< 64??,6;1" =4 56 <.6,<7 ?'6>J'5. / .<5 J' 1'<7 6% '6 5" / > / .;5'46.6.71,4-.1" '466 " 5" 5 < >. 5" 6.;,<>.?'17 .>. <,71. 71'-' 5N ;. < .67 >,<. = 1 4<.1.>4<>'<;.% .7 71.SWG .67 '66.0 ?1. . .4@?,41% '-, 1 0.6, 4 > 4<.J'1'<7 .6?>. '5.I .7 6 .55.< "?'6 > <;,<-><.<7 5 <pV "?'6 >. 1' 6,< ?,41 <. ?'6 ; / ?5,V.1% + "> 6;4666 ,< .67 E.1 / >.%

66. / 05>.'Q,47. '< 7 71. WG 5"> 6?,6 7 ,< 64 -'<7.8 '?1.6 ;. ?'1'J1'?:.I W "5 0.17> > '>1.66.1 <4@ '47,1 7>6 ;,<67 54. .6 >.6 ?>7 7 ,<6 6 J<>.6 <> - >4.55. / .<7%Y

& ! !

1

&

G '6 ;, / / .5"5 0.17><.;,< 6 67.=4 "?,4-, 1 E' 1.8 .7;%8 .7;%

66. / 05. .'>,?7;5,47.6 5.6 > 6?,6 7 ,<6 >4 7 5% DF 1'??,15.>'<6 <,71.<4 <>1,> : .18 '-.;5.6 '>> 7 ,<6 G; >.6646 .<,<;. .6% G

% :,41.7 E' 7 5.;741.>4 ?'1'J1'?:.64 -'<7 >4 5 71. D1%

GY 'E #,<67 747 ,< J'1 <7 5 <- ,5'0 5 7> >.6 ?1, ?1 .7>68,45" Q467..7 ?1.'5'05. <>. / < 7> >.;.55.6 >,<7 5" <>;.66 7> ?40E =4.8 >J 5. / .<7 ;,<67'7>.8 .@ J.1' 7 5.6';1 E ;.%Y

C) N .>. / '<>.=4 ,< V 'Q,47.;.6 / ,76N W 55.J'1'<7 7 ;J'5. / .<78 >'<6 < 7>1 .41>4 1,V'4 / .8 5" E 01.; 1;45'7 ,< >.7,47.6 5.6 ?1,>4;7 ,<6 >4 7.11 7, 1.%$

< ,06.1-. =4 5 .67 <47 5.>.1. ?.7.1 7,47.6;.6 ?1,?,6 7 ,<68 >.Q" '>,?7>.6 ?'1 66. / 05>.%

66. / 05>.?'66." ,1>1.>4 Q, 41 641 5" ?1,?,M 6 7 ,< >. % ' / / .1- 55.%

% 6N #.67 ;'5. / , / .<7> >7'05 1 4<>.6 ?546 J1'<>6 ?1 <; ?.6 >.5 Q.17>8 >. / >1 7.1 ;.?'V65. ->1 7'05.<, < >.?'V6 >.6 H1'<;6% < ?,4-' 7 Q'> 68 / ,V.<<'<7 5.>.?#7 > 4<. / ,> =4. 6, / / ." ' / 1'45>8 ' / .<.1 .< H1'<;.>.6 .6;5'-;6% >7' 7 4<. '471. ;,<-.<7 ,< E' 7. .<71.7,46 5.6 6,4-.1' <6 >. 41,?.8 =4 >7' 7 0.'4;,4? ?546 1.>,47'05.% 556 L,45' .<7 =4 4< / '5:.41.4@8 ?,4164 -'?'1 5.>.6?, 7 6 / .8 6 5 ?'66' 7 .< ?'V6 >71'<J.18 E>7 1.<>4'4 7V1'< =4 5.1>;5' / ' 7% & < .<7.<> =4.5=4.6 / 41 / 416 .7 =4.5=4.6 '??5'4> 66. / .<76%P

% #46 6 N .>. / '<>.=4. ,? <'<76, 7 1'??.5. " ,1>1.% % G

% ' N ,06.1-." % ' .6 =4 5 ?'1,5.=4.641 5.?'1'J1'?:.=4 - .<7 > .71.54 ?' % :,41.7%

% N .>. / '<>.=4.7,47 :, / / .<,<5 0 =4 '77. <>1" 5.7.11 7, 1. E1'<;' 6 1.67. 11;-,;'05 / .<7 5 01.% & < / 41 <41;8 ,< '??5'4> 7%P

66. / 05>.?'66." ,1>1.>4 Q, 41 641 5" ?1,? 6 7 ,<>. % '5.6%

% 9C N .64 6 ,05 J>>.1.J'1'>.1;,< / 5546, 1.5" J'1'<7 . .@?1 / . . >'<6 ;.6 '17 ;5.68 7' =4. 66. / 05>.< V Q, <>1" ?'6 4<.5, =4 .@?1 < =4. 7,47 ; 7,V.< =< .?1,4-.1" =4.5=4. <Q4%67 >'<6 6" ?.16,1 <.,4 >'<6 6.6 0 .<68 >.5" ?'17 > 4 / 4< ; ?'5 7> ,4 > 4< ;,1?6 '> / < 671'7 E8 '41"5.>1, >.5.6 ?1.<>1." ?'17 .%

.6 / 41 / 41.6 >7,4EE.<7 5" -, @>; % > B'1' / 041 '17 ;5. .67 >>;1>7> ' <6 =4 5 " >7> ?1,?,6>?" % 5.1'??,17.41% G

% - N '17 ;5.64 -'<7 .67 ' <6 ;, E4 $ .6 0 .<6 >.67 <.6 " >.6 6.1- ;.6 > 47 5 7. ?405 =4 '??'15 .<<.<7 " 5" <'7 ,<I ;.4@ =4 >7' .<7 'EE..7> '4@ >>?.?6.6 >4 ;457.6,<7 "6" > 6?,6 7 ,<%G , 5" 1' 6,< =4 <,46 ">.7.1 / <.6 " ?5';.1 ; ;.7 '15 ;0 '<6 5.?'1'J1'?:.?1.;.>.<7 ,< J'1'<7 7 ;,<65 7 7 ,<<;55; / .<7 <- ,5'0 5 7> >.6 ?1,?1 ;7.6% L, '-.0 1; / '1=<>% '046 =4 ,< ">.Q"E' 7>.;.?1 <; < >'<6 5" > 6?,6 7 ,< =4.-,46 '-.0 E' 7.>.6 0 .<6 ; >.-'<7 '5E.;7.6 '4 ;5.1J.% .67 >,<. <>. .66'1.& E @.1 / ?.15 10'05. / .<7 5.6 >. .68 .7>.>. ;5'1.1 = 5.6 0 .<6 '5E.;5.6 '>.6 6.1- ;.6 > 47 5 5E ?405 = 6,<7 " 5" <'7 ,< .7 ?,41 5" <'7 ,<%

% - I .>. / '<>.=4 '4 5 .4>.>1. A !! .7;%% ,< > 6. .<7.1 / .6 J >1' @8 '??5;'05.6 " 7,465.6 . JZ ! 8 .7;% '6 Q. ;1' <6 =4.6 -,5 ;, / ?1.<.0 >'<6 ;.7 '17 ;5.7,46 :6 ,0Q.76 > 45 5 ?405 =4.8 6'<6 .@;.?7 ,<8 ,< < '046.>;.?1 <.Q ?,41 6 . / ?'1.1 >.6 .7'05 66. / .<76 E' 76 ?'1 5.6 ;,< / 4<.6 >'<6 4< 047 =4.5;,<=4.> 47 5 7. ?405 =4.%

% - N .6 .@?1.66 ,<6 >'<6 ;6 Q<.55. ?'1'J1'?:. .67 1.> J. / . ?'1' 66.<7 .@?1 < .1 ?1 <; ?.8 .7 >71. ?'1E' 7. / .<7 >'<6 5.67V5.>. #,<67 747 ,<% ,46 < .<7.<>,<6 >'<6 5" #,< 747 , ?'1 ,0Q.7 ,0 1 8 =4, 5.6 ,0Q.76 & <,< ?'6 > 7 5 7. 5 V ;, / / 4<.6 6,<7 ;,<6 >. 1>.6 ;, / / .>.6 <> - >46%

% 4 N .;1, 6 =4 .8 >'<6 5.?'1 J1'?:.=4 -,46 .67 ?1.6.<7.8 ,< E' 78 .<71.5.6 0 .N >.67 <.6 ">.6 6.1- ;.6 > 47 5 7. ?405 =4 .8 .7 5.6 0 . >.67 <>6 '4 ;457.8 4<. > EE.1.<;. / '5 ?5';;.I ,< =4.5.6 ? . / .16 5" <'7 ,<8 .7 = 5.6 '471.6 6,<7 "6" .;1, 6 =4,7,46 '6 ?'17 .<<.<7 .J'5. / .<7 " 5" <'7 ,<8 .7 >, -.<7 E7 .J'5. / .<7 "6"> 6?,'7 ,<% & < '??5'4> 7%P '55;4 Q.?.<6. =4. 5"> 6?,6 7 ,<>.;.7 '17 ;5.<. >, 7 ? E 71.; 1;,<6;1 7.'4 ?'66.% '<6 >,47.-,46 <.;, 6.1-.1.0 ?'6 ?,41 '-.< 1 46'J.>.6 E,<>'7, ?.1?. 74.55.6I -,46 ?.<6.1.0 =4 5 <'??'17 ;<7"'4; :, / / .>.?1.6;1 1." 5" 6,; ; ;4< 46'J.F?.1<. 5 7 .5 .7'05 66. / .<7 .@;.55.<7 '<Q,41> :4 ?.47 ; .-;, .< ;.<7 '<6 0.'4;,4? / , <6 47 5. ,4 / ; / .<4 6 0 <6 8 7,47.6 5.6 E, 6 =4.>.6 0 .<6 = .5;,<=4;6 6, >.67 <.6 " 47 5 7. ?405 =4.8 5"6,; .7>>, 7 6.1.6.1- 5.>1, 7> .<> 1 J.1 46'J.?,41 5" ?546 J1'<>.45 5 7E ?405 =4.% , >>,<.5" 1.>';7 ,< =4.Q.?1,?,6 $ .6 0 .<6 =4 ,<7 .7. ,4 =4 6.1,<7 >.67 <.6 "> 6.1- ;.6 > 47 5 7E ?405 =4.8 ' <6 =4.;.4@>.67 <.%IN ;457.?405 ;8 '??'17 .<<.<7 " 5" <'7 ,<8 .7 6 ,<78 >" 7,46 5.6 7. / ?6 "6"> 6?,6 7 ,<% G

%3 N .>. / '<>.%? 5 6, 7 'Q,47.;.61 ,5 W 5" ;:'1J.?'1 >.>;6'5'1 .1 5.6 E,<;7 ,<<'1 ?405 ;6 >4 ;457.001. / .<7 E 546 ?'1 5.?.4?5.IY 6" ;.5" 5.;5.1J.< "?546 > .7'7 &=4.5=4.6 / . / 01.6 '

?5'4> 66;<7P .7 ;6 / '5-; 55'<76 ,<7 4< <,4-.'4 ?1.
7.@7.'>.';'5, /< .1-,71.'#,<67 747 ,<%
9 'N ''E' 7 : .1' '4 ;, / 7> >.
;,<67 747 ,<5''< . / .',06.1-'7 ,<8 .7 5 ''>7>;,4-.<4
=7 5V '41' 7 ,<.';,<E.1.<;.'';'64Q.7%
'- 'N '<.6.1,05.=4.' 66. / 05>.<.6 ,?
?,6.'?'6'';.'=4.';.77.';,<E.1.<;.8=4'?.<7 '-, 1>.6
1.6457'76 E'-,1'05.68 ?1>- .<<.' 4<.' > 6;466 ,< >,<7
. / , / .<7 > ' 55;416 < .67 ?'6 ,???,174<8 ?4 6=4.
<,46 <. <,46 ,;;4?,<6 ; =4.' >.' 5'' J'1'<7 . >.6
>1, 76 <'741.56 >.6%; 70V.<6% 34'<7 '' 5'' 1.>';7 ,<
?1,?,6>.'?'1 % ' ,; .E,5 ;'4578 .55.' / . ?'1' 7 .@
cP1 / .1'?'1E' 7. / .<7 0 .< ,?< ,<>4 ; , / 7>>.';,<6M
7 747 ,<% ,46 < '-,<6 ?'6 .<7.<>4 / .771.' 4<.'> EE.M
1.<;. .<71.' 5.' ?1 <; ?.' J.<.1'5 .7 '??5 ;'7 ,< =4
>, 7 . '>71.'E' 7.' '4@0 .<6; >.-'<7 'EE.;7.6 '4 ;5.1J.%
'4 2 ';L!' !& !'+#!(' ! ! !' !& ''
!')# ' #) (' !' = !' #' ! ! '
! % >!' :'',) &! ' #) & !
% 'N , 8Q.'<Q ,??,6.'' ;.'1.< , % ' 6 'J 7
>'<6 ;.'?'1'J1'?:.'> 4<.'->17.'6,5.<<.55. / .<7 ;,<
6';1;.'?'1'5.6 >.;1.76 >.'H 66. / 05>.' <'5 ,<'5.8 > 4<
?1 <; ?.' 641 5.=4.5 1.?,6.'5.' ;1>> 7 ?405 ; .7 6'5''
?1,?,6 7 ,< >.' % #' / 46 ?.<7 4< <67'<7 >01'<5.1 5.
;1.> 7 ?405 ;8 .55.'>, 7 >71.'E,1 / .55. / .<7 1.Q.7..%
% 4 2 'N .'4.;,<7.67.?'65.'?1 <; ?.'>.' '17 ;5.
/ ' 6 -, >'?,41=4, 'Q.'>. / '<>.'5.'1.<-, ''4 ;, / 17.N
'1'5.'>>;1.7 >4 C <,-. / 01.' C)* -,46 '-.0 > 7 =4.
;6 0 .<6 >4 ;5.1J.' .7' .<7''5''> 6?,6 7 ,<>.'5''<'7 ,<8
& A 0
2
&* 4Q,41
> :4 ' ,< 6; <>.' ; .7 '17 ;5.% .'6,47 .<6 =4 5 >, 7 >71.
1'??,17> >'<6 6,< .<7 .18 .7 1 .< <.' / .' ?'1' 7 ?546
14 6,<<'05.'=4.'>.'5.'1.<-,V.1'2 4<.' <,4-.55.'1.>';M
7 ,<8
% N>7 .'<.'?.<6.'?'6 =4.'5.'1.<-, '>.' '1
7 ;5.'6, 7 <>;.66' 1.',4 ;,<-.<'05.% '17 ;5.'1.<E.1 / .
>.4@ > 6?,6 7 ,<6 1 5'' ?1. / 01.8 =4.'5.6 0 .<6 >.67 <.6
''>.6 6.1- ;.6 > 47 5 7.' ?405 =4.'6,<7 '' 5'' <'7 ,< 5''
6;;,<>.8 =4 .55.' '' ?'1. 55. / .<7 5'' > 6?,6 7 ,< >.6
0 .<6 =4 ''??'17. ' .<7 ; >;-'<7 '4 ;5.1J.8 ,4 >,<7
7 '-' 5 '4 / , <6 5''Q,4 66'<;.' 464E14 7 01.% ,45;0
-,46>5.-.1 >.6 > E5 ;457.6 6 1 4<.' .7 '<71.>.;.6
> 6?,6 7 ,<6 8 -,46 .01'<5.0 5.' ;1.> 7 <'7 ,<'5 >'<6
6.6 E?<>. / .<76% ' -,46 5' 66.0 5.' / , <>1.'>,47.'641
;.7 '17 ;5.8 Q.' <;' > 6 ?' ' ?.<>'<7 >.4@ Q,4168 / ' 6
?.<>'<7 >.4@ :.41.68 -,46 ?,17.0 4< ?1.Q4> ;.'>7.1
<.5 '4 ;1.> 7 >.6 '66 J<'76% #.?.<>'<7 1' / .<>. / .<7
7 ; % ! , / 5P;17 ?.<7 [.'Q467.'.<4<'?, <7 . .67 =4 5
E'47 & 7'05 1 ; ,<67 747 ,<<.55. / .<7 =4.' 5.6 / < 671.6
>4 ;457.'>, -.<7 >71.' .546 ?'1'5.'?.,?5.% ' E'47 6'<6
%>,47.' '466' '6641.1 '' ;.6 / < 671.6 5.41 6406 67'<;.'
/ ' 68Q;'-,46 5.'>. / '<>.8 / .751.0 -,46>'<6 5'' #,<6M
7 747 ,< =4.'5.6 '> / < 671'7.416 6.1,<7 ?'V.6Z ,41M
=4, '?'17.1 .0 -,46>.6 6.476E,<;7 ,<4' 1.6 >4 ;457.Z
K'<6 7,46 5.6 ;'68 6 '5.6 0'6.6 >.'5'' ; ,<67 747 ,< ; - 5.
>55 ;5.1J.'>, -.<7 E' 1.' ?'17 .'>.' 5'' #,<67 747 ,<8
>5.6 5 .'>, -.<7 ?'6 >71.' <6.1..6 >'<6 4< 5 71.' ,4 5
%6 'J 7 4< =4. / .<7 >.' 5'' J'1'<7 .'>.6 >1, 76 <'741.56
;7; - 56>.6; 7,V.<6%
% '<Q4 <' 6 >. / '<>.' ''1.?,<>1.%
E 66. / 05>;'E.1 / ;'5''> 6;466 ,<%
.6 ?1,?,6 7 ,<6 >.' % ! , / 0.17 .7 #' / 46 6,<7
>;'17..6 ?'1 4<.'>.; 6 ,<>.'?'66.1 '' ,1>1.'>4 Q,41%
.'?'1'J1'?:.'.67 '>,?7>'>'<6 5''1.>4;7 ,<64 '-'<7.N
W .6 0 .<6 >.67 <.6 ' @ >.?.<6;6 >4 ;457.'.7 '' 7,46
% 6.1- ;.6 > 47 5 7.' ?405 =4.' '??'17 .<<.<7 '' 5'' <'7 ,<
6 6,<7 >'<6 7,46 5.6 7. / ?6 ''6''> 6?,6 7 ,<% '' #,<6M
7 747 ,< J'1'<7 7 5.6 '5 .<'7 ,<6 =4 ' ,<7 >7> ,4 =4 '6.M
1,<7 E' 7.6 64 -'<7 5.6 E,1 / .6 .7'05 .6 ?'1'5''5, %Y
% ,41.7 5 7 5.' ?'1'J1'?:.'6406.=4.<7% ' .67
' <6 ' ; , < ; 4N

'' ! ! !! = '# ' : !&! =! ' !'
' # ' !' # =!&! ' ! ' #% ! '
&! ' ! ' ! ' #'' ! '% ! ' & + ' !' % 'P
; '7 .;1, 6 =4 5 E'47 >,<<.1 '' ;.7 '17 ;5.
?546 >.' / ,1'5 7> .7 ?546 >.6,5.<< 7>I Q;' >. / '<>.
=4 5 6, 7 ' <6 '# 3 'N '' <'7 ,<1.J41>.
;'6,45'J. / .<7 >.6 ?'4-1.6 <7 1 / .68 .7;%
% & 'N .'>. / '<>.'=4.'5.6 > 6?,6 7 ,<6>.';.7
'17 ;5.'6, .<7 >7.<>4.6 '4 6,45'J. / .<7 >>''4@ .<E'<76
71,4->6% #.6 >71.6 <7.1.66'<76 ,<7 >.6 >1, 76 <;,4
7.67'05.6 '4 6.;,416 >.'5''6,; ;7.%
'3 ' / % ('N .';1, 6 >.-, 1'1' ,??,6.1 '' ;.7
' <.<>. / .<7% ,46 <.'>.-,<6?'6 64??,6.1 >'<6 <,71.
#,<67 747 ,< =4 5 .@ 67.'>.6 ?.1.6 '66.0 >.<'741.6 ;7
>.6 / .1.6 '66.0 0'10'1.6 ?,41 '0'<>,4<.1'5.416 .<M
E'<76% 34'<7 '' ,06.1-'5 , '>.' % K'0'478 ,<> 1' 78
'' .45.<>1.8 =4.'5''<'7 ,< 6;'1.<>'>>0 71 ;.'?'1'?41.
J.<.1,6 5.I E' 6,<6 5'' ?'15.1 ;, / / .' '#,<-.K7% .
?1,?,6.'5'' =4.67 ,< ?1.'5'05.' .7 64 ' > / .<>. / ;<7
>. F '0'478 .7641'5 '< .<>. / .<7'4=4.56 <7.1.%66.
6 'E,17 % K'1101.%
% ' 'N ' <7 <;.<7 >.' '45 .67 5.E,<>'7.41
>4 ?1. / .1 : , 6 ; .'>.6 .<E'<76 71,4->6I ;.7 ';7.' >.
0 . E' 6'<;.'54 ' '' / 01 70 5'' 1.;,<<' 66'<;.'> 'J.<1.
:4 / ' <% .' >. / '<>.'=4.' '17 ;5.' 6, 5 1>> J> ';.6
7.1 / .6N
'6.1'' ;1.> .7 ,1J'< 6> 4< >7'05 66. / .<7 J.<. 1'5
>.' '.5.-.15.6 .<E'476'0'<>,<<.68
6,45'J.1'5.6 ?'4-1.6 <5 1 / .68 .7 ?1, ;41.1 >4 71' -' 5
'4@ ?'4-1.6 -'5 >.6%G + #.77.1.>'.7 ,< .67'>,?7..%
% :?41.7 E' 7 5.;741.'>.' '17 ;5.'>.14 .18' <6
;,434I 8
W '6.1'' .1>>.7 ,1J'< 6> 4<.' 1
;, / / 4<.' '' 7,46 5.6 ; 7,V.<68 J1'74 7.' '' .J'1> >.6
?'17 .6 > .<6. J<. / .<7 <> 6?.<6'05;6 ?,41 7,46 5.6
<, / / .68 .7 >,<7 5.6 >7'05 66. / .<76 6.1,<7 > 671 04>6
J1'>4.55. / .<7 >'<6 4< 1'??,17 #, / 0 <> ' -.;'5'' &E -
6 ?''>4 1,V'4 / .8Y
'1 'N .'.1, 6 =4.'.67 4<.'>.77.'>.'5''<'7 ,<
>.'?1,;41.1'7,46 5.6 ; 7,V.<6 4<.' <6714;7 ,< J1'74 7.
?,41'5.6 ,0Q.76 <> 6?.<6'05.6I / ' 6Q.'>. / '<>.'=4 ,<
'> / .7E.' '466' '' >.6 6.;,416 J1'74 768 ?,41 >.6 #,<'
<' 66'<;.6 ?546 1.5.->;68 ;.4@ >.6 64Q.76 =4 8 ?'1 >.6
.,<;,4168'41,<7>7> 1.;,<<46?,4-, 1'E' 1.?'17'J.1
'' 5''<'7 ,< 5.'E14 7 > 4<.'>>4;'7 ,<?546 .7.<>4.%
' 4 ' 'N '<6>,47.>446 5'' >J 65'7 ,<
-,46 71,4-.1.0 ;,<-.<'05.' > >7'05 1 4<.' >>4;'7 ,<8
J1'74 7.' ?546 1.5.->.'?,41'5.6 Q.4<.6 ; 7,V.<6 = 5'6 .<
/ ,<71.1,<7 > J<.6V / ' 6 Q.'<.';1, 6 ?'6 =4.'>'<6 '5''
#,<67 747 ,< -,46 >.- .0 J'1'<7 1 '4@ ; 7,V.46 '471.
;:,6.'=4.1>>4;'7 ,<<>..66' 1.' '7,46 5.6 :, / <.6%
'! 'N ''#,<67 747 ,< '' J'1'<7 '5.6?1,cP1 >7.6I
5 ;< .67 4<.' 0 .< ?1>; .46.I ..67 :,<<.41% ,46
'-.0 >.; >.'=4.' 5.6 / > / .6 >.076 6.1' .<7 ?4< 6 >.6
/ > / .6 ?. <.6I / ' 6 5 -,46 1.67.'44 J1'<> ?1>Q4J> ''
.7. 4>1.% .'>. / '<>.'=4 5 6, 7 > 7 =.4Q' / ' 6 5.'05' / .
> 4<>>5 7 <.'?,411''>71. / ?47>'4@ ?'1.<76 >4 / '5
E' 7.41%
% & 'N 5 / .'6. / 05.=4.5''> 6?,6 7 ,< =4 ,<
?1,?,6.'< .67 ?'6 >.' <'741.' ''71,4-.1'?5';.'>4<6 5''
#,<67 747 ,<8 '4 / , <6 >'<6 5.'5 71.'>,<7 5 6 'J 7Q; .67
'' 5'' >J 65'7 ,<2 .7. <>1.'4< ?1>Q4J.=4 '<.'?.4 '>71.
=4.' / ,< .<7'<>%
66. / 05>.'?'66.' '' ,1>1.'>4 Q,41% 8
'15 ;5.'?1>6.47.'?'1 % : 41.7 .67 >>;1>7>
% :,41.7 5 7 '17 ;5.' D '>4 5 71.' '1.5'7 E Z 5''
> - 6 ,< >4 1,V'4 / .' .7 '' >7'7 >>6 ; 7,V.<6I ;.7 '17 M
;5.'.67 ' <6 ' ; , < 4N
W ''H1'<;.'.67 > - 6>..<'))' >>?'17. / .<768 ; : '=4.
>>?'17. / .47 .4 > 671 ;768 ; : '=4.'> 671 ;7 .< ;'<7,<6%G
'0 '% ' !) ! ') # # ! %% #'
%!9 7,47 X '#) ! ,# +#' # ! '
' : ' F# ' ! & !A !' > #&!'> ! ' #C # '
! ! ') &&!'# !')* !'# !(.' !& !'! ')

67 @Q<.<;.ˢ 4.ˢ '17 ;5.ˢ= ˢ1,46ˢ.67ˢ?1,?,6.ˢ6,17ˢ1 > J ˢ
.<ˢ;.6ˢ7.1 / .6N
ˢ .1,V'4 / .ˢ>.ˢH1'<;.ˢ .67ˢ<<ˢ .7ˢ <> - 6 O5.Iˢ 6,<ˢ
7.11 7, 1..67?'17'J>8ˢ ?,41ˢ '> / < 671'7 ,<8ˢ .<ˢ) ˢ
>.?'17. / .<768#:'=4.>>?'17. / .<7.4ˢ> 671 ;768ˢ;:'=4.ˢ
> 671 ;7ˢ.<ˢ;'<7,<6%ˢ$ˢ ˢ
'ˢ1.>';7 ,<ˢ?1,?,6. .ˢ?'1ˢ %ˢK'O'<7ˢ .67ˢ'>,?7>.%
%ˢ O,41.7ˢ5 7ˢ5.ˢ>.4@ . / .ˢ'17 ;5.ˢ>4ˢ7 71.ˢ6.;,<>%
#.7ˢ'17 ;5.ˢ.67ˢ' <6ˢ1>> J>N
17%ˢ ˢ ,<7ˢ . 7,V.<6ˢE1'<=' 6ˢ;.<@=<ˢ6,<7< 6ˢ.<ˢ
H1'<;.ˢ& '<ˢ? ˢ / <E' 6Iˢ;.'@ˢ=< 8ˢ< .<ˢH1'<;.8ˢ
> <<ˢ?E.1.ˢ 77 J . 18ˢ ,<7ˢ E @>ˢ 5.<1ˢ 1.6 >.<;.ˢ>'<6ˢ5.ˢ
1,V'4 / .Iˢ;.4@ˢ=< 8ˢ <.6ˢ.<ˢ?'V6ˢ >71'<J.1ˢ> <ˢ?E. .ˢ
E1'< ' 68ˢ6,<7ˢ1.-.<776ˢ6 .7'O5 1ˢ.<ˢH1'<;.ˢ.7ˢ,<7ˢ?1 7.ˢ
5.ˢ 6.1 / .<7ˢ ; - =4.Iˢ ,<E <ˢ ;.4@ˢ =4 8ˢ < 6ˢ .<ˢ ?'V6ˢ
.71'<J.18ˢ.7ˢ>.6;.<>'<78ˢ 'ˢ=4.5=4.ˢ>.J1>ˢ=4.ˢ;.ˢ6, 58ˢ
> 4<ˢH1'< ' 6ˢ,<ˢ> <<.ˢH1'<=' 6.ˢ.@?'71 >6ˢ?,41ˢ;'46.ˢ
>.ˢ1.5 J ,<8 1 .<<.<7ˢ>. / .41.1ˢ.<ˢH1'<;.ˢ .7ˢ?1E 7.<7ˢ
5.ˢ6.1 / .<7 ; - =<.%
ˢ3 ˢ .ˢ-,46ˢ;,<Q41.8ˢ '4ˢ<, / ˢ>.ˢ5'?'71 .ˢ.7ˢ
>.ˢ1:4< '< 7,8>.1.71'<;<.1ˢ>.ˢ5'ˢ>.1' .1.ˢ> 6?,6 7 ,<ˢ
>.ˢ '17 ;5.ˢ ˢ;.6ˢ / ,76N ,41ˢ;'46.ˢ ˢ 8ˢ.7ˢ
>.1.<>1.ˢ' <U '17 .5.ˢ;, / / 4<ˢ ˢ7,46ˢ5.6ˢH1'< ' 6ˢ
.@?'7>>6%
2ˢ - ' 9ˢN #.77.ˢ>. / '<>.ˢ .67ˢ71.6ˢQ467.Iˢ 5ˢ 'ˢ
7,4Q,416ˢ>7.ˢ-1' =4 5ˢ64E 56' 7ˢ'ˢ4<ˢ:, / / .ˢ,- J <' 1;ˢ
E1'<=' 6ˢ >.ˢ1. .< 1ˢ .<ˢ H1'<;.ˢ8ˢ.7ˢ>.ˢ>.;5'1.1ˢ=4 5ˢ
-.<7ˢVˢE @.1ˢ6,<ˢ>, / ; 5.8ˢ?,41ˢ= - 5ˢ1.<71.ˢ>'<6ˢ7,<6ˢ
5.6ˢ>1, 76ˢ>.ˢ; 7,V.<ˢE1'<=' 6%ˢ .ˢ <.ˢ;,<J, 6ˢ?'6ˢ?,41ˢ
=4.5ˢ / ,7 Eˢ 5.ˢ;, / 7>ˢ< 'ˢ ;,<6'.1#ˢ=4 4<.ˢ.@;.?7 ,<ˢ
.7<,<ˢ?'65'ˢ10J5.ˢJ.<#1'5.%ˢ 'ˢ4<.ˢ'471.ˢ,06.1-'7 ,<ˢ
'ˢE' 1.%ˢ>,ˢ?1 .ˢ5.ˢ;, / 7#ˢ >.ˢ?1.6.<7.1ˢ4<ˢ'17 ;5.ˢ=4ˢ
'6641.ˢ'4@ˢ.<E'<76ˢ 5>J 7 / .6ˢ5.6ˢ>1, 76ˢ>.ˢ. 7,V.<68ˢ.7ˢ
<,7' / / .<7ˢ ˢ -ˢ>,<7ˢ5'ˢ / 1.ˢ .67ˢE1'<?' 6.ˢ.7ˢ>,<&ˢ
5.ˢ?O1.ˢ.67ˢ4 ;,<<'8
ˢ ',4< / Iˢ ,<6ˢ'-,<6ˢ><,<.>ˢ 5.ˢ?1 <. ?.ˢ?15ˢ
/ Eˢ=4.ˢ5,47ˢ:, / / .8ˢ<# .<ˢ?'V6ˢ.71%ˢ'<J.18ˢ> 4<ˢ?91.ˢ
E1'<=' 68ˢ1.<71' 7>'<6ˢ5.6ˢ>1, 76ˢ>.ˢ; 7,V.<ˢ?'1ˢ5'ˢ1>_ˢ
6 >.<;.Q.<ˢH1'<;.ˢ.7ˢ5'ˢ?1.67'7 ,<ˢ>4ˢ6.1 / .<7ˢ# - =4.%
, 5'ˢ5'ˢ10J5.ˢJ> 7,1'5.Iˢ .@;.?7 ,<ˢ =4.ˢ< 6ˢ'-,<6ˢ
1.;,<<4.ˢ.7ˢ=47ˢ;,<;.1<.ˢ5.6ˢ>.6;.<>'<76>.6ˢ.@?'71 >6ˢ
?,41ˢ;'46.ˢ>.ˢ.($ *ˢ< .67 '471.ˢ;:,6.ˢ=4 <<ˢ>>;1.7ˢ
=4.ˢ -,46ˢ'-.Oˢ1.<>4%ˢ
%ˢ ! 4 7 .N ˢ6.1' 7ˢ / ?14>.<7ˢ> > .-.1ˢ'-.;ˢ
71,?ˢ>.ˢE';5 7,ˢ'4@ˢ>1, 76ˢ>.ˢ. 7,V.<6ˢ>.6ˢ:, / / .6ˢ<#6ˢ
.<ˢ?'V6ˢ >71'<J.1%ˢ ,41ˢ-.11 .Oˢ0 .< >7ˢ>.6ˢ <> - ><68ˢ
>.6;.<>'<7,ˢ ?.4B71.ˢ > ,<ˢ 0'<< 8ˢ -.< 1ˢ >'<6ˢ -,6ˢ
'66. / O5.6ˢ ?1 / ' 1.6ˢ ?,41ˢ5.6ˢ 71,4O5.1%ˢ ` 'E55.416ˢ
'>,?7.1ˢH.@; 7 ,<ˢ?1 ,6 E.ˢ?'1ˢ5.ˢ;, / 7.ˢ . .67ˢE. 1.ˢ
<<.->1 7'O7.ˢ .@? '7 ,<ˢ>, ; / .=, ';, / / 6ˢ ,4 6ˢ
ˢ?'1ˢ5'ˢ1>-,;'7 ,<ˢ>.ˢ >> 7ˢ>.ˢ '<7.6%ˢ^ <ˢ'?ˢ
?5'4> 7P
<?1>6.<7.ˢ? / 6 .<16ˢ'471.6' / .<>. / .<768=<ˢ6,<7ˢ
#;'17#6ˢ?'1ˢ5'ˢ=<;67 ,<ˢ?1 '5'O5.8ˢ' <6ˢ=4.ˢ5'ˢ?1,?,Gˢ
6 7 ,<ˢ>.ˢ %ˢ ! '1'7%G+ˢ ' / .<>. / .<7ˢ>.ˢ %ˢ 1 <.<.7ˢ
.67ˢ'>,?7>ˢ .<ˢ;.6ˢ7.1 / .6ˢ$
$ˢ .6ˢ.<E'<76ˢ<>6ˢ.<ˢH1'<;.ˢ>.ˢ?'1.<76ˢ <;,<<46ˢ'4ˢ
1,<7ˢ>1, 7ˢ>.ˢ# 7>8ˢ Y
ˢ %ˢ ', #BKEIˢ .ˢ;1, 6ˢ=4.ˢ5'ˢ1. >';7 ,<ˢ6.1' 7ˢ .<M
;,1.ˢ?546ˢ.@';7.ˢ.<ˢ / .57'<7N W>.ˢ?.1.ˢ,4ˢ>.ˢ / E.1.ˢ <ˢ
;,<<468\ˢ?'1;.ˢ=4.ˢ;.6ˢ.<E'<76ˢ ?.4-.<7ˢ<.ˢ;,<<'771.ˢ
=4.5.41 / O1.%
%ˢ W Y N7 66. / O7,.ˢ .47ˢ=4.8ˢ=4'<><<ˢ:, / / .ˢ
.67ˢ<>ˢ.<ˢH1'<;.ˢ>.ˢ?'1.<76ˢ>71'<J.168ˢ;.7:, / / .Vˢ' 7ˢ
E @.ˢ6'ˢ1.6 >.<;.ˢ?,41ˢQ,4 1ˢ>.6ˢ>1, 76ˢ>.ˢ; 7,V.<ˢE1'<ˢ
=' 6%#;?.<>'<78> '?1 ` ' / .<>. / .<7=4ˢ- .<7> >71.ˢ
'>,?7>8ˢ6ˢ>.4@ˢ >71'<J.16ˢ ?'66' .<7ˢ4<ˢ / , / .<7ˢ.<ˢ
H1'<;.8ˢ=4 56ˢVˢ'O'<>,<<'66.<7ˢ4<ˢ.<E'<78ˢ.7ˢ=4.ˢ;.7ˢ
.<E'<78ˢ<>ˢ>.ˢ?'1.<76ˢ <;,<<468ˢ?'66 7ˢ.<ˢ?'V6ˢ>71'<ˢ
J.1Iˢ '4@ˢ7.1 / .6ˢ>.ˢ#.7' / .<>. / .<78ˢ= , = 5ˢ ˢE 7ˢ
?'6ˢ1.6 >'<7ˢ>'<6ˢ5.ˢ1,V'4 / .8ˢ / ' 6ˢ?'1;.ˢ=4 5ˢV6.1' 7ˢ
<>8ˢ .7ˢ =4.ˢ 6.6?'1.<76ˢ6.1' .<7ˢ <;,<<468ˢ 5ˢ'<1' 7ˢ
>1, 7ˢ>.ˢ; 7>%ˢ 66. / O5>.ˢ<.ˢ?.47ˢ?'6ˢ'-, 1ˢ-,454ˢ>.ˢ
;1.7.1ˢ>.6ˢ> 6?,6 7 ,<6ˢ;,<71'> ;7,51.6%ˢ T

ˢ- ˢ ˢ.67ˢ / ,66 O5.ˢ> ';;,1>.1ˢ'<ˢ !56
> 4<.ˢE. / / .ˢ / '1 >.ˢ5.ˢ>1, 7ˢ>.ˢ; 7.ˢ?'1ˢ6'ˢ<>1.8ˢ;'1ˢ
'5,16ˢ 5'<1' 7ˢ>.4@ˢ; 7>6%ˢ '1ˢ .@. / ?5.8ˢ6ˢ6,<ˢ?>1.ˢ
>7' 7ˢ'<J5' 68ˢ.<ˢ-.174ˢ >4ˢ >1, 7ˢ=4 5ˢ7 .<>1' 7ˢ>.ˢ6'ˢ
/ >1.E1'43' 6.8 ˢ- .<>1' 7ˢ >'<6ˢ 5.6ˢ '66. / O5>.]ˢ?,_ˢ
5 7 =4.6ˢ>.ˢH1'<;.Iˢ .7ˢ6 5ˢ< Vˢ,O7.<' 7ˢ ?'6ˢ > .;7 ,<8ˢ
5ˢ1.7,414.1' 7ˢ.<ˢ <J5.7.11.ˢ?,41ˢQ, 4 1ˢ >.6ˢ>1, 76ˢ>.ˢ
6,<ˢ?>1.%ˢ ˢ6'ˢ / >1.ˢ< .67ˢ?'6ˢ / '1 >.8ˢ :, / / .ˢ=<ˢ
-,4>1'ˢ.@.1;.1ˢ5.6ˢ>1, 76ˢ>.ˢ; 7,V.<8ˢ=4.56ˢ=4.ˢ6, .<ˢ
6,<ˢ?>1.ˢ.7ˢ6'ˢ / >1.8ˢ6.ˢ?1>6.<7.1'ˢ '-.;ˢ6,<ˢ .@71' 7ˢ
O'?7 67' 1..75'ˢ?1.4-.>.6'1.6 >.<;.%ˢ 5ˢ> 1'Nˢ .6, 6ˢ
<>ˢ.<ˢH1'<;.8Q V1.6 >.%ˢ .4ˢ / ?,17.ˢ=4.ˢ6,<ˢ?>1.ˢ
6, 7ˢ.71'<J.1ˢ,<ˢE1'<J' 68ˢ;'1ˢ5ˢ .67%ˢ 4<ˢ,<ˢ '<71.8
ˢ ˢIˢ :ˢO .<8ˢ6ˢ-,46ˢ1.7 1.Oˢ1' / .<>. / .<7ˢ
>.ˢ %ˢ 1,<;:.78ˢ-,46ˢ-.11.Oˢ=4.ˢ>'<6ˢ5.6ˢ'66.1<O5.;6ˢ
?1 / 'ˢ1.6ˢ,<ˢ,??,6.1'ˢ-,71.ˢ?1,;.6 -.1O'5'4@ˢO 7'1>6%
%ˢ & ˢN :ˢO .<8ˢ-,71.ˢ?1,;.6 -.1O'5ˢ> 1'ˢ=4.ˢ
5.6ˢO>7'1>6ˢ <.ˢ?.4-.<76,<5E1 1ˢ'4;4<.ˢ> E ;457>ˢ641ˢ
5.41ˢ>7'7%
'>> 7 ,<ˢ?1,?,6>.ˢ?'1ˢ %ˢ 1,<;:.78ˢ.E=4.ˢ ˢ
6. / O5>.ˢ'-' 7ˢ>,?7>.8ˢ.67ˢ1.7 1>.%
'17 ;5.ˢ ˢ>4ˢ?'1'J1'?O.ˢ7Qˢ.67ˢ>>;1>7>ˢ7.5ˢ=4 5ˢ 'ˢ
&>7>ˢ?1>6.<7>%
3%ˢ,&% ˢ,ˢ 4&ˢ ˢ) , $ˢ&

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$ f' # .67 '' 66./05 .'<'7 ,<'5.' >.6 H1'< ' 6 .55. / . / .8 ,4' '4'?,4-, 1 .@9;47 E=4 .55.' '';,<67 74>8 ''?1,;5'7<.1 '4 >.:,168 >'<6 5.6 ;,416 .71'<J.1.68 5.6 ?1 <; ?.6 ?45 7 =4.6 <,4-.55. / .<7 '>,?7 6 ?,41' 5.' J,4-.1<. / .<7 >4' 1,V'4 / .% 46=4.\5'' >,<.'5.';,1?6 J.1 / ' =4.8 ' <6 ' =4.'5.6 > -.16 ?1 <;.6 >.' 41,?.'8 ?,411,<7 'J 1 ;,<E,1 / > / .<' '' 5.41' 46'J.8 .7 ''5.416 1'??,176 1.6?.; E6 '-.;'5.'1,V'4 / .'>.'H1'<;.%

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.'J,4-.1<. / .<7 >.'K.1<.' '' .<-,V6 '4@ - 55.6 .7 ;, / / 4<.6 4<.' .6?.;.'>.'1''<E. 7.' ?'1' 5.=4.5 5 5.<1' .<Q, <7 > . / ?5,V.1' 5.6 -, .6 >.' 1 J4.41 ?,41'1.5'05 1 ,1>1.% '?1.6 ;.5'',<-''7 1.1 >.6 ?.7 7 .7 J1'<>' ;,<' 6. 56 >.6 ;, / / 66' 1.6 =4 'E,1 / .1,<7>.6 71 04<'4@ ,>' 0.6, < 6.1'8 ?,41 <E,1 / .1 .7 ?4< 1 .@. / ?5' 1. / .<7 5.6 '47.416 >.6 1>Q,4 66'<;.6 =4' ,<7 .4'5 .4%

' ,< 'Q,47.' ;.6 / .641.6 '4@ >.5 0.1'7 ,<6 >.'5'' > .8 1.5'7 -. <.<7 '4@ 1.J / .<76 64 66.6 '4 6.1- ;.'>.' H1'<;.8 <.' >1' 7 ,< ?'6 =4.'5''H1'<;.'>, -.6 '77.<>1.' 5 4<.'14?741.' ?1,;:' <.' '-.;'7,47.6 5.6 ;,416 >.' 4' % 1,?.'Z

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5 ''5 5;'-.<>4' ''1:,5.5 >. - 55.'>.' '1 68 5.6 G 8 C8 8 U8 .59> e;;' / 4 68 ?,41'5''6, / / .>.58 (8 % >.'>, / ' <.6 <'7 ,<'4@8;, 6 67' 76 .<'> @ 6.?7 / ' 6,<6 .5 >>?.<>'<;.68 6 74>.6 >'<6 <7.1 .41 >.' '1 68 .7 >47 7 5.6 .67 / '7 ,<6 '-' .<7>7.'?,17;;6 ''9U 8U '5 -%

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F* '?1.6.<7.' '< >.?'17. / 7 >.' '1 68 ?,1 5G.7'W 05 66. / .<7 >G'<.' / ';: <.' .< 1. / ?5';. / .<7 >.6 J, / ?.6 17,71. ' / .' >.'S'' ' / '1 7' .8 '' .7':5 1' '< >1, 7 >4 ,<7' ' #0'<J.8 '< ?5.>' >.'5''7, '1'>.' :,15,J.' >4' '5' 68 E'7G 6'<7 '<J5.' >.'5'' 14.' >.'5''K'1 55.1 .8 .7 7.<'<7 5.' / 5 .4 .<71.'5.6 >.,@ / ';: 4.6 ';7'.55.6G

#G.67 '4 6, / / .7>.' ;.77.'7, '1'=4.' ''7.41 6.'?1,?,6.'>.' ?5';.1 5.' 1>6.1-, 1'=' 'E.1''6'' > 671 047 ,<''4@ ?1<;?'5.6 ;,<>4 7.6 ';74.55. / .<7 6<06 %67'<7.68 6'<6 1 .< ;:'<J.1 ' ,1>1.'>.6 E,<7' <.6 ?405 =' .6 <' '4@ 1.6.1-, 16 >.6 ?'17 G ;'55.16 ;,<;.66 ,<<' 1.6 >.6 .',@ >.'5''- 55.G

7 '>'' / .< .''47.'1 ?, ,1 5.' .<1'J.'>.'5''1 - .1.' >.' . <.I / ,V.< >.' J'1.1 5.6 0'7.'4@ ?.<>'<7 5.6 J5';.68 E'; 5 7.' ?, ,1 5'' <'- J'7 ,<8 .7'?5, ' '' ;.'64Q.7 >G'< J1'<>' <, / 01.'>, '-1 .E68 .7 6'5<01 7.' ?, ,1 5'' - 55.'>.' '1 6%

#.' / . / , 1.' ?, ,1 1.5'0 66.1'.<7 >.'5'' / ';: <.'0V>1''G 5 =' .8 .7 5.6 ,06.1-'7 ,<6 ?, ,1 1.7'05 1 '' 5 01.'<'- J'7 ,< >.'5'' . <.8 <,46 ,<7 ?'1'71.6 <5.1.66'<568 <,< 6.,5. / .<7 ?,41 5.6 ;7,V.<6 >.' '1 68 - ; / .6 >.?4 6 ?546 >.'=''1'<7.' '<6 >.5 <6,4; '<;..7 >.6 / '5-.16'7 ,<6 >.' '<; .<1.J / .8 =4 8 5, <'>'-, 1 ,?>1.'?,41 47 5 7.'>.'5'' ;'? 7'568 <.'6G.67 '4' ;,<71' 1.' ,:;4?.' =4.'>.' 6? 45'7 ,<68 7,47.6 '4 >.71 G / .<7 >.' 6.6 :'0 7'<76I / ' 6 .<;,1.'?, ,1 5.6 J1'<>.6 - 55.6 >.6 >.?'1 . / .<768 , 5 5'' / / .'<.J5 J.<;.' .7 5.6 / ,< .6 -4.6 6.'6,<7 '466' / '< E.67..6%

'47.418 '<=<.5 ,< >, 7 ;.6 1.E5.@ ,<68 .67 >.Q'';,<<< ?'1 ?546 .416 >.;,4-.17.6 47 5.68 <,5' / / .<7 ?'1 5.' / ,V.< >.' ?1.6.1-.1 >.'5 <;.<> .'7,47.6 6,1 .6 >G.75 E ;.68 .< 6406' 7 74'<7 5.' E.1 '4 0, 6% #.' ?1,;.>.' 6 .@.;47.' '4Q,41>55 / 8 7'<7 >'<6 5.6 >.?'17. / .<76 =4 U '1 68 ?'17 .'>.6 0'7 ' / .<56 >.' % > 15.'<68 .7 5''6'5 .'>.6 '1 .5.68 6,<7 .@.;4G 7..6 > '?1.6 ;.6 ?1 <; ?.68 '??1,4-.6 ?'1' ';'>. / .G

.'7,47.6 5.6 ?. <.6 =4 5 6G.67 >.<<..68 .7 >.'7,47.6 5.6 >.?.<6.6 =4 5 ''E' 7.68 5 <G'' 1.7 1.'>.6 'J.<76 >.'1'<; .< 1.J / .' =4.'>.6 ?1, / .66.6 -'J4.6 .7 6'<6 .EE.7I 5 .6?.1.' >4' ,4-.5 ,1>1.'>.6 ;:,6.6Q467 ;.' .7 <>. / < 7.G

'47.418 % .'< .11.' <J,8 '1;: 7.;7.8 =4'' >.' ;,5.8 (8 ,EE1.'>.'>,<<.17,<6 5.6 1.<6. J<. / .<76 =4G,< .1, 1''<.;.66' 1.6 '' .@>;47 ,< >.6 ?1, .76 =4 5 '<<,<;.%

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+' 4' '> / .7 '' 5''0'<.'7 <.'>.?47'7 ,< >.6 '17 67.6 >.' '1 68 =4 8 '' ,;;'6 ,<>.'1. / ? ;:. / .<7 / 6 ?'1 7.<>'<7 >.6 0 7 / .'76 >4' 1, ' 4' .@?,6 7 , ' >.6 7'05.'4@ >'<6 5.' ,4-1.8 1.;5' / .<7 5'' 64??1.66 ,4 >.6 . 71'-.6 / 6.6Q46=4 '';.'Q,41 '4 >>-.5,??; / .<7 >.6 '176%

% ' ' '' 5'' >>?45'7 ,4' N ,46 6'-.0 ;, / 0 . 5 66. / 05.;'<'7 ,<'5.' / .7>.?1 @''5''5 0.1 .I ;, 0 .<'7,47 ;.'=4' ?.<7>,<<.1 >4'>.-.5,??. / .<7 '4@ 7'5.<76 .5 >.' 5. .1J ;' '4@ 6.<7 / .<76 =4' :, 8 <,1.<7 .67 ';;4. 55' ?'1 .5E.' '-.;' . / ?1.66. / .<7I -,46 ?,4-.0 >,<.'>71.'71'<= 55.6 641 .EE.7> 4<.'? ' 7 7 ,<8 >,<7 ,0Q;7.67 >.@;7.1 . / 45'7 , '?'1 / '5.6 '17 67.68 .< 5.6 / ;77' 7 '' / . / .'> ,5 1 1 5.416 ,4-1'J.6 '' '';.<641.'>4 ?405 ;8 .7 > .< ,07.< 1 ''1.;, / ?.<6.8 E5'57.46.' .7 5,4Q,416 Q467.8 >.'6,< 64EE1'J.%

4Q,41> :4 8 =4.' '17 67.' ; 7,V.< 7 .' 6' 5 ?546 6;' ?1,67 74.1'' '>45'7 ,< >.6 J1'<>.416I '4Q,41> :4 8 = ' <> ?'1 ' / ,41 >.'S'' ?'51 .8 .7 =4.'1' / .<'<7

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' > 6;466 ,7' . 67 E. 1 / > . % 8
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G ' ' & ' & ' ' GI' ' '

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! b ʿ WY ʿB ʿ %

Gʿ / $ ʿ5Cʿ . ʿW> ?6ʿ &ʿ< ʿ Hʿ ʿ ʿ(

! %

ʿ$ ʿ ʿ9 ʿ + <ʿ'6641.8ʿ>'<6ʿ4<ʿ ;1 7ʿ =4 ʿ "?,41ʿ5 71.ʿ =4.ʿ7,16ʿ>.ʿ ;.77.ʿ ?,=4.ʿ '66. / 05 ʿ>.6ʿ.7'76ʿ < .7' 7ʿ ;, <?,6 .ʿ =4.ʿ>.ʿ 71.<7.ʿ 6.<'7.416ʿ.7ʿ>.ʿ;.<7ʿ71.<7.ʿ <,<;.6Iʿ =4.ʿ=4'7,10.ʿ 6.<'7.4 6ʿ 6.45. / .<7ʿ ,47ʿ -,7.ʿ ?,41ʿ5" <,4-.55.ʿ;, <67 747 ,<8ʿ .7ʿ =4.ʿ5" / 'Q,157.ʿ>4ʿ ;,7.ʿ>.6ʿ<,<;.6ʿ< " .7Uʿ=4.ʿ>.ʿ> @ <.4E% '?1 ʿ ;.5" '47.41ʿ>.ʿ;.77.ʿE.4 55.ʿ?1.7.<>ʿ=4.ʿ5"<,4-.55.ʿ #,<6G 7 747 ,<ʿ <.ʿ?.47ʿ U71.ʿ =4'5 5 9.ʿ> ';7.ʿ <'7 ,<'5Iʿ / '76ʿ ;.&7.ʿ;'5, / < .ʿ< "?, <Q7ʿ '57.1 ʿ '66.<7 / .<7ʿJ.<.1'58ʿ .7Q5ʿ<.ʿ?'1' 7ʿ?, <7ʿ=4.ʿ5.6ʿ E';7 ,<6ʿ?4 66.<7ʿ>.-.< 1ʿ 1.>,47'05.68ʿ>4ʿ <, <6ʿ>'<6ʿ <4 1 .41% G

.6ʿ;,<=4.7.6ʿ>.6ʿ 466.6ʿ641ʿ5.6ʿ 41;68ʿ>4ʿ;97.ʿ>.ʿ 5" ,5,J<.?1E..<7.<7ʿ4<.ʿ641E';.ʿ>.ʿ (")ʿ / 5 .6ʿ > 55.< 'J<.8>.?4 6ʿ 1.58ʿ641ʿ5.ʿK,J8ʿQ46=4 " ':,1 8ʿ 641ʿ5.ʿ < .67.1%

.6;'>1.ʿ1466.ʿ>.ʿ5" < .1ʿ , 1.ʿ .67ʿ6,17 .ʿ>.?4 6ʿ =4 <0.ʿQ,416%N

.ʿ?1<;.ʿ>.ʿ '66'48ʿ.;1 7 ,<ʿ>.ʿ 97.160,41J8ʿ6 .67 1.<>4ʿ?'1ʿ7.< .ʿ>'<6ʿ5"H <5'<>.5ʿ <.ʿ?'17 .ʿ>.ʿ ;6ʿ #'>1.ʿ>.6ʿJ'5.1.6ʿV "E' 7ʿ1,47.8%

.ʿ> ?'17. / .<7ʿ>.6ʿ'EE' 1.6ʿ 71'< .1.6ʿ " .7 ʿ <6714 7ʿ >.ʿ5";,<;546 ,<ʿ?1,;:' <.ʿ>;5"?' @8%.<71.5" 466 ;ʿ .5ʿ5" ,17.ʿ ,77, <'<.8ʿ?'1ʿ5.6%6, <6ʿ>.6ʿ;,<16ʿ'55 ;6ʿI ,<ʿ54ʿ " '?21 6ʿ .<ʿ / / .ʿ7. / ?6ʿ=4.ʿ>'<6ʿ;.7ʿ'11'<J.ʿ E7 .<7ʿ 5ʿ< .67ʿ=4.67 ,<ʿ.<ʿ1 .<ʿ>.6ʿ <7 1.76ʿ>.ʿ5" 19?4ʿ 05 =4.8ʿ =4, =4 ,<ʿ 54ʿ ' 7ʿ ?1, / 6ʿ > V '-, 1ʿ. 1>I 8ʿ;.77. ; 1;,<67'<;.ʿ?.<7ʿ 6.1- 1ʿ>.ʿ7.@7.ʿ " >.ʿ5,<J4.6ʿ 1.E5.@ ,<6I,<ʿ;1' <7ʿ / / .ʿ=4.ʿ5"1 ?405 =4.ʿ<.ʿ6. 7ʿ 5,4..ʿ .7ʿ ';1E;.ʿ ">.6ʿ-4.6ʿ' / 0 7 .46.6ʿ.7ʿ <7.1.66..6Iʿ .@. / ?5.ʿ>.6K1'0'<=,<6ʿ.Eʿ>.6 .J., 6ʿ .674<.5.=,<ʿ %0 .<ʿ 7.11 05.ʿ =4 ,<ʿ <.ʿ>.-1' 7ʿQ' / ' 6ʿ,405 .1% ,46ʿ 6, / / .6ʿ ';74.55. / .<7ʿV1546ʿ=4.ʿQ' / ' 6ʿ>'<6ʿ4<.ʿ?,6M 7 ,<ʿ;1 7 =4.Iʿ 5ʿ .67ʿ; .17' <ʿ=4 ,<ʿ 46;7.ʿ>.6ʿ .<<. / 6ʿ " 5" <,4-.55.ʿ;, <67 747 ,<8ʿ .7ʿ ,<ʿ6'5ʿ7ʿ'466ʿ?,6 7 -.ʿ .<7ʿ=4 4<ʿ;,1?6ʿ>.ʿC 8 ʿK466.6ʿ .67ʿ?,17.ʿ'4@ʿ.<M - 1,<6ʿ>.ʿa , [.8ʿ,4ʿ ,<ʿE' 7ʿ>.6ʿ71'<6?,176ʿ>.ʿ / 4< M 7 ,<6ʿ>.ʿJ4.11.ʿ>.ʿ7,47ʿJ.<1.% ,46ʿ?.4ʿ>.ʿ7. / ?6ʿ<,46ʿ '41,<6ʿ5"6,547 ,<ʿ>.ʿ .< J / .ʿ?,5 7 =4.%

! % $

ʿ$! ʿ ʿ WG G ʿ+ʿ ʿ ,<Q4J.ʿ>.ʿ .<6. / 05.ʿ >.ʿ..ʿ=4ʿ6.ʿ?'66.ʿ"5">.7.ʿ>.ʿ / ?1.8ʿ1.5'7 -. =.<7ʿ '4@ʿ'EE' 1.6ʿ>.ʿH1'<;.8ʿ 5ʿ?'1' 7ʿ>EE ; 5.ʿ>.ʿ;1? 1.ʿ=4.ʿ <? 1.ʿ '41" 1.;,<16ʿ " >.6ʿ / .641.6ʿ .@71. / .6Iʿ >ʿ ʿ 0,1>ʿ 5ʿ.67ʿ>.ʿE' 7ʿ;.17' <ʿ=4.ʿ5]6ʿ?1<;.6ʿ<.ʿ] ,<7ʿ?'6ʿ > ';;,1>ʿ641ʿ5.ʿ J.<1.ʿ>.ʿ;.6ʿ / .641.6I > ' 55. 16ʿ ,<ʿ<.ʿ . / 7ʿ?'6ʿJ.< 1ʿ5. / .<7ʿ=4.ʿ5.ʿ?1.;.>.ʿ >.ʿ5" H1'<;.ʿ ?1 <7.ʿ4<ʿ / ,7 E >J 7 / .ʿ?,41ʿ5" J4.11.Iʿ 56';.ʿ.7ʿ 5" ,11' <.ʿ54ʿ,<7ʿ 7 ʿ; > .6ʿ '-.;ʿ7,47.ʿ5"6,4-.1' ʿ <.5.ʿIʿ?'1ʿ;,<6.=4.<7ʿ.55.ʿ "?4ʿVʿE' 1.ʿ;.ʿ =4.ʿ ,<ʿ " E' 7ʿ>'<6ʿ?546 .416ʿ 7'7]ʿ> 55. / 'J<.8ʿ1. '7 -. / .<7ʿ'4ʿ 1.J / .ʿE',>'58ʿ ">.6ʿ>- .0 8ʿ J5 6.68ʿ;,<-.<768ʿ.7;%8ʿ =4.ʿ ,<ʿ"64??1 / #6% ' 55.4165.6ʿ>1, 76ʿ> ,;#6' <6ʿ>.ʿ =4.5=4.6ʿ?1.5'76ʿ> 55. / 'J<.ʿ <.ʿ ?.4-.<7ʿJ4.1.ʿ7,4M ;:.1ʿ5.6ʿ?1<;.6ʿ6 ;45 .16ʿ8ʿ6417,47ʿ5.6ʿ?1<;.6ʿ?1,7.6 ʿ 7'<76% 4ʿ1.67.8ʿ<.ʿ6' 7 ,<ʿ?'6ʿ=4.ʿE.4ʿ . / ?.1.41ʿ ,M 6.?:ʿ"9 8ʿ 5ʿV " =4.5=4.6ʿ '<<..68ʿ'47,ʿ.1 =4.6ʿ>.ʿ '7 60,<<.ʿ.7ʿ>.ʿ '66'778ʿ4<.ʿ?' 7 .ʿ1,?,17'<7.ʿ>.ʿ5.41ʿ Q41 > ;7 ,<ʿ.7ʿ>.ʿ5.416ʿ1.-.<46ʿ>'<6ʿ6.6ʿ.7'768ʿ6'<6ʿ=4.ʿ ,<ʿ .<8ʿ' 7ʿ?,17 ʿ ?5' <7.ʿ ʿ5">.7.8ʿ.7ʿ=4.ʿ / ?1.ʿ 6 .<ʿ6, 5ʿ / .5.ʿZ

.<.1Eʿ>.ʿ5"J4.11.ʿ.6 ʿ> 7 ,<8ʿ '1J.<7% '17,47ʿ,<ʿ ?'15.ʿ>.ʿJ4.11.ʿ>'<6ʿ;.ʿ / , / .<7I1.67.ʿ "6'-, 1ʿ6ʿ 5.6ʿ ?4 66'<;.6ʿ '4@=4.55;6ʿ ,<ʿ?1.5.ʿ>.6ʿ -4.6ʿ :,67 5.6ʿ ,<7

hʿ +ʿ< ʿ'. ʿ)

'466ʿ5.6ʿ / ,V.<6ʿ>.ʿ5.6ʿ.EE.;74.18ʿ .ʿ;1, 6ʿ=4 5ʿ.67ʿ / 4% 7 5Xʿ>.ʿ?'15.1>.ʿ5' 466 .8ʿ71.6ʿ,0.1..ʿ.7ʿ6'<60.'4;,4?ʿ >.ʿ ;1.> 78ʿ6.6ʿ?'? .16ʿ?.1>'<ʿ C9ʿ?,41ʿ ;.<78ʿ &7'1;.ʿ =4 .55.ʿ< .67ʿ?'6ʿ.<;,1.ʿ>.0'11'66 .ʿ>.ʿ5" J4.11.ʿ'-.;ʿ% 5.6ʿ 41;6Iʿ5.6ʿE <'<;.6ʿ>4ʿ1, ʿ >.ʿ 4.>.ʿ<.ʿ6,<7ʿ?'6ʿ% >'<6ʿ 4<ʿQ<. 55.41ʿ.7'7I ,<ʿ6' 7ʿ> ' 55.416ʿ=4.ʿ5">.1 A < .1.ʿJ4.11.ʿ>.ʿ;.ʿ?1<#.ʿ;,<71.ʿ5' 466 .ʿ";, 7.ʿ ʿ6,<ʿ 1,V' / .ʿ / '5ʿ?;4?5.ʿ?1 ʿ>.ʿ 8 ʿ;, / 0'75 <76%34ʿ J<,1.ʿ 5.6ʿ >.77.6ʿ <,1 / .6ʿ>.ʿ <J5.7.11.ʿZ .6ʿ? <6 1'<>.6ʿ1 ;:.66.6ʿ54ʿ'11 -.<7ʿ>.6ʿ ! 1'<>.6 <>.68ʿ ,4ʿ #?,, ʿ 0Q,4.ʿ';74.55. / .<7ʿ5.ʿ1,5.ʿ> 5.@'<>1. 5. ʿ ! 1'<>Iʿ ;.ʿ-' <=4.41ʿ1.466 7ʿ>'<6ʿ .6 -'67.6ʿ?1,Q. 68ʿ% 5";, / ?'JE .ʿ>.6ʿ <>.6 1 .<5'5.6ʿ>.- .<>1" 0 .<5,7ʿ 4<.ʿ;: / .1.%" <.ʿJ4.11.ʿ / '1 7 / .8ʿ;,< <4.ʿ?.<>'<7ʿ 71, 6ʿ'<68ʿ14 <.1' 7ʿ .;: =4 .1ʿ>.ʿ ,<>1.68ʿ .7 7,47ʿ V 6.1' 7ʿ 0,45.-#16.8ʿ6ʿ .6?1 7ʿ1.-,545 ,<<' 1.ʿ J'J<' 7ʿ ;.77.ʿ5 .%* ʿ .6ʿE<'<.= ʿ>.ʿ5"B,55'<>.ʿ<.ʿ6,<7ʿJ4.1.ʿʿ ?546ʿ01 55'<7.6Iʿ5.6ʿ0'6.6ʿE,<>' / .<7'5.6>.ʿ5"? ,6 1 7.ʿ >.ʿ;.77.ʿ1.?405=4.ʿ6,<7ʿ .07'< .6Iʿ .7'7ʿ>.ʿ5" ;, / ʿ ?'J< .ʿ>.6ʿ <>.6ʿ.67ʿ>.6.6?.1.%+ʿ ,47ʿ5.ʿ / '5ʿJ 7ʿ>'<68ʿ 5"1.-,547 ,<ʿ <'<=4..% + ʿ34'<7ʿ"5" 1466.8ʿ6.6ʿE M <'<;.6ʿ6,<7ʿ.<;,1.ʿ>'<6ʿ4<ʿ0 ,<ʿ .7'78ʿ J1>.;ʿ" ,1>1. ʿ .7ʿ" .;,<, / .ʿ>4ʿE.4ʿ1, Iʿ / ' 6ʿ6,46ʿ5.ʿ1.JE .ʿ';74.5ʿ,1ʿ % 6 .;'17.ʿ>.Q ʿ71.66.<6 05. / .<7ʿ>.6ʿ 0,<6ʿ - .4"ʿ?1<; ʿ ?.6% 5ʿV '- ' 5ʿ>'<6ʿ5.ʿ71.6,1ʿ* ʿ / 55 ,<6ʿ>.ʿ7:'5.16ʿI .ʿ0 .<8ʿ5.ʿ ʿ1 ʿ .<ʿ "E' 76,17 18ʿ.<ʿ>.4@ʿ'< ʿ>.ʿ 7. / ?68ʿ'4ʿ / , <6ʿ ʿ / 55 ,<68ʿ <.ʿ'<,..ʿ>.ʿJ4.11.ʿ1; ʿ >4 1' 7ʿ?1,> J .46. / .<7ʿ5.ʿ;'?7'5ʿ1.67'<7% +ʿ " / ' ʿ 6,<ʿ> 47 ;.ʿ"0.6, <ʿ> 4<ʿJ1'<>ʿ1.J / .ʿ?,41ʿ1.6 ʿ 7'41.16.6ʿE<'<;.68ʿ=4.ʿ5"J4.11.ʿ#,<71.ʿ5. ʿ 41;6ʿ.5ʿ>.ʿ ?.7 7.6ʿ1.-,547 ,<6ʿ ,<7ʿ .?4 6..6% 55.ʿ"1.;,<=4 6ʿ5.6ʿ ?1,- <;.6ʿ :.5J =4.68 / ' 6ʿ 5" J1'<>.ʿE,1;.ʿ / 5 7' 1.% =77 ,<ʿ.'7 05ʿJ.ʿ>V .<71.7.< 1ʿ'06,10.8ʿ<,<ʿ6.45. / .<7ʿ 5.6ʿ ʿ / %,<6ʿ=4 ,<ʿ1;7 1ʿ 7ʿ?'1ʿ'<ʿ>.ʿ;.6ʿ?1, - <;.68ʿ / ' 6ʿ 5ʿE'47ʿ.<;,1.ʿV'Q,47.1ʿ'45'<7ʿ?,41ʿ5. 1ʿ.<71.7 .<% .6ʿE<'<;.6ʿ>.ʿ5" ?54?'17ʿ >.6ʿ.7'76ʿ>.ʿ / ?1.ʿ<.ʿ 6<<7ʿ J4.1.ʿ 01 55'<7.6Iʿ ;.6ʿ?1<;.6ʿ ,<7ʿ71, ?ʿc.ʿJ,E 7ʿ >.6ʿJ1'<>6ʿ ,4-.1' :6ʿ?,41ʿ60<J.1ʿ" .;, , / .%

5 J4.ʿ>.6ʿ?1 <; ?'5.6ʿ?4 66'<;.6ʿ>.ʿ 41,?.ʿ;,<71.% 5" H1'<;.ʿ .67ʿ4<ʿ.?,4-'<7' 5ʿE'01 =4.ʿ?'1ʿ>.6ʿ:, / <.6ʿ :'0 74.6ʿ" / .?1 6.1ʿ5.ʿ?.4?5.ʿE1' < ; 68ʿ.7ʿ=4.ʿ ,<ʿ.<

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.6ʿ<.J,; '75,<6ʿ>.ʿ 67,-.ʿ6,<7ʿ"5"-.1 7.ʿ.<ʿ?5. <.ʿ ';7 - 7.I / ' 6ʿ <ʿ'6641.ʿ=4.ʿ5";,<;546 ,<ʿ>.ʿ5"?' @8ʿ =4, =4 ,<ʿ ,7> ';;,1>ʿ641ʿ5.6ʿ0'6.6ʿ8 ?,411" .<;,1.ʿ 6.ʿ?1,5,<J.1ʿQ46=4 :ʿ5"E <>4ʿ / , 6% ʿE'47ʿ.@' / <.1ʿ.7ʿ >.;> .1ʿ=4' :>ʿ.7ʿ>'<6ʿ=4.5ʿ.7'7ʿ5.6ʿ'<71.68ʿ;,<=4>7.6ʿ >, -.<7ʿ 71.ʿ1.<>4.6% .ʿ?5468ʿ,<ʿ?'15.ʿ>.ʿ<,<-..55.6ʿ ?1,?,6 7 ,<6ʿ =4 ,<ʿ-04>1"E' 1.ʿ';;.?7.1ʿ'4@ʿ 41;6I 5ʿ?'1' 7ʿ=4.ʿ;.5"6.ʿE: 7ʿ>.ʿ;,<;.17ʿ-.;ʿ5.;'0 <.7?746ʿ 6 ;<8ʿ=4.ʿ;.54ʿ>. 5.<<;ʿ",05 J.8ʿ .<ʿ54ʿ1.<>'<7ʿ>.ʿ 04<6ʿ,EE ;.6ʿ" .7.160,4 Jʿ?,41ʿE'11'<J. / .<7ʿ>.ʿ;.1ʿ 7' <.6ʿ;:,6.6ʿ = ʿ54ʿ7 .<<.<7ʿ 0.'4;,4?ʿ" ;;.41% ʿ < .67ʿ?'6ʿ>,47.4@ʿ=<.ʿ;.ʿ<.ʿ6, 78ʿ.<71.ʿ'<71.6ʿ5,,6.68ʿ 5";.Y ,<ʿ>.ʿ :,1<ʿ.7ʿ>.ʿ '<70 ; %

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)+,, (' ('#4' $9((' -(' 0(.9(" 4+.' (-$,' (2(3 ,(./ (,/ (*' +-$,('
4 +3(' - ' + +$'! 8+ / ($.$(' -' *' #(.' 36+*-/ (*' # . ('
- **(' # (.!-(! $" ' .' 4+ (' -. $$(' '3(' #+$,/ (,.(' 3 *- $,/('
(*% +' +$' *' -(' # .3(' -(' 4$,+! (*(.+' -(' +' +4($.$$' .3/
4 .' 8' -((*...' -(,($('(,' ! ' 4(*-+*,' (' (,'
('4+3(' -(',. $" +*'
6G (' (' & ' (' ' !! *

%

$/+' ' 3$#$$(' -(" $" -(' +' *P,$, , */-(')(U/+03.#$,'
5* ($ ('*('. 3(0.+' + 3 *' 4+5 (,' '+*" 9 ' +##.+*3,$$/(3(4$('
-(" ' 3$(,(' 5+$' 4$' '(*,' +# $ $((+' ((' -(' *,$*(' - **('
(' ((' +0$'

" +
' " '

' 'F ', ' '
' ' ' # ' ' #< ' ' 8

% :,41.7 E' 7 5.;741.'>.'H' ;5.' 5V8S
+' .,' ' (' 9 *0(. $((*,'(',' *+.36$5*(7 (' 4 *0 .'
(2(3 ,$.'(',' -((9+-' +*'. $/ 4 (,.(' (2(.((/ ' " ' *' + !'
, .$,-/ 4+.' -(" $*$',.(" (,' + ,.(" +9(*," .(' 4 *'+) ('?' -('
+' $ +*$(.(' 5 $' (.+' -(,(. $-(' 3$!+4.(' :
6$' / ' ,' A(' 4. 4 '(' 4+.' +*$(-((*,' -(4 8(.'
-+*" 3(,' +.,$3 (' (" (24.('' $ *" 3 *' $,*$$ 6*((" -(#$ 3 *!'
'+3.(('/ (,' -(' -$.(' $ & (' 4 *0 $.' (2-3*,$#' ' 4.((' .('$-('
(23 '$0((*,' -+*" (" +$*" - ' . $ +' A(' *(' .+44(,(.+$4+"
3('5 (' +$' -(+' --0(44-' (' ++,$ $' (' 4 *0 $.' (2((*,$#' (',
-0'(' -+*" '+' , ,+ $ (' (*,.(' (" -$##(.(*," 3 $!4" 5 $' (2(,!'
3(. *,'' " +*, .$,(' (,' +' ' .0($ +*3(' - ' . $
' %# 3 .'7! " +0(U' (##((,$0(.+(*,' -$,' 5 (' ('. $' -,+$,'
('36(# ' 4.((' - ' 4 $,0 $.' (2-3*,$#7 +$" 0 " +.(" -$,'
+*,.(' 36 '(' 54(' (3 +' +*' $" -(' '(4,($).(' BHET7 0 *" +0(U'
--3.-,-' +' (.'+$ (" 5 (' (' 4 *0 $.' (2-3*,# '*4.#$ (' .-!'
'$-+$,'(23$ '$0((*$' -+*" (" +$*" - ' . $7' $*+$" ' +' #+
--#$*$.'3(,,('$--(/(,'0 *" +0(U' -$,' & (' 4 *0 $.' (2((*,$# *('
4(*,' $-(.' -+*" (" +$*" - ' . $' 5 (' 4+.' -((9+,$ *' (,'
+' *-$,$ *' 5 $' *(4 ..+' -$.('(2(.(-'5 ('4+.' -." $*$'!'
,.(".('4 *'+) (' ' $+' ((5 $' (',' .(*$%(. --+*'0 " -(3.(,'/
(,'3('5*(' * " 0 ,$" - ' .+44(3.',3$' 4 *.' .- *$.' -+*" +.1
,$3 (' *,(" (" * +*3($
%+., ' (',' +- 4,(
' 6 .(' #+$' (3, .(' -(' +.,$3 (' ' %
' .,' ' (' 4 *0 $.' -$3$+$.(' (',' -((9 (' +' -(" +9("
-$*" +' ,(4" 4+.' ('4(*4 (' :' !
*(5)(" ($*).(" -(. +*-(*,' 5 (' *' -$'3' (" # *3,$ *"
*-3+$.(' !
(,,(' 4. 4 '$,$ *' (,' #((,((
+.,$ (' ' ',-(3.((S
' 6 *.(!#+$' 9 9' -(' +' 4.($(.('('(3,$ *' - ' 36+4#!
%1.' Gh%
(' (,' -((.-,((' '+*" -$'3 ''$ */

@

-E ' , ' ' &

+' ., ' &.' ''( ) ((' *+,$ *+ (/ # . +*,' (' 3 .4" -9 '!'
+,$#/ (',' 4(.$)+*($$,(/ (,' * (',' (4 '-('5*(' -% $$(()+). 7

[illegible]

' ɩ' ' ;'7 >. / ,<51> =4,% 1'17 ;5.' <.' ?,47
;@ 67.18 6 5 < ;65 ?'6 >'<6 5'' #,<67 747 ,< 4<''471.'
;E 5> 5 .65.<; ,1.'?546 - >.<7=<.1 66. / 05..<.'>, 7
?'68 <.' ?,47 ?'6 1.-.< 1641 4<>. ;1.7; ,<65 747 ,<<.5%
.'>. / '<>.'>,<.'5'' ?1 , 7.?,41 '15 .5.'7.5 =4 5; 67
>'<6 5'' 6.;7 ,< ' >4?1,Q;7>.5 '.7.' ; ,<67 747 ; ,<.5%
66. / 05.;'>.5 0 .1.8 .7 5'' ?1Q, B7> .67 ' ; ; ,1>>.' ''
'17 ;5.' '> ' ?1,Q.7 > ';7,' ; ,467 747 ,<<.5%
#;7 '17 ;5.' .67>>;1>7. %

% - ' 'N .'>.;1.7 =4 ' '-' 5 >7.'1.<>4 .'CC
>>.. / 01.' ()* ?,17' 7 >.4@ > 6?,6 7 ,<68 4<.; ,<71.'
' 5.6 E, 5 6 .7 5.6 <6,5V'05.6ɩ '471.' ; ,<71.'5.6 .<E'<76
=4 ' 1.7 .<>1' .<7 =4;5=4.' ?,17 ,< >.6 0 .<6>.5.41
?>1.' / ,17 <6,5-'05.% .'?.<6.'=4 5 >, 7 >71.'> 78>'<6
.'?1,.>6 -.10'08 =1Q.'5.'>.;1.7 1.<>4 5.'CC >.;. / 01.'
()* .67 1; >4 7 '' 5'' ?'17 .'1.5'7 -.''4@ E' 55 6 .7 <6,5
-'05;68 =4 ' - .<7> D
% <,4 ,< 6 <5. / .<7Q '>,?7.8 / ' 6Q '?74 .'
5'' ?1,?,6 7 ,< >. % 1,<; : .5%
'' ?1,?,6 7 ,< >.' % 1,<; : .7 .67>>;1.7>.%
' - 'N .' -' 6 -,46 >,1 <.1 5.;741.'>.' '17 '
;5. %
' 45 <.' ?,411'' 51,' <, < / > >5.;7.418 6 5 <.'
1>4< 5 '4@ ; ,<> 7 ,<6 4.; .66' 1.6 ?,41 > 1.' ; 7,V.<
' ;7 E #.55.'>.' ?'V.1 4<.' ; ,<71 047 ,< > 1.;7.' >.%%8%
Q,41<. .'>.'71' -' 5%

% - ' ' % -.<5.<7 5.'>. .5,??. / .<7>.'
5'' ?1,?,6 7 ,< >.6 >.4@ ; , / 7.6 1.5'7 -. / . 7'' 5'' ; ,<M
> 7 ,< > .5 J 5 5 7.'?,41 >71.' 1.?1.6.<7'<7 .7 ?,41 > 1.'
.5.;7.418 Q.'-' 6 5''>,<<.1ɩ > 4<.'?' 78 5'' ; ,<71 047 ,<
>4 / '1;' > '1J.<7 .@ J.'?,41 ?,4-, 1 >71.' 1.->74 >4
7 71.' >.' 1.?1.6.<7'<7 >.' 5'' <'7 ,< '' 1.J4 >.' / ?1, '
0'7 ,<8 .7 5''>. / '<>.'>.'6,< 1'??,17 '' .7> E' 7.' ɩ >.'
'471.'?'178 .55.' '' 1.J4 >.' '66.<7 / .<78 < <,46 , ;M
;4?'<7 >.' 5'' 1.- 6 ,<8 ; .6 >.4@ / ?456 ,<6 > -.16.6
<,46 ,<7 .<J'J.6 '' ; ,<6 >.1.1 =4.5 .7' 5 5.' / . 55.41
6V67> / .'>.'1.?1.6.<7'7 ,<% 3 '<4 4< ?.4?5.' .5 7 ?'1
6.;7 ,<6 8; : '=4.' .5.;7.418 .< .5 6'47 / / .> '7. / .<78
.S 7 ?,41 5'' <'7 ,< .<7 .1.ɩ ?'1 ; ,<6.=4.<7 .55.''>1, 7
>.'6 '6641.1 ; ,<71.' 5.6 / .?1 6.6 =4 5 ?,411' 7 E' 1.8
'466 ' < V' ' ?'6 >.' ; ,<67 747 ,< ; ,< / .'=4 < ' 7 .7' '
05 ' 4<.' ; ,<> 7 ,< > >5 J 0 5 7.% < 6' 7 '66;0 =4.55.' .67
641 ; .' ?, <7 5'' >-.1 7.'>.' <J5.7.11.' .7 >.' / .1 '
=4.% #.77.'?1. .'47 ,< .67 ?: 6 4.; .66' 1.' ; : .0 4< J1'<>
?.4?5.8 E,1; .'> '> / .771.' 4<.' 5.;7 ,< / .> '7.8 '5,16
% 5''= '5 7.'> .5.;7.41 .67 4<.'E,<;7 ,< ? 05 =4.8 >,<7 5''
6, ; ;7.' '' 5.' >1, 7 >.'>. 7.1 / <.1 5'' >. .J'5 ,<ɩ , ' 5''
= '7 7.'> .5 .;7.41 .67 E' ; 5.' '' ,07.< 18 .7 ; , / / .' '5,16
.55.' < ,5E1.'?'6 4<.J'1'<7 .'6 5E5 6'<7.> <>.?.<>'<; .8
,< .67 ,05 J.'>.'1.<E,1; .1 5.6 ?1.;'47 ,<6 ?,41 5''<,M
/ <'7 ,< >.6 >J 65'7.416ɩ ,4 0 . ' ,< 1.<> ?546 > E5 '
; 5.6 5.6 / ,V.<6 >.' ?'1-.< 1 '' E 71.' .5.;7.418 .7 '5,16
,< 5. 1 '0'<>,<..'5.'5 01.' .@.1; ; .'>.'5.416 E,<;7 ,<68
.7 5.416; : , a'?.4-.<7 7, / 0.1 <> 67 <; . / .<5 641; .4@
=4 56 .<Q J.<7 5.6 ?546 > J<.6%
1.<,<6 ?,41 .@. / ?5.' ; .'=4.'<,46 '-,<6 E' 7ɩ ?,6
>5.;7.416 '?1.6.<7.<7 > '471.'J'1'<7 .'=4.; .55.'=4 ,<
?.<7 '7%7' ; : .1 '' 5'' -'5.41>.' > @Q,41<. .6 >.'71' -' 5%
,46 '-,<6 6.<7 ' =4 .55.' <.'1. / ?5 66' 7 ?'664EE 6' / '
/ .<7 ; .'=4 ,K '-' 7 >1, 7 > '77.<>1.8 .7 '5,16 <,46
'-,<6 / 6 >.6 .<71' -.6 '' 5'' E' ;457> &5.6>5.;7.4168 ?,<6
5.6 '-,<6 E,1.>6 > .5 1.' >'<6 5.' <, / 01.' >.6 ; 7,V.<6
=4 '?1.6.<7.<7 4<.'J'1'<7 .' ?546 >7.<>4.'>; &.41 <
>>?.<>'<; .ɩ / ' 6 ; .' / ,>.' < .67 ?'6 0,< Y; '1 ?'1 5''
,< ;@;547 >.6 : , / 1' .6 > 5 < / >1 7.'1.; ,<<48 .7 ,< <.'
1'66 1.'?'6 '66;0 ; ,<71.' 5.6 .5.;7 ,<6 / '4-' 6.6 ɩ .7
,< ?,411' 7 '-, 1 4<.' / '4-' 6.' >J 65'741;'; , / ?,6..'
> 5 , / / .6 =4 ' ?' .1' .<7 7,46 5.' / '1;' > '1J.<5G .'
/ . 55.41 / ,V.<; 67 >,<.'>.'?,17.1 5'' J'1'<7 .'641 5.6
>5.;7.416% '1 5'' ,< .67 ?546 '6641> > 4 '0,< ;5 ? @%
'E' 7%<Q,47;1 =4.'>'<6 5.6.5.;E.416 >, -.:7 1. 6 >.1
;6 < ,V;<6 5.6 & 5 6 '66 1>6 >.'J'1'<7 1 5'' ; : ,6.'c / 05 '
$=4,8 ?4 6= . . .67 > .4@ =4.'5'' <'7 ,< 1.; , 7 7,46 6;6

E,<;7 , / ' 1.6 N' 776 ' ,< ,4-1 1' 7 E > 67 <;7 / ;<5
7,46 5.6 ; 7,V.<6 ; '>.1< .1 >.J1.'>.'5'' 1;?1>6.<7'7 ;'
<'7 , '5;8 .' & ' <7.1 / .> ' 1.'6.1' 75.'?546 > E ; '
4 ,07.< 1% ,46 <.' ?,4-,<6 ?'6 <,46 > 66 <45;1 =4
'41' 7 .7. 5 < / .<7 '-'<7'J.4@> '>,?7.1 ; .' / ,>.8
.< 1.6457.' ; .?.<>'<7 ; .7 <; ,<-.< .1 78 =4.'0.'4; , '
?.1>.<75 '?7 74>; ' > >5 1.ɩ <[6 '466 ' <,46 , '-1,<6
7,46 5.6 ; 7,V.<6 ; J1'>.'>.' >5 JQ0 5 7.'<'7 <'5.%
7.1 / <.'?'1 ; .77.'>.1< >1.'1>E5.@ ,<8 =4.' ; ,' <.'6.<
1 .< E' 1.8 > '<6 <,71.' 6 .<68 =4.'>; '71'<6?,17.1 641''
.5.;7.4164<.; ,<71 047 / < ,> =4.ɩ=4 ;4.,<6.=4.<
66. / 05..'>, 7 6.>>7.1 / <.1.<51.5. / ,>.'=4 .5:'
'> / 68,4 5'' 1.;7 5 ; '7 ,<=4.<,46 '5 .<6 : S ?1,Q?,6
; ;67 > 1.'=4 '' '-.E7 18 ?,41 > 1.'.5.;7.418 5 E'7 >
?'V.1 4<.' ; ,<71 047 ,< >.'=4'1' 7.'Q,<1<; .6 >.51
-' 5% & < / 41 / 4-.'>'<6 5'' ?'17 .'J'4 ; : .%P
,41 '??1>; .1 5'' ?1,?,6 7 ,< ' ;74.55.8 B E'47 '
.@' / <.1 5.6 1>6457'76% '0,1><,46 '-,<6 ?.<6.'=4
>7' 7' '<7'J.4@ >.' ; : '<J.1 ,< Q,41<>.6>.'71' -' 5
/ '1;'> '1J.<78 ?'1; .'=4 .67 71,? 646; .?7 05.'>.' ; : '
J. / .<7% 34.5 6.1' 7 5.'1>6457'7 ?1'7 =4.'>.' ; ; .' ,c
1'7 ,< Z '<6 5.6 ?'V6 , : '5'' Q,41<. .'>; ' 71' -' 5 .67
> @6,46 8 5 64B 1'' > '-, 1 C ' 5 -8 >.' E.-.<4 ɩ >E
5.6 ?'V6 ,4 ? 5.'6.1'' >.' =4 <0.'6,468 5 E'4>1'' ?'Q
'5 -%ɩ ; .'= 8 '1' 6,< >4 6 @ . / ;8 E.1'' 4< 1.-.'
>.') ' 5 -%ɩ .7 >'<6 .6 - 55.6 ,?45.< .68 , '5'' Q,7
<>.'>.'71' -' 5 .67 E @>.' '' %<J7 6,468 5 E'4>1'' ?'Q
5 -1.68 ; .'=4 '64??,6.' '5 -1.6 %.'1.-.44 E,<;
% N .' ; : '11J.1'.<7 =4.'-,46 ?1,?,6.<7 J
; , < 7.6 .67 '<66 '>>5 ; '7 =4 / ?,174<7% 5 6 'J 7 > .6
/ <.1 6' 5.' .<E' 7 =< 56 6<??,6; <7 .67 1..5% .?'
5, J7. / ?6 ,< 1. ;5' / .' ; ,<71.'5'' ; ,<> 7 ,< ;@ J. .'
/ '1;'> '1J.<78 .76,46 ?546 ;4161'??,176.75;'>, 7>'
1,71'<; : ..% ,16=4.'>.6 .5.;7.<16 ,<7 .7.' ; : , 6 68
?,66>>.<7 7,46 5.6 >1, 76 >.' ; ' @ =4 ' 5.6 ,<7 >5 6N
< '??'17 .<7 ?'6 >.5.6 5.411.7 1.1.7>.' ;41 > 1.ɩ ;'
<.'?,411.0 E @.1 -,6 #: , @ _4.'641 >.6 ?.16 <<.6 7
1. / ?5 66.<7 7.55.' ; ,<> 7 ,<%8& < / 41 / 41.'>'<6 > -&
6.6 ?'17 .6 >.'5'' 6'55.% P '
,6 ; , / 7 6 -,46 > 6.<7 =4.'-,46 <.'>.-.0 ?'6 &
<.1 5'' 5 0.17V>.6 .5.;7.416Q .7 56 ; : .1. : .<7 '1,?,1
641 5.6 5.;7.416 ; .'=4 ' .7' 7 .@ J.'?,41 5 1.'1.?1 ` ;'
7'<7% '' ; ,<> 7 ,< .67 .55.'?546 E'-,1'05.Z ' .67 '' >
6 1.1 =4.'5.6 '66. / 05..6 >.6 .5.;7.416 6, .<7 <, / 01.'
6.68 '5 < =4.'5'' 1.?1.6.<7'7 ,< 6, 7 -.1 7'05. / .<7 <
7 , '5.% : 0 . 8 .< '>,?7'<7 5'' ?1,?,6 7 ,< 7
; , / 7>6 -,46 & / <4.0 0.'4;,4? 5.'<, / 01.'>.' ; ;
=4 '?.4-.<7 >71.' ; : , 6 6 >5.;7.416ɩ -,46 ?1 -.0%>.'
>1, 7 5.6 ; 7,V.<6 =4 ' .7' .<7 : '0 74>6 '' .@.1; .18
'4=4.5 56 >7' .<7?546 '77' ; : .6 =4 ' ; .54 '>.'5'' 1.?'
6.<7'7 ,< =4 56 < ' / 0 7 ,<4' .<7 ?'6% .<6.0 -,
=4.' ; .6 .5.;7.4168 7.56 =4 ,<5.6 ?1,?,6.8 1,<7 ; : , '
>.6 ; 7,V.<6 =4 ' <.' ?' .<5 ?'6 5.' / '1;'> '1J.<7Z
; ,<; .<71.1,<7 7,46 5.6 ; : , @ ?'1 / ' .4@% <.'E' ;4
5' 66; .'< .67 1 .<8 . .67 46'J.'=4 ,< .< / 411'' E''
=4 5 E'7 7 .@' / <.1% <47 5. / .<7 '41' 7 ,< > 7Q'> '
5''<,05.66.8 V,46 ?,4-.0 ; : , 6 1 ?'1 / '5.6 ; , / < 4 / '
$.55.'6 .< 6.1' 7 0 ;< J'1>. .%
,6 ; , / 7.6 ?5' ; .<75.'E'1>.'4'641 ; .4@ =4 '6,<7 '
?.5>6 '' 5'' ?5' ; .'>4 ?.4?5.' 'E' 1.'5.6 ; : , @ 8 .7 56 '
7'=4. 7 ?'1 5'' 5.6 -.1 7'05.6 6,41; .6 >; '5'' 1.?1.6.'
7'7 ,<% .< >,47.0 ?'68 4< ?'1; 5 >>.1.7 .@; 7.1' 7
1.;5' / '7 ,<6 .6 ?546 - -,6% < ' / .' ' >71.'?5' ; >
/ 5 .4 >.'6.6 ; ,<; 7,V.<68 .7 '1.; . , 1 5.416 : , / ['
J.6% & <.<7.<> =4.5=<.6 / 41 / 41.6%5 <> J.<7' '
'' 6.'71,4-.1 1'??1, ; : .'>4 1 ; : .8 =4 5 6' 7 ' / 0 7 ,'
<.1 6,< 64EE1'J.8 .7 >4 / , <6 ; .'Q,41 5'' 5 ?.1>1'' '-'
54 '6,< >>>' < ,1> < ' 1.% .'>. / '<>.'=4.'5'' ?1,?, '
1,< >.6 ; , / 7>6 <.'6, 7 ?'6 '> / 6.8 .7Q V7 .<6 7.55
/ .<78 =4.8 / '5J1.'5.6 1.;5' / '7 ,<6 =4 '6.'6,<7.5.->
; ,<71.'5.' / '1;' > '1J.<78 Q.'?1> .1.1' 6 5.'5' 66.1 '
1.?,17.1 6,1 5.6 '66. / 05..6 .5.;701'5.6%%& 5 .<7.'
=<.5=4.6 '??5'4> 66. / .<76%P

Ñ K5% < SW,6 Ĭ .6 ; , > 7 ,<6 ?_ ;4< ' 1.68 .7 J>.6
2P 1 71; .5 J O5. ' ,@ >J 65'7,1;686.1, 7 .55.61.-,
= 7..68 ;7 5.6 .@ J.1' 7 ,7 .< 7,47 ,4 ,< c '17 .8 ?,41
.71. >5..7.41Z .<> '<71.6 5.1 .68 71'<YP,17.1 E 7 ,<
8 47.J1'5; / .<7 ,4 ?'17 .55;1'.<7 5. / '1; ' .6 > J7O ;6
'4@ > .;7.416Z -, 5" 5" =4.67 ,<%

5.6 > ; ;7.416 ,<74<. ?1,?1 >5>8 4<. E,174<. =4;5
; ,<=4. " ?.1>1.% ;1,V.O =4. #,<67' / / . 7 .7 J; <>
1'5.7<;47 5.6 ; : , @ 6.1,47 0, 6I 5 < V '41" '4;4<.
.@;546 ,<8 / ' 6 >; Q467.6 ?1.E.1.<;.6%

,71. J'1'<7 . 6.1">'<6 5.41 7W_1>7 / > <.8 ;7 . <.
. ,< / 6 ?'6 >. ;'47 ,< =4 '1' 55. ; .55. 5'%

O'<>,<<.O -,46 " <7.1 7 ?.16,<<.58 .7 <. ;1'
J<.O ?'6 =<. ; .77. / .641. ' 7 O. '<;,4? >. >.J1>6 >.
5'7 74>.%

,OQ.7 >. 5" <'7 ,< .67 1. / ?5 8 6 5. ; : , @ .67 O ,<Ñ
8 > 6' 7 ! '5O" " 6,<
.< '66, ; '<7 " . / ? 1.8 & 546 -,46
>,<<.1.O >. ; : '<;.6 " 5" O,<<. .5.;7 ,< / . 5;416
6.1,47 5.6 ; : , @ $ .7 ?546 -,W6 >7. /5;O 5. ; .1;5=8 ?546
-,46 '1.O >. >.<4>.6 ?,41 4<. O,<<. > ; ;7 ,<% 664
1.OG-,46 >. 7,46 5.6 .5.;7.416 G ;7 5" 6'J.66; E.1" 5.
1.67.Ĭ ?'1 E"

' 6 6 -,46 .@ J.O8 > 1' 7 ,<8 4< >>< / '1; > '1
<78 ?'1 .Q; . 4?5.8 -,46 ?1,4,<..O 4< J1'<> ,< O1;
.@;546 ,<68 -,46 ' 5' O5 66;O 5" 5 67; >.6 >5.;7.4168
.5 -,46 ,55 ; 6.O .71'<J. / .<7 >J'5 7.%

.'1>?,4>6 =4 5 4 .67 ?'6 ?,66 O5. >; 5 .?'6 5" O5;6
6;1% . ; ,1?6 ?,5 7 =4. ;67 4< >71. '17 5 ; ; =4 <. >, 7
1 .< " 5" <'741.8 .7 =4 .75. < ' ,4. ?'6 ?,41 6,< ,4
-1'J.Ĭ 5 E'47 >,<. >;6;.<>1# >;5"7: ; ,1 . ;7 >.6 ?1 4
; ?.6 'O671' 56 '4@ '??5 ;'7 ,<6 <'7>1 ;55.6Ĭ 5 4.
E'47 ?'68 . ,< / . 5.6 J. , / 71.68 ;O.1;O;1 >.6 5 J<.6
6'<6 5'1J.41%

5V'>- >;<; . ><7 1. =4 < : , < / . =4 <.?' .
=4 <<. / ?,6 7 ,< >J'5. ; .55; >. 71, 6 Q,416 >; 71'M
-' 5 .67 ' ?.4 ?1>6 641 5" 5 J<; >.6 / ;4> '<768.7
;G;67 >,<<.1 " ; .77. ;5'66. 44. ?1.?,<>.1'<; . >'<J;
1.46; >'<6 5.6 '66. / O5>. % #9 6,<7 > ' 55.416 >.6 -, @
646;.?7 O5.6 > .71. ' ; : .7>.68 .7 4< ?1 @ '66.O E' O5.8
<; ,<-.< .<7 =4 < .67 ?'6 >J.1Ĭ 5 ;67 : .6, <.<; ,1.
> 54 . 6,17.8 4,< ?'6 >. ;45741.8 / ' 6 >; ; ,<<' 66'<
'4 / , <6 >.6 5, ; '5 7>6 .7 >.6 : , << .68 =4. >.6
J.<6 =4 < . ?' .<7 =4 4<. / ?,6 7 ,< >. 71, 6 Q,416
6,<7 ?1>64 / >6 < . ?'6 ' -, 1% B6 ,<7 .<6< 7. =4 4< <
7>1>7 < ; .17' <8 cP'17 ;58 ,< ?5 7 7 76 1.< ,47 '4;4<8
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dˢ ˢ; ˢ (ˢd+8 8;ˢ J1,4?.ˢ '<7 =4.8ˢ ; ,<<4ˢ 6,46ˢ ;ˢ< , /ˢ>.ˢ< >$ ˢ '?1.6ˢ'-, 1ˢ> .ˢ?'1ˢ E' 7. / .<7ˢ 1;67'41>8ˢ - .<7ˢ > >71;ˢ ?5'?>ˢ ; 8ˢ641ˢ '<ˢ ? >ˢ >.67'58ˢ '4ˢ / 5 .<>.ˢ5ˢˢ?1, / .<'>.ˢ?405 =4.8ˢ ˢ $ ˢ ˢ ˢ.67ˢ0 .<ˢ .<ˢ -4.8ˢ .7ˢ?1,>4 7ˢ 4<ˢ71>6ˢ0,<ˢ .EE.78

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@ ˢ 0 ˢ ˢ ˢ ˢ9 ˢ ˢCˢ

7Q<ˢ; ,411 .1ˢ '11 -.ˢ0 .1ˢ ˢˢUˢ0.<1.6ˢ>.ˢ1'?1.6 < >ˢ>.ˢ .7. 60,41Jˢ6 .67ˢ'11>7>ˢ ; ˢ =4.5=4;6ˢ / , / .<768ˢ .7ˢ .67ˢ 1.?'17ˢ> '0,1>ˢ? ,41ˢ ,<>1.6ˢ3ˢ'?1.6ˢ'-, 1ˢ1. / 6ˢ>.6ˢ >>?>; .6ˢ ˢ J1'<>ˢ?. ,6 ,<<' 1.%ˢ <ˢ 6' 5ˢ =4 .55.6ˢ6,<7ˢ 1.5'7 -.6ˢ 7ˢ5ˢˢ <.J , ; '7 ,<.<5' / >.ˢ .7ˢ64 - .ˢ '- .;ˢ ';7 - 5.
'1ˢ5.6ˢ?= 66'<; .6ˢ'> >.6ˢ? ,41%5ˢˢ?'; E ;'7 ,<ˢ>4ˢ ,1>%ˢ '0'6.ˢ ˢ '1 ˢ .67ˢ ; :'<J..ˢ ?'1ˢ5.ˢ>.1< .1ˢ / >ˢ / , 1.ˢ>4ˢ / < 67.1.ˢ>.ˢ ˢ <7 ˢ / .6%Iˢ 5ˢ< .67ˢ ?546ˢ=4.6M 7 ,<ˢ>ˢˢ ˢ1 ˢ, ˢ ˢ ˢ / ' 6ˢ >4ˢ ˢ1 ˢ 1.5'7 Eˢ05.V';7, Iˢ. .67 ' > 1.ˢ=4 .8 -,V'<7ˢ <47 5 7>ˢ>.ˢ 5.416ˢ .EE,176ˢ ?,41ˢ ,05 J.1ˢ / ?>1 71 ; ;ˢ " .>>.1ˢ'4@ˢ 41;6ˢ " ; ,<=4>7.ˢ> ;0' , [85.6; ,41]ˢ / >>5ˢ71 ; .6ˢ ,<7ˢ / 7 J>ˢ5.41ˢ V65. / .8ˢ .7ˢ ?1,^\ ,6.<7ˢ '4Q?4 > : ' ˢ =4.ˢ5ˢˢ K.66 .ˢ; ,<6.7 -.ˢ ; .77.ˢ ?5' ; .ˢ <?,17'<7.ˢ8 / ' 6ˢ=4.ˢ> ˢ / 0 <6ˢ > .ˢ .<ˢ E'66.ˢ '0'771.ˢ 5.6ˢ E,17 E ; '7 ,<6Iˢ 5ˢ < .67 #ˢ <6ˢ=4.67 ,<<,<ˢ?546ˢ >'<6ˢ ; .ˢ <,4-.ˢ'4ˢ?5'<ˢ> .@ J.18ˢ ˢ1.>> 7 ,<%>.ˢ5ˢˢ#1 / >.%ˢ <ˢ Sˢ '<6ˢ?. <.ˢ; , / 8ˢ 0 .<ˢ 5ˢˢ E.1 / .7>ˢ >.ˢ 5ˢˢ ;0'1 , .ˢ " >>ˢ / ?,6 18ˢ ?4 6ˢ =4 ,<ˢ .67ˢ ,05 J.ˢ > .<ˢ -.< 1ˢ " >.6ˢ?1,?,6 7 ,<6ˢ ' 66ˢ >,<..68ˢ '?1.6ˢ'-, 1ˢ;4ˢ ' 1ˢ>.ˢ-,45, 1ˢ <ˢE' 1.ˢ5ˢˢ5, Iˢ 1 ;ˢ<.ˢ / ,<71. / .3@ˢ5ˢˢ -.16'7 557>ˢ>.6ˢ ; '0 <.768ˢ .75 ,%<8ˢ <.ˢ? .47ˢ< .1ˢ=<.ˢ; .5ˢˢ<.ˢQ.77.ˢ4<ˢ?.<ˢ>.ˢ>.#'-.41ˢ 41ˢ 5ˢˢ?,5 7=4.ˢ>.6ˢ / < 65E.68ˢ7'<7ˢ>.ˢ ,<>1.6ˢ=4.ˢ>.ˢK.1M 5 <8ˢ =4ˢ6 .7' .<7ˢ.<J'J.6ˢ'5 >.5ˢˢ>.ˢ7.ˢ'1ˢE,1;.8ˢ .7ˢ .<ˢ E.11.6ˢ> .4@ / > / .6ˢ0.'4. ,4?ˢ 1,<ˢ5, <%ˢ 5ˢ .67ˢE,17ˢ'?M ?'1.<7ˢ =<.ˢ7 / ?.1'51 ; .ˢ<.ˢ -,4>1ˢˢ?, <7ˢ ' ; ; .?7.1ˢ; .ˢ >.1< .1ˢRRR.; RaR 8ˢ .7ˢ=<.ˢ5ˢˢ64?>1 ,1 7.=4 .55.ˢ ' ;=< 6.ˢ 5ˢˢ .<>1ˢˢ 1.6ˢ> EE ; 5.ˢ " ?1,?,17 ,<ˢ >.ˢ6.6ˢ64?; .6%%ˢ " 1.? ,<6.8ˢ=4ˢ .67ˢ .<; ,1.ˢ6. ;1.7.ˢ?, 41ˢ5.ˢ?405 ;8ˢ?,17.ˢ =7 ;0' , [ˢ <.ˢ 6.1ˢˢ ?'6ˢ1.>4 7ˢ " 5ˢˢ <455 7.ˢ=4.ˢ ; ,416ˢ .@ J.<7Iˢ 5ˢ / ?,17.ˢ 71,?ˢ "5'K466 .ˢ> '-, 1ˢ <.ˢ E,17.1.66;ˢ" ,??,6.1ˢ' @ / 4645 / ' 6Iˢ .7ˢ7 ,47ˢ ?,17.ˢ " ;1, 1;ˢ=4 5ˢE'4>1ˢˢ .<; ,1.ˢ =<.ˢ 5.6ˢ ?4 66'<; .6ˢ '55 >;68ˢ ?5 .<78ˢ .7ˢE < 66.<7ˢ?'1ˢ5' 66.1ˢE' 1.ˢ ˢ / ?>1'71 ; .ˢ7,47ˢ ; .ˢ=4 ˢ 4ˢ ?5' 1ˢˢ>'<6ˢ6,<ˢ '11'<J. / .<5ˢ .;ˢ5ˢˢ ,17.88ˢ % ; 64; ; .6ˢ>.ˢ5ˢˢ1. -,547 ,<ˢ E1' ' 6.ˢ ; ,<7 <4.<7ˢ '8ˢ E' 1.ˢ5.ˢ>.6.6?, 1ˢ>.ˢ <,6ˢ67'75P,4>>1 .<6Iˢ 56ˢ; , / <.<ˢ ;. 7ˢ " -, 1ˢ=4.ˢ5.ˢ ?'71 ,7 6 / .ˢ .67ˢ641ˢ <<ˢ ? .>ˢE,1/ %ˢ >'05.ˢ>.ˢ>.E.<6.8ˢ .7ˢ=4.ˢQ' / ' 6ˢ '4;4 ˢ>.6ˢ?1 <; .6ˢ '25.\ˢ / '<>6ˢ<.1 6=4.1ˢˢ> '55.1ˢ'77'=4.1ˢ5.6H1'<; ' 6Iˢ5ˢˢ; ,4Eˢ > 1'<J.ˢ< "?546ˢ> .6?, 1ˢ " ; .7ˢ .J'1>ˢ=4.ˢ6418ˢ ,<.ˢ ; ,<E.>.1'7 ,<ˢ ?.1'5.ˢ>.ˢ5 55, ' 'J<.8. 1 ,<ˢ71'V' %5.ˢ E, 7. / .<7ˢ ˢ .<. ;74.1ˢQ / ' 6ˢ 5ˢ .67ˢ '06,5<< .<7ˢ / ?,6M 6 05.ˢ=4 .55.ˢ?4 66.ˢ .71.ˢ?1 7. '-'<7ˢ5.ˢ?1 <7. / ?68ˢ.7ˢ> ;ˢ " #.77.ˢ .?,=4.ˢ5ˢˢH1'<; .ˢ6.1ˢˢ1.<E,E; ..ˢ >.ˢ / , 7 %ˢ +ˢ <ˢ "?4-.178ˢ / ' 6ˢ'66.76. 1.7. / .<78ˢˢ / 67.1>' /ˢ4<ˢ . / ?14<7ˢ? ,41ˢ ,<6 .418ˢ %ˢ> 17, 6ˢ .7ˢ >.ˢ7 ,7 8

<' '6641.'= .';.7 . / ?14<7% <.' ?1.<>'?'6 8 .7 =4'' 5.6
[65.1>' / , 66,<70 .< 5, J< '> V '- , 1' 5'' / , <>1.'
; , <E '<;. ' < > 7 ;.?. , >'07 =4.' 5'' 6 .41' K'1.V .7
; , / ?'J< E ,<7 E' 7 4<.' '-'<;.' >.' (' / 55.'E5,1 <68
/ ' 6 ; .67 641'5.6 > ' / '<76 >.' %>.' # , <>98 5- '54.6 ''
4< / 55 , ' $

=< ' ' % L ' - ' ' ' ; E

"

' K EN %

' ' ' F ' , '

' ' ' # ' 5 / ' ' % G

' ' ' ' ' ' '

' ; 'I .6 ; , / 7>6 - ,46 ?1,?,6.<7 >.'
64067 74,1' '' 7 <6 ; ,<> 7 ,< / '4-' 6.' 4<.; ,<> 5 , '
? 46 4Q467. .7 ? <6 ,< 1.46;'.<; ,1.% .6 <; ,<-.< . 76
6 '??5 =4,<7>' 7<<1''4 .'?546 E,17.''<<,4-.'4']V6 '
J / .% .'?.<?5..67 5'5 01.>. ; : , 6 16;6'1.?1 6.<7'<768
6 5 <;' .67 ?'6 >'<6 5.' ; : , @ >.' .6 <7.1 / >> ' 1.6 Z
.6 ; , / 7 ` 6< .?'1' 66;<7>'<6 4<.' ; ,<71'> ;7 ,< ; ,< '
7 <4.55.% ,46 '-.O 1. ; ,<<4' 86 1' 5.<7 ?1,?,6 7 ,<8
=4.' 7,<6 5.6 ; 5 V <6 ;7' .<7 '> / 66 05.6 ''7,47.6 5.6
E,<;7 ,<68 6. <6 '471.'> 67 <;7 ,< =4.' ; .55.' >.6 - .1746
; 5'>.6 7'5.<76% '=4, ' <,46 6.17 ; .57.' ?1, / .66.8 ?4 6 '
<4 ;55.' '' >7.' - ,5>.'641 5. ;0' / ?Z &34.5=4. ''??5'4 '
, 66. / .<76 >'<6 .@71> / 7>' >.' 5'' ?'17 .' J'4; : .' ;7
>'<6 5.6 71 04<.6%P 34.'<,46 <?,17.'=4 5 V ' 7 ?546
>.'<,05.66.' a , >'5.8 6 ' - ,46 V 645P67 74.O 4<.'> 67 <;M
7 ,< ?5461>.55.'8 ''5'=<.55.- ,46'77' ; : .O 4<'>1, 7 ?,M
5 7 =4.Z 7 =4,' / / ?,17.' ' < , ' =4 5 < V ' 7 ?546
> '1 / , 1 .68 6 5 E'<7 =4.' Q.' - ,7.' 'E71.' 4<.'77,4- .5 .'
;5'66.' > : , <<1 ;6 '' 5'=<.55.' Q.' 6.1' ' .@;546 - . / ;<7
,05 J.' 7 .' >,<<.1' / '' ; ,<5 '<; .Z #.77.' ; ,<71'> ;7 ,<
?.1 / .771' 7 >.' >,47.1' >.' - ,71.' 0,<<.' E, ' .7 >.' - ,71.'
,V'<7.% & .6 71 04<.6 '??5'4> 66.<7%P .' ; ,<- .<6
; .?.<>'<7 =4 5 E'47 4<.' J'1'<E .' =4 ' 1'66 5 # ; ,<51.'
5.6 > .;5.416 ' 6 ;67 ; .' 5''1 ; : E66.Z <>>?.<>'<; .'
.7 5'' ?1,0 7>' 6.' / .6 1;<7 ;5 .6 641' 5'' E,174<.'Z <
'17 6'<8 4< 5'0041.418 =4 '?' .<7> @Q,41<>.6 >.'71' %
'5 S -,5 ' 5.6 : , / / .6 ?546 <>>?.<>' 76 =4.' 5.'
1 ; : .8 ?'1; .'=4.' 5.416 0.6, <6 6,<7 .< ; ,1.' ?546 0,1 '
<>6 =4.' ; 1 E,174<.% 34, =4.' .;6 >.'6 6, .<7 / , '
'5.68 .55.6< .<6,<7?'6< , <6> J<.6> >71;?1>6>47>.6
' 1 66# / 05>.% & < 1 7 ;7 ,4 / 41 / 1.% + <. , @
6 >5E.- .N # .67 E1,? E,178 % ,0.6? .11.%P #.'<.'6,<7
?'6 5 '>.6 5 J<.6 6'<6 5'1J; 41% < <,46 '' ; 7>' .@. / ?5.'
4.6 <J5' 6 .7 >.6 / .1 ; ' <6% 556 ,<7 .4 7,17 6'<6
>>47.' > '> / .771.'>.6 5, 6 ; ,<51' 1.6 '4@ ?1 <; ?.6 >.'
5''Q467 ; .I / ' 6 ; : .O / @ ; .6 <; ,<-><.<76 6,<7 ;0 / '
?. 6.6 ?'1'> '471.6 0,<<.6 5, 6% 34.55.'>7' 7 5''J'1'< '
7 .' > 1 67 >.' 5,16= 5 6 0Q4J4'' 5.6 64EE1'J.6 >.' 5''
! 1 ; .' .<7 1.'Z #.'J1'<>' : , < / .'=4 8 '?1.6 ' - , 1' '> '
/ < 671>'5.6>.< .16 ?405 ;6 >.'6,< ?'V68 <.' 5' 66'' ?'6
>.' =4, '6.' E' 1.' .<7.11.18 < '41' 7 ?'6 71,4->' .<71>.'
>'<6 ' '66. / 05 .6 .5.;7,1'5.6% '?106 5.6 ?1 <; ?.6
>.' ' ; , / 7>68 <,46 >.-1 ,<6 1,4J 1' > ' - , 1' ; 5.- .'
<.' 67'74.' '' .'< ' ;=4.6 ,466.'48 ?'E..'=4 5 <.'
5 'V' 7 ?'6 5.' / '1;'> '1J.<7% ??1.<.O '' 1. ; ,<<' 71.'
5'' > J<4>' > : , / / .'>'<6 7,47 71.' =4 ' < .67 ?'6<,7.'
> E' / .% ' < .65 ?'6 -1' ' =4 5 E' 55.'>71.'1 ; : .'?,41
7.< 1' ''6,< ?'V6% '' 5, ' .67 E' 7.' ?,41' <1,7>J.1' 5.6
?546 E' 05;6I .7 < .67 5 ?'6 <Q465.' =4 ,< 5.41 7.'
7,47.' <E54.<; .'>,<66'' ; ,<E. ;7 ,<Z ,41 - ,46 >>; >.18
1>E5>; : 66;O =4.56 6,<7 ; .4@ =4 ' - ,46 ,47 .<- ,V>68
7' .<7 56 ; '5;45>6 641' 4< / '1;8 414 '>. / / '1;'
> '1J.<7Z .' - ,46 1'??.55.' '4 7171.'>.' - ,71.' ; ,<- , ; 'M
7 ,< N W ,47 H1'<J' 68 ,4 '<'741'5 6.'H1'<J' 68 ?'V'<7
4<.' / ?,6 7 ,< =4.5; ,<=4.8 >.-1'' > 1.''> / 6 '' ; : , '
6 1' 5.6'>5..5.416%Y ,46 <.'6]_/ / .6 >,<.' ?'6 ?4168

?< 6=4.' <,46 ' - ,<6 .7>' ; : , 6 6 ?'1'>.6 >5. ;5.416 =<Q
<.' ?'V' .<51 .<% & < '??5'4> 7%P
% / & 3'N '' > 6;466 ,<<.'?.'7>71.' ; ,<7 <4>.'
?546 5,<J7. / ?68 .< ; .'=4 .55.'7.<>' '' >>714 1;' ; ;'=4' ''
>7>' E' 78 .7 =4 5 E'47 =4.' 5'' # ,<67 747 ,< 1.67.' 7.55.'
=4 .55.' '' >7>'Q41..% & < '??5'4> 7 >'<6 H.@7 > / 7.'>.'
B' ?'17 .' J'4; : .%P Q , 06.1- .8 ? ,41' >>7.1 / <.1' 6 '
6. / 05>.8 =4.8 > '?1.6 5.' < ,4- .'4' 6V67> / .8 5'' - 55.'
>.' '1 6 '' -4 'J '<> 1' '4 =4'>14?5.' 5.' ; .1; ;' >.6
>5 J 05.68 ?'1' 5'' ; ,<- .16 ,< > .6 / ?>76 > E. ;76 .<
/ ? 76 <> 1. ;76% .'>. / '<>.'>,<.'=4.'5''# ,<67 747 ,<
1.67.' 7.55.' =< .55.' .67% & .6 '??5'4> 66. / .7 76 1. ; , / '
/ .< ; .<7%P
% .6 / . / 01.6 >.' .@71> / 7>' >.' 5'' ?'17 .' J'4; : .'
>. / '<>.<7 '' ?546 .416 1.?1 6.6 > '55.1' '4''' - , @%
% % '' M'I .6 .EE,176 =4 ,< E' 7 ?,41' . / ?> '
;<.1' =4.' 5'' > 6;466 ,< 6, 7 ; ,<7 <4. .8 .7 =4.' 5.6 .1 '
1. / 6= E' - .<<.<7> >71.'>.O 7>.6 6, .<7 1..7Q5 ..68 <.'
6.1' .<7 ?'6 6 ' - ,5.<76%6 ' ,<< .7' 7 ?'6 ?.164'>.'=4.'
5.'1>6457'7 >.6 >>0'76 E.1''Q' 55 1' 5'' 54 / >1.% .' / .'1>'
Q,4 6 >4' / , <6 >4' 0 .' '- .;'5.==.5 5.6 ?1. ,? <'<76
6,37 .<<; 7 5'' # ,<67 747 ,<8 .7'>.6 ;1' <7.6 =4 56 / ' '
< E.67.<7 > V - , 1' '??,17.1' >.6 ; : '<J. / .<768 &34.5 '
=4.6 / . / 01.6 >.'1.@51> / 7.'>.'5''?'17 .' J'4; : .' ; ,<'
7 <4.<7 '' >. / '<>.1'> '55.1' '4@ - , @%P 34 5 / .'6, 7
?.1 / 6 >.' ?1.<>1.' ' ;7.'>.6 '??5'4> 66. / .<76=4.' - ,46
'- .O 75,<<.6 '4 ; , / 7.8 5,16=4 5 '' E' 5 ?,41'5''?- ; '
/ 01.' E, 6 5. ;741.' >.' 6,< ?5'<% ,41'6.<7 1' 1.@71. / ;'
;7E<- .<'<; ,'>.'1.7 1.1' 5.' / '1;' > '1J .<78 5 64E5 7 =4.'
; .77.' .<71' - .'6, 7 '66.O E,17.'?,41'> , J<.1'>.'5'' >J 6 '
5'741.' 4< 6.45 : ,7< / ;' > J<.'> V >71.' '??.5.' ?'1'6.6
54 / .1.6% .' / .' ; ,<7;5 7.1' ' >.' 1'??,17.1' / ' 6; 5
.@. / ?5; 7.'< '5 '' ?1,?,6% ' '47.41'>4 # ,<7 '76,M
; '5 .7' 7 .5, J<>' >.' 5'' 5.J 65'741.' ?'1'5.'>.=1.7 >4'
/ '1;'> '1J.<78 < '41 .0 - ,46 ?'6 '' - ,46 1;?1, ; : ;1'
> ' - , 1' . ; '17.'4< 6 '> J<.'-.?1>6.<7'<7Z / ' 68 / .'> 1'M
7 ,<8 ' < .?,411' 7 ?546 .71. .5. ;7.41% .'>. / '<>.'
6 5 V '' =4.7=4;'?1,?,17 ,< .<71.'5.6 6.1- ; .6 =4 5 .67
?,66 05.'>.'1.<>1.'>'<6 4<.' ,4 '471.'>.' ; .6 E,<; '
5 ,<6% % , .>.1.1' '' ?'15.' >4' <,<-.'4' 6V67> / .'>;'5''
; ,<71 047 ,<I Q;' 54 ' 1.?,<>6 =4,' ; .6 ; : '<J. / .<76
6 '??5 =4.<7>J'5. / .<7''5'' ; ,<71 047 ,<>;6 .5.;7. / 68
.7Q.'>. / '<>.'6' ; .67 ' - .;'0,<<.' E, ' =4 ,< ?.<7 E' 1.'
46'J.'>.' ; .75.'> EE.1.<; .% .' - .<6>'5'' > 6;466 ,<>.'5''
6. ; ,<>.' ?'17 .' >.'5''=4.67 ,<% ' .67 >- >.<7 =4.' <'
7.1>7 >.6 '66, ; .6 .@ J.'=4.'5.6 >1, 76 ?,5 7 =4.6 6, ;45
; ,<E >6 '' ; .4@ =4 '?1 ` .<7.<7 5.'?546 >.'J'1'<7 ;'>5< ;'
0,<<.'W.67 ,<8 .7 5'' ?1,?1 .7.' .< ,EE1.' 4<.'66.O ..1'
7' <.% < < ,46 '' ; 7>' .@. / ?5.'>. ' '<; .<4.6 ; ,<67 M
747 ,<6 N .67 ; .' ; .55.'> 7: .<.68 ,4 5''=4'5 7.'> : , / ' .'
6 / ?5.' ; ,45>1' 7 7,4I'5.6 >1, 76Z 67 ; .' ; .55.'>. ' ; . '
>. / ,<.8 ,< '' ; , / / .<.>'?'1' / .771.'7,<6 5.6 ; ,< N
71'76'>.'?1,?1 .7.' '4 / 5 .4'>.'5'' ?5' ; .'?405 =4.?,41
5.6 <; .4> .1Z .'>. / '<>.' '' % ,0.6? .11.'5'=4;B.'
5 - ,4>1' 7 ;5 , 6 / '>.' ; .6 >.4@ .0467 547 ,<68 ' ; ,<'
- .<7 ; .?.<>'<7 =4 5 E'47 >.6 J'1'<7 .6 N ' <6 8 .<
?1.66'<7 6.6 ?1 <; ?.68 5 < .67 ?'6 > ' ; ; ,1>' - .;'54 '
<> / .I ; '1'?,41=4, '6 '11>7.1'?547>7 '' 71, 6 Q,41 / .6
>.'71' - ' 58 '' > @8 =4 5'=4'1'<7.'Z 5 .67 >,<.' . >.47
=4.'5. ?1 <; ?.'641'5.=4.5 ''7,41<>'7,47 ,< 1' 6, <. '
/ .<7 ; .67 =4.' 5'' 6, ; >7.' <.' ?.47 < ?,6.1' '4;4<.'
; ,<> 7 ,< '' ' ; 5 J 0 7>8 ?'6 < > / .' ; .55_1'>.' ; 7,V.<
' ;7 E% 8 % % I
% / & & 'N L ,<6 ;< , / < .08 ,<6 .41%
% K 4' bN '<6 / '?;1; .- , 1' =4.' =4.5=4 4<
/ ' 7 .11, / ?48Q.'1.?1.<>6 / ,< ,? < ,<8 .7Q.' - .<6
/ ' <7. / 47 ' ?1,4- .1' =4.'5'' ; ,<> 7 ,< .@ J..' / ' < '
7.<'<7 ?,41'>71.' .5. ;7.41 .67 <64E7 6'<7.8 .7=4 B E'47
5'' ?,17.1' '' =4'1'<7.'Q,41<..6% & < / 41 / 4- .'>'<6 5''
?'17 .' J'4# : .%P < .E7.78 =4.55.6 6,<7 5.6 ,0Q.;7 ,<6 Z
<> 7=4.' <; ,1< ?7 0 5 7.'1>6 >.'>'<6 5'' / .> , ;1 7.8
;7=4 5 <.'E'47 ?'6 '57.1' ; : .1; 5 .1'5'' ?1,0 7.' '4 / 5 .4
>.6 6>>4;7 ,46> 4<.'E,174<.' ,?45.<7.NQ .< ; ,<- .<6 '
/ ' 6 ?,<1' ?'V.1' 4<.' ; ,5 51 047 ,<>? ' 5 - i' ; .' = /

64??,6.'4< 1.-.<4' 4.' 6,' -%8 _ ,7 ,< 6 '57;<>1.' "
971.' ';;46.' > E7?;' <E.;7.'>.' 7,46 5.6 - ;.6 754' 54@.'Z
.'>. / '<>.' 6' ;.6 7'05.'4@ ;:'1J.68 =4,'5" 5,JQ=4.'
>.6 ;: EE1.6 >.714 7 6' < 4; 05.1'.<78 6.<7 > ;7.6 ?'1'
5" 0,<<.'E, % # .67 >'<6 4< >7'7 =4' / .7 '4 >.6646
>.6 >.1< .16 0.6, <6 <4.'5"<'7 ,< " <7 115 >. 71,4 '
-.1 >.6 .7.;7.4168 55.' >, 7 5.6 ;:.1;:.1 ?'1 / ' 5.6
?.16,<<.6 =4' 6,<7 <7;1.66>.6 " ;.'=4.'E"Q467 ;.'6, 5
.J'5. / ;<7 1.<>4;'?,41' 7,4 % .' ;' >. / '<>.' '4@
0, / / '6 >.'0,<<.'E, 8 ;'1' ;.' < .67 =4 ' .4@ =4.'Q.'
?'15.'Q .'=4'?<7 <7.1>7 " ;.'=4.' '> / 671'7 ,<
6, 7>?4;.8 5.65, 6 6'J.68 .7 " ;9 =4.'5"Q467 ;.'<.'
E'66.'';;.?7 ,< >.'?.16,<<.8 <.'6,<7 56 ?'6 ?17,>G'
/ .<7 ;.4@ =4' ,47 =4.5=4.';:,6.' '?.1>1.Z ;.4@ =4'
?,411' .<7 .71.'J1.-.6 ?'1'4<.' '> / 17 671'7 ,< < =4.'
.7 >.6Q4J. / .<76 <>=4 7'05.6 >, -.<7 >71.'?1.64 / .6
546 <7 / 66 `' " ;:, 6 1' >.' 0,<6 5.J 65'7.416 .5 >.'
,<6Q<J.68 7 6' ,< 71,4-.' .< .<@ 5<.'J'1'<7 .'>.'
?5468 ?,41=4,' ?1 -.1'5"<'7 ,< >4' >1, 7 >.'E 1.'6"
;,<67 747 ,< 5" / . 55.<1.'?,66 05.'Z 34 ,<<.' / .'>76.'
?'6 =4.'5.6 <,< ? ,?1 >7' 1.6 ,47 4< < 1>7 > EE.1.<7
>.6 ?1,?1 .7' 1.6 % #.54'=4' .67 5.'?546 .< -4.8 " ?546
> < 1E 7 " 6.' / .771.' " '01' >.6 '046 >4'?,4-, 1%
7.6 -,46 >.' / 9 <.''6641.6 =4.'5.6 <,< ?1,?1 .7' 1.6
J'1'<5 1' .<7 0 .< 5.6 ?1,?1 .7.68.7=7 56 <.'E < 1' .<7
?'6 ?'1' '77'=4.1'5.6 E,<>. / .<76 >.'5" 6,; .7.'Z ' 68
> 7 ,<8 -,46 '55.0 ?1 -.1'5.6 ;7,V.<6 > 4< >1, 7 >,<5
56 6,<7Q'5,4@% ' / .' "5.'#1, 1.I ;.?.<>'<78 E'47 5
5.'> 1.8 < '-.0 -,46 ?'6 -4'=4.'0.'4;, ?> .5.;7.4168
5, < >.' 1.J'1>.1'5.41' E,<;5 ,< ;, / <.' 4<.' > 65 <;'
,< :,<,1'05.8 ,<7 1.J'1>. .' ;, / < .' ,<.1.46.8 .7
,<7 6,55 ; 7.'4< 71' 7. / .<7Z & < '??5'4> 78P 34 5 / .'
6, 5 ?.1 / 6 >.' ,06.1-.18 ; .67 " ..5"=4 , '>, 7 '7'
71504.1'5'>>6.17 ,<>.6 '66. / 05. .6 .5.;7,1'7.68 ?4 6=4.'
>'<6 ;.77.';'? 7'7.' / . / .' ,< " -4' >.6 ;:, @>.'>.4@
;.<76 .5.;5.416 6.45. / .<78 #.'< .67 ?'6 ' '>.E'47 >.'
?'51 ,5 6 / .'=4 5 E'47 '771 04.18 ? 6=4.'6,< :.4'
1.4@ E.1 / .<7 'J 7.' .<;,1.' 7,46 5.6 .6?1 76% '=4 '
>,<.' '771 04.1Z ' ;.'=4.'-,46 '-.0 6,4< 6 " ;.77.'
E,<;5 ,< >.6 ?.16? 4;6 =4.'-,46 >>1'?J.0 ?'1' > >.'
5.416 6, <6Q,41<'5 .16I ;78 ?,41'=4 5<.'-,46 6, 5 ?'6
?.1 / 6 > .< >,47.18 .55.6 ,<7 E <1?'1'-,46 >.< '<>.1'
4<.' <>. / < 7> ?,41' 5.'7. / ?6 >.'5.41'>.?5';. / .<5%
.6E > '?1.6 ;.6 ;,<6 >.1'7 ,<68 .7 <,< > '? 6 5.'
6;14?45.'=4'-,46 ?,17.1' 7>'6'<;7 ,<<.1'Q46=4 " -,6
E'47.6 .7Q46=4 " -,6 / .?1 6.6 0 .< ;,<<4.68 =4.'Q.'
;,<;546 ?,41' '- 6 >.6 ;,< 7>6% & < '??5'4> 7 >'<6
5" / 'Q,1 7.'>.'5" ?'17 .'J'4;:.%P

% K40,7 ?'1' 7 "5" <:4 .%

<>. / '<>.'> '55.1'<@ -, @%

% K<0, N .';1, 6 =4 .67 <.;.66< 1.'>.'1' / .<.1'
5" > 6;466 ,<'4'-.1 7'05.'.7'7 >.'5'Q 4.67 ,<8 .7 ; .67
?1.; 6. / .<7 "5" / ,7 ,7'E' 7.'?'1'4< >.6 ? .,?<'<76
=4.'Q.'1.- .<6 .<;.' / , / .<7% ,46 >. / '<>, 6 =4.'5"
#,<67 747 ,< 1.65.' 7.55.'=4 .55.' .678 ;'1' <,46 '-,<6
?1 7.'6.1 / .47 >.'5" 5' <7.< 1% ' ,< -,46 E' 7 ;:'<M
J.1'4< '17 ;5.'=4.'-,46 '-.0 >.;1. .''?1.6 5">6;46M
6 ,<5" ?546 6,5.<<.57.8 1 .< < . / ?U;:.'=4.'-,46 <.'
;:'<J ;0 '466'5.6 >.;1.76 641'5"<,< 1..5 J 0 5 7.8 =4.'
-,46 < '77'=4 .b 5" 5,'=4'> 7 =4.'5.6 / . / 01.6 >.'
66. / 0 ..'<'7 ,<'5.'<.'?,411,<7 ?'1-.< 1'4' / < 6'
7`1.% & < '?? '4> 7 >'<6 1.@71. / 7.' J'4;:.' >.'5"
?'17 .'J'4;:.8 + < ' '>'<6 5.6' 1.6 ?'15 .6
>.'5" 6'5 .%P ' -,46 1. / .77.0 .< > 6;466 ,< 7,<6 5.6
'17 ;5.6 >.'-, 1.'#,<67 747 ,<8 ; .77.'> 6;466 ,<?,411"
0 .< -,46 / .<.1'.<;,1.' " >.<@ ,<71, 6 / , 6%

' / .6.1'05.'=4 ; '>.6 ;,<6 >.1'7 ,<6 ?'17 ;45 E.1.6
' 5" - 55.>.' '16 <4 6.<7" 5" ;'46.'>.6 ?1,- <;.6I
.7 ;.?.<>'<7 5.6 ; 7,V.<6 >.' '16 ,<7Q41.8 ;, < / .'
7,<6 5.6 '451.6 ; 7,V.<6 >4'1,V'? / .8 5.' / ' <7 .< >.'
5" #,<67 747 ,<% '1'5.'6V67 1, . =4 ,< -,46 ?1,?,6.8
-,46 '55.0 .@;541.'>.6 '66. / 05 .6 .5.;7,1'5.6 5" ?54j'
?'17 >.6 ; 7,V.<6 >.6 ;'1,?'J<.6% G
'?1.6 ;.5'8 6'<6.<71.1'>'<6 5.6 / ,7 E6 >=' ?1 '

? <'<78 ;'1' <;,<-><.<7 641' ;=4.5 5 6 .67 '??4V '
7 .<7 "5"5,<J4.41'>.6 .5.;7 ,<68 . .67 > 1.''4@ - ;.6
>4'6;147 <'=4.'-,46 '-.0 '>, ?7.I '<6 . 71#18 > 6 Q.8
>'<6 ;.6 / ,7 E61Q <6 67.641'5.6 <;,<-.< .<76 =4.?1 '
6.<7.' 1.@.;47 ,< >.';.'6V67> / .8 .'> 6 =4.'-,46 <.'
?,4-.0?'6 97.18'4@ :, / / .6 =4' ,<7';74.55. / .<7 5.'
>1, 7 > .71.' .5.;7.4168 ;.'>1, 7 =4.'-,46 5.41'-.0
>,4<>'?'1'4< > ;1.7 6,5.<<.58 .7 >,<7 -,46 '-.0Q41.'
>.'5.41'J'1'<7 1'5" ;,<6.1-'7 ,<I 6' -,46 5.6 .<?1 -.08
1 .< , . / ? ;:.'=4.'-,46 4 '77'=4 .0 7,46 5.6 '471.6
>1, 76 >.6 ; 7,V.<6%

#.17' <. / .<7 ; .67 4<.' .11.41' >4' ?1 ,? <'<7 =4.'
>.' ;1, 1.'=4.'5.6 >1, 76 ?,5 7 =4.6 7 .' ;,<6 67.<7 ?'6
>'<6 5.' >1, 7 > .5 1.% " E';457.' >.'?,4-, 1' .@.1;.1'
/ ?,17'<5.'E,<;5 ,< > .5 1.' ;,<67 7<.'- 1 5'05. / .<7 '
7'7 ?,5 7 =4.'>4' ; 7,V.<58 <.> 7.6?'6 =4 .< 1. '
?,17'<7 641'5.6 .5.;5.416 5" ;,<> 7 ,< ';74. 5. / . 7
.@ J. .>;6>.?47 6 '5"5.J 65'741.8 -,46 , E1.0 4<.'?546
<,05.';'11 1.' " ' / 0 7 ,<>.6 ; 7,V.<6% .';1,V.0 ?'6
=4.'5.6 :, / / .6 > / .' -.174' '467E.1.8 =4.' >.6 % %
,466.'4@6, .<7Q' / ' 6;:, 6 6?'1'4<.''66.< 05 .';5;;'
7,1'5.' < =4. / .<7 ;, / ?,6..' >.'J.<6 1 ;:.6% .6 '6M
6. / 05 .6 5.;7,1'5.6;:, 6 66.<7 ?1.6=4.'7, Q,416 >'<6
5.41' 6. <8 ,< ?'1 / '>.6 :, / / .6 > 4< 1'<J .7 > 4Y;'
E,174<.' J'5.' ,<64? 1 .41.%

' 6 ?'1'=4.5 / ,7 E > 47 5 7 '?405 =4.'. " J.1' 7 ,<
>.6 .5.;7. 16 4<.';,<71 047 ,< >.'&54'1'<7.'Q,41< .6
>E7 '-' 5Z .6Q4 .6 >.'?' @ <.'?' .<7 ,<.'> @Q,41'
< .68 .7 ;.?.<>'<7 ;.6 :, / / .6 6,<7 47 5.6 " 5" 71'<'
=4 5 7 '?405 =4.8 .77,46 5.6Q,416 ,< -,46 'E' 7 .'
5,J.% .'> 6 =4.'5.6 5.;7;416 < ,<7 ?'60.6, < > 71.'
1 ;:.6% '<.'6 'J 7 ?' '>'<6 5.6 '66. / 05 .6 5.;7,1'5.6
>.'>;= 0 1.1I 7 < V E'45 ?'6 >.6 54 / 1.68 <' 6 >.'5"
?1,0 7.% ,45.0 -,46 71,4-.7 >'<6 ; .57.';,<71 047 ,<
4<.'J'1'<7 .>.' <>.?.<>'<;.'>.6 .5.;7.4168 .:'0 .<8
.@ J.08 ; , / / .'>'<6 5.6 ?'V6 =4.'-,46 '- .0. 7 6 8
C ' " 5 -%8 ;'1'?,41' .6? ;.'> <> ?.4>'<;.'= .'
-,46>.6 1.0 U ' 5 -% <.'6,<7 ?'68 ' / .6 V.4@8 / .'
J'1'<7 .'64E5 6'<5.% 88 '< 1,<71' 1.8 -,4 '<.'?,4-.0
?,17.1' 5.'?1 4; ?.' '466' 5, < =4 5 >, 7 '55. ' 5 .67
<47 5.'>.';:'<J.1' ,1>1.'&5.'#:,6.6> Q" .7'0 % ' <;'
/ .4@ <, 8 ;,<6.1-.1'5" ;,<> 7 ,< >4' / '1.'> '1J.<7
?,41'E.6 / . / 01.6 >< ;,1?6 5.J 65'7 E8 =4.>.>>4' '
741.1'5.'6V67 1'.'>.'5" 1.?1 6.<7'7 ,< .< 5" 71' 6cP,1'
'7'<7 641'5.6 .5.;5.416% ' .67 .7,<<'<7 =4.';.<@%=4 ,<
" ;' ';;46 6 >.' 1. ?405 ;' / 6 / .'6, .<7 5.6 ?1. / .16 >
;, <0'771.?,41'5.' / ' <7 .< >.'5" #,<67 747 ,<%

% K'1<'-.'?'1' 7 " 5" 71 0<<.%

< >. / '<>.' >'<6 > -.16.g ?'17 .6 >.'5" 6' .8 ;5
<,7' / < .<7 >'<6 .@71. / 7' >.'5" ?'17 .'J'4;:.8 =4.'
5" > 6;466 ,< 6, 5 E.1 / ;8

' '% .' -' 6> 1;%%%%%%

' ' I 4@ -, @8 '<@ -,7@%

' * ' N .' -' 6 >. -.5,??.1%8%8%

' * ' I " > 6;466 ,<_G67 E.1 / ;.I'4@
-, @8 '4@ -, @%

' N % ,.>.1.1'"E' 7 " / ,7 ,< > ,1W%
>1.%?546 ;416 ?.16,<<.6 6.'6,<7E' 5 <6;1 1.'?,41?'15.1'
641';.77.' / ,7 ,< > 1>1.% "?'1,5.';67" % K'1<'-.'7
,< >. / '<>.'=4 5<.'6, 5 ?'6 .<7.<>4%%%%%

8 ' 5 ,<8 <,<I ,< >. / '<>.'=4,'
5" > 6;466 ,< 6, 5 E.1 / .%

'; ' N " / ,7 ,< > ,1>1.'.67 =4,8 ;, E,1'
/ > / .<7 " 46'J.' >.' 66. / 05;.8 5" > 6;466 ,< 6, 5
<7.7> 7.' ;,<51.' 5" #,<67 747 ,<% < 6.' 1'??. 5.'&Q4.'
>'<6 4<.'>.6 >.1< .1.6 6.'<;.6 % '5,4;7 " .7;' < %
7.11, / ?4' ?,41' ;.77.'1' 6,<8 .'>. / '<>.'>,<.'=4.'5"
> 6;466 ,< <.' ;,<7 <4.'?'6 ?546 5,<J7. / ?6 641' 4<.'
> 6?,6 7 ,<'=4'7.<>".@ J.1'U 'Q,41<; .6>.'71'-' 5 ?,41'
5 <.'E,<;7 ,4' , 5 7< .< E'55' 7 =4.' M [' '1 ' '>. .1.7
>4' / '1.> '1J.<78 , / 6>'<6 5" #,<67 747 ,<8 V 6, 7< '
7'05 %

% ;'?< 6 >.<7;,<64 .'1 66. / 05;.'?,41'6'-, 16'
5" > 6; 66 ,4 ;67 E.1 / ..'641';.77.'< ,7 ,4 > ,1>1.%

((

' 66;0 ?, <7 '11.7.1'? 1' ;6 .,<64 .1'7 ,<6 6? ; .46.6
k4.' ,<6 ?1 6.<7.<7 7.4@ =4 8 5,16=4 56 '7 1,<7 1.E5 '
: 8 1.;,<<'771,<5 5" ?7 1;7 '>.'<,6 <7.<7 ,<6 .7 'G
-'<7'J.' >.' <,71.'1>6457'7% 5Q,47,';.'=<' "
5 78 =4.'5.'<,4-.'4 6V67>/.'>.;,<71 047 ,<'> 7< 4.'
5.'0.'4;, ?'5.6 <;,<->' .<768 .7=4.'5"5,-<, ,<'?1, '
5,6.'< '41" 6,4 .5 .7 =4.' >'<6 >.<7 '<6% <'<,46"
5 7 =4.'<,46 '55 ,<6 .<5.-.1'4@ # 7,V.<6 4<'>1, 7=4'
I.6 :,<,1' 78 ?'1 "6.45.'?,66 0 7>=4 556 '-' .<7 >.'
';=4.1 18 .1.?,<>6 =4.' 6 5 6 5 J 7 >.' ?,66 0 5 7;8
Q4.' 6 5 6 'J 7 > :,<<.417 5";'11 .1.' =4.' -,46 5.41
54-1.05.41 / ?1 / .4<'?546 J1'<>';'1';7E.1.8 .7 ?546
5,<E,1 4.'4@ ?1 <; ?.6 >.' JJ'5 7>% << 4 ?'6 /'<'
Q4>'<,<'?546 >.'<,46 1.77';.1'5.6 <;,<-.< .<76 =7Qc 5
'-' 7";:'<J.1'5"#,<67 747 ,<8 .7 /,''466' .'>.6 1.'
? .55. .';:'<J.' ?'6I ; .67 ?,41 ;; "=4 E<.'E,<7
\'6 V <71, 54 1.'>.'> 6?,6 7 ,< / ?14>.<7.'=4'E.1' 7
.<7 1'5" <>;.66 7>'> 4<.' ;,<-.<7 ,<'<'7 ,<'5.% <'4<
<,78 '-6 >.6 ;,/ 7.6 .67 5"6.45.'J'1'<7Q.'>.'5" ?1,I '
5.1 7.'.7 >.' .7'7 ?' 6 05.>.' ./?1.% & <'??5'4> 7%P
< >./'<>.'=4.'5" > 6;466 ,< 6, 5 E.1/>.' 641
"=4.67 ,<> ,1>1.'EZ 5.'Q '1% % ;.>.1.1%
"> 6;466 ,< .67 E.1/..%
' "?1,?,6 7 ,<>.' % ;.>.1.1'. 71.Q.75>.%
% 5 ,41.7 ?1.6.<7.'4<.'1.>';7 ,<'>.' '17 ;5>' 5E%
B45 <.'?,411".71.'<, / / .. .;71418 6 5 <.'1#4< 7 '4@
Q,<> 7 ,<6 <.;.66' 1.6 ?,41 971.';7,V;<'.7 E ;.5.'>.'
?'V.14<.' /?,6 7 ,<'> 1.;76 >.'U 'Q,41<>.6 >.'71'-' 5%
' /'1;' >'1J0<7 .@ J>'?,41 ?,4-, 1>71.''>/ 6 '4
;,1?6 >J 65'7 E.67 64??1 /.%
' # 'N 34'<>' ;.7 '17 ;5.'6.1">>;1>7.8 Q.'
>./'<>.'=4.' 66./0 .;'>.;>.'5.6 >. @'> 6?,6 7 ,<6
=<'?,17.<78 <<.8 =4.'5.6 /./01.6 >.;.77. 66./05>.'
5.'?,411,<7 ?' '>71.'1>.546 >5" ?1./ >1.'5.J 65'741.I
'471.'=4 56 <.'6;1,<7 ?, <7 '>/ 66 05.6 '-' 7= '71.'
'556 '4@ ?5';.6 >4 / < 67.1.% & <'??5'4> 7 >'46 >'
-.16.6 ?'17 .6 >.'5" '55.8' $
% ,.,. N #. ".67 0,<'?,41'1'6641.1'5"<'7 ,<8
.5 6'-,46 -,45.0 -,46 .?'1J<.1' 4< 7,11.<7 -(?.7 M
7 ,<6 = '-,<7 E,'>1.'641'-,4 %
% & N ,41 /.'6.1- 1>.' .@?1;66 ,<'>4 J1'<>'
0, / /.'>,<7 5.6 J1'<>6 . -><./.<56 =4'6.'6.<7 ?'66.68
.7 ;.4@ =4 ' 6.'?1.?'1.<7 .<;,1.'<,46 E,<7 7,<6 5.6
Q,416 1.J1.77.1'>'-'<7' '5" ?'.17.8 Q.'>6 =4.' 5" ?1,M
?,6 7 ,<=4'- .<7 > .71.' '7.'E4 7> 6?'1' 71.5 <;,<<4%
55;' /.'?'1' 7 5"1.E47'7 ,<5"?546 ;,/?5.7.'>.';.'=4'
-.1 7 > .71.'> 7%
' 66./05>.'?'66.'U ,1>1.'>4 Q,41 641 5" ?1,?,6 M
7 ,<'>. % '<Q4 <' 6%
'$(." (4$).(" -((2,.- $,-'-(+'4+.,$3 9+ 1
36(-(+ -(*, + 5 (',$ *' 4.-++) (' ' +0$" -("
3 $,('
< .67 - -./.<7 'J 7# >'<6 7,47.6 5.6 4+. $(" >.' 5"
6'55.' % ' 8 8
66./05. .'>.;>.' =4 S V " 5 .4 ' >. 0.1;1 641
5G'-6 >.6 ;,/ 5.68 +' 'J %7'7 ,<'1.>,405.%
'+ '?1.<>'5" ?'1,5.N .'>./'<>.'=4.'5";,<M
> 7 ,< 6, 71#>4 7.'' -4 J7 Q,41<..6 >.' 1'-' 5I 6'<6
;.5'8 >'?6 ;' /?'J<.' , 5 ?1.6=4.'5,46 5.6 :'0 7'<76
6,<7 E.1 ;16 .7 <.' ?' .<5 ?'6 >.';,<71 047 ,< E,<'
. .1.8 -,46<.'71,4-.1 .0 ?'6 > .5.;7.416% & <'??5'4M
> 7 >'<6 ;@71. / 7.'>.'5" ?'17 .'J'4;:.%P
% 6, I .'>./'<>.'=4 '4@ ;,<> 7 ,<6 ?1,?,%
6..6 ?'1' 5.6 ;, <7#6 ,<' V Q, J<.';. 5.'>'-, 1' 4<.'
?1,?1 .7#% 8 d
% ', #K 1 .'>./'<>.'5" =4.6 ,< ?1;% 5'05.'
<,<'6.45./.<7 641' 5.6 ' .<>; / ;<76 ?1,?,6>68 /'<
.<;,1.'641'7,46 ;.4@ =4'7. >1' .<7 " '4J /.<7.1' ,4 U
> / :4.1 S" ?1,?,6 7 ,< >;6 ;, < 7.6% 1,?,6.1' 7 ;6
'/.<>.1'.<76 ; .67 1;;,<:' 71.' =4.' &" #,<67 747 ,<
?.47 '??,15.1' >.6 5 < 7.6 '4@ E,<;7 ,<6 > ;5.;5.416%
,47.'5" =4.67 ,< .67 >,<.'>;'6'V, 1 6'5.';,< ' "5 @>
4< '7.1/.'Q467.' 8 ;'1 5 .67 7. 5; <;<7 : ;< '> =4>
4 , ' <.' 6' 1' 7 .4J / ;<7,1 ,4 5.' > < <4.1 6'<6

,)(.' -+*" ('$*3 *0(*$(*,".(4. 36(%" + '3 $,-/
'-+*"3(2'5 $'0('- ,. $.(' $! (' % /
' ' ' 8'+' -("3+*, *" $'0 '*(D
,. 0(.(U'4+" - $(3,(.'
' ,$ @,I ' .67 <.@';7>.'>1.'=4.'5.'7'4@? ,-'
? 6.'?'1'5.';, : ' .67 E@# 641'7,47.6 .6 E,174<.6 ?, '
6 05.6% '<6 5.'?'V6 >.' J1'<>.' ;45741.8 , 5 5.6 '
-<J7 #/.6 >4 6,5'??'17 .<<.<7 2 >.6 ,E >, / ;15 #68
;.5 '= '41" 5.'5'0,41'>.'U " ';:'117 .68 .7 =4'/ 1'
0.6, <'?,41'5.6 E' 1.'-'5, 1'> 4<';'?7'5 >.' ('5'-%8
<.'?' .1'8 ?'1'5.'6.'5 E' 7>.'6,< ?,6 7 ,<% 5 .' '5 %8
.7 <.'?,411" ?'6 U71.' >5.;7.41% 'k7 ' ' 0 ''
< ;.'>' ' ,71.'6V67 /.'> /?,6 7 ,< .67 / '4-' 6%P
* ' ' .& ' ' . *36(,'-(+*-(' '5 ('1
,$ *' 4.3 +) 3' ' .' , " (" + (*-((,'7 (' 0+$"
(,,.(' +'5 (',$ *'4. ++) ('+ 2'0 $2
% $', # =# ' A $*'$',(/ ' ('4.\ $-(*,/
4 .'+0 $.' +'4+. (7 0 "*('4 0(U ('+'.(# '(.'
' ,(. ' ,$*('9.+*-('4+.,$3-('#' ''3 $) (('
(,+ ,'$ 4+,$(*,('- + (.'+ 2'0 $ / ('*('4 $"+33 .-(.'
*$.(# '(.' +'4+. ('+'4(.' **(7 ('*($ $"5 ('3 *!
'$$,(.' ''( ) ((
'$" *"0 $ ' ' , $$ '5 # J '$.'
+' +'4+. (/
' "& ' A('-(+*-('5 *'. - $'(' ('* % $).('
-(' .* ("-(',.+0+$# ',#(*,(/
' , # # ' (',' ' ., +,'2 3(*2'5 *,'OI,F
'(4,'# "3(*,.(' ('- .(,' -+' +.3 -+$%9(*,= 5+ $'- $,' ,.(
4(. $"-('3 *,(',('(*3 .('3($,('# $" +'4 .(,('3 "4.$*3$4("
-' $ $, 7 (, ,'5 (' (' ,$# -(' (4. ' ,+*3(' $(*$ - $,'
'(*,$ (*,')$(*' *+) ('5*$ "4 .,('2'-(#($-.('-(', +,("
(.$." +' *',$, ,$ *'5 $," *' .'-' ' +$4,(*$$%/ '
(.'(',')$(*'4(. $'/ ('3. $'/ -('-(+*-(.' +'4+. (' * (
(,' ,($*,(" 5 *' 6(.()('2'4 .,(.'2'3(,,(' *',$, ,$ *' '
- $,' '-,.('4(. $ 8'4+.'(',(4('-('-(+*-(.'' '(','-+4"
.)$,(*,$ *'-('$D "( ) -G 5 ('-+*"$('3+ 4+9 ("$= * '
4 $*,'- (3,(.'/ '5 ('-+*" +'4 4+.,'-("3+*, $$"
' $(*,'6 .(-$$+$.(''< *',* . .(? (, 0 '- 4 $ (.'%
(*,$.((*,' ("3+ 4+ $("- '-.-,'-('.(4.('(*,+,$ *'c%
+'.(0 ,$ *'(',#+$,(/F+ *',$, ,$ *'+44. ()('-('+' $- '
+$+' +'*('('-,''$ (.+'4+"5 %(('+(*3 .(')(' $*'-=4='
4 $'(# ('*(3. $"4+"5 (' $*,(*,$ '-('. ''( ) (('' $,'-(
- ` .+-(.' ("3+ 4+9*(''< (2,.($,-'9+ 36(' +44 + -$,D
(" ,* . .("'-$(0(,$,'-+*" ("+ ,.("4+. $(" -(' +' + F(Dd#
A('-$' '(,' (. 4(,(5 (' 0 "- 9.+- $(2' F(" (+ 4+9*# $!' %
4+.3('5 (*'(##(,'3('(.+$,' *'+0+*,+9('$ ' $.+'4 . ."(+ !:'
4+9*("5 ('-('.(*-.(' (" 3 ,$0+,(." $9,) (" ' ' -9$'+ '
, .(/3+./ .'5 (('-. $,'- - .('('.+'3 *3(*,.('-+*" (".$36("
-(" 0$ $('/ (" .$36(" ,. *)!$ " -$(.36(.'4+. $ (" 6+)$,+*,"
,$("3+ 4+9*(" (." .(4. '(+,+*,'c'< *' ** .(D? ,,+ '$'
(','5 (',$ *' -(-(3$-(.'-((,+' 4 $,$5 ('-('C' - *+-('
3$, 8(*'?$' (',' , **+*,'5 % *('0($ (' 4+" (*,(*-.(' B+
-$'3 '$ *'A('-$"5 ('4 "-(",. $"5 +.,"-('A+'4 4 4 +,$ */
- . 8+ ('.('$-(*,'-+*" ("3+ 4+9*('? (,'5 (?-+*' ('8'D/
, ('5 (' *'4. 4 '(D' ("3$, 8(*"*(4 *.+$(*,'4+"('4(&
.(.'- '36 $'$.'+ +$"4+. $(2 *$*-0- '5 (3 *5 (D'(+.'
0 " *(' ,. 0(.(U'4+" -('3 ,$0+,(.'/ -('#(.*-(." 4+8+* '
,.(*,('$ +*3" -('3 *,.$) ,$ *')$ $+$.(D'< '' 0('-(' *9"
.$* .(' ? / ' %
! ' A('-(+*-(' '$ 3(' * (',4+"+'' '5 *' $ ''
#+''('-(,$% $.((*',. $"6(.(" *-$3.(,'3 *',$, ,$ **($'5 $'+D
' (**($((*,' -$'3 ,('4(*-+*,',. $" .'c' + ,!=$'$*D'
,(.. 4.('3(*2'5 $ '(*,'- '-. $,'-('4.('(*,(.' (.")'(.1
0+,$ *'c
' ,$.$ $' $A' B ('3 ,*$, '-('3 6',$,* *' 4+'
3 4 '('-6 ("-("0$ ('/$'*('0 "+ .+$,'4+"4. (*,-'
3('# *(',('4. (,' %(','J2' (' +)(.'-(''( ) (('-(', +'0 $.'
4$ $ $" -("6+)$,+*,"-("3+ 4+9*("-+*""("3) $,-'D
% 577 " K, 6 * .' ?, 6.' .<'E' 7 =4.'>'<6 7,<6 5.7
?'V P <,<6.'5./.<7>.'?.77.' ;<7 <1.G /6>68 ;,/7<.' "> 7
' '4;:V=4' 8 ;,<<' 78 >'<6 5.6 ?'V6 >.'J1'<>.' .457';.%GG
k8 ' '#.5"< .67 ?'6 -1' %0N+8&&RW * 7 '
I C ' ' ('& '#.5" .67 V1' 'G;.5" .678
!! E .'> 6 =4.'>'<6 5" ?54?'17 >.6 ;'<7,<6 >4 1,V'4/.'
-,46 <.'71,4-.1.0 ?'6 > >5.;7.4168 ' =< 56 6.1,<7 0 1>> G
7'1. % k8 C ' '#.67 E'4@%P 5 .67 ;.17' <=4.'>' '5"
?54?'17 >.6 ;'<7,<6 -,46 <.'71,4-.1.0 =4 << 71 ' ?.07 /\/'
01.'>.';457 -'7.416G >.' E.1/ .16 ?'V'<' ' B-%8.7 =4.' ?'1'
;,<6.=4.<7 5.6 :'0 7'<76 6.1,<7 ,05 J.6 >G.5 1.8 7,<6 5.6 >.4@
1<6 8 5.6 / /.6 .5.,7.416% Q.'>./'<>.'.<;,<6.=4.<;.'=4.'5'

[illegible]

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&% ,'$,'$! ,' ' , '*! '(! ' $ ' ' ' ,! ' ! '
$' , !& , ' & ,' A ! (,'& ' ' ! ' U ') ! ,' ' $%'
&C$ &% '&2 ' , .

' !+ : ' 1) ! ' '- ' 1+) ;A 5(,) ! ' ' 8 ., ' * / ! 8 .9 '
18, +, !(1 8,- ' . (, !-, ' 1 ' 5 7 ' * ', !) ' 5) :) ! '
* ' +,- (. ' 5),,95! . ;- ' ') ' 8, ' ') ,(,) ! (') '
- ,!(1 1-2 ; ! !(!1 2 1+1(' 75- ' 1 ' - 5@
(,) ! ' 2 * ' -. (5) !9 ! . ;- ' ') ' -. ' 8((1 1 ' - .
2)5, (12 , ! ' , - ! /. ' . ' - ' ' . 5 . , !1 ' - ' 5) ' 1) !(
) ' 9) ' . - . ,(;, 2 ' , * ' 5 ' !+ (* / . ' ' 1 7
4, ' * ' 5 ' 11 ('1 . 1(' 715 (1 # '5) ' ' 1,5 '
-) . 7) !(!,, 75) 4 ') 2 (, !+. ,9 . ' - 2
5 ' * ') ! . 9 2 *) 1 ' , !(,0. !(' 8., ., !(' 1 '
- ' ' 4, ' A) ! / ' 1 ' - 5(,) ! 2 ' . ' 1 ' , !5, '
1 !(2 ') ' ! -),0! ' - ' ' . 9 ' - 5(' (1 '
95,,, ' 4 .8(' 1 ' - 5(,) !

') ! '$ ' ' (!E '& '&& ' ! % *'$%' &#'
&% !*$'& ' ! 4 $$,'& ,(!, ! ,' 2 $' 4 $'& '(K
,

(% '& ' ,, B$ & % & '$% , ! ' (%.'
- . ;-5

' O ' & ' & ' @$! , '8 2% % ' ! , '
($' ! 'B ' , 'E ' (% 4 ,'%& B$ ' ' 2 ,, #'
B$ ' '&! ' (%,' % , A '%4 !'$,' &&! $,' 2 '%'
& , ' ' 2 !$$ ' '&! ' , ' ($ '&2 ' &*! '
% *$' V $' ,2 $ 4 '& ,' ! ,' & ,%(($% & ,, #'
, P' % % ' 2 , ' $ '& ' % '&2% A '
E2% 'C '$ '('%' ! B%$ '%4% 2 $' * $' K
& '' % ,' %(($ N#4! ,'4! ,'((, ! , % , 'E %'
((!,' 4! &,' ,% ,' ,, '&% ,' !,'& , ,, ! , '
2 , ' '4! ,'& ,' '('4 '(%,'C ' &*! ,'(% '
4I ,# & , ! ,'$,'*! , !(% ,2 , (#'
,'& '& 4 '$%' !! & ') ! , ' '& & '
! ' 2%' (%,' % &' & ' $ ' %(($ '%' 2! & '8 ' ('
,, B$ '& ' *$&) ' , ' 2 ! % ' ! %& ! '
! $' $$ ' , ' ! 4 '%4 '$%' ! & ' 2 $$ '%' !'%
A% &'& ' # ?%$! ' ' %$! '4! $% '(% $ ' , '
$ '*! && '$%' ! , ! ' ')%($,2 (,,%'& '
$ '& ' 2 $' ' ,2%A ,,% '(%,'& '*% '& ' ! 4 % -'& #'
$,' !% ,'& ' $%,, '$,'& ,' & , ' '4! ,'%(#'
$% & ,%' '!B, 4% ! ' V ' '&% ,'$%'
$ ' & ' $%' ,%$$ ' M 'B ,' B ,'& ' -$ '
A%) ' , '$ 4 ' % , $ % '% ' , $ P
J/ ' 3@' @ ']' 3! A ' ') '&$% '%' $%'
B ' ' (% '&!' $%' ,%$$ ' % '% $$ #'
' 2 , ' 2% '(% $ ' ' ''E '& G% & ' '
! ,'$,' B ,'& ' 2 ,, B$ '$ '(,'(!*! &' , K
$ ' ' 2 (% %$ ' ' ! 4 '&% ,' '& , ,#'
, ! '& 'I! ' (! %

'3 . ' ' '4! ,' 4 N' ' '&& $' $'
' &, $ ' '4! ,'%4 N' *% 'E , ' ! '(%,'& ,'& #'
! ,' % ,'& ,'(!E ,'& '& ,'' $' ' &, $ ' '
4! ,'(! 4 N 4 ' ! ' , $ ' '$,'& ,'
'4! ,' 2%4 N' (%,' ! ' 4 ,&, ' % ,' ' -'
'4! ,'%4 N' &&E ' $%,, &,'&% ,' %! ! , ! $'
(% ' ' (,! ' ,2& % '(,'& ' (!(!, 'E ,#'
2 ' & ' $ % A ,' &% ,' $%' (, %, ! ' 2 $' '
(! 4% '(%,' ' '(!(!,&'V '%((%$ & P' %,' '
(' '(&4! '$ ' '! $' ,% $ % ' ,'4% $'$% ! ,T'
) 4! ,$%' ! , ! ' ! ' *% ,! ,# ' ' ! 4 $$ '
' , ((!,! ,'(%,' 2 $' , ' ! 4 ' ' & ,'A ,' '% '
$ '& '*% '$ ' ! , ! 'E ! 4' $%' % ! ' '4! #'
& % ' ' *%Z ' !' (! ' -# & , ' ! ,'$,' K
*$ - ! ,' ' (! % ' *% ' ') ! ' ,2%((($ '
%' ! ,'$,' , & ,' 'E !B, 4 ' 2 $' 2%' (%,(% $&'& ,'
(% ,' 4 A !B$, ' & ' &% ,'$,' ! 4 $$,' (!(!K
, ! ,'& ' ! Z' $' ' % %'&% ,' ,'(% ,' 'A % &'
! B '& % ! ,'!)'! ' '(! %' ! 4 '&2& , '
I 2% 4 %# # $T' 3%' ($ (%*$'& ,' ! , ' (,'
&% ,'$,'%,, B$,'(% ,' $, ' ,' , ! ! '(%,'
& 2%$$ '%, , , ' ' & ,%,, B$,! ' b,' '(! ! '(%,'
' ! ,' $,' %' ,' 2 % ' '(! ' ,Q

h' ' + ' ?)

&! '& ,' % ,' V ' , &$ 4 '& ,' ,P' ,'
& ,(!, ! ,'& ' ' % ' ' ,! '(!(,' 2 ' ! *.'
* ' $ ' % % ' % ! %$'$%' 4 ' '$%' ! %$ & '3 ,'
! % ! ,' ' , ! ' 2! 4 %A ' '& '('(% '
& ' ! ,' $,' $,' ! ') && % ,' ' ,'
! 4 , ' ' * ! ' , ' ' , ! ' '$ ' #'
B! , '& '$%'& ' % ! %$ '* %'& '$,' K
(!, ! , ' ! ' ! ,'(% $ & % , ! % ' , # '(%,'
$%' $%' 4& %B$ '% , ! % 'T V '%((($% & P' 2! '
'& , '(%,' '$, ' ! ,' ('$! &,' , ! ' & .
&! %A ,'(% ' 2&$ A B &' 'P%' $ A ,$% '3 ,'&$!#'
' ,) ,'& ,! & ! # $,' (! '*% ' $,') ! -'
(% ' $,') B$,') %B % ,'& ,' !% (%A ,T' %$! ,'
4! ,'4 N ' ! 4 $$ ' !B$, , ' % '4! ,'%! .'
& ,'(% ,' ' <9' $$! ,'& '(&B& ,' , ! ,'$ '
&C &%

'& ' '$%' ! & ! ' 2! '(!(!, ' ,'$ ' , $'
'&2%4! ' 'B! ' ! (,' &A ,$% *' % ,'$ A' ! .'
,'& 'F % ' 2! # $$,'&! '(%,' ! &' ' ! K
%A ' B % $%B$ T' 2! 2 $$,'(%,' $$,' , $,'%,, &'
! '$ B &T ' (% ' '%4 N#4! ,'& &' 4! ,' 'T'
(% ' ,') ! ,' ' ' (% % ' (%,' :9'E! ,'&

5'7<- .'=4 '>, 7 ; ,<6, >. '- ,6'71' - '4@ - , 46' ' - .O' [<;'
0 . '4; ,4?' ' ;1' <>1.8' .7'6'<6'> , 47 .5'' ; : ,6 .'?4O5 =4 .'
.67'? .1>4 .8' . ' ; , < .546' ' 5'' =4 .67 ,4' ?1 . '5'O5 .8' V <'
'??5'4> 78P' R
8' !5 75 I' .' ; ,<- .<6' ' - . ;'5 .'?E>, ? <= :7=< 5'
V' '4 ' 7'> .'J14<756 < ; ,<->< .7 76' ' ; : '<J .1' ,47' ' ; ,4?8'
>.6'>> ; 1 ; 76 ; ,<67 747 , / 5 .56'=4 ' '41' .<7'>7 .'1 . 46' ' - ; ;%'
6'7 6E' ; 7 ,<8' .7Q41>6' ' - . ;' .47O446 '6 / .'?'1'5'' <'7 ,<I'
/ ' 6' '=< .'>> ; 1 .7' ' 7 5' '??5 = >'6 .6'1 .E5 .@ ,<6Z' . .67'
' 4<' > . ; 1 .5' . ,471 .'5 .=4 .5' 5'' <'7 ,<' .<7 1 .' 1 . ; 5' / .''
. .67'> ,< .' .<'=< ; 5=4 .'6 ,17 .'5'' - ,5 ,<7 .'E ,17 . / .<7'?1 , '
< ,< ; . .'> ;'5'' <'7 ,<' =4 .' 5 .6' ; , / 7>6' ,46' ?1 , ? ,6 .7 7'
> .'> . ; 5'1 .1% # .'> . ; ' .7' < .'6 .1'' .@ . ;47>'=4 .'>'<6'> .4@'
' 68' ; 7'5 .' ? .4?5 ;' E1'<I ' 6' < '' ?'6' 0 .6 , / ' > .'6'5 ,<J '
7 . / ?6'? ,41'6 . ; 5' 1 .18' .' - .1 7'O5 .' < 1>7' >4' ? .4?5 .'
>'<6'4<'J ,4 - .1< . / .<7' 1 .?1>6 ; 7'7 E' .67' > ' - , 1' 4< .'
0 ,<< .'1 .?1 .6 .<7'7 ,<%' ,41'E ,O7 .< 18'> .4@' ; ,<> 7 ,<6'
6 ,<7'< . ; .66' 1 .6' ' 5 '?1 . / E .1 .8' =4 .'<45' ,O67' ; 5 .'< .@ '
; 54 .' > .' 1 66 . / O5> ;'<'7 ,<'5 .'1O , / / .'=4 ' '' > .6'54 '
< 1 .6' .7'> .'5'' ?1 ,0 5 .I'5''6 ; ; , / 5 .8'=4 .'E .6' : , / 7< .68'
; : '1J>6'> >E51 .' '4'4 , / ' > .'5'' <'7 ,<8'?4 66 .<7 .7V .4 5 '
5 .47' [1 .'> .'0 , 6' ; : , @%' <47 5 ; 1' .<7' ,<- 1 1 .0 - ,<6 '
.<7 > .' >4' ; ,1?6' >J 65'5 E' '5'' - .174' <> J .<7 ; 8' 6 '5 .6'
.5 . ; 7 .416'< ;' 6 ,<7'Q '6' ; '?'O5 .6' > .' : ' > 6 ; .1< .1% 18'
? ,41' > 6 ; .1< .1'5'' - .174' .7'5 .' 7'5 .<7'8 B' E'47' ' - , 1' > .'
>>4 ; '7 ,<8'> .6' / '4 16% .7> .6' ; ,<<' 66'4 ; .6'=4 .'< ,<7'
?'6'7 .6' : , / < .6' > .'5'' ; 5'66 .' <E .1 .41 .%' ,41' ; : ,56 1'
; .77 .' - .174' ,O6 .41 .8' 5'E'47' ' - , 1' <7 .1>7' '5'' ; : , 6 1 '
.7Q' ? ,41' ' - , 1' ; .7' <7>1>78' 5'E'47'>71 .' '77' ; : >'>'6''?' '
71 .'?'1'5'' ?' ,?1 >7>8' > 1 .' <' ; ; .66 O5 .' '5'' ; ,114?5 .<'
(% ' 2 &&(&% '& ,') ,! ,

1' 'O , 1 ! E ' 2%' (%,' 2) , '*% $ &'& '
(% $ '%4% '&'%4! ' % ,! 'E ' 2%B, & '& '& ,#'
'$ ' ! 4 % ' (!E ' 2! '4! ,'%(&, &'E ' '
! $ %'& ' *% '& ,' !B, 4% ! ,'A& & %$,' , '$ '
*! &' & ' $%') ! , ' ' , '$ ')% A ' 2! '4! ,'
(!(!, ' '%' ($! &' ' $ 'B$ '& ,' ! #'
,'(! '4! ,' % '&! '& ' ' 4& & E$' *% '
'%$$ ' ! & ' ' '& '$,'&$#! ,'(!#'
$,'& ,' ! ,' , ' ! , ! $' I ' 2! ' ,, '
&! '& ' ! ,'(&, ' ' '&A% &'& ' & $,'&4%#'
, ! , ' ! '&% ,' $,' ,'$,' ! &,' ! ' && A&'
$ ' , ' 4 ''8 'E '&2& '$ &* $ ' '$%' , K
! '&& & & '% - ' ! &%' 81OU ' !' ' /17 /
2%(* ,' $% '4! ,'4! N' ' ! ,'4! ,'& ,' ! ,#'
$! $,'&! 4 '& b. ' % ,' ' ' , ' $ '& '
&(! & ' ' ' ! $%A '&&' & *$ $ &,' '4! ,'%'
*%) ' 2 '& ,'(&!C % , ' , ' . 'O ' <

ʾ)G ʾ * A ʾ ʾ " ʾ ʾ
ʾ 4 8 6'<6 >,47.I ,'6 7,47 7, / / .ʾ=4ʾ'ʾ <.ʾ
> 79 ;6 J,4-.1<.<Q.<76 <.ʾ6' 5 <'6=4.ʾQP,41 6'-, 1
>71.ʾ5 O1.ʾ 5 E'47 d.6?.;5.1 <- ,540 5 7ʾ>.6 5, 6Z .ʾ
<;ʾ11?, >1'ʾ?'6 " ;.6 1' 6,<4./ .<76 '0671' 76 =4 5
-,46 " E' 56 64 d ;ʾJ,4-.1<./ ;<5 1;?1.6.<7'7 E8 " ;.7
>7'5'J, <6 J< E' 7>.ʾ< ,76641 5,ʾJ, -<1<./ .<7> ʾ
:E.,.68>.ʾ ?'15.8.7;% ' ' ;14 =4.ʾ5.ʾ>.;1.7> ʾ/ '1;ʾ
1''1J.<7>7' 7Q467.% ' ' -,7.ʾ?,41 6,< '> / 66 ,<I .78
6ʾ=4.5=4.ʾ;:,6.ʾ"?4 0'5'<;.1 < ,< '66.<7 <.<78 ;ʾ
7' 7 5.ʾ J1'<>ʾ<,<'01.ʾ >'>-.16' 1.6 =4 5 ?'1' 66' 7
'-, 1I / ' 68&:= [6=77 4 ;;,<71,-.16.6 .67 7<0 .>'<6
5.ʾ1,V'4 / .ʾ641 ;.ʾ>.;1.78 5 / .ʾ?'1' 7 =4 ʾ<d" ?546
'47'?7>.ʾ;,<71'> ;7.416% ʾ<.ʾ-'47>,<.ʾ?'6 5" ?. <.ʾ
>.ʾ?.1>1.4< >.6 J1'<>6 / ,V1<6=4.ʾ-,46 'V;O ?,41
>.E.<>1.ʾ1 <-'1 ' 5 7;ʾ>.ʾ-,6 >>;1.76%

ʾ 'I ,16=4.ʾ-,46 '-.0 #1>.ʾ-,71.ʾ;, / 7>ʾ>.ʾ
1.- 6 ,<85.66;456?,4-, 16=4.-,77654 ʾ 'V.O >,<<.6
>7' .:5 >.ʾ ;5'66.1 $,>;;1.76 ;,<67 747 ,<<;568 >;<
1.- 6.1 5"1.>';7 ,<8 '5 < >.ʾ1.;7 E .1 5.6 .11.416 =4ʾ
'41' . 7 ?4 6 V J5 66;1% .ʾ#, / 7.ʾ">,<.ʾ>->. / / .07
,471. ?' ʾ5.6 O,1<.6 >.ʾ6.6?,4-, 16

ʾ ʾ I #;ʾ< .67 ?'6 5.ʾ?,4-, 1 >4 ;, ʾ
V ʾ1 ʾ 5.ʾ ?17E,?<'<7 '77'=4.8 ʾ ʾ) ʾ
'1,< ʾ?, <78 . .67 5.ʾ?,57-, 1 1'>/ .ʾ>.ʾ 66. / ʾ
05>.I ; .67 / ,ʾ=4ʾ'ʾ & ʾ-ʾ>.;1.7>.ʾ;1.'7 ,<>4
., / 7>ʾ>.ʾ1.- 6 ,<% ' 0 .<.4 <7.< ,<> . / ?>.:.1
=4.ʾ5.6 / '5-# 55'<76 < '57>1'66.<7 -, 1.ʾ#,<67 747 ,<I
/ ' 6 Q.ʾ< ''Q' / ' 6 ;14 =4.ʾ5.ʾ ;, / 7.ʾ '<=4.5 -,46
>,<< .0 -,71.ʾ.,<E '<;.ʾ< ' 7 ?4 -,46 ?1,?,6.1 >.ʾ1.;M
7 E .1 = 4;5=4.6 '17 ;5.6 =4ʾ<.ʾ7 ; / .<7?, <7 '4@0' 6
>.ʾ5" #,<67 747 ,<I ;.ʾ6, 7>,<.ʾ-,6 ?1,?1.6 ?,4-, 16
=4.ʾ ,< ;,<7.67.ʾ ; 8 ;5 ?.1 / .77.0 1', ʾ>.ʾ1.< '1=4;1
=4 5 .67 71,?>71'<J.ʾ=1.ʾ;.4@ =4ʾ0<7 ;,<67' / / .<7
W.->5"-, @ ?,41 5"1.E,1 / '7 ,<>4 >.;1.76=1 5.ʾ/ '1;ʾ
> '1J.<78 6, .<7 <6 / / .6 =4.ʾ;.4@=4ʾ.4 1.;5' / .<7
'-.;ʾ7'<7> '1>;41 5" ;,<6.1-'7 ,<% =8 ʾ ʾ
ʾ 3 & I 4 8 ?'1;.ʾ=4.ʾ;.ʾ=4.ʾ-,46
<,46 ?1,?,6.6 .67 ?546 / '4-' 6%P

,16=4 56 E' 6' .<7 '5,16 ;.6 1>. / '7 ,46 56 5.ʾ
;1,V' .<7 ?'67<' =4;1'4 6.1 / .<7>.ʾE >.5 7."5"#,<6M
7 747 ,<% ʾ 4,46 -,46 ?1,?,6 ,46 >.ʾ 64??1 / .1 %5%.ʾ
/ '1;ʾ> '1J.<7 6'<6 5.ʾ1. / ?5';,1 ?'1''4;4<.ʾJ'1'47 .8
<,46 '41 ,<6 ?'66>ʾ'5,16 ?,41 >.6 :, / <.6 .@715 / .ʾ
/ .<7 ?,?45' 1.68 .7 ,.ʾ<,46 '41' 7 '??5' > 6I / ' 68
?4 6=4.ʾ;.ʾ>.;1.7 .67 ';54.55. / ;<7 . ʾ?1,055 / .8Q''
7.ʾ>1, 7>.ʾ>1.ʾ=4 5 '77'=4.ʾ5"5 0.15>;5 5.6 >1, 76 >.6
; 7,V.<6% ʾ'4;,<71' 1.ʾ-,46 1.?,17.0 ; .77.ʾ;,<> 7 ,<
641 5.6 .5;;7.4168 -,46 < '77'=4.0 '4;4< >.6 >1, 56 ?, ʾ
5 7 =4;6 >.6 ; 7,V.<68 ;'1 ;.ʾ< .67 ?'6 4< >1, 7 ?,5 7 M
=4.ʾ>.6 ; 7,V.<6 =4.ʾ> 571.ʾ ;:'1J.ʾ?'1 6.6 ;,<; ʾ
7,V.<6 > ;5 1;ʾ ʾ5.41 Q>';.8 / '6 0 .< 4<.ʾE,<;7 ,<
?405 =<.8 ?,41 5'=4.55.ʾ-,46 '-.0 5.ʾ>1, 7> .@ J.1 5"
/ / .ʾJ'1'<7 .ʾ=4.ʾ?,41 ;.55.6 >.ʾQ4J.6 .7>.ʾ/ 'J 6M
71'56%+ʾ-,46 '- .0 '> / 6 5.ʾ6V67 / .ʾ / / ;> '7>.ʾ1.M
?1.6.<7'7 ,<8 ,46 '41 .0 <.;.66' 1. / .<7 .@ J. 8 ?,4 ʾ
7,<6 5.6 / . / 01.6 >4 ;,1?6 6,; '58 5" ;,<> 7 ,< =4.ʾ
<,46 ?1,?,6,<6 >.ʾ1.671. <>1.ʾ";.4@=4ʾ6,<7 ;:'1J.6
> ;5 1. I ;'1 <,46 -,46 ?1,?,6,<68 ?,41 5"=4'5 7;ʾ1. ʾ
5.;7.<18 4<.ʾ;,<71 047 ,< 0;'<;,4? / , <>1.ʾ=4.ʾ;.55.ʾ
=4,ʾ5.6 <J5' 6 .7 5.6 / .1 ;' <6 .@ J.<7 ?,41 5"=4'M
5 7V >.ʾ; 7,V.< ';7 E% ,46 ;.4@ =4ʾ,<7 -,454 1' 6,<ʾ
<.1 ?1 <; ?.ʾ,47>,<.ʾ7,4Q,416 >;:,4>>'<6 ;.77.ʾ> 6M
;466 ,<%

' 47.<'<7 .@' / <,<6 5.ʾ?1 <; ?.ʾ>'<6 6,< '??5 M
;'7 ,<I 5 < V '41'"?'67.ʾ?546 5.J;1 <7,<-.>< ;<7 ?,41
5.6 E.1 / .16N >' 6 5.ʾ6V67 / .ʾ ;,<71' 1.ʾ 5 V '41' 7
1 <;,<-54 .<5 71 6 J1'<>ʾ> '-, 1 >'<6 5.6 '66. / 05..6
; ;;7,1'5.6 >.6 :, / / .6 =4 8 < 'V'47 ?'6 '66.0 >.ʾ?1, ʾ
?< 7.6 ,4 >.ʾ1 ;:.66.6 >4671 .5 .6 ?,41 1.67;1 ?54 ʾ
6 .416 Q,416 6'<6 71'-' 55.1%>.1 '<>.1' .<7'">71.?'V>6
B 5.ʾ ;1' .<7 ?'1 5.ʾ?546 ,5 1'<7% #;67' <6ʾ=4.ʾ-,46
' .0 4 ʾ '1 6 '66. / 05;;ʾ> ;;7,1'5.ʾ1.>4 7.ʾ">.4@I

%;.<76 / . / 01.6I ; ;67 ' <6ʾ=4,ʾ>'<6 5.ʾ>>?'17. / .<7>
5" ; . <E.1 .41;8 5.ʾ ?546 1 ;:.ʾ>"1,V'4 / .8 9
>5;;7. B '641 (ʾ,<7 ?1.;.>.ʾ'4@ .5.;7 ,<68 ;7=4.ʾ ʾ
5.;7 ,<6 'V'<7>41.ʾ71, 6 Q,416 5 <.ʾ6 .67 71,4->8 ʾ
71, 6 . / ;ʾQ, 418 =4.ʾ9 ʾ.5.;7.416% ,V.0 6ʾ-,6 .5.;
7 ,<6 <.ʾ6,<7 ?'6 .< ;.ʾ / , / .<7 5 -1>;6 " 4< ?.7
4, / 01.ʾ > 471 J'<76% ,41=4, ʾ ʾ-.47 ,< ?'6 ';
;4. 55 1 5.ʾ6V67> / .ʾ> .5.;7 ,<=4.ʾ<,46 -,46 ?1,?,6,<ʾ
; .67 ?'1;.ʾ=4.ʾ ,< ;1' <5 =4,ʾ;.77.ʾ#,<67 747 ,<8
.@;.5 ; 7.ʾ>'<6 6.6 0'6.68 .7' 7 ?.1E.;7 ,<<>.ʾ?N
-,46 / > 4;6 >'<6 6.6 >.7' 568 ,< < ' 7 ?'6 0.6,ʾ
> '??.5;1 0 ; 7 7 4<.ʾ<,4-.55.ʾ;,<-.<7 ,< <'7 ,,':
,0Q.7 >.6 >.6 16 >;6 <71 J'<768 =4ʾ-,4>1' .<7 1.7
-.16.1 5.ʾJ,4-.1';1'. 7% &34.5=4;6 / . / 01.6 '??5''
> 66.<7%P

ʾ 'N .ʾ;, / 7.ʾ1;45;->;74 / .<71' 1.ʾ5.0 .ʾ
>.ʾ5" / 'Q,1 5.ʾ >.ʾ5" <'7 ,<8 ?4 6=4.ʾ<,46 ,7 -1, ʾ
7 46 5.6 ?,6 .6 ?405 ;6 " ʾ / 55 ,46 >.ʾ; 7,V.<6 ';7 E6
7'<> 6 =4.ʾE'- 6 ;,<71' 1.%<;ʾ7.<> =4 ";=?6.1-.1ʾ
=4'5 7.ʾ> ;5.;7.416 " 9 ʾ,4) ʾ / 5 ;ʾ; 7,V.<6% , /
P ʾ-,46 ?1,?,6,<6 <,46 > '0,5 1 ;>>;1;7>4 <''
1J.<78 ; .67 ?'E;.ʾ=4.ʾ7,46 5.6 ;,1?6 '> < 651'7 E
7,47.6 5.6 '66. / 05..6 .5.;7,1'5.68 5,47.6 5.66,; .7.6
1.;5' / .<7 ;,<71.ʾ;.ʾ>>;1.7% < >.6 J 4 7 ;.17' /
?.16,<<.6 ;, / / "-,45' 7 / .771.ʾ5.ʾ>..1.7 641 5"<;
05.66.?'1 / ʾ5.6 > ;1;761. J5; / ;<0 1.6I ; 00 .48 5 ".5
/ 6 >'<6 5" #,<67 747 ,<% < ';;46' 7 5.6 <> / .6 J.7
>.ʾ-,45, 1 >. 71<1.ʾ-,6 >. ;1;76 641 .J'5 7.ʾ>;6;ʾ
7,V.<6I .ʾ0 .<8 ;.77.ʾ.J'5 7.ʾ.67 ;, 6'.1>.ʾ?'1 ';5
;,<67 747 , / .5% .ʾ-,46 '11.7.0 >,<.ʾ?'6%'4@'- 6>
5 0.55 67.68 .@' / <.0 5.6 ;:,6.6 .< .55.6 / > / .68 6'7
;, 6 >;1'7 ,< >.ʾ?.16,<<.6I .@' / <.0 6 5.ʾ>.;1.7= ʾ
?,17.ʾ641 5.6 .5.;7.416 ʾ#,<> 7 ,< >4 / '1;> '1J; ʾ
;67 ?'6 ʾ 1 ʾ ' 171.8 ?4 6= ʾ
.67 ?546;,<E,1 / .ʾ'4@ ?1 <; ?.6 > .J'5Q7;ʾ=4ʾE,<7 ʾ
0'6.ʾ>.ʾ-,7 ;#,<67 747 ,<%

% < >. / '<>;ʾ=4.ʾ " > 6;466 ,< 6, 5 E.1> .%

ʾ! 'N .6 ;, / 7 6 ,47 =4.5=4=6 / ,7 E6 6''
>,47.ʾ?,41 <,46 ?1,?,6.1 ;ʾ;:'<J. / .<7> 4< &E;.<
;,<67 745 ,<<;5I 6 ;.ʾ;:'<J. / .<7 ?1.6.<7.ʾ>;ʾ71
J1'<>6 "-'<7'J.68Q.ʾ?4 6 >; 4,<71.1 =4.ʾ;;'-'<7'J
6,<7 '466'1'1.6=4.ʾ5.6 <;,<-.<.<56 6,<7 <, / 01.4N
'1 5.ʾ>.;1.7= ,<-,46 ?1,?,6.ʾ,< ?1 -;ʾ4<.ʾJ1' /
?'17 ;ʾ>.6 :'0 7'<76 >.6 ;' / ?'J ;68 <,< 6;45; / ;
>4> ; , 7> .5 1.8 / ' 6 > ;5 J 0 5 7.8 ;'1 7.67 ->;
=4.ʾ7,46 ;.6 >1, 76 6.ʾ71,4-.1,<7 1.<E.11' .6 >'<6
.5.;7.416 =4ʾ;0, 6 1,<7 .7 ʾ;:, 6 1.<7% .-,<6 <,
?. 6.1 > ' 55.416 =4.ʾ .6?1 7 ?405 ;ʾE.1" '66.0 ?.<
?1,J1 6 ?,41=4.ʾ ʾ ʾ5.ʾ 'Q / 6 0, 6Z .ʾ-I
?546 5, <8 Q.ʾ64??,6.ʾ=4.ʾ .ʾ;, / 7 ʾ' 7 1' 6,<% ʾ
'-' 7'J.6 =4.ʾ?1.6.<7.8 6,< '- 6 6,<7 56 '66.0 J1'<
?,41 _c4.ʾ4,46 ?;1 .77 ,<6 4< 6 J1'<> .;'17Z 6E
>.6 <;,<-;< . 76 ;, / ?'1'05.6 ";.54ʾ>.ʾ.0'<J.1ʾ
>.;1.7;, 67 747 ,< .5Z .;# / 7> < " 6'<6 >,47.ʾ?
5 <.ʾ / '4-' 6.ʾ 47.<7 ,:8 / ' 6 5 .67% >'<6 44.ʾ.114
>' J.1;46.% ' 6 5 <.ʾ-, 7 ?'6 =4.ʾ6 <,46 ;,<6.<7,ʾ
4<.ʾE4 6 " 4<;:'<J. / .<7 '466 'E,1 / .58 <,46 <.ʾ6I
-,46 ?'6 , 5 <,46 '11>7.1% < ?;4E ,46 E' 1.ʾ4:'<J
5" #,<67 747 ,< .<5 .1.%8%% .ʾ>. / ' >.ʾ1'Q,4< ; / .ʾ
Q46=4 "5"E < >4 71'-' 5 >.ʾ5"1.- 6 ,<%& <'??5'4> 7

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ʾ+ 'N ;ʾ / V ,??,6.%

" > 6;466 ,< .67 E.1 / ..% %

'Q,41<. / .<7 ?1,?,6.ʾ?'1 % .1< .1 .67>.;1.7
% :,41.7 E' 7 5.;741.ʾ>4 ?1. / .1 '17 ;5.ʾ>.ʾ
71, 6 / .ʾ6;.7 ,4 1.5'7-.ʾ" "<, / <'7 ,< >.6 1.?1ʾ
6. 7'476%

W 17%5W1% .6 > ;.7;416 <, / / >6 .4;;'=<.ʾ>.?'17
/ .<7 6;'1> < 1,<5 ?,41 ;5 1.ʾ ;ʾ<, / 01.ʾ>;6 1.?1;6;ʾ
7' 768 >, 7 5" ,,< / '7 , ʾ6.1" '571 04>.ʾ7 5.41>>?''
7. / .<78 .7 / ʾ<, / 01.ʾ>.ʾ6 ??5;' 76 >J'5 '4 7 .16ʾ
; >4ʾ>;6 1.?1>6; 7' 76%$

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?,17'.'5''E1 J'7.''<JS' 6.7G7 [.R,8;,7: / '<> .' ?'1'5.' ;'?7'<.' ,4 4 8 .7 .@?.> 7.' ?'1' ' / 1'5 WV7, S > .' '' E' 55.' 71'Q.7 >.' ! .<.6 .<'71, 6'Q,416% .'1,' '' >,<<.' ' ' ;'?7' <.' 4<.' 7'0'55.1.' >,18 '-.;'6,< ?,171' 78 1 ;:.7<;<E ,1<.' > 4< >,405.' 7,41 >.' > ' ' / '<76% % ;7,<8 / < 671.'J.<>d'58 '>,<< '5' 77.' ,;\' ;'6 , ',< / 'J< E ;cWW> <.1''4=4>'5.6,E5 .16>.5''E1Y' J'7.' '<J7' %6.',<7 '66 67 %

'% ' ' +' % / ,<- 57.'8 .<-,V ' >. H1'<;.''4?1 '>.'5''1 ?405 ='.8 ''?'148 5.'Q,41'>.'6,< > >7.<;.8 '4 ?'5' 6 ><' >,J.' ' .;'5'' ; ,;'1>.'71 ;<5,1.% P'V' '-' 5 641 6,< ?'66'J.' 4< J1'<>' ;,<;,416 >.' ; ' 7,V.7 6% '' :'1'<J4.'>.' % . / ,<- 55.' ''E' 744.' -.' / ?1.66 ,<% .6 / ,76 (- 3'6.<7 . / ?5,V ' '-.;''17% .'>,J.' ''?54' .416E, 6 '466'<, / ' >'<6 6''1 ?,<6.'5'' &

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6 .' -,<6 / '1=4.1' 8 ;, < / .-,46 5.'>. / '<>.>8 6' -,71.<,4-.5'7<0'6 '>.'1%- ' .<& (2 ' .7 6 5' '' ' '641'6''-' 66.55.%%%%%

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< '66. / 057.'J < 1'5.'>.6; 7,V.<6 ';7 E6>.'5'> 5.' 6.7 <<8 '4 <, / 01.'>.' 7 *' .7 ?5468 ;,<-,=4>.' '< 014 7 >4 7' / 0,41 .7 '4 6,< >.' 5'' ;5,;:.8 .< 5'' <' ' < :1.' ';;,474 / >.8 ?'1' % 5.' ?1.6 >.<7 >.6 ;, / / 6' 6' 1.68 641 5'' ?.7 7 ,< >.' ?546' .' 3; 7,V.<6 ';7 E6%

' :,1 55,<8 Q4J.' >.' ?' 68 'V'<5 ,07.<4 5'' ?'M 1,5.'8 ''> 7N %

W .66 .4168 Q.' -.<6 '??5'4> 51''-..-1,46 '4 64 ;; ' >.' ,6>.5 0.1'7 ,<6 >.6 C 'E.-1 .1 .7 ' / '16>.1< .168 #,>..14'<7 ' ;,<6714;7 ,< >4 ?,<7 >.6 1.' >.?4 6 6' 5,<J7. / ?68 .7 =4 8 1.4< 66'<7 5.6 >.4@ 1 -.6 >.' 5'' . <.8 '' ?'17 1 >.' 16.<'5 ' ' Q'1> < >.6 5'<7.68 >,<<.1''; .77.' ;, / / 4< ;'7 ,< 6' 47 5.' >.6; 7,V.<6 5' ' 0,1 .4@>.6>.4@ < / .<6.6E'40,41J6>.' ' 7 47, <.' .7 >.' ' <7 '1;.58 >'E'; 5 7.1'' 5.' ;, / / .1;.8 ?546 $ / / .<6.' .<;,1.8 =4 '%6.E' 7 >& '?,176> ' <,1> '4 / >' >.';.77.';'?7'7.I >.0'11'66.1''5. '14.6>.';.6 -, 741.6 6 >'<J.1.46.6.7 6' / 457 ?7 ..6>.6 ? .11.6 .7 / ,.55,46 >.6 ;'11 .1.6 '4 >.6677 6 >.' '1 68 .7 >.'7,<6 5.6 -Q<6 .7 '471.6 ;, / .67 05.6=4 ''11 1.<7>.6 ?'V6 / .1 > ,<'4@%

Y ,466'-.08 .66 .4168 = .< ';;.>1'<5 ;.6> ' -.16.6 .@?5, 7'7 ,<68 5'' ;'?7'56 71,4-.' '5''E, 6 '' -'<7'J.' >.' <.' ?54.' .@?,6.1 6.6 :'0 7'<76 >'<6 5.6 ?'66'J.6 ?.1 55.4@ >.6 ?.7 76 0'7.5.568 .7 >.<.'?546 ,06714.1 5.6 14.6 > <E#18 ' <7 ';= ;68 ' <7' .7,18 1 5. ' 7&7G ,4 68 .7;%8 ,4 ,< <.'?.<7 ?'66.1 =4 .< 71. / 0 '<7%

Y >>.'6.45.'> 4<.';:47.'>.';.6 E,1 / >'05.6 -, ' 741. 'E' 7 71. / 05.1 :4 / '< 7.' .< ?.1 5%

Y 34.55.'.;,<, / ;'> ' 55.416 >.' 7. / ?68 >.?. <.68 > ';;>.<76 .7>.' ?.17.6 >.';:.-'4@ .7 >.'-, 741.6 &Q4 8 1 <'<7 5.6 ?1,?1 .7' 1.68 E1';'66.<7 E.6 ?'-.6 '>Q'' 0 .<;,E77.4@8 .< 74'<7 ,4 05.66'<7 5.6 ?'66'<76

$ ''1' < ; ?'5 7.8 ?'1 6,< <- 7'7 ,<'4@ '17 67.68 - .<7 >.'5.41 >. / '>>.1 5.6 ?1,Q.76=4.'5.416 6?.;45'M 7 ,<6,<7 ?7 '5.41 E' 1.'E,1 / .1 ?,41'5.' ' ' , 54

\ '6 ;, / / .' .55.'5.6>. <'<>.' .J'5. / .<7 ?,41'5.' ?,<7=4 .55.'Q4J.' <.;.66' 1.' -.16 5.' / ' / ?'>.'5''H.>.M 1'7 ,<8 6'<6 .@?5 =4.1 ?'1 5.=4.5 .55.' .<5. / 5 ;, / ' < .<;.1I =4, =4.'5.'<,4-.5 =1>1.'>.6 ;5 ,%6.6.7 5,'?' ' 71 ,5 6 / .'0 ; ;,<<4'>.61;? .6. 7'<76>.'5'' ;, / / 4<.' <. ?.1 / .74 / 7 ?546 >.' ?. 6;1=7 .' 5'' E -; 1 5:7.1'' 641 5.<7 >.; 6 ,48 .5 =4 ,4 <.'-.1-.'?546 ;57 [.7 > .M

>E ;.' : < 5.8 '4 1<>?1 6 > 4<.';,<6714;7 ,< <5.1.6' 6'<7.8 ' / .'?>1'77 ?>417'<7 <.;.66' 1.'> <- 7.1 H'>' / < 671'7 ,< / 4< ; ?'5.' '' 4> =4.1 ; .54 ' >.6 >.4@ ?,<76 =4 '6.1''5.'?1. / .1 ;,<6514 7% 18 Q.'<.' / >J'1.' 6 1.< .<7 ?'68 .< -,46 ?1,?,6'<7 >.' >. / '<>;1 '' ?1.E.1.<;.'.<'E'-.41 >.';.54 '>.' 16.<'58Y

66. / 05>.8 ?1.<'<7 .<;,<6 >.1'7 ,<;.77.% / ,7 ,<8 '' 4<'< / . / .<7 >. 0.1.' =4 .55.' '>,?7' 7 6'<6 1.M 6.1-.'8 .7=<%.' / 55.'#@.1,?5' 1.6 >.'5''?1.6.<7.'6.1? . 7 / ?1 / .6 .7 ?,17.68 ?'1 >.6 ., / < 66' 1.6 <, / / .6 '' ;.7.EE.78 '4 > 1.;7, 1.' >4 >.?'17. / .<78 '4 ;,464 5 J><>1'5 >.'5'';, / / 4<.8 '4 ;,1?6 / 4< ; ?'58 .7 '4 &K ?'17. / .<7 >.6 71'-'4@ ?405 ;68 .7 .< ,471.' '4@ U('471.6 6.;7 ,<68 '-.;' ?1.66'<7.' <- 7'7 ,< >.' E' 1.' 7.41 -,.4%

&)'<97:' 7! ' ''

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#.' 71 04<'5 - .<7 >.' 1.<>..' 4< Q4J. / .<7= / ' ,1' >, <.' .@.;47 ,< >.' '17 ;5.' '>.'5''5,'>4 9Q4 5.5 >.1< .1 '5.'1.;.<6. / .<7 >. ' ; 7,V.<6I .5 ?,418 ?'1 5.>, / .65 =4.'>.' Y: '>.?47>'' 1 66. / 05>.<'7 ,<'5.8 '-, 1 1.E46.'>.6 V ;,<E,1 / .18 , >,<<.'=4.';.'>, / .65 =4.'6.1'' <6;1 7641 5.'1 5.'>4 1.;.<6. / .<7 >.'5''6.;7 ,< >4 :.>71. H1'< ' 68 '-..' 6,< 6 J<'5. / .<78 ' ' ' ;,<E,1 / / .<7 '4> 7 '17 ;5.' 555%>.';.77.'5, N '4 641M ?5468 54 ' .<Q, <7>.'?,17.1 :,<<.41 .7 1>1.1.<;.' ''%-' ;, / / 66' 1.6 >.'6.;7 ,< I ?,41 V '-, 1 / '<=4>' .71.' 7.<4 .<;:'171.'?1 -..' 4<'>.6;, / / 66' 1.6 >.'5''6.;M 7 ,< >4 :>>71. H1'<I ' 8 .7 '-, 1 7<Q41 > 5'' J'1>.' <'7 ,<'5.8 5.' ;,<>' / <.8 .7 ?'1 ;,1?68 '' '5 -% > ' / .<>.8 >,<7 % ,;:.014<.8 6,< / ' 71.8 .67J' ' 1' 7 .7 ; - . / .<7 1.6?,< '05.8 6'4E 6,< 1.;,416I 54' E' 7 >.E.<6.'>.'1>; > -.18 6?46 >5.6 ?. <.6 =4 5 '?' ?'17 .<>1<I ,1>,<:.' 1 / ?1.66 ,< .7 'E ;5 .%

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d ' ' ' ' ' (* G +' ''.4 1:,<<;4 '>.'-,46 1.<>1.' .,< ?7.' >4 -,.4 ?'71 ,7 =4.' >.' 5'' J'1< 6'4 ?,41'71'-' 5 .1 -,5,<7' 1. / .<7 .7 6'<6 6'5' 1.''4@71'M -'4@>.6 E,17 E ;'7 ,<6I Q.' -,46 ''> 7 5'' / '< .1;'1.' J45 1.'>,<7;.'-,.4 '' .7>.@?1 / .8 .7 . .67 '-.;'5'' ?546 J1'<>.'6'7 6E';7 ,< =4.'Q.' -,46 1.<>6 ;, / ?7.''4' Q,417 :4 '>. ';7 - 5>8 >4 0.5..7>4 0,< ,1>1.' '-.;' 5.6=4.56 ;.6 / ,V.<6 ?1>; .4@6,<7 . / ?5,V.6% '5.' 6.1- ;'>.'5''?5';.8 <' <6714;7 ,4 >.6 1,4?.68 6 / S' ;.66' 1.' ''5'' -. 55.>.'5.6. / ?5,V.1. 5;' / ?'J<.8 ' . 6.1,<7 <>J5 J>6% .' E'76 ;, / / '<>.1 ;:'=4.'Q,41 5.' <, / 01.'>.6 71'-' 55.416 =4.'5.6 <J.< 1<16 Q4J.<7 4;' ;.66' 1.6 64 -'<5 c'' <'741.' .7 5.' ?1,J1.6 >4 71'-' 58 'E 5.'<, / 01.' .67 ,1> <' 1. / .<7 .<- 1,< >4 6.?7 > ;' ;5 ;;7 E >.' 5'' J' / 6,<% '' J'1>.' 1'7 ,<'5;' '15'J.' ;.77.' :,<,1'05.'E'7 J4.'I ;, / / .'> .'E' 7 >.?4 6 5,<J' 7. / ?6 5.'67 1- ;.'>.'5''?5';.%

.'?.4?5.'7> / , J<.6% 7 6E'.7 ,' ' ;7 1.;, / ' 66'<;.' 5.6 ; 7,V.<6 '??,15.<7 >. '1 E1'5;5 66. / .<76 < '58\8' -' 55.4168 >';.6 -.1 E'0 ;6 E>7.6 ?'71 ,7 = .6 < . 51' ' <.1,<7 '4.<<>>6,1>1.8 ?'1#.'=4.'7,47 5.' / ,<>;'V .67 '7 / .'& 4< / >< .'.6?1 7% 4 66.'5.';, / ?7.'=4.'Q;' -,46 1.<>68 >71W 6< - 8 ;, / / .'Q.' 6?.1.8 >.'> 5' 56 '466' 6'7 6E' 6'<76 641 5.'1>7=07 66. / ; 7 >.'S' > # ?5 <.S ' ' E,17. / .47 '' ;,.41 >.'Q467 5 .1 '' ; .7 .J'1> '' ;,<5 '<;.' &5.''), ' '5 , '5.'.7 5'' - 51;% .6 ,067';5.6=4')3 1 ;,<51; 5 .<;,1.' >'?6 &k4>=4.6 ?, <76 <.' - 77 [<;B5 ?'6 >.6 6,5>'568 5 ' 6 0 ;4 >.6 71'571;6=4

;6 J'1.<7 ,46 '75;<>,<6 .6 5, 6 =4 <,46 6,<7 '4 <,<; ;6 .55.6 .1,<7 1.-4.6 ' ['1.6?.;7 ;7 ,0> 6]'<;.-"1;-.< 1 .<E <8 / '1=4.'641.'>4 ?'71 ,7 6 / . =4. <,6 .<<. / 6 6. 6,<7 ? < 71,? 5,<J7.14?6" E' 1. 6.1-E1 >. / '6=4. " 5" 5 ;.<;. !!

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1,? 5,<J7. / ?6 ,< " ?1,> J4> >.6 5 4'7 J.6] >.6 :, / <.6 >,<7 5" J1'<>.41 < 'J <' 1. E' 6' 7 7,47 5. / 1 7. ,46 -,46 ?1 ,<6 ,<6 .41 >. 6.;,<>.1 <,6 -4.6 .< ;. >01'<7 >.6 -.1746 ; -5.6 .7 / ,1'5.6 .< 5,4'<7 >.6 ' / 6 >. 5" #,<67 747 ,< .7 >. :4 / '< 7>

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.;:' 71. '6 .67 ';=4 6 >;6 >1, 76 / / ,17.56 5" 1.;,<<' 66'<;. > .< >> / , 68 " .67 / . >. 7,<6 5.6 :, / / .6

< >. <,6 ;,<; 7,V.<6 E 7 J4. > 0' <8 -,45'57 ?1.<>1. ? .> 641 4< 1,;:.1 >'<6 5"1 - 1.8 ?1E.6 > 4< J, E11. =4 < >7' 7 <;,<<48 / ' 6 E' / .4@ ?'1 5" 7,17 &5. =4.5= ;6 ?.16,<< .7,41<'<7 .<71' <.I 5 '? ?;55. '4 6.;,416 5 -" ?>1 ; .;:'171.6 ";.<7 ?'6>4 5 .4 .<7.<> 6.6 ;1 6I 5 -,5.N #,41'J.8 / ,< ' / 86d>;1 . 7 58 0. 64 6 " -,468Y 5 6 .5'<;.8 .7 <. -,V'<7 ?546 =4. 1.@71> / 7> >. 5" / ' < >4 / '5:.4 1.4@ 5 5"6' 6 7 1.7 &. .67 5. <, / >. <,71. ;,< ;7,V.<P ?1.66. '-.;E,1;. 5. 01'6 >. 6,< 5 0.1'7.<18 .7 J 4. ' <6 6.6 / ,4-.1'.<76 .7,41<'<7 5.6 .< J5,<7 66' 78 7,<6 5.6 >.4@ >,4'1>8 <E.J1. >. . #:'171.66 0 .< > J<. >. c" 5 0.17. E1'<*' 6.8 6 >7' 7 0.7. " 5"<'J. '?1 ` 6,< / '571.8 =4.'?'1 :'6'1> 5';' ;,/ ?'J<' 7 ;.0,41 '06 66'<7 " 6,<7,41<,71.;,< ;7,V.<8 5 5. 6'4-.8 .7 .< / > / .'7. / ?6 c >.5 -1. 6,< '571; ,<6 - .<<.<7 " 0,1>8 7,<6 71, 6 <,46 64<7 1.<>46

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/ 6 > E 5" #,<67 5 5 ,< >.';.77. -55.8 ,<6 .418 / . ;:'1J. >. -,46 E' 1. ?'66.1 5.6 ? .;.6 ; 0, <7.6N .5 . -,46 c\1 .> . E' 1. 46'J. >'<6 -,6 E.4 55.6 ?,41 5" 046 7 5 ;'7 ,< > 4< 1.J / .<7 ;.<71. ;= .5 ,< '-' 7;,<J4 > <046E.6 6,4?J,<6 " / '< 1. >,<7 5 6 .67 ;, / ?,17. 5,16 >. .-.<. / .<7 =4 E' 7 1<00.5 >4 ?1,; 6 -.10'5 =4 5 " E' E >1.66.1 6,< '11 -.. " #'66.58 5. >< ;,41'<78 5" E.1 / .7.8 5. ; -6 / . >, 7 5'>,<<. >;6 ?1.4-.6 6 ;5'7'<7;6 " ;.77. ,;;'6 ,<8 > 66 ?.1,<7 5.6 <4'J.6 =4. 5" ;'5, / 7 .'-' 7 ;7.<>46 641 ;. ;,1?68 .5 7 1.<>1,<7 .67 < . .7 5" ;,<5 '<;. =4 5 < " ?'6 ;.66. >; / ;17.1 >. 7,46 5.6 0,<6 ;7,V.<6

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<.'>.?47'7 ,<'>.6' ; 7,V.<6'>.'5'' - 5 ;'>.'K,1>.' -8'
4> / 6.'5'0'11.8' .@?,6.' '' 66. / 05>.'5.6' '5'1, .6'
=4.' ;'46.<7'>'<6';.'>>?'17. / .<7'5''> 6.77.'>.' 6 06 6%
7'<;.6' .7'5'' 5'< 4.41' >4' ; , / / .1;.8' .7'>. / '<>.'4 '
.;,4 6'.@71',1> <' 1.'?,41'6401.< 1''4@'0.6, 46'?1.6'
6'<76'>4'>1?'17. / .<7%
% ' 6 ' '' S'' >.?47'7 , I' 4.' J1'5>.'
; 7.'=4.' ';5 - 7 '>.' 6,<' ;, / / .1;.'.7'5.'&H '>.' '
:'0 7'<76' '-' .<7'64' 1.<>1.'E5,1 66'1 7.8' / . .' 6,46' ' '
& '>4'>16?,7 64 ;8' >, 7' ,07.< 1'6,<6' ;.54'>.'5'' 5 '
0.17.'4<' <,4-.'4' 1.?,17' =4 8' .<' / 457 ?5 '<7'6.6'1 '
.0.66.68'>,< .'4<' <,4-.5' . ;5'7 ''6'' J5, 1.% ' .67'0 .<'
Q467.' =4.'>.' J1'<>6' '-'<7'J.6' 6, .<7'5'' 1.;, / ?.<6.'
>,6' J1'<>6' 6.1- ; .6' 1.<>46' '' 5'' ;:,6.' ?405 =4.'?'1'
'; , ; 7,V.468'.7'=4.';.4@'=4 8'>'<6'7,45.6'5.6';1 6.6'
?45 7 =4.6=4 ,<7' 646; 7..6'5.6' .<<. / 6' >.'5'' ?'71 .8'
,47'71,4-.'>.6' / ,7 E6'>.'1.>,405.1'>.'0.5.8' ,07 .<7 . 7'
> 4 .' ;,<67 747 ,<' 5 01.' :.41.46.' <E54.<;.' >.' .6'
0 . E' 768' .7'4<.' J1'<>.'?'17' >'46' 5'' ?1,6?.1 7.'?' '
7 ,<'5.%
66. / 05 .' -,46' '' >;,47.6' '-.;' ;.7' '=4G.55.'
>, 7' '' 7,46'5.6' :'0 7'<76' >.' . / ? 1.8' .7' '4 6<J / . 7.'
5'' <'741.'>.6'0.6, 46'=4 'E,1 / ' 7' ,0Q;7'>.' -,6'1. ;5''
/ '7 ,<6N .55.' -,46'.<J'J.' ''>,<<.1' '' -,6;,<; 7,Q.46'
1% 6641'<;.'=4 .55.'?1.<,1'' .<';,<6 >.1'7 ,<';'=4'5.6'
7,4; :.I'=4 76'?;4-. 7'6;'E .1' ''6'' 6, 5 ; 74>.8' .7 / .'
1.1'5.416' .6?.1'<; .6'641' 5.416'5 71.6' '' 6.6'6,4-.< 16%
66. / 05..' ,1>,<<.'5.'1.<-, '>.' ; .77.'?.77 ,<' ''
; , / 7.'>.6'E <'<;.6% %
% ! ,4 <0' N 5V' '' =4'71.' ,4168' .66 .4168' =4.'
<,46'<-, 6' 54'>'<6'4<.'E.4 55.'?405 =4.8' .<' =4' 1,<'
''0.'4;,4?'>.';,<E '<;.8' .7'=4'5''< .17.' & 5'' ! '0.77.'
4< - 16.55.P8' .@71' 7' > 4<'Q,41<'5'=4'6.%E' 7' '' V,<8'
.7=4 ' < ''?'6' '0.'4;,4?' ?106'5.' / ;' / >1 7.8' =4.'
5.'?'71 ,7 6 .'>.'5''J'1>.' % 7 ,<'5.>. V,<.7' 76' \.4
.<' ';7 - 7V8' =4.'5.6' 1.J 671.6' >.67 <.6' '' <6; ?7 ,<'
>.'5''J'1>.' <'7 ,<'5.' <' - ' .<7'?'6'.<;,1.'>.4@'?'J.6'
>.' 6 J<'741.6' > <6;1 ?75, ' I' <,46' '-,<6' .1'8' .6M
6 .4168' ; ' = '5 7.'>.'>.?47.6'>.' 5'' - 55.'>.' V,<8'>.M
- , 1', <' .;1 1.' '<'> 1.;7, 1.'>4'>.?'17. <.<78'?,41' <'
- 7.1' '' - .1 E .1'5.'E' 7' ;7' '' >>714 1.'4<.;'5, / 4 .''=66'
6 J .% '46' 1 <7.1-'55.% .66 .4168' ,461.;.-, 6'
?,41' 66. / 05>.'<'7 ,<'5.' 4<.'5.771.'>.6' C)'0'7'5'
,<6' ;, <?06< 7'5''J'1>.'<'7 ,<'5.'>.'5'' - 55;>.' V,<8'
=4 ' -,46'7. / , J<.' 6,<' ?1,E,<>' 1.J1.7'>.' ;.' =4.' '
'>?'17. / . 7'>.' :,<. .7 , 1.8'>,<7'5'' - 55.'>;' Q, '
.67' .' ;:.E 5 .48' < .67' ?'6' ; , / ?1 6' >'<6'5.'<,< 01; @'
.7'7'>.' ;.4@' =4 ' -, 7' '-, 1' 5'' J5,1 .46;'6'7 6E';7 ,<'
> . '-,V.1' '4@'E1,<7 .1.6'>.6'>>E.<6.416'>.' <'?'71 .';5'
>.'5'' 5 0.17. I'Q.' -,46'>. / '<>.'5'' ?.1 / 66 ,<'>;'1,>6'
E' 1.' 5.;741.'>.' ;.77.'5.771.8' =4 '' .67' 64 - .' >.')'
?'J.6'>.'6 J<'741.6'>.6'C)'0'7' 5,<6'E,1 / '<7'5''J'1>.'
<'7 ,<'5.'>.' V,<%
@ , @'<7.'=4'71.'>>?'17. / .<76 - ,5 7'Q, 4 1'>;' 0, '
,1'05;' ?1. ,J'7 -.' >.' E,41< 1' >.6' >>E.<6.416' '' 5''
2PN 71 , ' 7'4> 6' =4.' <,46' # :.1; :, 6' .4' - ' 4' ;.54'>.'
a : ! , , 1.'?'1 / '5.6' 7. / 6'E,174<. 6'>,<5' ;6'01'-.6'
; 7,V.<6' 6 J '5.1,<7'5.6'?1. / .16'5.41'; ,41'J.' ;.<71.'
5.6' .<<. / 6'>,' . / ? 1.%
Y ,41'6,45'J.1' '6.<7 / .<7' ?>< 05.8' <,46' '-,<6'
1.6,5'4' > .<' >>Q 6.1' .@?1.66 ,<' >'<6'5.'6. <'>.' 6
'<J465;6' 1.?1> e <7'<76I' ?4 66;Q 7 56' < ,405 .1'Q' / ' 6

*

'<J6' > -.5,??. / .<76'?,41';<'?1,4-.1'1 /?,17'<;.%'
&' <' '??5'4> 7%' +'34.5J4.6' / .< 01.6' / 41 / 41;<7%P
8 1'- 'N' #.7''17 ;5. 5'8' 6' 66. / 05..'6.'>.M
7.1 / <.'" B<6.1.1>'<6 ';7.';,<67 747 ,4<.5%<.?.47'
6,46' '4;4<' 1'??,17' 71.' ?5';.' ;' 8' ;'1' '6 'J 7 ;'
4< =4. / .<7>.6.5.;7 ,<6%' '6'-, ;'5.6' / ,7 E6'=4',<7'
. / ? ;0 '5.6';, / 7.6'>.'5.'?5';.1'>'<6'5.41'71'-' 5%' "
1' 6,<' >.'<.'?'6'?5';.1'>'<6'5" #,<67 747 ,<' 4<.'?' '
1. 55.' > 6?,6 7 ,<' ; .67' =4 5' <.'E'47'?'6';,<6';1.1'.<'
;,<67 747 ,<' ;.' =4' ?.<7' .71.' 0,'' .<' 1.-,547 ,<8'
/ ' 6'=4' < .670,<'=4.'5'%' 34'<>' '?1.6' 4<'5,<J'>.6'
?,7 6 / .' 4<.' <'7 ,<' 6 .-. 55.' .5'6.'1.;,<67 74.8' 6,<'
?1 <; ?'5' .<<. / ' .67' '5,16' 5.'?,4-, 1' .@. ;47 E8' ?'1;.'
=4.'; .67' 54'=4' .67;,11, / ?48'; .65' 54'=4' '' ,??1 / .8'
.7' =4.'; .67';,<71.' 54 8' <,<'?'6'?,41' '<.'<7 1' 8' / ' 6'
?,41' 5.'E' 1.1.<71.1'>'<6'6.6Q467.60,1<.68=4.'5" <'M
7 ,<' 1.?-.<>' .@.1; ;.' >.G6.6' >1, 76%' '6'=4'<>'5"
1.-,547 ,<' .67' < .'I' J4'<>' '?1E.6' '-, 1' 7,47' >.714 7'
5' E'47' 1.7'05 1I'=4'<>' 5%E'47'E' 1.' 4<' J,4-.1<. / .<7'
=4'>,<<.'5.' / ,4-. / .<7' .7'5" - .''4';,1?6'?,5 7 =4.8'
<,46'-,<6'?.<6.'=4.; .7' 7' '5,16' 4<.'.11.41?1,E,<>.'
=4.'>.'71' 5.1' .<;,1.' .<' .<<. / '>.'5" ;:,6.'?405 =4.'
5.'?,4-, 1' .@.;47 E%

67 ;.' =4.' 5.' ?,4-, 1' .@.;47 E' < .67' ?'6' <65 74>'
' '466'?'1' 5" <'7 ,<'Z .7' < .67 5'?'6';, / / .'5.'?,4-, 1'
5.J 65'7 E' 4<.' / '<'7 ,<'>.'5" <'7 ,<'Z .67 ;.'=4 5' <.'
E'47' ?'6'?,41' <7.1>7' / / .'>;'5" <'7 ,<'=4 5' 'J 66.'
% '-.;'7,47.' ><.1J .'>,<7' 5' .67'646;.?7 05.'Z '<6';.77.'
.<.1J .'>4'?,4-, 1' .@>;47 E8' =4 .67 ;.'=4' J'1'<7 1' 7'
5" ?' @'?405 =4.Z' .7=4 .67 ;.'=4'>.E.<>1' 7' 5" ;:,6.'
?405 =4.';,<71.'5.6' .<71.?1 6.6>4';,1?6' >J 65'7 EZ' <'
4<' / ,78' 5.' ?,4-, 1' .@.;47 E' < .671 5'?'6' '466'<>; .6'
6' 1.' "5" 5 0.17>=4.'5.'?,4-, 1' 5.J 65'7 EZ' #.6' >.4@'
? .;.6' <>; .66' 1.6>.5'#,<67 747 ,<'>, -.<7';,<;,41 1'
.<6. / 05.8' 6 .<7.<>1.' .7' 6 ' >.1' / 474.55. / .<78' .7' 5"
#,<67 747 ,<'<.'?.47' >41.1'=4 '47'<7' =4 ,<' 5.6' ' / 7..'
";,,?>1.1'E1'7. <.55. / .<7I' ' <6 8' .<' / .77'<7.<'?1 5'
; ?.';,<67 747 ,<<.5'=4.'5.6' / . / 01.6'>.'5" 5.J 65'741.'
<.?,411,<7'?'66.1' '4@' ?5';.6'> '?,4-, 1' .@>;47 E8' .7'
1>; ?1,=4. <.<7%-,46.7'05 66.0' 4<'>5'7'> '<7 ?'7: .'.7'
>.' > 6;,1>'<;.'>'<6'5.6'?'17 .6'>.'5" #,<67 747 ,<%' '
< V' "J4.1.';,<71.';.'?1 <; ?.'=4 4<.' ,0Q.;7 ,<' 1. .55.8'
; .67' 5" ;1' <7.'>.'5" ;,114?7 ,<%'- '<.'> 1' '?'68' <,46'
-,45,<6' 4<' 1.J / .' .5.;7 E8' .7' <,46'-,<6'?.41'>.'5"
;,114?7 ,<%' ";,114?7 ,<'<.6.1' 7 .55.' ?'6' <.- 7'M
05.8 / > / .'>'<6'5.6,66. / 05. .6'?1 / ' 1.6Z' ";,114?7 ,<'
'J 1'8' > 7.6 -,468' 641' ' / . / 01.6'>.'5" 5.J 65'741.'
=4'-,4>1,<7'?'1-.< 1' '4' / < 67.1.I' .:0 .<8' / , 8'
Q 'E 1 / ;'=4.';.77.';,114?7 ,<' <.'?1,>4 1"Q' / ' 6'>.6'
0'6'-'5.76' >.6' / < 671.68' ?4 6=4.' ;.'< .67' =4 .<'5.6'
;, / 0'77'<7'=4 ,<'?,411" ?'1-.< 1' " 5.6' 1. / ?5';.1'N
'4';,<71' 1.8' >'<6'<,71.'6V67> / .8' <,46.7'05 66,<6' 4<'
?'17'>.' ,??,6 7 ,<I',<'-.11'8';, / / .'.<' <J5.7.11.8'
5.6' :, / / .6' =4' '6? 1.1,<7' '4' / < 67.1.' ;1 7 =4.1'
;,<5 <4.55. / .<7' 5.6' / < 671.6' .<'?5';.8 .7'55.1' ?.47'
.71.'Q46=4 ' <=4 >7.1'5.'?,4-, 1' .@.;47 E' 641' 5" ;,<M
6.1-'7 ,<'>.'6.6'?1.1,J"7'-.6I' <6'5" ;,114?7 ,<' / > / .'
7,41<.1" '4' ?1,E 7'>.'5" ;:,6.'?405 =4.I -, 5" ;.'=4'
<,46' ">.7.1 / <.6' "<.'?'6 / .771.'>'<6'5" #,<67 747 ,<'
4<' '17 ;5.'=4 8' '4' 5 .4'> .7'05 1' 4<.'641-. 55'<;.';,<'
7 <4.55.';,<71.'5.6' / < 671.68' .7'05 1' 7' 44' .7'7'> :,6'
7 5 7.' .7'> '<7 ?'7: .'.<71.'5.6'?'17 .6'>.'5" #,<67 747 ,<'
=4'>, -.<7' 5.' ?546' E1'7.1< 6.1%

%' .& &'' '17 ;5.' =4.' %' ' <7 '17 <' " ; 7.'
?,17..@?1.66. / .<7';.6' / ,76NW 66. / 05>.'<'7 ,<'5.'
7 .;1.7.';, / / .''17 ;5.';,<67 747 ,<<.5%Y' '?1>6';.5'8'
Q.'<.'6' 6'?'6'?,41=4, '5.';, / 7.'>.'1.- 6 ,<'6 .65'?.1'
/ 6'>.' , / .771.'>'<66,<'71'-' 58' & <' '??5'4> 7' .7' ,<'
>.1''<>.'> '55.1' '4@-, @%P

546 .416' / . / 01.6'>. / '<>.<7' 5" ?'1,5.%

%' - '*'N' .'<.' / ,??,6.' ?, <7' "5" > 6;466 ,<8'
/ ' 6' Q.' 1.J'1>.' ;, / / .' 4<' 1' 6,<<, / ;<7'>.7.67'05.'
;.54 '=4.' - .<7'>.'E' 1.' %' 1 .41%' ,46' '-.0' >>;1.7.'
'466';, / / .''1>;5.6;,<67 747 ,<<.56'?546 .416' '17 ;5.6

>.'>.7' 58' 7.56'=4 <.'?'17 .'>.' ;.4@' 641' 5.6' / <.6' &
/ < .1.6' 8' =4.'?.16,<4.'<.-,4>1" 6'<6'>,47.' <6><
>'<6'5" #,<67 747 ,<%' ' '17 ;5.'>,<7' 5' 65'J 7.67' / ';
-' 68';, / / .'Q.' 5.' ?1,4-.1'' 5,16=4.'Q '41' '5" ?'1,5
641' 5.'E,<>' >.'5" =4.67 ,<8' 5.' / ,7' '
E 7 5' - <J7' E, 68' 5' <.' >.-1' 7'Q' / ' 6' .<71.1' >'<6' '
#,<67 747 ,<%' .'> 6'>,<.'=4.';.77.'E <'>.'<,< 1.;.1,'
/ .' ?'1' 7' 5" ?546' >.7.67'05.' >.6' 1' 6,<6%' #.7' '17;'
> ' 55.416' ">7.'>>;1.7>'6'<6'> 6;466 ,<8' 6'<6' .@'?.<'
5' ">7>'1.> J.''4' / 5 .4' >4' 74 / 457.8' .7' >>;1.7>8' ?,7'
' <6'> 1.8' 6'<6'=4 ,<' ' 7.<7.<>4%' .'>. / '<>.''46'
6' ,<- / >1' 7' / .771.'>'<6'5" #,<67 747 ,<'5" 6.;,<>'
?'17 .' >.' ;.7' '17 ;5.8' =4' <7.1> 7' '4@' / . / 01.6' >'
;,1?6' >J 65'7 E'5.J'?5';.6'>4'?,4-, 1.@>;45 EN.:'0;'
Q.'> 6'=4.'6'5" ?1. / E.1.'?'17 .'>, 7' ?'66.18' ?'1;.'='
5.' / ,7' ;,<67 747 ,<<.5' 6 V' 71,4-.8 5" 6.;,<>." >-
>. / 1'.<7' " / > / .'?1.1,J'7 -.%' .';,<;546' >,<.'=''
%E'47' > 6;47.1641' 5.'E,<>8' .7' 5' <.'6.1" ?'6' > EE ; 5.' &
?1,4-.1'=4.';.7''17 ;5.'7.<>' "><.1-.1' 5" 5.J 65'74
' AV ' ' # & !\-(! ' ' ! ' # ! ' ! '$!'
! ' ' ') ! !' !' , &
' 3A ';L!' , ! ! ' #' ! '$ ' ! '
!)!% (C! !) ' # !&!) %! :!' ,!)
>!%# !' !)!' ! !' #')# ! '# !' $$!'>.'
) !!'" # !9 % # !& >! & !0)# '
5 # ' ! !' '5)!' #' ! : ! 'Y
'3' T. ' .>. / '<>.'"1'??.5.14<E' 7'?1,?'
">;5' 1.1' ">.5 0.1'7 ,<%' .6'?1.,? <' 76',?7' 64??,'
=4.'. .7' 7>'<6'5.'?1. / .1' / ,4-. / .<7' =4.';.7'17 ;'
'-' 5'.7.'>>.1.7.I'-,46 '-.0' .EE.;7 -. / .<7.5. ;1.7.6''
> 6;466 ,<8 / ' 68' 5.' / < 67.1.''V'<7' Q.J5 J.>.'5.' / .77'
>'<66" ?1,;5' / '7 ,<'8' -,46' 1.<> 7.64<'6.;,<>'>..1'
?,41 .'1>7'05 1'>'<6' 5' ?1,;5' / '7 ,4'8' '77.4>4=4'
.7' 7';,<67 747 ,<<.5%

<'J1'<>'<, / 01.>.' / . / 01.6'>.< '<>.'5" ?'1,5'
+ %5.?1.6 >.<7'<<,<;.=4.5'?'1,5..67" %' ! ,4?'
%' Y' .';, / / .<;.'?'1'>. / '<>.1'" %' !4'
5'4 / .'=4 5' -.4 75.'0 .<' 5 1.' 5" ?1,;5' / '7 ,<' >,<7'
6 'J 7%' <64 7.'Q.'> 6'=4.';.5" < "?'6' .7.'> 6;47.%' & #
/ 41 / <1.%P' '77.67.'' 66. / 05. .8'Q '77.67.'' 41,Z'
.<7 .1.''-.;'=4.55.'1'? > 7.' ;.'>>.1.7' " >7>' .<5.-.%8'
>. / '<>.'=4.';.77.'=4.67 ,<6, 5' ?1,E,<>> / .<7' .@' / '
<. .NQ.'> 6'=4.'6 5' .67' -1''=4 4<' ';7.'>.' J.<>1,6 77'
.'-.4@'0 .<'.<;,1.' '??.5.1' ' <6 8' ' 7' ?,17.' ' / .<'
01.6'>.'1 66. / 05. ."6 > , J<.1'.4@ / . / .6'>.6'?5';&'
>4' / < 67.1.8' 5' .67'>- >.<7'=4.'?'1' 5" -,46' >7'05 667'
4<.'> 6;,1>'<;.'.<71.'-,46' .7' 5.'?,4-, 1' .@>;45 E8' ='
-,46'>.-.0' >>6 1.1'>71.'?,?45' 1.%' ,46' <.'-,45.0' ?I'
6'<6' >,<5.'=4.'5.'?,4-, 1' .@>;47 E' 6, 5' .<<. / '>.'
#,<67 747 ,<8' .7' 6' -,46' < .54 ' ?.1 / .77.0' ?'6%%%' & '
- ,5.<7.6' 14 / .416.7' >.6' .;5'76%>.'1 1.' 6 >5.-.<7'>"
.@71> / 7>'>.' 5" ?'17 .'J'4';.%' P' .'> 6'>,<.'=4.'
-,46'<.'E'>.6'?'6'6V / ?'7: 6.1'5.'?,4-, 1' .@>;47 ' '-'
5.'?,4-, 1' >J 65'7 E8' 5.'?,4-, 1'.@.;47 E'>>714 1'-,5'
5 0.17>,4-,46' 5.>>714 1.0' -,46 / > / .68' & <' /4'
/ 41.%P' 5' V'-' 5'>.6' :, / 1'.6'66.0' / >?1 6'05.6'?,'
/ .771.'5.416' 6.<7 / .< '" 5" ?5';.'>.';.4@'=4'>>E.'
>.<7Q> '?1.6' 5.41' ;,<6; .<;.8' 4<.' ,?< ,< < < / .'
1' 6,<<'05.8' 56<.' / >1 7.1' .<7'?'6>.'6 >J.1'>'<6' '
6. / 5>.%' &' <' / 41 / 41.8P' .'> 6'=4.'>.6' :, / / .6='
>.?4 6'>.4@''<68',<771'-' 55>'"5" 5 0.17>'>.'5.41'?'V6'
&' .6' 14 / .416' 1.>,405.<7%P' .' '=4.'6'5.6' <;45?'
7 ,<6' ?1>6 >.<7 " 4<.'>>5 0.1'5 ,<'=4'>, 7' >7'05 1''
J,4-.1<. / .<7' 6,5 >.8'Q.' > 6'=4.' ;;'J,4-.1<. / .<7'
6.1" ?'6' >7'05 %' & <' 1 7 E

.16,<<.' ;' <.' > 1" ==.' ;.77.' =4.67 ,<' < .67' ?
> 4<.'J1'<>.' / ?,17'<;.8' .7'Q.'> 6 =4.'-,46' '-.0'.'
?5,V>'>.6' / , / .<76' ?1>; .4@' " >.6' ;:,6.6' 0;'4;,'
?546' E47 5;6%' ,6' 1' 6,<6' 6.1,<7' ;,417.6' .7' 71E.6' 6'Q55"
7.68' %' 5.' 1'??,17.41' -,46' ">,<<>' >.6' >>-.5,??'
/ .<76' 641' 5.6'?1 <; ?.68' 5' -,46' "> 7' =4 5'>7' 7' <.;W
6' 1.= .>'<644.0,<<.;,<67 747 ,<'7,47.6' 5.6'?'17'
6 ';;,1>'66.<78' .7' =4 .55.6' 7.<> 66.<7' " >.6' <7> '
;, / / 4<6 8' 4<.'6'5.'?,4-, 1' .@>;47 E' < .67' ?'6' <>;W

'' 8 5'' 1.5 J ,<' .' <5, 8 =4.' ' .'< ,<5 ;1' ' '' ?;42P .' =4 .4;4<'J '?.16,<<.5 1''?4 '??1, ; : .1 >4 5 ?6 5'7.7 1% c <. 64EE 7 ?'6 / 1<. =4 7 6, 5 4; ,11, / ? I <. 64EE 7 ?'6 / E< . =4 5 6, 5 <; ,114?7 05.8 5 E'47 =4. 5. ?. ,?5. ' 7 >. -'<7 5.6 V.4@ >.6 / ,7 E6 ;- >.<76 =4 . / ? : .<7>. ;1' <>1. 5'' ; ,114?7 ,<8 .7 5 '41'' ; .77. ;1' <7. 6 56' 7=4 . 5. ?, , -, 1 .@>;47 E ?.47,07.< 1 >.6 >.?47.6 7,47 ; . =4 7 - .47 .< 5.6 <, / / '<7 '4@ ?5'; .6 >4 / < 6701. ,4 1' / ; / @ ?5'; .6 <5.1 .41.68 ; '1 < .67>.6 J.<6 =4 6 <; ; , / / ,>.<7>. 7,47I ; 67 ?'1 5. 6.<7 / .<7>. ; .77. J1'<>. -.1 7> =4 '??'17 .<7 ?546 '' 5'' ; ,<6; .<; . =4 '' .6?1 78 =4. 6'<6 ' 6;466 ,< .7 ?'1 4< ?1. / .1 / ,<-. / .<7>. -,71; J; <.1,6 7. -,46 '-.0 >.;1>7. =4 '4;4< >. -# 6<. ?,411< 7 1. ; ; -, 1 >.6 ?5'; .6 >4 ?,4-, 1 #@.;47 E% 4 '' 0 .< . 7,17 >. -,46 1.?1, ; : .1 ; .77. ?1. ; ? 7'7 ,<8 ; '1 .55. E' 7 -,71. '?, 5,J .% < ''E' 7 >'<6 ; .77. > 6;466 ,< >.6 ; ,<71'> ;7 ,<6 6 <J45 .1.6% < -,46 ''> 7 =4 5 E'55' 7 4< ?'17 >.5 ,PP ?, / 7 ,< >'<6 ; ; ,1?6 5.J 65'7 E8 =4. 6 ,< <. ?,4-' 7 ;71. <, / / > '4 / < 67 1. ; . ?'17 =. ,??,6 7 ,< 6.1' 7 71,? E' 05.I .7 4< <67'<7 '?1.6 ,< ''> 7 =4. 7,47. , ?,6 7 ,B 6.1' 7 >'< 1.46.8 =4 5 E'55' 7 E' 1.E1'7.1< 6.1 5.6 ?,4-, 16%

, 8 Q. 1.4@ 4<. ,??,6 7 ,<8 / ' 6 4<; ,??,6 7 ,< ?' 1 ,7 =4.8 .7 / \< ?'6 7 <. ,??,6 7 ,< >. .4? > 5>8 ; .55. =4 ,< ,46 ''E' 7 .6?>1.1 >.-, 1 1.6457.1 >. ' / 5 7 ?< > 4< / . <01. >4 ; ,1?6 5.J 65'5 E =4 -,4>1< 7 ;45047.1 4< / < 671. ?,41 5. 1. / ? <; .1% 664??,6.<7 = . 1,??,6 7 ,< 1# 457.1'' >. 5'' ;4? > 7.% : 0 ; <8 > 6 =4. ; .77. ,??,6 7 ,E 6.1' 7 >.6714;7 -. >4 ?,4-, 1 .@>#47 E .7 >. <7.1>7 ?405 ;% .6 : , / <.6 ;4? >.6 .7 <71 J'<76 :'1; ;55;1,<7 E. ?,4-, 1 .@; ;47 E8 .7.< / > / .7. / ?6 56>. J1'>.1; / 7 ; ; ,1?6 ;J 65'7 E?41 ; .77. ,??,6 7 ,< ?;16,<<.55.8 .7 '4J / .<7.1,<7 5.6 / ,V.<6 >. 1>6 67'<?. >4 ?,4-, 1 ;@. ;47 E%

< -,46 ''> 7=4 .< <J5.7.11. ,< < '-' 74< ?'17 >. ,??,6 7 ,< =4; ?'1 5<7.1 7 =4. ?,4-' .<7 '-, 1 7.6 1<. / 01.6 >4 ?'15. / .<7 '' 1.<-.16.1 5. / < 67 1. .@ 67'<7% '<6 .<71.1 >'<6 5. E,<> >. ,0Q. ;7 ,<8 Q. 1.?,<>6 =4. <,46 <. 6, / / .6 ?'6 >'<6 5. / / . ;46 =4 .< <J5.7.11.8 ; '1 .< <J5;7.11. 5 < V ''>. ?5'; .6 ?,41 5.6 ' / 0 7 .4@ =4. ; ;55;6 =4 64<7 ''5''> 6?,6 7 ,4 >4 1, %

5. 5 V ''>.6 ?5'; .6 ?,?45' 1.6 ?,41 1. ; , ?.<6.1 . / .1 7; 47 5.I 5. J,4-. / . / .<7 .7'?7 1.c 1.] .<7'7 E8 5. ?.4?5. '' 7,4Q,416 5.6 / ,V.<6 >. 1. ; / ' 71. 5.6 6.1M - ; .6 =4 < ,47 ;7> 1.<>46% ' 6 =4'<> 7,46 5.6 '1M J4 / .<76 =4 ,< <,46 ''>.0 76 6.1' .47 -1' 68 5 < V '' .->.< / .<7 >'<6 ;@.1; ; . >. 5''E';47 =4 ,< 1.-.< > =4. ?,41 5. ?,4-, 1 ;@.;47 E = <<. 5'; 4<. >. =4'71. <<4. ;68?4 6=<;> / 6 =4'71. '<6> ; ; ?,4-, 1 ;@.;47 E ?,411'' ; : '=4. '<<>. <, / / .1 ; .4@ =4 6.1,<7 6,17 68=4 '41,<7 .7; >'<6 1'-'<7 >.1< .1. 5.J 65'741.%

' 6 >'<6 7,<6 5.6 ; '68 =4'<> / / . ; . >. ;1.8 <, -'4>1' 51 ;< ?,41 5.6 5 65'741; 68 5 6.1' 7 '4 / , <6 47 5. ?,41 5. ; ,1?6 ; ,<67 74'<7% . ; ,<;546 >,<. '' '' >,?7 ,< >; 5'' / ,7 ,< >. % ' <7 '17 <%

< >. / '<>. >'<67,<7.6 5.6 ?'17 .6 >. 5'' 6'75. ==. 5'' > 6;466 ,<6, 7 E.1 / ..%

66.< 0 ; ; >. ; >. =4; 5''> 6;466 ,< ;67 E.1 / ; ;%

; >. / '<>. =4; 5.>. ;1;7<.6, 7 '??5 M ; '05. =4 '4 ; ,1?6 ; ,<67 74'<78 ;7 =4; 5.6 / . <01.6 >.6 5.J 65'741.6 6, .<7 .@;546 >.6 ?5'; .6 >; / < 671#6 . E. / .<7% 8

' N 'PP?4 . ; >; ;1.7 =4 ;@;547 >. 7, 7.6 ?5'; .65.6 1<. / 01.6 >. #.77. 66; <0 .;% 34'<7 ''; ;54 =< 1;c / 1>. 5.6 1<. / 01.6 >;6 5.J 65'741.68 5'' .7 E,1 / . ? . ; '' ? 5; .% & N 4@ -, @ '17 ;5.%P , 6'55;05 -1.1'4 1, 7,47.6 5.6 ?;16,4 .6 =4 '6? 1.1,<7 '4@ ?5'; .6% & ; V ! N 4@ -, @ 8 -, @%P

% M N '177;5. =4 ,< / ?,6. <. -'4Q1 / ?,41 5.6 5.J 65'741.68 5 <. -'47 1 ;7 Q ,41 66. / 0: .

';7 ; 5.% , 6 '-.0>. ;1.7.=4. 5.6 <. / 01.6 > ; ,1?6 ;J 65'7 E<. ?,411' .<7 71. ; , / / 66' 1;6 >4 1, =4; >.4@ '<6 '?1.6 5'' E < >. ;416.66 ,<% .>. / '<>. >,<. =4 ;8 ; ,<6.=4.1' / .<7 '' ; .7 '17 ;5.8 ; 7.1 / . =< '' .5. #$2('' =4 71; '<6 6, 7 .(- $, '' >.4@%

66. / 05>. '>,?7. 5'' ?1,?,6 7 ,< >; % K40,78 ;7 >. ;1;7; =4. 5.6 1<. / 01.6 >; 66. / 05. . ';74.55. 17 ; .4@ >;6 ?1, ; : < <.6 5.J 65'741.6 <.?,411,< 71. .546 '' '4;4<; >.6 ?5'; .6 >,<<. ;6 ?'1 5. ?,4-, 1 .@.747 E8 =4. >.4@ '<6 '?156 5'' E < >. 5.41 6.66 ,<%

6! E

3 * *$ 3 8 =& ' V *.- U/ G 3 -$(' 8.$5 (' (* P +3,(f - ' + Q; ,1> : < U8 &. - $ 3 (-$(' (* X +3,(' 7 (, % - - # 7 % + <Q,41>% U8 , 1.. ,1' .<6. .7 2 , 4 < - % $ / 14. -(' O$3) ($(V * $$.-%6 $ U8 !! $, .+ --$(' * .((' (* +3,(' 7 (, '09 6$ 3 --$(' (* +3,c - 1 * + 4Q,4 >% U8 5 '0 ! ,4 $ 8 2 5 J A) (A 4(.+ # $(

< ' / +* ++'! .+/ V * .- BF/ 8 5 (, F + +* + +$(!'' 8+, V .- BF/ 3 *3(, * (*,(*-.(' Z +$*,! (* / +$ +.-/ _D +3 $)+ (, ,(#(0.(

- 3 5 a 2)) U8 $ 8 * 3 --$(' +0(3 36+*9 (# -$0(., 7 +* ,(*. 7 8 +0(3 -$0(., / -3'' Y &AL &; * 3 (*(3.+ 4+. 1 (2! 4+*, $* / (, ** -$0(.,

) , <0,45. '1> >4 (4 (' V < '1>% U8 - $ F A F , E 7 : 67,1 =<.I $ G V 5 ;7 F 2 /

- (' +$*$ +.4* V * *.- $ U & ! 3 5 - 8 5 % :

- 1 U + * ,Q,41>% U8 8 , 4 $ 5 E<E71.66.%

f $ c + 5 (' - +$? / *K BT (! (' , - - '' (+ . '3< + ,((' 6(.(' 5 $ 4 +$, + / ('' +) * *$ (' - 8 .(' ,(.

<?. ./! ! / / b ''

$2 4.(($' + BHTB A (' +8 $.'' + ($(' G G ! & & , TI -

$*, (.-+*$ FP 7 A +- 2/ B' <0,<1J% C% 9k ! .<.Z B 9 ,<>1.6% WW -, ,7<. BW BLW '>1 >8 % 5% * 6% V, <8 %>, c ?% 4, %

3,$ * '' -(' * -(' -(' WXII 0 WWBI/BTH .,$ * '!-(' BIII 0 % >. C 1% 6% % % % % % % % % % % % % % % % % % + >. 5 -% $$$4 !**, - 3).(' -(' PII $0 ,(.$(' - ().(' BHEP/ + FII $0 * ,** , -(' -(3 BHEW/ 5 $,,+*3(' -(' #$* V ,$(, !! -(' $*$ * / -(3 BHEFD M[P[F/ B[F/H[E) V -(' EI $@ * 0(3 + ($$$$' % *$,,+*3(' -(' #$* +*) (,$* . (* 0$+9(. K K K K K K D (,$* ! * (3 * =+$ +*3(' -(' 6* (,$* K & & K K K K K & ! ,$(, 4.,$* , - +$* (' -(' + 0$ (/ $(' ,$(' K K K K V - .(+ 2 4. 0(*+* -(' (.$(' * * .$(' , 3,$ * * 0 -(' $* -(' BBGH/GE/ <@$ GI/GX/ GI/GB/GI/] $ (' -('3 4,(' & & K EEEI/ EX/ TI/ TI<=/ X/ Tb ($%3+$ (' BTFP/ FX/ \ I/FX ,+*3(' -(' ('*2 -3 +.$'' D) / DEX/ b? / FI/ XI/XX/ IF , 4. * -(' * 0( ).(' BHEH/ + X 4 % + F 4 D] -Q EI * $ $ * / 3.+ D '+.+ (Q=3 * ('] $*3(' -$(' '' G I/XI/XI/ FX/ FW/ F V + 0$(

0@ (

U RW??- ^ 7 ''77.<> <;.66' / / .<7 5. , >'<6 ;.77. ;'? 7'5.% < ?.<6. =4.'6,< -,V'J. < '41'' ?'6 7. <<7 5. '4@ S<791X76 ?,7 7 =4.6 >. ;. 1,V'4 / .% . 4 >, 68>.c4S6 5''?' @ >. '1.5'8>.6 1. 4<.'6 74'7 ,<?: 6 67'05.'>'<6 6.6 1'??,0 76 .@5 1 .416% < .1, 7 7,4; : .1 '' ; . / , / .<7> 19% '' 4.>.' 1.67. '1 / .'?'17 ;4 .1. / .<7 ?'1 / .18%%% .; , / 7.'>. ' <7 ' 1 .67 =4 8'1'<7>>71. / < 671.' .<H1'<;.8 '' .<-,V6 ?'1 ;.77. ; ,41 ' / 0'66'>.41 ''5''<,71.8 .67 ; '>.?4 6 ?.4 '-.; / '>' / .'6,4 .?,46.8 6;.41'>4 ., / 7.'>. 4 >,5E8 .<->V. .@71' ,1> <' 1. >. . / ?.1.41 >'<6 ;.77. ;'? 7'5.%%%% .6 5.771.6 ?'17 .45 .1. '<,46 ,<7 '<<,<;. S;'5 '11 -9.'?1, ; : ' <.>.=4.5=4.6H1'< ' 6'>. / '1=4.8 .<71.' '471.6 >. % 5. / '1=4 6 >.'K,4 55. .7 > 4< >.'6.6 E 568 =77.'5.'1, '>. 4.>.' '' '77' ; : .6 ''6,< 6.1- ; .% ''> ' 6.77. ,< <,46 6, / / .6 >. ?'? .16 E7 '<;' 6 <,46 / .7 >'<6 / ?,66 0 5 7'' >. 0 .< '??1 ; .1 7,47.6 5.6 >.M / '1; : .6 >. <,71.' 6,4-.1' < .<-.16 5.6 ?'71 ,7.6 >. H1'<;.%

#D%

'[Z C & S' .J,4-.1<. / .<7 - .<7 >,' <, / / .1 &.6 ; , / / '<>.416 ;'? 7'5<.6 ' / 6: '178 K .1 ' .7 16 < '4 ; ,1< / '<>. / .<7 >.6 71, 6 - ' 66. '4@ 5. ; '>. 8 5''$ '>. (8 .7 5.'F '>. 9U ;'<,<6I 5.6 >.1< .16 / 6 .< ; , / / 66 ,<% #.6 - ' 6M 6. '4@8Q, <76 '4@ 71, 6 ?1. / .16 =4 '6,<7 .< / .18 ; , / ' ?5.5.<7 '1 / . / .<7 > 4<.' .6;'>1.'>.'9 - ' 66. '4@8 >,<7 5'' >.67 <'7 ,< .67 '06,54 / .<7 J<,1.6% #.77. / .641. .67 .55. 640,1>,<<. . '4@ >.1< .1.6 <04-.55.6 >. . '7.160, '1J8 =4 ; ,<E 1 / .<7 =4 4<.'J1'<>. ?'17 . >. 5'' E5,77 5. >.6 J'5.1.6 1466.6 '' '??'1. 55.'>. #1,<67'>7 ?,41'5''H <5'<>.8 .7 =4 5 ''>E'6 V Q, <>1.'4<. .6;'>1; 1466.'>.)' - ' 66. '4@ >.'5 J<. .7 ' 1.J'7.6Z ,< 6' 5'466' =4.'5. J.<.1'5 .< ; : .E ; , / 7.'>. , , [8 .7 7,<6 5.6 '471.6 ,E ; .16 >. '1 / . . .< - ,< .'6 V 6,<7 1.<>468 .6 : '0 74>.6 >. <,71. ;'0 <.7 6; / 05.<7 >.1'<J..6 ?'1 5.'7,41 =4.'?1.<<.<7 .< ; . / , / .<7 5.6 <.J, ; '7 ,<6 >. 5'' 466 '' '-..'5.6 ;'0 <.76 >. ,<>1.6 .7 >.'K.15 <% < '' '??1 6 ; '-.; .7,<<. / .<7 5.6 > 6?,6 7 ,<6 =4.'5.'1, ' >. 4.>.' '' / '< E.67..6 >'<6 6,< -,V'J. '' @ 5' #: ' ?.55. ; .<71.' 5'' '! & < <.'71,4-. ?, <7 ''=4, ,< ?.<7 '771 04.1 4<.'?'1. 55.'?1. ; ? 7'M 7 ,<>'<6 4< ?1 <;.'=< .67 ''?. <. : ,16 >.6 . / 0'11'6 >.'6''?,6 7 ,< ?.16,<<.55.8 '' 5 UJ'1>>.'6.6 - , 6 <68 .7 =< 8 >'<6 <7>1 .41 >.'6.''>7'768 <]'?.<7 ' .6 ;7, 1. '' '01 '>.6 71';'66.1 ;6 ?,5 7 =4.68

% ! % 8

('+' . / ?.1.418 '?1.6 6,< 1. ' ,41 > 57'5 .8 ''?'66.'71, 6 Q,416 >'<6 5'' 1.71' 7.% % % < '' ?'<7 .< ?405 ; =4.'> / '<; : .% '' ?1.1'1.1.'4M > .<; .=4 5 ' 5 >,<<. . '' . '5 .4 ?,41 4<. ' / 0'66'>. .@71' ,1> <' 1.'>.'5''5.?405 =4.'>. 4;=4.6% 55. .7' 7 ; , / ?,6'.'>.6 / '1=4 6 >. 0'11'' .7 >. '00'1,6'8 >. =4'71.?'71 ; .<654;=4, 68J.<5 56 ; , / / .6 > ' / 0'66'>.8 .7 > 4< ; ,17.J.'66.0 <, / 01.4@% ,0Q.7 >. ;.6 ' / 0'6 6'>.416 .@71' ,1> <' 1.6 '' .EU >. ; , / ?5 / .<7.1 . / ?; ' 1.41 64186,< '-.<. / .<7 '4 71,< %%%%%% < ''1. / '1=4. =4. . / ?.1.41 <.'>.- ' 7 ?, <76.'71,77-.1 '4@ E`5.6 =4. 5. ?1 <; . &H 67.1: '6V '' >,<<U.6 5.'C9 >. ; . / , 6 6>1 6.6 5.11.6 .< B,<J1 .8 .7 ,< < '' '771 040 ; .77. 1.6,54M 7 ,< =4 '' 5'' / 4 ?5 ; 7 ' >.6 'EE' 1.6 >,<7 6 , ; ;4?.]% % %%%%%%%%% < 5 7 >'<6 5'' ! '0.77.'>. .<<.'4< E' 7 6 <J45 .1 .7 =4. ,< ?,411'' 71,4V.1 ;41 .4@ >'<6 5.6 @ 1; ,<67'<; .6 ?1.6.<7.6% < V 1' ; ,<7. =4 5 '' 7U 1.

/ 6 '' % 8 % ><'U;1 7 '<,<V / .'>; '?'J.68 ; , / / .<G '<7 ?'1 ; .6 / ,76 N ' '3' ' .7 E5< 66'<7 ?'1 ; .4'' ; N !) '1 L A '1

- #

'#, / / . ; .7 . ;1 7 .67 : ,< ; ,<=48 'Q,47.'5. J'O.7 ;18 =4 5 ; ,<7 .<7 > .@; .55.<7.6 ?.<6U.6 1 '=4 .< ; ,<6.=4.<; . % F .7 8 >.6 1.'> .< ; ,<<' 71. '47.41 ?.16,<<.55. / .<7 Q .7 >.'6 .<71.7.< 1' '-.; ='641 > -.16 ,0Q.768 ,< . <,7 E . '4 646> 7 '47.41 ?'1 5''?1.6.<7.%

& ' ,E 78 8 >. ' : 5.<'=4. / # 1'71 ; .>. 466 .' - ' 7 ; : '1J.'> <<. / 66 ,< ?'17 ;4 ' 1.'4?1.6 >4 1, '>. 4.>.8 .7 =4 ' '-' 5'; ., / ?'J<. ; . 1, ,<'1=4. '' ''15' #: '?.55.8 .67 ?'66. >'<6 ; .77. - 55. 5 V ''?.4 >.'Q,4168 ' - ' 7 =4 7 .8 5. 5GE >. / , 68 ''K, 60. / 0,41J8 % % 64.>, 6.8 =4 '?'66' 7 50. .< ; .7 .<>1, 7 ?,41 '55.1 6 . / 0'1=4.1 '' ,67, ; 8 8 >. ' : 5.< '' ; ,<E 1 / . '> / 66 ,< >. 8 >. K,4 55.' '4 6.1M - ; .'>. 4.>.8 .< =4' : 7.'>.'5 .47.<'<>J.<.1'5% ''>4; : .66.'>,4' 1 .1.'>. .; 5. / 0,41J ; : [.1 < .67 <' ,17. .4 ; .77. - 55.'5.'C >. ;W / , 6% ,4 ; ,1?6 6.1'' 71'<6E. . '' 4>. [J>'678 5 .4 >. 5''6.?'57>1.>. ; .77. / ' 6,<8

''

'C ' ,E E% +' . ; ,<6.<7. / .<7>. % % 01 7'<< =4.'4 / '1 'J.'>. % % % 5. >4.'> L ,1; ' ' -.; 5''?1 <; .66.'1,V'5.'H1.>.1 =4.'>. 1466. .67 '11 -.'5.'C* 4 55.7 ?'1 4< ; ,411 .1 =4. % % % '-' 7 .<-,V. '' ,<>1. % #.77. '55 '<; . - '' 71.'>. ;5'1. . ''5'' ; ,41% . >4.'>h E,1; ' - .<7>.'1.-.< 1 >. ! : '15,77# / 0,41J8 ,4 5 '' -4 5.'1, I 5 , ; ;4?. '4 .07 7. '4 >.'K.15 < 5.6 '? ?'17. / .<E6 >4 E.4 1, 8 .7 5 V .676.1- '?'1 5.6 >, / .67 % =4.6 >.'5'' / ' 6,< 1,V'5.%

.'JU<01'5 >. ,75.<>,1E .67 >.'1'7; ,1 >.?4 6 / .1 ;1.>' >.1< .1% .6 =4 ?'J.6 >. ; ' / ?'J4.'>4 1, '6,<7 1.-.<46 >.'5'' 1466.% '' 6.?'1'7 ,< >.6 >.4@ '1 / .6 1.4< .6 .< 1466.8 '4 <, / 01.'>.) 8 ; , / 1'.68 .67 >0; >U.8 #.55.'>. 1466. ; ; >.<7'5.8 '4@ ,1>1.6 >4 J.M <.1'5 6.>, / 8 .67 >.Q'' .<% / '1; : . ?,41 1.<71.1 >'<6 6.6 =4'1 .16% '<.'1.67.1''=4.'CU8 ; , / / .6 >'<6 5'' 1466. ,1 .<7'5.8 =4 ' <.'>, -.<7 1.67;1 641 5.'? .'> >. J4.11.'=4.'Q46=4 ''5''E < >.6 <.J, ; '7 ,<6 '-.; 5''K46 6 .%%%%% 34'<7 '4@ <.J, ; '7 ,<6 .<71.'5'' ,17. .7 4 71 ; : .8 ,< 5.6 1.J'1>. ; , / / .7.1 / <..688%8% < '77.<> -.16 5. '5. ; , ,<.5 <.J, ; '7.41K 66; : ,E6 [.1>.1% #. =4 '' : 7 '.;1.7. / .<7 .< 7' : .8 .7 =4 5 ?.<6' 7 6.;1. 7,EE5,<' ' .<<.8 5 . : '1.<>1''; , / ?7.' ' 66'6.;1.7. / .<7 '4 1, ' ?.<>'<7 4< -,V'J.'>. 8 % .< .6 ,8 -,V'J. ?1,Q.7.8 .7 = '>, 7 ' -, 1 ?,41 04 7 4< 6.Q,41 '' 5< 708 ; : '7.'4 , 5 1.5. ;7.<1>. '@.' ; ,474 / . ' ?'66.1 7.% #.'5 .48 > 7 ,<8 .67 ; : , 6 ' ?,41 4<.'.<71.-4.8 >,<7 ,< ?'15.'>.?4 6 5,<J7. <?68 .<71. % % ?1466 .<<.' .7 . / ' ?.1.418 =4 '>, 7 6 V 1.<>1.' ''5'' '9?,=4.%

! '+' ''E.-,57. =4 ' '-' 7 >.5'7. >'<6 5.'1,V'4 / .'>. '1, ; '' .7E.''?' 69.I 5.'>. / E1.1. >4 1, 8 '?1.6 '-, 1 -4 6.6 71,4?.6 .<7 .1. / .<7 >.E' 5.68 ''07.'E,1,9 >.'6.'1. 1.1 .< 4< 5 .4 >.'6 1.7 % .'4,77-.'77>.V > 5J.1 ?'1'77 U71.'>'? Q <7.<7 ,< >.'E' 1.'646?.<>1.'5.'6 .J.'> 1'<8 .7 E.'7.1 / <.1 6.6 > 5a1.<>6 '-.; 6?'J<.'?'1 5'' ,5.'>.'5''<.J, ; ' ,<% #.'>.V].'6,4- .<7 '-.;'1.; ,<<' 66'<; . >.6 0,<6 7 < 7. < .<76 =4 5 ''1. 46 .< 6?'J<.8 , C '' 7 ' '471.E, 6 # 6,<< .1 ?.<>'<7 <.4E '<68 .7 . .67 5'' ?1,0'05. / .<7 / ,7 5 >.6 > 6?,6 7 ,<6 ?' ; E =4.6 =4 5 ' <,<; .% < 7. / 5'<7 =4 .55.6' ;5 ';74.<78 5.6 6?'J<,56 ; ,<7 <4.<7 ''6.'05.< >.E.<>1. ' .5 76 ,<7 E' 7 6'47.1 >.1< 01. / .<7

44.ʾ / <]ʾ>'<6ʾ7'=4.55.ʾ ʾ J1'<>ʾ<, / 01.ʾ >.ʾ >'41;6ʾ ,<7ʾ?.1>4ʾ - .%

ʾ?'1' 7ʾ=4.5.ʾ71' 76ʾ?1,Q.7 ʾ .<71.ʾ5.ʾ 1, ʾ>. '14;ʾ .7ʾ c'ʾ ;,41ʾ ' 6?'J'.ʾ .?1,4-.ʾ>.ʾ J1'<>.6ʾ > EE ;457 ʾ >'<6ʾ5'ʾ ;,<;546 ,<% ʾ< .6ʾ7ʾ?'6ʾ.<;,1.ʾ1'7 E .8ʾ .7ʾ;.?.<ʾ >' 5 '<70'66'>.<1ʾ>.7ʾ '1,;ʾ '?1 6ʾ0 .1ʾ ;,<J ʾ>4ʾ 1,& ;7>.ʾ5'ʾE' / 55.ʾE,V'5.% <ʾ;1, 7ʾ=4 5ʾ<.ʾ1.5,41< 1'ʾ?'6ʾ 'ʾ '1,;8ʾ / ' 6ʾ =4 5ʾ6,ʾ1.7 1.ʾ >'<6ʾ 4<.ʾ>.6ʾ?1,- <;.6ʾ / .1 > ,<'5.6ʾ>G ` ?'J<.8ʾ ʾV -1'ʾ> 4<.ʾ?.<6 ,<ʾ=4 ʾ 54 ʾ=67ʾE' 7.ʾ?'1ʾ5'ʾ ;,41% $

Q#ʾ 01 J'<7 <ʾ E1'< ' 65'ʾ $ ʾ?'17ʾ>4ʾ #'?ʾ H1'<;' 6ʾ5.ʾC / ' ʾ>.1< .18ʾ .67ʾ.<71.ʾ>'<6ʾ5'ʾ 0'5.ʾ >.ʾ #'> @ʾ 5ʾ ʾ ʾ =4.5=4.6ʾ ,7716Iʾ 5.ʾ ;'? 7' <.ʾ 'ʾ1'??,17.ʾ =4.ʾ5.ʾ;'E / .ʾ.7' 7ʾ.<7 .1. / .<7ʾ1.7'05ʾ ʾ5'ʾ '17 < =4.ʾ .7'ʾ ' <7 , / <J4.ʾ'4ʾ / , / .<7ʾ>.ʾ6,<ʾ>.?'17% ʾ Gʾ <ʾ '1 / .ʾ 'ʾ #'> @ʾ5.6ʾ >.4@ʾ E1.J'7.6ʾ ?ʾ G ʾ5.ʾ : ʾ>.ʾ;:';4<.ʾ Uʾ;'<,<68ʾ' <6ʾ=4.5.% <E<_%W7Wʾ & ʾ>.ʾ(U%#.6ʾ71, 6ʾ0' / .<768ʾQ, <76ʾ'4ʾ A@ ʾ & ʾ -' 66.'4ʾ >.ʾ Cʾ ;'<,<68ʾ ;, / / '<>.ʾ?'1ʾ

#'1 <,<'8ʾ ;:.Eʾ> .6;'>1.8ʾ E,1 / .1,<ʾ4<.ʾ> - 6 ,<ʾ >.67 <..ʾ'ʾ1.67=1ʾ .<ʾ67'7 ,<ʾ 'ʾ#'> @%

.ʾ-' 66.'4ʾ>.ʾJ4.11.ʾ.6?'J<,5ʾ5.ʾ (: 3 ʾ >. ʾ;'<,<68ʾ=, / / '<>.ʾ?'1ʾ Gʾ>.ʾ#'1'1.68ʾ01 J'> .1ʾ >.6ʾ '1 <>.6ʾ<'-'5.68ʾ 'ʾ'??'1. 55>ʾ>4ʾ?,17ʾ>.ʾ #'> @8ʾ5.ʾ C ʾ>4ʾ / , 6ʾ>.1< [8ʾ'-.;ʾ5.6ʾ01 J'<7 <6ʾ ; A ʾ 0 ʾ G ʾ' <6ʾ=4.5.ʾ;477.1ʾ5' .6, ʾ ʾ <ʾ J<,1.ʾ5'ʾ >.65 < ,<ʾ>.ʾ ;.6ʾ 0'7 / .<76ʾ=4ʾ ,<7ʾ 7.ʾ'17<.6ʾ'-.;ʾ4<.ʾ711'ʾ J1'<>.ʾ ;9 1 7;8ʾ ;5ʾ=4 ʾ ,<7ʾ ?1 6ʾ>.6ʾ - -1.6ʾ?,41ʾ=4'71.ʾ / , 6%

.6ʾ >.4@ʾ ;,1,?'J< .6ʾ >.ʾ J1.<'> .16ʾ>.6ʾ1.J / .<76ʾ >.ʾ< 5 ;.ʾ>.ʾ ʾ .1.6ʾ .7ʾ>.ʾ .- 55.8ʾ .<ʾJ'1< 6,<ʾ 'ʾ#'> @ʾ8ʾ ',<7ʾ?'17 .6ʾ?,41ʾ#.47'8ʾ.5ʾ ,<5ʾ1. / ?5';..6ʾ?'1ʾ5.ʾ1.J M / .<7ʾ>.ʾK41J,68ʾ-.<4ʾ>.?4 6ʾ?.4ʾ> / 1 =4.%

.ʾ-' 66.'4ʾ.6?'J<,5ʾJ A$ 6 ʾ *8 ʾ.67ʾ -.<4ʾ;:.1;:.1ʾ 'ʾ #.47'ʾ5.ʾ1.J / .<7ʾ> 57,< '8ʾ ?,41ʾ5.ʾ 71'<6?,17.1ʾ'ʾ 1'<% ʾ ʾ 8 d)

'ʾ>.1< .1.ʾ5, ʾ;,<51.ʾ 5.6ʾ .71'<J.16ʾ .67ʾ71.6ʾ1 J,4 ʾ 1.46;Iʾ .55.ʾ 'ʾ7,?7.ʾ6,<ʾ .@.;47 ,<% #.6ʾ?1.;'47 ,<6ʾ=4.ʾ 5.J, -.1<. / .<7ʾ'ʾ;14ʾ>.-, 1ʾ?1.<>1.ʾ;,<71.ʾ5.6ʾ .456ʾ H1'<J' 6ʾ <=4 .7.<7ʾc.6ʾ <.J,; '<76ʾ>.ʾ 7,46ʾ 5.6ʾ?'V6% <ʾ;1, 7ʾ=4.ʾ5'ʾ<'7 ,<ʾ' J5' 6.ʾ .67ʾ6.45.ʾ.@.;.?7..ʾ>.ʾ5'ʾ 1 J4.41ʾ>.ʾ 5'ʾ5, 8ʾ .7ʾ=4.ʾ5.6ʾ / < 671.6ʾ>.6ʾ>.4@ʾ;,416ʾ .<ʾ 6,<7ʾ 6.;1.7.1,;<7ʾ;,<-. 46% ' 55. 16ʾ5.ʾ<.J,; '<7ʾ '<J5' 6ʾ .67ʾ?5<6; 1;,<6?.;7ʾQ ,<ʾ <.ʾ?.7ʾ7ʾ5.ʾ6,<? ,<<.1ʾ ' 6. / ;< > '-, 15.6 / '< .1.6ʾ E1'<=' 6.68ʾ,0Q.7ʾ?'17 ;4 ʾ 5 .1ʾ>.]ʾ <=4 .74>.6ʾ>4ʾJ,>-.1<. / .<7%

! %

: ʾ ʾ +8 5ʾE'47ʾ.<ʾ.1, 1.ʾ 7 ʾ5.6ʾ / < 6M 71.6ʾ> <J5.7.11.ʾ;7ʾ>.ʾ 1466.ʾ'ʾ .7.160,<1Jʾ ,<7ʾ1. / 68ʾ .C*Q4 <ʾ>.1< .184<ʾ<,4-. 4ʾ / . / , 1.ʾ ʾ / ?91'71 ;.% 56ʾVʾ>. / '<>.<7ʾ'4ʾ<, /ʾ>.5.416ʾ / ' 1.68ʾ F5'ʾ>.6714;M 7 ,<ʾ>.ʾ5'ʾE,17.1.66.ʾ> ;O' , [Iʾ CD5'ʾ J'1'<5 .ʾ>.ʾ5'ʾ 5 01.ʾ<'- J'7 ,<ʾ>4ʾ < .67.1Iʾ .5 Gʾ=4.ʾ5'ʾ 466 .ʾ6 ':6 ʾ & .<<.ʾ>.ʾE [7E .1ʾ5.ʾ 0,1>ʾ>.ʾ5'ʾ1 - .1.ʾ =4 ʾ;67ʾ>.ʾ ,<ʾ ;,5.% +ʾ ,46ʾ J<,1, ʾ6ʾ ;.ʾ / . / , 1.ʾ 'ʾ .5.ʾ1. / 68ʾ .<ʾ .5 ;78ʾ .7ʾ <,46ʾ < <ʾ?'15,<6ʾ =4.6415'E, ʾ> 4<.ʾE.4 55.ʾ ?407 =4.Iʾ / ' 6ʾ>'46ʾ ;.77.ʾ :V?,75 .ʾ 5ʾ .67ʾ ?546ʾ=<.ʾ ?1,0'05.ʾ=4.ʾ5 / ?.1'71 ;;8'=4ʾ>.ʾ<,4-.55.6ʾ- ;5, 1.6ʾ >,<<.<7ʾ5.ʾ>1, >.6.ʾ1.4>1.ʾ> EE ; 5.8ʾ<.ʾ-,4>1'ʾ?, <7ʾ 6,46;1 1.ʾ 'ʾ ;.6ʾ;,<> 7 ,<6% 7'ʾ J1'<>.ʾE5,B.8ʾ;, / ?,6 .ʾ 5.ʾ 99ʾ -, 5.68ʾ .6ʾ 7,4Q,416ʾ >'<6ʾ 5.ʾ / . / .ʾ .7'7ʾ 'ʾ ? ʾ 70.'>Iʾ .7ʾ5.6ʾ<,4-.55.6ʾ>,ʾ ,<>1.6ʾ>9 / .<7;<7ʾ;.ʾ=4 ,<ʾ '-' 5ʾ> 7ʾ>. ʾ,1>1.6ʾ>,<<.6ʾ?'1ʾ ' < 1'47 ʾ?,41ʾ>.6'1 ʾ / .1% <.ʾ5.7 .ʾ>.ʾ ,176 / ,47:ʾ>4ʾCʾ',>7ʾ'6641.ʾ?,41 ʾ 7'<7ʾ=4.ʾ5'ʾ ?1.66.ʾ > 6;,<7 <4..%

, ! $ % ,

@ ʾ 0 *ʾ ʾ ʾG A< Z ʾ S ʾ ʾ G ʾ ʾ ʾ ʾ ʾ (* % j ʾ ʾ Kʾ 8 ʾ A .JU<.1 5ʾ '65,<J ,<8ʾ =4QA?A'1;,41% 3' ,' -+ʾ 7ʾ ! *(ʾ ,.('ʾ - - .ʾ +9$,+,

?4 6ʾ6,<ʾ '11 - .ʾ7,47.6ʾ5.6ʾ'E5' 1.6ʾ ,<7979ʾ646?.<>4;6 ʾ <ʾ ;;,417ʾ.:ʾE,45.ʾ'47,41ʾ>.ʾ;.ʾ?1. / .1ʾ / 'J671'7>.ʾ 5'ʾ1:?405 =4.ʾE:> 1'7 -.8ʾ =4.ʾ7,46ʾ5.6ʾV.4@ʾ1.J 1>.<ʾ ;,,<<.ʾ5.ʾ6'4-.41ʾ>.ʾ5'ʾ?'71 .8ʾ=4.ʾ7,46ʾ5.6ʾ.,.41ʾ1.6% ?.;7.<7ʾ;, / <.ʾ4<ʾ>.6ʾE0<>?'7.416ʾ>.ʾ<,6ʾ 7'768ʾ.7ʾ;:U% 1 66.<7ʾ;, / / .ʾ4<ʾ?.1.ʾ=4 ʾ - .<7ʾ-.1 5 .1?'1ʾ 4 /9 / ;ʾ 6ʾ6.6.<E'<766,<70.<1.4@% 5ʾ6.ʾ / ,<71.ʾ '4ʾ / 5 .4ʾ>W <,46ʾ6'<6ʾE'67.8ʾ6' 6ʾ'471.ʾ;,17>J.ʾ=4.ʾ;.54ʾ>.ʾ6.6ʾ-.1ʾ 746ʾQ6'<6ʾ'471.64B.=4 4<6.;1.7' 1.ʾ.7ʾ5'ʾEE>/, 1.ʾ>,ʾ 1'05.ʾ>.ʾ6.6ʾ0.55.6ʾ .7ʾ J5,1 .46.6ʾ ';7 ,<6% <E<ʾ<, 1.ʾ J,4-.1<. / .<78ʾ=4.ʾ>.6ʾ?,5: J4.6ʾ>.ʾ0,4>, 1ʾ ,<7ʾ7'<ʾ 7,41<.ʾ .<ʾ1 > ;45.ʾ>'<]ʾ -,7E.ʾ 41,?.8ʾ ;, / / .<;.ʾ ʾ ?1.<>1:ʾ>.ʾ5'ʾ;,<6 67'<;.ʾ .5ʾ>.ʾ .<.1J .% <ʾ .67ʾ?'1M -.<4ʾ<,<ʾ6;45. / .<7ʾ'ʾ;1..1ʾ<,71.ʾ;1.> 78ʾ / ' 6ʾ />/.ʾ ʾ ' / .<.1ʾ 1'?5>. / .<7ʾ 'ʾ 4<ʾ ?, <7ʾ71:6ʾ6'7 6E' 6'<7% .ʾ %;,<- .<>1' ʾ=4.ʾ< 6ʾ / '<'E';741.6ʾ.7ʾ<,71.ʾ;, / / .1;.ʾ 6,<7ʾ.<;,1.ʾ>'<6ʾ4<.ʾ.6?.;.ʾ> .<E'<;.8ʾ / ' 65.41ʾ / '1M ;:.6ʾ .67ʾ '66.0ʾ :.4E.46.ʾ?,41ʾ <,46ʾ E5'77.1ʾ>.ʾ5.6ʾ -, 1ʾ 0 .<7,7ʾE5.771 1% '<6ʾ5'ʾ #'1,5 <.ʾ6.?5.<71 ,<'5.8ʾ <ʾ 5.-:ʾ4<. 1,66.ʾ6,? / .ʾ> '1J.<ʾ?'1ʾ5 <.ʾ5,7.1 .ʾ?,41ʾ ';;,1>.1ʾ>.6ʾ?1 / .6ʾ'4@ʾ'17 6'<6ʾ .71'<J.16ʾ>'<6ʾ> E5. ʾ 1.,76ʾJ.<1.68ʾ=4.ʾ;.6ʾ.<;,41'J. / .<76ʾ '77 1.1,<7ʾ>'<6ʾ ;.7ʾ>7'5% <ʾ'<ʾ / ,78ʾ<,46ʾ<,46ʾ.67 / .1 ,<6ʾ ;ʾ?.4?5.ʾ5.ʾ ?546ʾ:.41.4@ʾ>.ʾ5'ʾ7.11.ʾ6ʾ5.6ʾ '4-'J.6ʾ<.ʾ< 46ʾ <=4 . ʾ 7' .<7ʾ?'6ʾ>'<6ʾ<,6 >7'05 66. / .<76ʾ1.;45:>% # .67ʾc.ʾJ. ʾ <.1% 5 ;,77ʾ =4ʾ ;, / / '<>.ʾ<,6ʾ71,4?.6% ,46ʾ ,4-1 ʾ 1,<6ʾ5'ʾ;'1E5?'J<.8ʾ5.ʾ / , 6ʾ?1, ;:' <8ʾ>4ʾ ;,7.ʾ>.ʾ a.<ʾ 54 V8ʾ .<ʾ?1.-.<',7ʾ< 46 / .E7 ; ʾ5.6ʾ '4-'J.6ʾ?'1ʾ <.ʾ ʾ114?7 ,<ʾ >'<6ʾ 5.41ʾ ?'V6% 56ʾ <.ʾ7<.75.<7ʾ?'6ʾ / , <6ʾ >';7 - 7:% <ʾ'6641.ʾ=4 56ʾ ,<7ʾ 1'66. / 05.ʾ 4<ʾ;,1?6ʾ>. U 8 ʾ 0, / / .68ʾ ?'17'J:ʾ .<ʾ; <=ʾ> - 6 ,<68ʾ=4ʾ'77'ʾ =4.1'ʾ5.6ʾ 7'76ʾ?'1ʾ ; <=ʾ .<>1, 768ʾ .7ʾ ,'ʾQ,45.=4.ʾ 776041Jʾ6.1'ʾ5.ʾ ?1. / .1ʾ 641ʾ5.=4.5ʾ 56ʾ6.ʾ?,17.1 <7% ,46ʾ #, / ?7,<6ʾ641ʾ5.ʾ ;,41'J.ʾ .7ʾ5'ʾ > 6; ?5 <.ʾ>.ʾ<,6ʾ 71,4?.6Iʾ.7ʾ5.6ʾ :> .<6ʾ;, / ?7.<7ʾ641ʾ7.'1ʾE,4J4.ʾ 0?:ʾ 74.46.ʾ.7641ʾ5'ʾ;,<<' '<;.ʾ=' 56ʾ ,<7ʾ>4ʾ?'V6%

ʾ Mʾ Rʾ ʾ ^ ʾ ,46ʾ 75 E5>1.<76ʾ ?1 7.@7.68ʾ ;, / / .ʾ>.ʾ / .<';.66'<J4 <' 1.6 8ʾ> ,471'J66ʾ'4ʾ6,4-.ʾ 1' <8ʾ>.ʾ;, / ?5,7ʾ?,41ʾ1.<-.16.1ʾ '<, .<<.ʾ ;,<67 74M 7 ,<8ʾ.7;%8ʾ5.ʾJ,4-.1<. / .<7ʾ. / ?5, .ʾ5.6 / ,V;<65.6ʾ?546ʾ >416ʾ .7ʾ5.6ʾ?546ʾ '; 56% .ʾ ,,<6. 5ʾ6.;1.7ʾ 'ʾ1.J ʾ?5. 7ʾ ?,4- , 1ʾ; - 5ʾ;7ʾ / 5 7'71.ʾ>4ʾ Aʾ =4:ʾ ,466.1 / .<7ʾ 'ʾ; 1;,465'<;.ʾ 'ʾ >>ʾ?'1' 71.ʾ ʾ ;1 7 =4.8ʾ?,41ʾ=4 ,< ' 7ʾ.4ʾ1.;,416ʾ'4ʾ ?.7 7ʾ ;,<6. 58ʾ =4 ʾ.67ʾ5.ʾ?.<>'<7ʾ>4ʾ;,<6. 5ʾ>.6ʾ @ʾ>.ʾ .< 6;% % H 6;:.18ʾB'55.1ʾ.7H1 6.: J8;, / <466' 1;6ʾ<, / / .6ʾ>'<6ʾ 5.ʾ?'V6ʾ>.ʾ '4>86,<7ʾ;:'1J.6ʾ> :;5' 1.1ʾ5.6ʾ;, / ?5,56ʾ.ʾ > .<ʾ?,4164 -1.ʾ5.6ʾ'47.416% 56ʾ6.1,<7ʾ'66 65.6ʾ>.ʾC8 ʾ -,5,<5' 1.6ʾ?1 6ʾ>'<6ʾ 5.6ʾ;, / / 4<.6ʾ>4ʾ?'V'Iʾ .7ʾ I 5ʾ 4 66.6ʾ>4ʾ?'V6ʾ'55. <'<>ʾ;' / ?.1,<7ʾ'47,41ʾ>.ʾK.1<.ʾ 7'<> 6ʾ=<.ʾ 8 ʾ'<71.6ʾ6.ʾ7 .<>1,<7ʾ ?19 Y4ʾ / '1;:;ʾ '4ʾ0.6, <% .6ʾJ.<6ʾ6'J.6ʾ;1' J<.<7ʾ=4.ʾ;.6ʾ / .641.6ʾ<ʾ 6, .<7ʾ71,?ʾ6.-.1.6ʾ?,41ʾ' / .<.1ʾ4<.ʾ->1 5'07.ʾ?'7@%

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7 Nʾ ' / 7'7 ,<ʾ=4 ʾ'ʾ1.J<>>'<6ʾ;.57ʾ]6; <05 9.ʾ>.?4 6ʾ =4.ʾ5'ʾ> 6;466 ,<ʾ .67ʾ ,4-.17.ʾ 64ʾ ';7.ʾ ;,<67 747 ,<<;ʾ - .<7ʾ >.ʾ ?546 .416ʾ , / 66 ,<ʾ J1'-;6=4.5.6'<7 6>.5'ʾ5 0.17.ʾ ,<7ʾ ;1 ʾ'?.1;;ʾ 8 0 1%%%%ʾ& <ʾ'??5'4> 7ʾ>'<6ʾ .@71>< 5>ʾ J'4;:.ʾ>.ʾ

5 (,5 ('ʾ4+,$('ʾ-('ʾ,$) *(ʾ, # 6*$#(,(-+*' , ,

` ' K'14' -.' . ' :9'1.7 ?'1' 66.<7 '5'71 04<.' ;7 ,55 ; E47 5' ?'1,5.%

%K.'4< .708 ?5'; '>'<6 .@71.< 5 '>.'5' ?'17 .'J6 / ' N:;8 5' 6,55 ; 7.'466E% % B % 47:, <.8 ,<?'66'<78 5.;41.% 55,<8 .7 =4.5=4.6'471.6 / . / 01.6.7,4EE.<7 6' -, @ \'15. 16 ;1 6 .7 ;<16 '??5'4> 66. / .<76%

' . 0 ' , " (& '.< <.<71'<7 % ! 4 55'4 / .N 5.'>. / '<>.=4 B6, 5 1'??.5.' ' ,1>1,%

% 4?,<7 .7 #:'15.6 '< .7:''?74 ;<7 >4 J.67.' 6.77;'?1,?,6 7 ,<% ' 8

' ?'17 .'>1, 7.8 ;'5 / .8 ,06.1-.'.4 6 5.<;.'5' ?'17 .' J'4; : .% _ %

% ! 4 55'4 / .' / ,<7.' ' 5' 71 04<.'?5';>.' >'<6 .@ ' 1>< 5.'>;'5' ?'17 .'J'4; : .%

% 'N .'>. / '<>.'5' ?'1,5.'?,41 4<.'< , ' I ,<> ,1>1.%8 T ' P

'3 'N '5 0;17.' >;'Q' '<'7 , [>.?.<>'>.' '5 0.17V >.6 ,? < ,<6%%%% 8

% , (' . '1' 41 4< / ,7 >; : '??.' ' % ! 4 5 ' '4 / .P7.<>'<7 ' <;45?.1'44 J1'<>'<;?<01,%%%%&R RR_ ' 7 ' ' '0 3' & ' ' ! ' J'4; .I ,<8 <,<%P

% ' 'I .'<.'>>6 1.'?'> =4.' <,< ,? < ,< ?'66.'?'1'-,71.' ,1J'<.8 ?'1;.' =4 .55.'6.' ; ,11, / ?7%%%I 1 .4@ / . / 01.68 -, 6 <6 >.' % ! 4 55'4 / .8 '??5'4 ' 66.<7%P

'J 7'7 ,<1.>,405.> +'8 ' ' ' ' <0'V.8 ' 00'V;E + 'K'1<'-.' <6 67.?,41 07.< 1'5' ?'1,5.% 8

% ! 4 55'4 / .'-.<7 ; ,<7 <4.1 ' ?'15.1%

0 < ?O ;" # , %!9 ' !(!#

% , (' . > % K'1<'-.' ' >. / '<>.'5' ?'1,5.' P 41 4<.'/ ,7 ,<> ,1>1.% ;'-' 6 .,<6457.1 66. <05>.' / 41 6'-, 1 6 ' .55.'-.47 5' 54 ' ' ; ; ,1>.18

66; / 05;.' .67 ; ,<6457>.% + .6 ;1 6 >.'1.@71. / 7> J'4; : .'>.5' ?'17 .'J'4; : .' . / ?>; : .<7 % 5.? .6 >.47 5.'?1, ,4; .1'5.'1>6 7'7>.'5' >.5 0.1'7 ,<%

% / > % ! 4 55'4 / .'< '6'<6 >,47.'?'6 44 <7.<7 ,<> ,EE;<6.1?.16,<<.I ' <6 ' 5 E'47 54'5' 66.1 Q@?5 =4.1'6' ?.<6>.%

% , (' . > .< ' '?'6>.V,5,<7.% -'<7> ' ; ' I,1>.1'5' ?'1,5.8Q.'>, 6.,<6457.1'1 6 . <0 ; ; %%%%% ' ' ' '0 & ' ' ' & A N .N % ! 4 55'4 / .' '>.' >1, 7% %

% 'N .' ; .>.'5' ?'1,5.' ' % ! 4 55'4 / .'8 ?,41-4 =4 ,< / .' ' ; ; ,1>.' '?1.6 54 %

<J7 / <47.6 6.'?'66.<7 >'<6 5' ?546 - - .' 'J 7'1' 5 ,<88

% ' > ;'<.'?4 6 '66;0 / .7,4<;1 >4 71,4M 05.'=4 ' , ; ; 6 ,<<.8 >'<6 ; .77. 66. / 05..8 4<.'?:1'6.' =7 ;' ,<'<.% / '?'6 ?.1 / 6 >' ; : .-.1I ; ;675,16=4;'Q ' ' > 7 =4,'5.6 ' / 6 >.'5'#,<6 747 ,4%8%% 68 '

N ,46 '-.0 > 7 5.6 ,<6 .41P8 5,16=4.Q ' ' 5 7 =4# 5.6 -1' 6 ?1' 6 >.'5' #,<67 747 ,< '-' .<7 1. ' '1=4.'>'<6 ' ;7.' ; ,<67 747 ,4<.5 >.6 , / 66 ,<6 < ' / 15'1 7.6% ;'<;' / '77.<>' 6 ?'6 =4 ,< ;< ; ,<>41' 7 Q4# ; .4@ =<' '-' .<7 ; ,< / 6 ;46 , / 66 ,<6 < >74 ;<7 ^5'6'466 5.6 -1' 6 ' / 6 ># 5' #,<67 747 ,<% & .6 / 41 ' <41. ' 6,<7 4< -.16.56%P .'< ' ' Q' / ' 6 .<7.<>4 ?1, ' ,<;.1 6415.6 <7.<7 ,<6 >.' ?.16,<<.8 / ' 6 Q '5 >> 1.5;-.1''-.;'5.'; ,41'J.8 '-.;'5' E.1 / .7> > 4< 1.?1> ' 6.<7'<7>.'5' <'7 ,<8 >.6 , / 66 ,<6 =4.'Q.' ;1, 6 / ?,1 ' 7' 7.6% 'J 7'7 ,< =4 ' ' .4 5 .4 >'<6 5.6 >. / / 1.6 .'<.;6 '-' 7 ?,41;'46.' ?1 <; ?'5.' ,;6 , 66 ,<6N 6'<6 >,47.' .55.'-' ; .66.18 ?4 6=4 5 .6 6 ,<71 ?1.6=4.' 7,47.6 1>?'1'>.6% ,46 '-.0 >. .1.7> =4.'5.6 >.?47.6 ' '5.J 65'741.'<.'?,4 1' .<7 >71.' ; : , 6 6 = 50 >% / 6 5 1 >?'17. / .<71.6?. ;7 EI -,46 '-.0 >J'5. / .<7 '>,?7 8 , << .' ; ,4 67 747 ,<<.58 5.' >.;1.7 =4 ' ?,17.' =4 4< ' . / 01.'=4 ' '41' >7> > 4 '>.4@ 5.J 65'741.6 >.' 64 7.' 5.'?,411' >71.' 1>> 4 =4 '?1>6 '< <7.1-' 5.' >.' >.4@

'<<>.6I -,46 -.<.0>.'1>7' :5 1 '466 ' ;>. ;1;E=4 ,@;547 -,46 .7 ' 64; ; ;66?%416 >.6 ?5' ; .6 >4 / < 6 1;% .' -,45' 6-446 > 1.'=4 5 <;'1.67' 7 ?546 / ' <7. / / 7 =4 ' 1'??.5.1 5.' >.;1.7 ; ,<67 747 ,4<.58 =4 ' ?,17.' =4.'5.' ; ,1?6 >J 65'7 E ?,411' > 1.' '< 1, ' = .'6.6 / < 671.6 ,47 ?.1>4 5' . , > '<;.' >.'5' <'7 ,<% & < .<7.<> >.6 'Q ?5'4> 66; / .<76% P

% 'N .' < '41' 6 ?'6 < 67> 641 5' ?'1,5.8 6 'Q.'<'-' 6 .4 .< -4.'=4.'>.'>. / '1%>.1 =4.'5.'?1. , ' ? <'<7 E>71'??.5>' ,1>1.'8; '1'5' ?:1'6.' ' 6 '?.< >.' ; ,<-.<'7 ; .' =4.'Q.'<.'>,47' 6?'6 =4.'>.'5.'>. / '<>.1 EE57 '66.0 ?,41 1,0 .< 1% '-' 6 >. / '<>.'5' ?'1,5.' ?,41 '??4V.1 ; .77.'?1,?,6 7 ,< 641 >.6 1>E5.@ ,<6 71.6 #3417.68 1.5'7 -.6 ' ; .' =4 ' 6 .67 ?'66.' ; .6 >.1< .16 Q,4168 .7 ' @6.<7 / .<76 =< ,<7 ;?1,4->6%5.6 ; , / 7.6 ' ; .7 .J'1>% B .18 ; , / / .' '4Q,41> :< 8 5 <,46 ' .5> '>1.66.'4<.'?:1'6.'>,<5 <,46 ' 1 ,46%.4 ' <.<7 .71;' ;' >1, 7 >.'>. / '<>.1 Q467 ; .' ' 66. / 05..% << . / 01.' '> 78 .< 6 '>1.66'<7 ' 4<.'?'17 .'>.' 1 66. / 05>;' =<' '5,16 <7.11,< ?' 7 4< ,? <'<7N - ' ' ' > ' ; ' ' 7 1 ' ' ` ' ' > " ' ' 1 ' ' ! ' ' '

' & < '??5'<> 7 >'<6 .@71> / 7. J'4; : .'>;'5' '17 .'J'4; : .%P ,46 '41 ,46 ?4 >. / '<>.1 '5,16 =4.' ,? '<7 E&57 1'??.5>' ' ,1>1.8 ,46 B.' '-,<6 ?'6 E' 78 ?'1;.'=4 4< ?1. / .1 E' 7 >.' ; .77.'<'741.'<.' <,46 ' ?Q6 ?'14 5.<. ; .66 7.1 / ?.1 . 56. / ;<7% ' 1>?.7 7 ,< >4 4 .'E' 7 / ' .<J'J> '>. / '<>.1 5' ?.1 / 66 ,<>> E' 1.'4<.' / ,7 ,<> ,1>1.8 .7 ' / .771.'01 >-. / .<7 6,46 5.6 V.4@ >.' 66. / 05..' 5.6 6.<7 / .<76 >,<7>>Q% ' : .6 6.6 ; , / 7.6 >7' .<7 ?><>71>68 ' 1' 6,< >.' ; .' = 7'6 .7' 7 ?'66>% .'>, 6 -,46 5.> 1.I >'<6 <,71.' 6>'<;.> : .1 '<6, 18 5'6.45.' >.'=4 ' <,46 ' , ; ; ?; 6 >7' 7 >;'6'-, 1 6'5.6 > 6?,6 7 ,<6 , 5 <,46 '- ,<6-4 : .1 4<.' ?'17 .' >.' 66. / 05..8 .7 6'6417,47 5.6 >.;1.76 =4 '-. / ; ,7 > >71;'1.<>468 .7=4 '?'1' 66' . 7?1>76 ' #71.8 <.'>.' 1' . 7 ?'6 <,46 >.7.1 / <.1 ' <,46 >> / .771.% & 8 < 7: , <.''??5'<> 7%P

% '8 5.6 V.4@ E @.6 641 .@71. / 7> J'4; : .' >;'5' ?'17 .'J'4; : .I ' V ' =4 4< <,V.< >.'6 .<7.<' >1.I . .67 >.'6 .@?5 =4.1% #, / / .'Q ' / .' ' ;1, 1.=4.' 7,47 5.' / ,<>. ; ' [7 ' .'0,<<.'E, %%% <.'-, @ >.' ;@ ' 71. / 5? J'4; : .'N 8 L ' ' , E

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\' .6' ' 71;6' / . / O1.6'; ;'5''E'< 55.' >4'1, '<.'6,<7 6,4 / 6'=4 '4@'5, 6'; , / / 4<.6' '' 7,46 &.6'; 7,V.<6%

#.6' '17 ;5.6'6,<7'>.;1.7>6% G

'3 'N 5'V' ''>'<6' ;6'17 ;5.6'=4'- .<<.<7 > >71;' >.;1.7>6'4<.', / 66 ,<' / '?,17'<5;'6,46'7,46'5.6'1'??,176' >;' 5'' ?,5 7 =4.' .5' >.'5'' / ,1'5.% ,6'?1 <; ?.6'1 '>' / .77.<7'?, <7'>.?1 - 5>J.I' / ' 6'6,46';.77.' >><, / <'' 7, '-,46'<.';, / ?E.<. '?, <7'5.6';7'O5 66. / E.<76;,<6' 7 747 ,<<.5 - ,46''->O' .7'O5 =4.'5''1,V' .'.76 7':. ' 1>> 5' 1.'>'<6'5''1';.'1>J<'<7;8 '17,47 ,7\' 5'V' '' >.6' ;:,6;68 5'E'47 =4 5'V' ' 7'>.6<, / 6% .>. / '<>.'>,<.' =4.'5,46'5.6' / . / O1.6'>.' 5'' E' / 55.' 1>J<'<7.'6, .<7' =4'5 ! >6'>4'5 71.'>.'?1 <;.6'E1 <.' 68 ;5=4 56'<.'Q, 6' 6.<7'?'6'>.6'>1, 76',1> <' 1.6'> [' ; 7,V.<6% & '6 > .-.' >.' - ,5.<76' / 1 <41.6'>'<6' .@71. <7.'>; 5' / 7>' J'4; :.%P' #.77.'?1, / 6 7 4<' 16571>6 / ?,17'<5.I6 '-,46' -,4 .0' / .'?.1 / .771.'>.5''>.-.5,?'?.1G% & 546 .416' -, @7' - '' ' ! E' <';.'# 'Q .<'>> / ' 4.5.'1.<-, ''55';, / 7.%

' /8 'N .'>. / '<>.'=4.'5''?1,?,6 7 ,<' >.' % ! ,4?5'6, 71.Q.7>.'?'1'5'' =4.67 ,<' & 1>'5<O5.% &' <' '??5'4> 7%P' ' % G 8

.=' 'N <6 67.'67PE'5 7' '4.]7 ,<' ?1>'5'O ;% ' 66. / O5;.'?,4-' 7' <.'?'6' '>,?7.18 Q.'>. / '<>.1' 6' .<64 7;' ''>.-.5,??.1' / , '' ,? < ,<%

' '1. >.'1 <' ;6?>1.1''>,<.'7,4Q,416'E' 1;' 1.- -1.';. 7;'<,O5.66.Z 8

' 1' 'N .' / . 55.41' / ,V.<'>.' 5'' >>514 1.GG' ; ;65'>;'>,<<.E' 4<.?1>1,J'7 -.' ' ' / . / O1.6' >.' 5'' E' / 57.'1,V'5.%

% ' >' % ! ,4?5' <'' ?'6' .4'5.'7. / ?6'>;' >> G V.5,??;1'6,<' ,? < ,?% 55.' .67 '??<V>.'?'1' ?546 .416' / . ?O1.6I Q .<'>. / '4>.>.'1.<-, ''4';,1'7.%A

' <>; / ' >.'5''=4.67 ,<' ?1>'5'O5.'641';.'1.<-, %

% <7 I' ,46'-.O'>>.1>7.;, 67 545 ,<<.55.1'.'7' ' =4 5' < V' '<1' 7' ?546' <' #, / 7.68 <'>4.68 <' '?1 <;.6% ,4-;<. " ,46'>.';.'=4' E47'> 7' '5,16% ?1E.6'5.'1, ' .7' :>1 7 ;1'?1.6, / ?7 E'>.'5'' ; ,41,<<.8 5' < V' '' =4.'>.6' 8; 7,V.<6'E1'<J' 6%

9' ((O'N .'>. / '<>.'=<.'5''?1. / E.1.'?1,?,6 M 7 ,<'>;' % ! ,4?5'6, 5'E.Q.7>.'?'1'5''=4.67 ,<' ?1. '5'' ' O5.8 .7'5''6.;,4>.'1.<-,V. .''4@ #, / 7.6% ' < V' '' ?' ' >;' / . 55;?1' / ,V.:'>'1.7' 1'5''<,O5.66.'=4.'>;' 1'' ' / .<;1'>.6'5 71.6' '<6'E,<;7 ,<6I' -,46' -.11 .O'?1, / ?' 7. / .<78 ;7' -,46' -,V .O >>Q'' ?546 .416'E' / 5 .68 =4' ?1.7, >.<7'>.6;.<>1.'>.'5'' O1' ;:.'1,V'5.%

%K K ON '?1,?,6 ,<=4 -,46.67E' 7.'?.<7 1.'>.-.5,??. .'>'<6'4<.'7:,,1 .' ;5 ,<;,.'?'1' % ' 1'0.' % ''E' / 57.'1,V'5.' .67'>.1,41.' ''5''5 0.17.'P\ ' O5 =4.% .' / . / O1.'>.' 5''5' / 55.' 1,V'5.'=4'- .<7' >;g' >. / '<>.1'5''=4.67 ,<'?1. '5'O5.' '' .<'1' 6,<'>.'5.'E' 1.8' 6 5' '' ;,<;54'=4.';.'5 71.'>7 7' <;, / ?'7 O5.' '-.V%;.54 %' >.' ; 7,V.<' E1'< ' 68'0.'4;,4?'?546'0.'4% #.?.<>'47' 5''=4.67 ,<' / ><5.4<' .@' / .<'??,E,<> % E R %[''1%1' ' ' ' ' ' 3'& 'J O' .]7\' Q4J..%P' ,46'-.<.O' >.' >>.1>7.1' / .' ;'?1. / .1'%64?'$?5.'<5'''5';,41!< E6.'<, / / .1' 5 1<;. ,V'5I' -Q< 6' <.'?,4-.O'>,<.'?'6'> 1.'=4.'-,46' '-.O'>>.1>7>' =d G < V' '41' 7'?546'7 .'?1 <;.6% ' <.6 'J 7'?'6' ;'&1' 55.416' >'4<.'> 67 <;7 ,<E>,>'5;8 / ' 6> 4<.= '5 7>'?,5 7 =4.8' =4' ;67 =4 4<.' .@;546 ,<' :, ,1'O5. >.6'>1, 76'=7 ?' 5.6' / . / O1.6'>.' 5''>V<'67 ;' <.'?,411' .<7' ?.47 >71.' ?'6 .@. ;.1'6'<6'?4 1.' ''5''5 0.1 .'?4O5 = ;%

.@71> / 7>'>.'5'' ?'17 .'J'4; :.' <6 67.'>.'<,4-.'4' 641%5''=4.67 ,<' ?1>'5'O5.% B'

G9' ' B 'N .'>. / '<>.'5''?'1,5.'?,<1'<<.' / ,7 , ' > ,1>1.% G8 G' Y'

b' ' #' 'N '' / ,7 ,<' > ,1>1.' .67 =4.' / G ?2O17'<;.'=4', ' / .7''>. / '<>.1'5.'1.<-, '>.'5''?1,?,M 6 7 ,<' '4' ;, / 7>' >, 7' >?1.'4<' / ,7 E'?,41'8 '' 1.Q.7.1%' <.' ?'1> 55;' =4.67 ,<' ?.47 .55.'1.67.1' . 1 <6?.<6Z' ,<11 .O -,46'6,17 1'>;';.77.'6'55.'?1.;';.77.'>..I' 6

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D'APRÈS MERCIER.

Typ. Henri Plon.

Réimpression de l'Ancien Moniteur. — T. IX, page 398

Victor de Broglie, député de Colmar à la Convention nationale, élu président le 14 août 1791, condamné à mort le 9 messidor an II.

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.6 1'-<J?68 6, 5=4 56 ' ;<5 ; ' ;, / / 6 ,4 ?'1 5 <. ;1 / <;55. ;@'55'7 ,<8 ,4 ?'1 7 . - 56 01 J'<>68 ,< ?'1 5.6 ?.1E >.6 / .<>.6 >.6 .<<. / 6 >; 5" ?'71 .8 6, <7 ;< : ,11.41 " 5" <'7 ,< N 56 ,<7 E' 7 E1. / 1 6 6; / 05>. <'7 ,<'5.8.7 / >5. > ' / .174 <. 5. 6.<7 / .<7 >. 5" ?41.7; >; 6;6 <7.<7 ,<6 .7 ,1J4. 5 >. 6.6 64.

< .67 ?, <7 >; 6';1 E ;.6 < >. >'<J.16 '< ?1 @ >.6=4;56 .55. < ; - ,474 ' ; : .7;1 ; ; ?'66'J. 6'<6 ; ,<-456 ,<6 > 4< >7'7 ,7 5" >,4; .41 >.6 <,. 16 7;< ?.1' 7 E54.4;. >4 >.6?,7 6 / . " 4< >7'7 , 5 .55. ?, - ' 7 .6?>1.1>. ?.1E. ;5 ,<<.1 5.6 1', .416 8 ?'1 1.E5.7 > 4<. ; ,<67 747 ,< 5 01. % ,< .6?, 1 6.1" ; , / 05> I / ' 65" ; .17 74>. >. - , 1 4< Q, 41 6;6 - ,.4@ 1. / ?5 6 <. 5" 1.<> ?, <7 <6.<6 05. " - ,71. >,<5.41% 34. ; .77. '6641'<; . 6, 7 4< 6,45'J. / .<7 - ,6 <'4@S 4 8 66. / 05>. ?'17'J. - ,6 1.J1.76N " 5" -4. >. - ,6 5'1 / .68 .55. 6. 6.<7 . / 4.8 .7 ?' . ' - .; 6'7 6E' ;7 ,<8 4< 71 047 " 5" <'741.8 .< 1; ;4. 55' 7 ' - .; 6, < 5.6 '; ;.<76 7,4; : '<76 >. 5" - .174 / '5: .4 1;46.%

< >. % 5.6 6..1>7' 1.6 E' 7 5.;741. >4 / > / , 1; >. / '>' / . ! 4 55 <I .< - , %; .@71' 7I

W < . - .4- . ?5,1>.8 5 <. / .1. >?.1>4.8 4< ?>1. ; : '1J> > ' <>.6 .7 >. E.168 6.6 .<E'<76 <E,174<>6 6'<6 ; ,<6,5'7 ,<8 6'<6 '?7 8 7.5 .67 5. 7'05. '4 641 5.=4.5 Q. - .<6 5 @.1 - ,6 1.J'1>6%

$,46- , 6 1'??; 5.1.0 6'<6 >,45.8 / .66 .416 8 5.6 ; 1; ,<67'<; .6 ;14.55.6 , " 6. 71,4- " 5" - 55. >. V,<8 5,16=4. % ! 4 5 < >. ,4J;5,<8 E1.1. >. / ,< / '1 8 E47 >.<,<.>8 ' - .; =4.5=4.6 '471.6 ?.16?<<.68 ?,41 ' - , 1 E,1 / . 4< ?1 Q.7 >. ; ,<71. 1>- ,547 , % .'1'?M ?,17 =4 - ,46 " >7 E' 7 >'<6 5.6 ?1. / .16 ?'1' 66' 7 <;45?.1 .< =4.5=4. / '< >1. 5.6 ' ; ;46.6I 4<; ?1>- ,V'<; . ' ;7 - . .7 <. ;.66 7.. .<J'J. ' 7 - ,71. ; , / 7> >.6 1. ; : .1; : .6 2 >.6 1 J4.416 E'7'5.6 ?,41 =4.5=4.6 <> - >46 8 / ' 6 6'747' 1.6 > 5" ; : ,6. ?4 05 =4. % % ! 4 55 < >. ,4J.5,<8 .11'66. .7 .6M ; '16 8 ?1>- .<46 8 E41.<7 ; , ,>' <<.6 " J'1>.1 ?1 6,< Q46=4 " ; . =4 5 ;< .> 7 >7> '451.<7.<7 ,1>,<<.%

8W . ?,411' 6 E' 1. / 5 7.1 ;< E' - .41 >.6 ' ; ;46>6 >.6 ? >..6- ;7,1 ;46.6 =4. 1>=4 7> >4 / < 651. ' ;54.5 >. 5" Q467 ; . " 1. : >4.6 " 5" 54 / .1. 8 ?,41 >;5' 1.1

<<, ; .<; . >. % ! 4 55 < .7>. 6.6 ; , ' ; ;46.6I Q.>, 6 / . 0,1<.1 " ?; : >1. ; ; .416 6.<6 05.6 5" 6 74'M 7 ,< >.?5,1'05. >. ; . - . 5 '1>8 =4 E475.0 .<E' 7.418 5. ; ,<6. 5 .7 5. >.E.<6;41 >. ; .4@ =4 ,6.<7 ' ; ;4 .1 '4Q,41> : 4 I 6" ; '46. .67 >71, 7. / .<7 5 >. " 5" / .<<. .7 " ; .55. >. / .6 .<E'<76%

W % ! 4 55 < ,<7.58 / ,< / '1 8 ' - ' 7 ?'V> 6,< 71 047 " 5" ?'71 .I 5" ?'71 . .< ' - ' 7 1>; , / ?.<6>I ; ,< - .17 >. 05.6641.6 <,<,1'05.68 ; : '1J> > '<<>.68 .<- 1,<<>>. .67 / . ?405 =4.8 5 0'0 7' 7 ?' 6 05. / .<7 6" / ' 6,< >. ,5. / .4@8 ?1>6 V,<I <, .7 6;6 .<E'<76 E< 6 ,<6 6,< 4< =4. 6, ; >7.I 6" / ' 6,< E47 7,4Q,416 '6 5. .7 5. 1. ; ,416 >.6 / '5: .41.4@ =4 5 . 5. 6,55 ; 5' .<7 Q' / ' 6 .< - ' <I .55. >.- <7; .54 >; 5" E' / <. >. 6,<E1.1.8 5,16=4. ,1'J. =4 >.- ' 7 <,46 >;1'6.1 ' - ' 7 >>Q" J1,<>> 641 6" 7>7.% 455. ?5' 7;8 <455. 1.?1, ; : . / <>. < ' - ' 7 ?4 6 >5.-.1 ; , 71. 54 % ,4Q,416 E >>5. " 7,47.6 5.6 ,<> 66'<; ;68 5 1;6?; ;7' 5 7,47.6 5.6 '47,1 7>6% >Q" ?546 .416 - 6 716 ' - ' ; 5 > > E' 5.6 >'<6 5" / ' 6,< 1>>Q" ,< 6 >7' 7 '6641. ?546 > 4 7; E, 6=4.5 " ?' @1>J<' 7>' : 6 <,71. '6 5; ;5 5'6'J;66. >'<6 <,71. ; ,<>4 7.% :5 6'<6 >,47;8 >.6 .<<. / 6 >4 , / =4. <,46 ?,17,<6 < ' - ' ; 7 ?'6 ;14 5.41 5 ' <; 6'7 6E' 7. ?'1 5.6 ?1. / .16 <'55 ; 16 >,<7 56 <,46 ' - ' .<7 'EE5 J>6%

$. C#Q4 < >.1< .18 >.4@ / 4< ; ?'5 7>68 6. Q, J ' 7 " ; .55. >; ,5. / .4@8 ,6.<7 <- .67 1 <,71. : 'M 0 7'7 ,< I 4<. 1. ; : .1; : . > '1 / .66.1- ' 7 >. ?1.7.@76%

'??'1. 5 >. J4.11. .67 >.?5,V>8 .7 71, 6 ; .<76 J'1>.6 '7 ,<'5.6 ; ?1.66.<7 ' 7, 1 >#6 ,EE ; .16

<4 / ; ?'4@'4;4<. >>E.<6. 4 .65 ,??,6..% : =4 '41' 7 ?4 5' 1. 4< - . 55'1>8 . 7,41. >. =4.5=4.6 E. / / .6 ;5 > ; 5'<76'4 0;1; .'4

$ 8 ,<7.5 >; / ' >. 6 5 V " >.6 ,1>1.68 ,0Q, ;7. =4. 5.6 '11>7.6 >4 >.?'17. / .<7 >.E.<>.<7 >. ?'1. 5 5.6 <;416 ,<6I 5 ?'1 ; '4 <, / >; 5" 5, I 5 < .67 ?'6 >; ,47>8 / > / . ?'1 .6 ,EE ; .16 / 4< ; ?'4@% . / ' - '<; . '4 >.- '<7 >.6 ?546 ' ; : '1<>68 ,< / . 1,6?. ; 7' 7 .<. ,1.I <' 6 5. ;1 >. 5" E41. 1 6. ?1,?'J. < 5, <I 5. 7, ;6 < 6,<<.8 5.6 - 55'J.6 > ' ;<7,41 6 '6 6. / 05.<5I 71.<7. ?'1, 66;6; ,41.<5'4@'1 / ;6871.<7. >1'?. ' 1@ / '1; : .<7N . : S ., <71. I=4 8 J1'<> ; Z ; .<71. 4< - . 55'1>8 ; .<71. >.6 E. / / .6 .7 >.6 .<M E'<768 < >. / '<>. " J1'<>6 ;1 6 5" 7>7. >. / ,< / '1 % .6 >, / .67 =4.6 ,47 E4 I 5.6 ?,17.6 6,<7 ;< E,<.>.68 5.6 / ;405;6 6,<7 01 6>6% . E,1; . / ,< / '1 " 6. 1>E4J .1 >'<6 4< >,<Q,< >; '17.I 5 ' - ' 7 >>Q" 5 M - > 6.6 '1 / .6 6'<6 '77.<7.1 " 5" - . > '4;4< >.6 '6 6' 55'<76%

W . 1.67; 6;47. '< / 5 .4 >. ; .6 E,1; .<>6I >>QQ 5. ? 55'J. ; , / / .<; .I <; .<> ;8=4 ' - ' 7 ?1>; >>>86. / '< E.67.>. 7,47.6 ?'176I Q. / . E' 6 < ?'66'J.> 71' - .165" E5' / / .% ,< 6.@; < .67 ?546 4< 1. / ?'15 ?,41 / , ; , 51. 5.6 E41 .4@ I ; .?. 45'<7Q >5.- . - . 6 .4@ / " - , @ 64??5 '<5,8 Q. 5.41 7.<>6 5.6 01'6 ; : '1M J.6 >. / .6 >.4@ .<E'<76 J5';>6 > .EE1, .7 >'<6 5.6 ; ,<-456 ,<6 >. 5" < ,17% - 'J'<7. '4 / 5 .4 >.6 <1 / .68 . ,4- .17. >; ; ,4?6 .7 > 6 57.6 8 Q. 5.41 ,EE1. / " - . ?,41 6'4- .1 .c5. >. / ,< / '1 I Q. 6, / / .8 '4 <, / >. 1: 4 / ' 7> .7>. 5" 5, 8 5.6 ,EE ; .16 / 4< M ; ?'4@ > <7.1?,6.1 5.41 '47,1 7.% " E 1.41 ?'1' 7 4< <67'<7 646?.<>4. I Q. / . E5'77' 6%%% 5 < .7' 7 ?546 7. / ?6I 5.6 E5' / / .6 ' - ' .<7 E' 7 71, ? >. ?1, J1.6N E,174<>8 ?, 164 - ?'1 .55.6 >. 1.71' 7; .< 1. 71' 7.8 < .- 7. 4< J.<1. >. / ,17 =4. ?,41 1;71,4- .1 >.6 '66'66 <6% 34>= .6: , / / .6 .<; ,41'J.<78 < 1>?,<>.<7 >. 6" - .I - ' <6 6.1 / .<76 S '466 7E77 =4 5 # '1'57 5" 1'J. 1.>,405.8 %,4 6. ?1.66. N . .67 4 =4 4 ?,17.1" 5.6 ?1. / .16 ; ,4?6% ' - / ,< / '5: .4M 1.4@ / '1 : ' ; : >8 7,47 - - '<78 .< ? . ; .6I Q ' -4 6.6 / . / 01.6 7, / 0.1 .?'16 '47,41 >. 54 I Q ' -4 6,< ; .5 < ,41'<7I Q ' .<7.<>4 6" : ,4; : .@? 1'<7. / . ;1 .1 6,< >.1< .1 '> .4% 5 1. ; , 7 5" / ,17% ' -4 . ,4?.1 6" 7>7. 8 .7 6.6 / . / 01.6 6'<J5'<76 ; / ?,17>6 .< 1, ?: . . >'<6 5.6 - 55'J.6 - , 6 <6%$# .4@ =4 1.6 7. 76; > 6 P 7.<76,< 71,<; <E,1 / . .7 / 47 5.I 56 0' J<,<7 >'<6 6,< 6'<J 5.416 - 6'J.6 : >.4@ .7 5.<16 / ' <6 ?'11 ; >.6I 56 6 ,EE1.<7 '4 ?.4?5. >'<6 ; .7'? ?'1. 5 ,>Q.4@% ?.1> .8 .J'1>.8 : 415'<7 >'<6 / ,< >>6. ?, 18 Q. 5.41 >. / '<>. " J1'<>6 ;1 6 5" / ,17I ;7 5.6 ;14 .568 6'<6 >,47. ?,41 '4J / .<7.1 / .6 / '4@8 / ,<7 ; ,<> ' / <>. '4 7,41 / .<7 >. - -1.%

$ < < 5.6 ; '<< 0'5.6 6. 1.7 1.<7I , : - ,<7 568 J1'<> .41.<,4- .5.15. E.67 < > 71; .8 E' 1. 1 5 1 5.6 / . / 01.6 >. 5.41 - ;7 / . .7 5.6 >.- ,1.1 .< 64 7.%%% " J.<>'1 / .1 . <'7 ,<'5. 5.6 '11>7" '< / M 5 .4 >; ; .7 '0, / <'05. 1.?'6%

W 11'<7. '4 / 5 .4 >.6 0, 68 ; . < .67 =4. - <J7 =4'71. 0. '1.> '?1.6 =4. Q ' ?4 / . 1. 4< 1 ' - .; 5.6 1;67.6 <E,174<.6 >. / " E' < 55.% ,46 <,46 6, / / .6 1>E J ;6 " V,<8 <. ?,4- '<7 ?546 : '0 7.1 5 <.8 / ' M 6,< 1.>4 7. .< ; .<>1.68 =4 ' - ' 7 ;<J5,47 >'<6 6.6 >. ; , / 01.6 / . 0 ;68 '1J.<78 ; ,<51'768 .<#< 7,47 ; ; =4. <,46 ?,66.> , 6% : = 4 . <,46 1.67. 7 5 " <.6 .<E'<76 .7 " / , Z 1 .<% 34. 1.67. 7 5 " 4<. E. / / . <E,174<>;8 4 >.6 E 56 ; , 10>6 6,46 5. ?, >6 >4 / '5 E' .41 Z < ?.1;8 < / '1 %

W % ! 4 55 < >; ,4J.5,< .67 >'<6 5.6 E.16 >.?4 6 <.4E / , 6 .<5 ;16% #. - . 55'1>8 =4. 6, @'<7; : 4 7 '<6 >. E1'- '4@ 47 5.6 ,47 ?'6 >4 ; ,<>4 1. '4 ;1 / .8 J> / 78'4 6.;1.78 ?1 - > >. 5" - 4. >. 6.6 ;< E<< 68 6'<6 '4;4<. .6?. ; . >. # ,<6,5'7 ,<8 >.- ,1> > 4=4 ;54>.6 .7 >; / '4@ ? : V6 =4.6I=4 E,<7 ;1'5' %

U

>1;'?,41'6" - .% #5 '=4;'0,41' "6, /0 76 'JJ1'-.1'6.6' ?.17.6% " E. / / .' 7 .' 6,4' 556 ,?.46;' -7 174#B ;' .7 /E.1.' 7.7 >1.8 =4' E' 6' 7 5" #,<6,5'7 ,<7 .' 6" - ; 5' ;66.8 ' ;;'0 .' ?'1'7.' ;,4?=4' 54' .<5.-.' 41' 0;'<' ?E.1.'=4 .55;' ;0.1 66' 78 >'<6 4<' ';;.6 >.'>.6.6?, 1' '?1E.6 '-, 1'11,6.'>.'6.6 5'1 / ;6 6,< .<E'<78 6.' ?1. ' ; ? 7.' ?'1'5" E;<X71.W .7 / .41 7 ?5.41>.' ?'1' 7046 5.6 >71.6 6;<6 0 ;6% F

$ % !4 55 < >.' ,<J.5,<8 >,<7 0.' - .<6 B->6 ? .>6 1.;5' / .'5" 5 0.1 .8 .67 5.' 747.41' >.' / .6 .<' '<76% # .67 6771 54' 6;<5 =4.' 1.?,6.<7 <,6 .6?.1'<' ;.6I ; .675.'6.4' ?1,7.;7;41'=4.' <,46 ?4 66 ,<6 1. ' ;5' <.1I 5" <'741.' <,46 5.' >,<4' 78 5.6 / 'J 671'56 1,47;,<5 1 / >%

\ .'-, 6 &5. <'<>.'>,<.8 / .6 .4168'4'<, /'>.'5" <'7 ,<8 '4 <, /'>.'5" 0467 ;.8 > .71.'E'-,1'05.6 " / " >;<'<>.8.7>.'5";,41,<<.1'?'1'5" / 6.' .<' 5 0.17.' >;' % !4 55 <' / ,<' 0;'4 E1.1.8 747.41'>.' / ,6 ;<' E'<76% ,46 ';=4.11.0 ?'1' ; .7 ';7.'>.' 0 .<E' 6'4;.' <<'<,4-.'4'>1, 7 " 5" 1.;,<<' 66'<;.' .7 " 5" -.<.M 1'7 ,<'>4'?.,?5.'E1'<;' 6% $

U66. / 05..' 1.<-,E.' ;.77.' ?.7 7 ,<' '4';, / 7.'>.6 1'??,176%

' $ " ' ,16 >.'5" J4.11.'=4.'5.'1, '>.' 1466.' E 7 " ;5;;7.41>. '@.8 B. / 'J<.'6.'71,4-" ;@kP, ' 6..' " <;416 ,<'>.6 71,4?.6 .71'<J.1.6%

4 <, 6 >;'0'<- ;1' (#8 5 '-' 5 .7.' ?'66>' 4<' 71' 5' >'55 '<;.' .<71.' 5.' 1, ' > J5.7.11.' ;7 5" 1466.8 ?,41' . / ?>.:.1'7,<7.' <71,>4;7 ,<'>;'71,4M ?.6 .<' 55. / 'J<.% 5,16 5.6 ?1 <;.6 >.' . / ? 1;'6,5' ; 7.1.<7 4<' '471.'71' 7;'-..'5" H1'<;.8 .78 5.'C / '' (98 5 V .47 4<.' ;,<-.<7 ,<' 6 J<. ' " .16' 55.68 .<71.' 5.' 1, ' .7 <?;1'71 ;. 1. <.8 ?'1' '=4.55;' 5.' 1, ' ?1, / 7 >.' J'1'<7 1' 5.6 7'76 >;' / ?.1'71 ;. ' 1; <.' .7 > . / ?5,V.1' ";.7 .EE.7 4<'6.;,416 >.'- <J7 <' 1.' / 5 .':, / <.68 >,<7 > @ :4 7 / 55.' :, / / .6 <E4<7.1 .' .76 @ / 55.';:.-'4@%

416=4 5 E47 =4.67 ,<'>.'7 ;@ ;47 ,<'>.';.'71' 7.8 5.' 1, 'E.@.;47" '-.;'7,47.'5" J1'<>.41'=4' ;,<-. ' <' 7 "5" / '0.67.'E1'<=' 6.8 .78 '4'5 .4'>;'- <J7 =4' ' 71.' / 55.' :, / <.6 ?,41' >#E.<>1.' 6.]' '55 .68 5 ;7 ' -,V'8 '4' ?1 <7. / ?6 >.' ((8 ;.<7 / 55.' :, / / .6 5'<6 5.6 7'76 >.' / ? 1.%

#.6 71,4?.6 >.E.<> 1.<7 5" H1'=;,< .8 5.6 7'76 >.' 41.5<0.1J8 >4' B'47 K5 <' .7 > 4<.' ?'17 ;>4';;1;5.' 54' K'6 5 <I .55;6 1.J41.<7 >'<6 ;.6 > EE.1.<76 ;'<M 7,<6 >.6 / 4< 7 ,<6 .7>.6 E,411'J.6 >.6 ?1 <;.6'>.' / ? 1.% 5 ?'1'E7 =4 ";.7 .J'1" 5 V '-' 7 .4'>.6 ;,<-.<7 ,<68 / ' 6 5 ?'1'E7 '466' =4.8 64 -'<7 ;' >1, 7 >.' 5" J4.11.8 5.6 ?5';.6 =4'>7' .<7 >.E.<>4.6 ?'1'c.6 71,4?.6 E1'<;' 6;6 >.-' .<7 5.41'E,41 1'4<.' ?'15 .'>.6 / 4< 7 ,<6 <.;;66' 1;6% ,41' V ?'1-; 18 5' '-' 7 .7>'1.?'17'7 <';,<7 <J.<7 >.'E? 11'J.6 .<71.' 5.6 > EE41.<76 7'76 >.6 ;;1;5.6 >.' H1'<;,< .8 >4' B'47 ;7 >4' K' :<%

6 <.E41;'7 ?'6 7,<6 .@';76 "E,41< 1'5.41'?,1M 7 ,<8 .70.'-, 6-?'1' > 7E.1.<76 / . / , 1.6 >4' 041.'4' >;'5" J4.11.8 <,7' / / .<7 ?'1'4<.'5.771.'>.' % !4 5' 5,78 '5,16 <7.,>'<7 >.' '1 <;.8 .<'>'7.' >4' C '>0' ;; <01.' (9 8 =4 5 V '-' 7 >.' ;.6 7'76 >,<7 ,<' <.' ?, 1' 7 1;7 1.1'5.41';,<7 <J.<7 =4 .<'5.41'.<-,V'<7 %5 .6 >.5';:;< ;<76 ?,41'5.6 E,1;.1'4 #>,<<.1%

.'-, 6 >'<6> '471.6 ;751.6 =4.'> '471.6 7'76 ,47 ,55;17 .<'1J.<7 ;.6 E,41 7<1.6 >;'E,411'6;68 >;'1'M 7 ,<68 .7;%I ;.=4'?1,4-.'=4 56 >.-' .<7 >,<<.1' ;.6 6;;,416I ;'1' 0 ' .>7 ;7.'=4.67 ,<'>;'5.6 ' .:.7.1';:.0 ;<@8 ,<<' 1' 7?'6 .@ J.'> ;4@>;' '1J;<78 '4'.><' 1' 1.' ,<'41' 7 .4' '5.41'.<'>,<4.1%

' ;?,=4.'>.' (9 8 5 '55 7 ;, / ?7.1''-.;' ;6 >7E' E. / E76 7'76 =4' '-' .<7 E,41<' >.6 E,411'J.6% 1, ' ;:'1J. "6,< / < 671.' .<' 55. / 'J<.'>;'<,7 E ;1' " 74<6 5.6 ?1 <;.6 >.' ;.6 7'76 =< 56 ; 66.<7 " ;<' -,V; I8% '4' / , 6 >;'04 55;7?1,> ' 8 ' <0E; ;;8 5.6

? #;.6 =4 56 ?, 11' .<7 '-, 1' '4' 6,4'5 .<' &5.'5.416 ?1.7.<7 ,<68 5.6 ?1.-.4'<7 =4.8 ;.' 7. / ?6 ?'66.8 5 < .<' .1' 7 ?546 '> / 6 >'<6 5.6 041.'4@ .7'05 6 " ;,7 .EE.7%

K .<'<.'?1,4-.'=4.';.5"' 7 .7.'.@#;47>I / ' 68 .<' % (9 8 ,<'>1.66" 4< #7'7 J.<#1'5 >.';.6 E,41< 7 1.6 6'<6 67'74.1';.'=< 5 '??'17 .<>1' 78 .7 ,<'.;:'<J." ;,<71.'>.6 1.;,<<' 66'<;.6 J. <#1'5.6 5.6> EE.1;47.6 1.;,<<' 66'<;.6 ?1,-6,51.6 >,<7 5.6 7'76 > 55. ' < 'J .' .7' .<7 ?,17. 168 .7 =4'6.' / ,<7.<7 .<'7,7'5 " U / 55 ,<6 ((8 '5 -%

.?4 68 ;.6 ,00.76 E<1.<7 ?1.6.<7#6 ?546 .416 E> 6 '4';,<6. 58=4'5.6 1.0.7'I .7 .<5 <'4<''11.7 >. () ' ?1>,<<"=4 56 6;1' .<7 .;'17.68 .7 =4.'5.6 / 1 671.6 . '1.?'15.1' .<7 ?546% *'.@; 7''5"- 55.'>.' .J.8 / ' 6";,<>7 ,<'=4 .5 .' . / ?5, .1' 7 5"6, / / .'=< 4<' 54'1. / 0,416' 7 "5";,<6714;7 ,<';7 ?.1E.;7 ,<'>.'5" 1,47.'>.' ! -.7 " .J.% ' 8

'<6 ;.7 .7'58 5.' ' ,;5,01.' (* 8 5"- 55.'>.' 4M 1. / 0.1J'-,46 " ?1 6.<7 ' 4<.'?.7 7 ,<'?'1' '=4.55;' . 5.'1.;5' / .'>.6 6, / .6 >4.6 ?,41'>.6 ,00.76 >4' ;.77.' <'741.% ,46 '-.0 1.<-,V..' '4';, / 7.' > M ?5, / '7 =4.' .7>.'5 =4 >'7 ,<%

.'> 1.;7;41'J. <.1'5 >.'5 =4 >'7 ,<8 .<'<,46 1. ' >' 7 ., / ?7.'>.';.77.' 'EE' 1.8 <,1<6 " E' 55.;741.' >;' '17 ;5.' ' >4' >.;1.7 >4' ('04 55.7 (* 8 ' 6' ;,<J4'N

0 ('3. + 3('5 $+ .+ .((, (-+*" ("# . (" -9+! (3*,'+ , .$' (" '5 $3$4+.' (f .- **+,(.'/ $*$',.(" - ' . $/ 36+).(" -(" 3 4,(" (,'+ ,.(" ,.) *+ 2/ 3' 4 ..+' ,.('4.('(4, 3'+ '3 ,*$, '-(' 5 $-+- :

' ",06.1->=4.'5.6 E,1 / .6 5.J'5. / .<7 '47,1 6. .6 046=4 ;'?,41'>.6 1.0.;7 ,<6 >...'J.<1.''-' .<7 .7;' 5" ?1 6.<7'7 ,<' >.' 1.=4 7.6 ,<'>.' / . / , 1;68 6, 5 '4@ / < 671.68 6, 5'4';,<6. 5I =4.8 >'<6 5.';'6 ?1.M 6.<78 ?546 .416 / . / , 1.6 '-' .<7 .7>'1.0.7.6 ?'1'> E' E.1.<76 / < 671.68 .7 =4.8 641'>.'<,4-.55.6 <67'<;.68 H'EE' 1.''-' 5 .7.'?,17..''4%;,<6# 5 >4'1, 8;7V''-' 7 .7>'1.0.7>.'?'1'4<.'> 6;466 ,<'E,1 / ; .%

'?1.6 ;.5'8 ;'> 1.;7;41'J>.<.1'5 >.'5"5 =4 >'7 ,<' ";,<;54' 5 ;.'=4 5 EE57 > 7 =4 5 < V' ' 7 5 .4'">>5 ' 0>1.1'641'5" >. / '<>.'>.6 7'76 > 55. / 'J<.%

,6 ;, / 7.6 ,47 '>,?7>' 5.' / > / .' '- 68 ;<'6.'E,<M >'<7 .<;,1.'641'>.4@' 71.6 / ,7 E6%

.'?1. / .18 . .67 =4 56 ,47 ;14' =<.'5" H1'<;.8 E,41< 66'<7 > @ / 55.' :, / / .6 '4'5 .4'>.'- <J7 =4'' 71.'=4 .55;'' '-' 7 ?1, / 68 >.-' 78 .<';,<6 >.1'7 ,<'>;' ;.77.' '4J / .<7'7 ,<' >.' 6;;,4168 >71.' > 6?;<6;;' >.' E,41< 1'>.6 E,411'J.6% .'6.;,<>8 . . 7 =4 .<'6<?c\, ' 6' 7 =4.5''5 =4 >'7 ,<'>.' ;.6 E,41< 741.6 >>7 .71.' E' 7.8; .7' 7 '4' / , / .<7 , 5 5.6 <7.<>'<76'>.' '1 / ..' .7' .<7 .<;,1.'>'<6 5 / ? 1.8?,41'6'-, 1';.'=4'>7' 7 '5";:'1J.'>.'5" H1'<;.' .7 " 5";:'1J.'>.' / ? 1.8 =4 ,<'>.-' 7 5"E' 1.%

.'-,46 ?1,?,6.'>,<.'>.'>.;5'1.1'=4 5 < V " 5 .4' '>.5 0.1.1'641'5"> . / '<>.'>.6 > EE.1.<76 7'76 > ' 5. / 'J<.%

%0 EJ4' ' 'N " - 55.'>.' 41. / 0.1J' " >.6 5 71.6I 56 ,47 .7.' 1.,,<<4' ?'1' % #:, 6.4' .<' (9 N ;7 ?1.<.0 0 .<'J'1'>.8 / .66 .4168 =4.'5.6 7'76 >> ? 1.4 ,<7 ?, <7 1.= 65;671,<?.6>.H1'<;.I' . .67 5" / ' 6,<'> 471 ;5 .'6.45;'=4''-Y\7 ;,<71';7.' 5.' 71' 7.8 .7 =4' 0.6 " 1.=4 6.6I / ' 6 5.6 7'76 >;' / ? 1.'4 .<',<7 ?, <7 ?1,7 7>I 56 ,<7 '<;,<71' 1.' 5 < <. 76,4EE.17 >4' 6>0,41'>.';.6 J1'<>.6 '1 / .;6 8 641'5.41'7.11 7, 1.I 56 5.41',<7 E,41<'>.6 E,411'J.6 =4 56 ,<7 ?'V.6 >;'5.41'?,;5 .8 / ' 6 =< 56 <.' ;' ^ -' .<7 ?'6 ;, / / .' ;,<7 <J.<78 6417,47 5" - 55.'>;' 41. / 0.1JN >.6 5.771.6 =41,<7 >7>' .;1 7.6 ?'1'5.6 / < 671.68 '?1.6 5" J4.11.8 ;<'E,<78 E, % '55.416 0 -,46 >.-.08 / .66 .4168 ?'17 .<5 .1. / .<7 >.6 .J'<56 N "5" - 55.'>;' 41. / 0.1J'II; .67 5 <.'1>? 05 =1 .8 / .' % 55.'6, -;1' <;8 =4'"1;;, 4' -, 1.'6,4-;1' .5.N

FIG

(

4<.'7.55.' : V ? , 5: ' <.'?.<7E71.'E' 7.% '<6< '-.0
?'6 >4 <.' '4'1, '>.'5'' ; ,<67 747 ,<'5.'>1, 7>.'1.E4 '
6.1'E,1 <;55. / .<7 6'' 6'<;7 ,<I 6,< 1.E46 < .67 =4.'
6<6?.<6 E8 .7 5<.?.47 .@?1 / .1''471. / .<7=4.'?'1'
K.75.'E,1 / 45.NW' .' 1, ' .@' / <.1'%Y ' 6 =4'<>' 5'
6.'?.1 / .771' 7> .@?1 / .1'4< 1.E46 E,1 / .P8 ; , / / .<7
?.47 ,< ;1, 1.' =4.' ; .77.' 6 / ?5.' >. ;5'1'7 ,< >4'1, '
6.1' 7?546 E,17.'=4.'5'' ; ,<67 747 ,<8 =4 ' 1.<7 =4 ''5''
71, 6 / .'5.J 65'741.' ' >. ;1.7>.- .<<.'5, Z 6'Q.'
<.' - , 6 ?'6 =4.' ,0Q. ;7 ,< E' 7.' ?'1'5.' ?1>, ? <'<7
?4 66.' 0'5'<; .1' < ; ,<-.< .<7> <71,>4 1.' >;6 > EM
E.1.<; .6 / '7.1 .55.6 >'<6 5.6 5, 68
' N ,46 ' -.@'- ,4 77=4.'5.6 ?,4-, 16
E466.<7 <>. ?.<>'<768 .7 ; .67 ?,41' ; .5'' =4.' -,46
'-.0 >,<<.' '4'1, '5.'>1, 7>.'646?.,>1.' .@>;47 ,<
5.6 ';7.6 >4 ; ,1?6 5.J 65'7 E% ''1<> / .' <>>?.<>'<; .'
>, 7 >71.'>,<<.' '4 ?,4-, 1'5.J 65'7 E8 .7 ?,41' ; .5''
'E'47=4.'5.' ; ,1?6 5.J 65'7 E ?4 66.'5 ; .< ; .1'5.6 ; ,1?6
/ 5 7' 1.6 6'<6 =4 58 6, 5 0.6, < >.' 6'<;7 ,<G & <
< 41 / 41.%P
'<66 '11>7.1' '4@' ' / .<>. / .<76 >.' % . [0.55
;7K1,67'1.781 66. / 05>.>>;1 I7.64; ; .6] 1.< ;<77,46
5.6 '17 ;5.6 >.' ''6. ;7 ,<'55 ' ' <6 '=4 56 6< 1.<7N

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K'# .+'(2-3 (,'$
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, 2+ $*(.+' = 7
& ' (' . $(',' ,(* ' - (24.$ (.'' *'3 *'(,,((,' ' ' *'
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4 .,+*,' -,+) $''((*,' '3 *,$ *+$ ' -%$## 4-,'' + 3 *(' -,'!'
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' ,' (' ' *,'*-+* $*'' ' (,'' ' +' '+*3,$ *' 3'' +3,(''
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,$#'-' +' .('4 *'+)$$$, -' -('' $*$' ,.('/(,' *'' --3.(,'' 4 .,+*,'
5* $' 8 +' $(/+' +33 '+,$ *' ' /
.6 .4E'?1. / .1%6 '17 ;5.6 >.' 5'' ! ' D6.<7
'>, ?76 6'<6 > 6;466 ,< .< ; .6 7.1 / .6I

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' ' '(& F !' ' '

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QBBB' @ $,+$*(' + ' $*''+0+ ,' +'#$*' -(3)+5 ' '(''$ */ '
3 .4'' -9$' +,$# (*0 $(' + ' . $ *(' -(4 ,+,$ */ 4 .' $'+*!'
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+,$# (',' ,(* ' -(' -($)-.(.
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$ 4+.+,,.+' (2$9(./+$'$'5 (' -+*'' 3'' 3+''5 (' (' ('3 .4'' -1
9$' +,$#+ .+'4.-0 ''(,' -(,(. $*('/ +0 *,'-(' + .*($7
Q ' ,('' ('%# $'' 5 (' (. $'(' .(*-.+' + ' $ ' -(''
'-+*3('' - '3 .4'' -9$' +,$#/ $' '(.+' .33 (,' .((*- $,' <,+.'
*(' -(4 ,+,$ *7 $' *('4 ..+' -,.(' +33 4 9 -' -+ ' %$*,'
.$(.' -(' +' '+ ('5 ('4+.' ('' $*$',.('
Q B ! +*'' + 3 *3+'' (4.-'$-(*,*(4- ..+#+$.34+., ('
- *(' --4 $+ $ *' %
Q ' ('3 .4''-9' +,$#3(''(.+' -D-,.('3 .4'' --)-.+*,'
,+ ,'5 ((. $'(.+'4.-'(,
Q ! (''+3,('' -(' +'3 ..('4 *-+*3(' - '. $'+0((('3 .4'
-9$' +,$#'(. *,/, .'' 3 *,.(!'$9*-''4+.' *' :
8 : ,41.5'E' 7 5. ;741.'>.' '17 ;5.' ''' ' <6 ' ; ,KE,'
Q ('' $*$',.('' - ' . $'+ . *,'(*,.-(' -+*'' ''( ) --'*+!'
,$-*+ (' -9$' +$0(7 $ ''8 + . *,' *('4 +3(' +.5 ((7 f '(1
. *,'(*,(*- '' ' ' ' '' ('') (,'' ' ('5 (''BBf -(+4!'
-(. *,' ' - .(/ (,' ,('' (''# $'' 5 %$'' '(. *,' .(5 '' - ' !
- **(.' -(''-3$+$.3$''((*,''!
% / & ' N .' 1.J'1;5.' ; .77.' > 6?, 6 7 ,<
; , / / .'>. <'7 1'<7 5.'?1 <; ?'5 '17 ;5.'>.' -,71.'#,<M
67 747 ,<% '<6 5.6 ?1 <; ?. 6 >.'5'' ; ,<67 747 ,< , '
5''6.?'1'7 ,<>.6 ?,4-, 16 f ,1' '17 ;5.'= ' 46 .67'
?1. 6.<7.'7.<> 2'5.6 ; ,<E,<>1.' .< =4.5=4.' % C f
5'>,<<.' '4@' / < 671.6 <,< 6.45. / .<7 5.'>1, 7> '6 '
6 67.1' '4@'>.5 0.1'7 ,<6 >4' ; ,1?6 >J 65'7 E8 / '76 ;'
>1, 7>.'?'15.1'641'7046 5.6 ,0Q.76 6,4 / 6 ''5''> 6;46M
6 ,<% =8 ' ' # .' < .67 ?'6 ; .5'%P
'V .67 &5 7 =4 56 6.1,<7 .<7.<>4 '641'7,4%6 5.6 ,0M
Q.76 641'5.%6=4.56 56 >. / '<>.1,<7 '' >71. I >,<.' 56
?.4-.<7 ,? <.1I'5''6.45.' > EE.1.<;.'=4 5 V '41''.<'
71.'5.6 / . / 01.6 >.' 66. / 05. .'<'7 ,<'5.8 ; .65 =4.' %
; .'=4.' / . / 01.' '41''>1, 7>.'E' 1.' ; , / ?7.1'6'' , ''8
'4' 5 .4 =4.'5.6 / < 671.6 '41,<7 5.'>1, 7 6.45. / .<7 %
>.'>,<<.1'5.41' '- 6 .5'>.'> 6;47.1% 1'=4.5 .67' < '
7.1>7>.6 / < 671.6Z 5'< .65?'6 =4.'5.416 -, @'6? .<7
; , / ?7..68 ; '1' 4<.' ,4'>.4@ -, @'>;' ?546 < ,?7?'6
0.'4; ,4?> .EE.7I / ' 6 56 ,<7 <7>1E 5'' <E54.<,.1'5.6
>.5 0.1'7 ,<6I .7 ; .67 6,46..' <7>.%-4.'=4.'Q.'> 6
%=4.' '15 .5.' .67 ; ,<71' 1.' 7 .6?1 7>.'5'' ; ,<67 74M
7 ,<% #.' < .67 ?'6 4<.' ?.7 7.' ; .6.'=4.'> <51,>< 1.8
>'<6 5.' ; ,1?6 5.J 65'7 E 4< : , / / .'=41' 7 1 QE54.<;.'
>.' 6.6 / ,V.<6 .7 >.' 6,< 5,=4.<;.' 'Q,47.1' 7 ; .55.'
><'J1'<>' ; '1'.701.'>,<7 5 6.1' 7 1.->74% ,16=4.'5.6
/ < 671.6 ?,411,<7 > 1 J.1'5.6 >>5 0>1'7 ,< 8 ;1' '
J<.0 =4 ,<<.'5.6-, .'6'<6 ; .66.'<,< 6.45. / .<7 '5 '
7.1.1'5'' ?41.7.'>4' ; ,1?6'5.J 65'7 E8 / ' 6 -.< 1' ; ,< '
6, / / .1' >'<6 66.1'05. .' 5.' 64; ; .6 >.6 / .6 1.6
=4 56 '41,<7 ?1 6.6 '4 >. : ,16% '17 ;5.' 7.<>' >- '
>. < / .<7 '' ; ,<E,<>1.' 5.' ?,<-, 1' .@>;47 E8 <,< ?'6
'-..' 5.'?,4-, 1' >J 65'7 E .< ; .'=4 5 >,4 .'5.'>1, 7
>.'?,4-, 1'E' 1.' ; , / ?7.1'6''-, @8 / ' 6 '-..'5.'?,4 N
-, 1'5.J 65'7 E .< ; .'=4 5 ; ,<EE.1.' '4@ / . 01.6 =4 '
;< 6,<7 1.->746 5.' >1, 7>.'> 1 J.1'5.6 >>5 0>1'7 , 6
.7 > ;@.1; .1' 4<.' <E54.<;.' > 1.;7.' 641'5'' E,1 / '7 ,<
>.'5''5, % .'>. / '<>.'5''=4.67 ,< ?1>'7'05.8
' N .' / > .-.' '466' ; ,<51.'5''71, ?'J1'<>.'
5'7 74>.8 ;'71, ?'J1'<>' ?,4-, 1'>,<<>' ' @ / < 671.6
?'1' ; .6 .@?1.66 ,<6N $ .1,<7 .<7.<>46 641'7,46 E.6 8
,0Q.76 641'5.6=4.56 56 >. / '<>.1,<7 '' d>71.%Y # .67
5.41'>,<<.1'<<.' -, @ ; ,<6457'7 -.' .<7 >1.I' ; .67 5.6

[illegible]

[illegible]

[illegible]

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"

ʿ /.++ ʿ , . -%8 , .

8 ʿ F ʿ ʿ &

ʿ ʿ ʿ #ʿ ʿ ʿ ʿ %

) ʿ B'N .'64??,6.ʿ= .ʿ5.ʿ; ,1?6 J 65'7 E' 7 ; , / ?,6.8 4<.ʿ5, ʿ 71.6 0 ,<<.I' / ' 6 =4 .55.ʿ 1.< ʿ E;1 / .ʿ4< '17 ;5.ʿ_.ʿ>>7' 7 / ?,66 05.ʿ>'<6 6,< .@.;4M 7 ,<8 6'1,46 1;E 6.0 5''?'1,5.ʿ'4@ / < 671.6= ʿ-,46 '41' ;<7 E' 7 '?.1;.-, 1 5.ʿ>>E'47 8 =4 '11 -.1' 7 5Z ʿ ʿ6.1'' '??5 =4> '' <,71;ʿ5, % & < / 41 / <1.ʿ>'<6 1.@71 / 7>ʿ>.ʿ5'' ?'17 .ʿ J' ;5 ;%P 34.5 ;67 >,<.ʿ;.ʿ >1, 7 6ʿ?1>; .4@ >.ʿ1.E46.1 5'' ?'1,5.8 ''; .54 ʿ=4 ʿ .65 7.<. / .<7 5 > 4 .@.;47 ,4 >.ʿ5'' 5, 8 =4 5 .67 >.ʿ5'' >11< .1.ʿ / ?,17'<;.ʿ>.ʿ .<7.<>1.ʿZ ʿ ;67 <. ;.66' 1.ʿ =4.ʿ5.ʿ?,4-, 1 .@>;<7 E E'66.ʿ?.< > 46'J.ʿ>4 ʿ =7.ʿ5.ʿ> 66.<7 / .<7 >;6 >.4@ ?,4-, 16 6, 7 5.ʿ?546 1'1.ʿ?,66 05.% 34 ,4 <.ʿ> 6.ʿ?'6 =4 5 .< 1>6457.1'' 4<.ʿ>'<J.1.46.ʿ 4 7 '7 -.% .<6.0 -,46 =4 4< / ʿ < 671.ʿ<.ʿ71,4-.1'' ?'6 7,4Q,416 5.ʿ / ,V.< >.ʿE' 1;ʿ ><,<;.1 6,< ,? < ,<'' 66. / 05..ʿ<'7 ,<'5.8 6 5 <.ʿ ?.47 .<,<;.1 54 / > / .Z

ʿ ,16=4.ʿ % 1'0.'4 E 7 '' 66. / 05. .ʿ5'' ?1,?,M 6 7 ,< >.>,<<.1'<@ / < 671.6 , @>.5 0.1'7 -.ʿ>'<6 66. / 0 . ;8 .7 =4.ʿ / > / .ʿ5 -,45' 7?.47 >71.ʿ=4.ʿ5.6 / . / 01.6 >.ʿ 66. / 05..ʿ?466.<7 .71.ʿ / 4 671.68 ,< ʿ;,<;.17' 5 >'<6 5.ʿ;'0 <.7 >.ʿ % '1; :.->=4.ʿ>.ʿ K,1>.'4@8 ?,41 E' 1;ʿ?1,?,6.1 ʿ 66. / 05. .ʿ=4 '4 ʿ ;4< >.6;6 / . / 01.6 <.ʿ?47>71.ʿ / < 671.ʿ=4.ʿ=4'51.ʿ '<6 '?1.6 5'' E < >.ʿ5'' 6.66 ,<8 ;7 4< / 0 / 01.ʿ>.ʿ 6 ʿ 6. / 05.;6.; :'1J.''>.E' 1.ʿ5'' / ,7 ,<%

0 ʿ # 'N #.5'' .67 E'4@% ʿ< V ''=4.ʿ5.6 ?.1 ʿ 6, 7 ;6 =4 ʿ ,<7 7,4Q,416 '-.ʿc.6 / < 671.68 =4 ʿ?4 6 ʿ 6.<7 E' 1.ʿ >.ʿ ?'1> 55.68 ';;46'7 ,<6% & < '??5'4> 7 >'<6 ;@71> / 7.ʿ>.ʿ5'' ?'17 .ʿJ'4; :.%P

G ʿ; 'N '??.5.0 -,46 =4.8 5''6. / ' 4.ʿ>.1 ʿ < .1.8 . .67 .<;,1.ʿ % K.'4 / .70 =4 ʿ'Q.7>ʿ>'<65 6 ʿ 6. / 05>;ʿ5.6 ?1. / .1.6 6. / .<;.6 >.ʿ5''> 6;,1>.% & .6 '??5'4> 66. / .<76 1.;, / / .<;.<7%P

ʿ B ʿ .ʿ< ' ʿ ?'6 ?1.7.<>4 ?'1 5'' ; 7;1 < 5 .@. / ?5.ʿ>.ʿ; ,<< -.<;.ʿ; ,4?'05.ʿ'-.ʿ5.6 / < 6M 71.68 / ' 6 6 / ? , / .<7 ?1,4-.1 =4 5 -'5' 7 / .4@ 5.41 ?.1 / .771.ʿ> .<,<;.1 5. 1 ,? < ,< >'<6 66. / ʿ 05>.8 =4.ʿ>.ʿ5.6 1.>4 1;ʿ '' ; .6 / ,V.<6> 1 71 J4.% .ʿ >. / '<>.5'' =4.67 ,< ?1. '5'05.ʿ641 5'' ?1,?,6 7 ,< >.ʿ % #' / 46%

9 ʿ . 'N 34 / ?,17.8 -,46' 7 ,<> 78 =4.ʿ-,46 .<7.<> .0 5.6 / < 671.6 >'<6 ;.77.ʿ 66. / 05. .8 ?4 6 ʿ %=4.8 1.7 1>6 >'<6 5.ʿ; ;6. 58 56 ?,411,<7 '??,6.1 5.ʿ ʿ641-,6>>;1.76Z < '41' 7>4 > 1.ʿ=4 5 -'4>1' 7 / .4@ ;41 '0'<>,<<.1 5'' ;,<E.;7 ,< >.ʿ5'' 5, ʿ7,47 ʿ.<7 1.% K. / '1=4.08Q.ʿ-,46 ?1 .8 =4.55.ʿ?1,> J ;46;ʿ <E54.<;.ʿ'41' 7 >'<6 5.ʿ; ,1?6 5.J 65'7 E 4< / < 671.ʿ =4 8 6 ʿ ,< < '>,?7' 7 ?'6 6,< ,? < ,<8 ?,411' 7 '? ʿ ʿ?,6.1 5.ʿ ʿ641 4<.ʿ,? < ,< ;,<71' 1;%

ʿE'47 '??; .1 .6 / < 671.6 7,47.6 5.6 E, 6 =4 ,<5.ʿ Q4J.1'' ''?1,?,6% ʿE'47 5.6 '-, 1 5'8 ?,41 E.6 E,1; .1 ''6 .@?5 =4.1I .<;,1.ʿ6' 7 ,< =4.ʿ; .77.ʿ> 6?,6 7 ,< .67 =4.5=4.E, 6 5546, 1.I;'1 4< / < 671.ʿ-,46 1.?,<>1'8 ;, / <.ʿ.< ,J5.7.11.N .ʿ6.;1.7>.ʿ 7'7 / . / ?>ʿ ;:.ʿ>.ʿ-,46>,<<.1 4<.ʿ .@?5 ; '7 ,<% ,V.0 ;.17' EE6 =4.8 5,16=4 ʿ 6.1'' <. ;.66' 1.% =4,ʿ5.6 / < 671.6 ?' ʿ 1' 66.<7 '' 66. / 05. .8 5.6 5.J 65'741.6 <.ʿ6.1,<7?'6 '66.0 <6,4; '<7.6 ?,41 <;ʿ ʿ 5.6 V / '<>.1% < >.1< .1.ʿ'<'5V6.85.41?1; 6.<;. .670,<<.ʿ=4.ʿ?,41 5'' ; ,114?7 ,<% .ʿ >. / '<>.ʿ= 56 6, .<7 .<7.<>46 7,47.6 5.6 E, ʿ=4.ʿ5.ʿ; ,1?6 5.J 65'7 E 5.6 '??.55.1'% & < '??5'4> 7 >'<6 .@71> / 7.ʿ>.ʿ5'' ?'17 .ʿJ'4; :.%P

E% 'N ''=4.67 ,< =4 ʿ-,46.67 6,4 < 6.ʿ.67 > 4<;ʿ7.55.ʿ.- >.<;.ʿ=4 .55.ʿ< ''0.6, < =4.ʿ> >51.ʿ?1.M 6.<7. .ʿ6,46 6,< ->1 7'05.ʿ?, <7 >.ʿ-4.?,41 =4 5 4 V

' 7 ?'6 < ʿ ->1 5% 05;ʿ' / ʿ7 .ʿ5'5 0.17>=<ʿ<; '>,?5.% & < / 41 / 41.%P > ; 8 6.5,< / , 8 .7'7 >;ʿ5'' =4.6M 7 ,< N ,<<.1' 7 ,< >.ʿ <E54.<;.?,41 5'' ; ,<E.;7 ,< >.ʿ5''5, ʿ8 ,4 '' ,? < ,<?405 =4.8 ,4 ''5'' ; ,114?7 ,<8 .4 '4 Q4J. / .<7 >.ʿ7,<68 ,4 ʿ 471 J4.Z 34.5=4.6 / . / 01.6 ,47 >. / '<>> =4.ʿ5.6 / < 671.6 <.ʿ?466.<7 71.ʿ'> / 6=4.ʿ=4'<> 56 6.1,<7'??.5>6% ʿ .67 <> 6M ?.<6'05.ʿ=4 56 6, .<7 ;'0 74.55. / .<7 >'<6 66. / ʿ 05. .8 6, 7 ?,41 1.?,<>1.ʿ'4@> -.16.6 <7.1?.55'7 ,<68 6, 7 ?,41 V E' 1.ʿ?'17 >.ʿ5.416 54 / 1.6% # .67 ?'1 1'06. ;.ʿ>.6 / < 671.6 =4.ʿ5.6>><,<; '7 ,<6 -'J4.6 ,<7?1 6 >.ʿ5'' ; ,<6 67'<;.ʿ>'<6 ,? < ,<I .7 ; .67 ?'1 5'' '466 ʿ=4 4< / < 671.ʿ>.ʿ / '4-' 6.ʿE, ʿ?.47%>54>.1 4<.ʿ ';;46'7 ,< E,<>..% P ʿ E'47 5.6 ?1.<>1.ʿ 641 5.ʿ 7. / ?68 5.41 > 1.ʿ1 ,41=4, ʿ'-.0 -,46 E' 7 ; ; 'Z ,<1=4, ʿ< '-;0 -,46?'6 E' 7;.5'Z

4 ; , / / .ʿ>.ʿ0,<<.ʿE, ʿ-.47 >71.ʿ <7.1?.55>ʿ>; ʿ -'<5 7,47 5.ʿ / ,<>.ʿ .7 >,<6 7,47.6 5.6; 1; ,<67'<;.6 <> 67 4;7. / .<7% < ; , / / .ʿ>.ʿ/ '4-' 6.ʿE, 8 '4 ; ,< ʿ 71' 1.8 ''0.6, < >.ʿ; ,<;.17.1 6.6 1.?,<6.6 >'<6 6,< ;'0 <.7% ʿ< .67 ?'6 / , <6<.;.66' 1.ʿ=4 4< / < 671.ʿ ?4 66.><,<;.16,4 ,? < ,< 641>.6 <;,<-><.<76 =4.ʿ ?. -.<7 ,EE1 1 5.6 >>7' 56 > 44.5, I 6'<6; ;5'8; , / / .ʿ ,< -,46 '' > 78 ;46 -,46.@?,6.0'< 5 -,46 / .7 ʿ 7.0.<'1 -'5 7>?.1?>74.55.5.ʿ; ,1?6 5.J 65'7 E .7 5.ʿ1, 8 .7 4<>.ʿ;.6 >.4@ ?,4-, 16 E 1''?'1 '<>'<7 1 '4 ʿ 71.% '4< / < 671.ʿ<,%?.47 6 .@?5 =4.1 '4 J1'<>Q,418 5 <.ʿ?.47,??,6.1 =4.ʿ <71 J4.ʿ.7 5'' ; ,114?7 ,< '' 7,47.6 5.6 / .<>.6=4.ʿ ,< . / ?5, .1''?,41 5.ʿ; :'66;1 >.ʿ6''?5';.% < '' > 7 Q Q4.ʿ5'' ?1>6.<;.ʿ>.6 / < 671.6 '-' 5 <71,>4 7 5'' ; ,114?7 ,<>'<6 5.ʿ?'15. / .<7> 4 *5.7.11.% < J<,1.ʿ?1,E,<>. / .<7; .ʿ=4 ʿ6.ʿ?'66.ʿ.< <J5.7.11.% '' 'Q,1 7>ʿ>4 ?'15. / .<7 V .<71.ʿ7, 7.ʿ ;,11, / ?4.% ʿ'' / . / .ʿ.@ 67>ʿ>.6 =4.67 ,<6 / .>7..6 .7 ;,<;.17..6 >'-'<;.8 , 5 5.ʿ / < 671.ʿ,? < ' 7 > 5 / ;ʿ E'3,<8 7'<> 6 =4.ʿ6,< ?'17 ʿ,? < ' 7 >.ʿ '471.% ;ʿ>.M / '<>.ʿ=4 ,< ' >.ʿ '' -, @ 641 '-6 >.6 ; , / 7>6%

ʿ4 ʿ *ʿ ʿ '?1>6 ;.ʿ=4 ʿ '' >7ʿ> 7 ?'1 5.6 > -.16 ,? < '<768 -, > 8 Q.ʿ?.<6.8 4<.ʿ1.>';7 ,< =4 ʿ6'7 6E.1'' 7,47.ʿ1 66. / 05>.N W .6 / < 671.6 >4 1, ʿ'41,<7 .<71..ʿ'' '66. / 05..ʿ5.J 65'7 -.I 56 '41,<7 4<.ʿ?5';.ʿ / '1=4..I 56 6.1,<7 .<7.<>46 7,47.6 5.6 E, 6=4 56 c.ʿ>. / '<>.1,<7 641 5.6 ,0Q.76 1.5'7 E6 '' 5.41 '> / < 671'7 ,<8 ,4 5,16=4 56 6.1,<7 1.=4 6 >.ʿ >,<<.1 >.6>;5' ; 66.Q<;<76% 56 6.1,<7.J'5.< .<7 .<M 7.<>46 641 5.6 ,0Q.76. 71'<J.16 ''5.41 '> / < 671'7 ,< 7,47.6 5.6 E, 6 =4.ʿ5.ʿ; ,1?6 5.J 65'7 E 5.41 ';; ,1>.1'' 5'' ?'1,5.% Y

ʿ 'N '>,?7.ʿ;.77.ʿ1.>';7 ,<%
''?1 ,1 7V .67 '; ;,1>.>ʿ''5'' / ,7 ,< >.ʿ % # :'15.6 ' / .7:%
.@71> / 7>ʿ>.ʿ5'' ?'17 .ʿJ'4; :.ʿ>. / '<>.ʿ5''=4.6M 7 ,< ?1.'5'05.8 7'<7641 ; .77.ʿ1.>';7 ,< =4.ʿ641 ; .>.ʿ >.6 ;, / 7>6%
'' =4.67 ,< ?1>'5'05.ʿ;67 1.Q.7>.%
'17 ;7.ʿ?1,?,6.ʿ ?'1 % # :'15.6 ' / .70 .67 >> ;1.7>%%
''6>'<;.ʿ.67 5.->> 51, 6 :.41.6%

! ʿ ʿ =<ʿ #

ʿ ʿ ʿ ʿ ʿ ʿ ʿ F

% .6 / .4< .16G E' 6'<7 5.6 E,<;5 ,<6 >;ʿ1'??,1M 7.418 ?1>6.<7.ʿ''5'' >>5 0>1'7 ,< 5.ʿ ; :'? 71.ʿ 8 1.ʿ 5'7 E'' '0 ʿ ʿ ! ʿ ,46 5.6 '17 M ;5.6>.ʿ;.ʿ; :'? 71.6,<764; ; .66 -. / .<7>.;1.7.6' <6 ʿ =4 56 64 -.<7N

@ ʿ /

Z ʿG ʿ ʿ ʿ !

W 17% 5.1% .ʿ?,4-, 1 .@>;47 E 64?1. / .ʿ1.6 >.ʿ.@ ʿ ;546 -; / .<7>'<65'' / ' < >4 1, % ʿ
W 1 1, ʿ;67 5.ʿ; :.E 64?1> / .ʿ >.ʿ '>' < 675 71,<

/

J a '5.'>41,V'4 / .N5.6, <'>.'-. 5 . d'5' / ' 7. '
>.' ,1>1. .7>.'5"71'<=4 55 7.?5 05 =4.'54 '.67 ;,35>%
$.'1, '.67 5.' ; : .E64?1. / .'>.' '1 <>.'>.'7.11.' .7
; &d '1< >.'<'-'5.%
W 4 1, ' .67 >.5. J4.'7.'6, <'>.' . 55.1 ' 5"' 6E E.7>'
.@7> .41.'>4 1,V'4 / .8 > .:'7<'5<7.< 1 5. `>1, 7 '.7
5.6 ?,66.66 ,<6%
W % .'1, '<, / 7<.' .6 ' / 0'66'>. 1 ' '7." '45E."
'J.<76 >.6 <>J, ; '7 ,<6 ?,5 7 =4.6%
' ' ' ; ,<E.1.' 5.' ; , / / '<>. / .<7 >.6 '1 Q >. 'E;E ' . I
E5,75. E .7 5.6 J1'>.6 >.' / '1. ; : '7 >.' H1'<; .' .7 > ' '
/ 1'5%8 8 8 %
W E <, / <.'5.6 >.4@'7 .16 >.6 ; ,7 71. > / 1'4 8 >
/ 4 7 .' >.6 5 .47.<'<76 J.<.1'4@8 / '1. ; : '4@ >.'
; ' / ?8 ; '? 7' <.6 >.'-' 66. '4@8 .7 # ,5,<.56 >.'5" J.<M
>'1 / .1 .'<'7 ,1 '5.%
$ '<, / / .'5.'7 .16 >.6 ; ,5,<.56 .7 >.6 5 .47.<'7 76 '
;45,<. 68 .7 5.'6 @ . / .'>.6 5 .47.<'<76 >.' ' 66. '4@N
;'7,47 .< 6.' ; ,<E, a7<'<7 '4@ 5,56 641 H'V'<; . / .<7%
\ '<, / / .8 >'<6 '>/ < 671'7 ,< ; - 5.'>.'5" / 'M
1 <.8 5.6 ,1>, B<'7.41 '5.6 ; ,<71 5.4168 5.6 71.6,1 .16
>.6 '16.<' @8 c.6 ; : .E6 >.6 71'-'4@8 6,46 ; : .E6 >. '
0>7 / .<76 ; - 567 5" / , 7 .'>.6 ; : .E6 > '>/ 671' '
7 ,< .7 >.6 6,46 ; : .E6 >.' ; ,<6714 ;7 ,<%888
Y '<, / / .'5.6 ; , / / 66' 1.6 ' ?1.6 %>.6 71 04
<'4@ ' % %
$ 5 '<, / / .'5.6 # , / / 66' 1.6 >.' 5" 7E# ,E#1 .'E ' '
7 ,<'5.8 .7 5.6 ?1,?,6.6 .< ; : .E'"5"1. J .'>.6 # ,<71 M
047 ,<6 <> 1. ;7.6%%
$ 5 ' 41-. 55.' 5" E'01 ; '7 ,< >.6 / 7 : ' .68 .7
<, / / .'5.6 ,EE ; .16 ; : '1J.6 > .@.1; .1 ; .77.'641-. 5M
5'<; .'>'<6 5" ; , / / 66 ,< J%><.1' .'.7 >'<6 5.6) ! $,'
>.6 / ,<<' .6%
W .EE J .'>4 1, ' .67 . / ?1. <7.' 641 7,47.6 5.6
/ ,<<' .6 >7'1,V'4 / .%
' % .'1, 'E' 7 >.5 -1.1 5. ' .751.6 ?'7.<7. Q).(1
-.76 .7 ; , / / 66 ,<6 '4@ E,<;7 , / ' 1.6 ?405 ;6 , '
'471.6 =4 '>, -.<7 .< 1. ; .- , 1% 8
W % .' 1, '5' 7 >1. .1 5" 5 67.'>. ' 0.#6 , :6 .7
J1'7 ; '7 ,<68 ?,41 .71.'?1>6.<7.?'4 ; ,1?6 5. J 65'7 E
=4 '>. ;1.7.'" ;<' ;4<.'>.'] .6 6.66 ,<6%Y

6.> 7

.' ! &4 ' '

Y 17%5.1% #?,4-, 1 .@>;47 E #67 .0'1J>'>.'E'Q1.'
6; .55.1 5.6 5, 6 >4 6; . '4 >.' 7'78 .7%>.' 5.6 E' 1.'
?1, / 45J4.1% ' % 8 % 8
$ % ' 6.1" E' 7 >.4@ .@?.> 7 ,<6 ,1 J <'7.6 >.'
; : '=4.'5, 87,47.6 >.4@ 6 J<. .6 >4 1, %; ,<71. 6 J<>.6
?'1 5.' / 7 671.'>.'5"Q467 ; .P .7 6; .55. .6 >4 6; . '4 >.'
5'7%
' 4<.'1.67.1">#?,6#.' 4@ '1; : -.6 > '6; .' 8 .7
'471.' 6.1"1. / 6.' '4@ '1; : -.6 >4 ; ,1?6 5. J 65'7 E%
$ % " ?1, / 45J'7 ,<'>.6 5, 6 6.1"' <6 ' . , < <.N
W % = ' ' ' E ?'1 5" J1 ; .'>.' .48 .7 ?'1
$ 5" 5, ' ; ,<67 747 ,<<.55.'>7 7,78 1, '>.6 H1'<Q' 68
W "7,<6 ?1.6.<76 .7 " - .< 18 6'547% 66. / 05. .'<' '
W 7 ,<'5.'">#;7#7#8 .7 <, 46 - 5, 6 .7 ,1>,<<,<6 ; .
$ =4 '64 7N
& " ; , ? .'5 77.1'5.'>4 >#;1.7 .1 ' 5 E#.'6' :6 '4 '
. < . : '<J. / .<7%P
W ' >0<6 .7 ,1>,<<,<6 ' 7, 56 5.6 ; ,1?6 '>/ '
"< 671'7 E68 / 54 ; ?'5 7.6 .7 71 04<'4"P =4.'5.6 ?1>
$ 6.757. ' 56 / 66.<7 <6;1 1;' 641 5.416 1. J 671.68 5 1.8
$?405 .1 .7 'E7 ; : .1 >'<6 5.416 >#?'17. / .<76 .7 1.6
$ 6,176 1.6?. ;7 E68 .7 .@#;47.1 # , / / .'5, '>4 1,V'4 '
W / .N .< E,'>.'=4, '<, 46 ' - ,<66 J<.' ; .6 ?1. 6.<7.68
W '4@= .55.6 : ,4 ' E6 E' 7 '??,6.1 5.' 6; . '4 >.'
W5 5'7%8Y 8 Q
W % '5.'1, ' .67 / <.418 5.6 5, 68 ?1, ;5' / '7 ,<6
.7 '471.6 ' ;7.6 . / '<.6 >.' H'47,1 7>'1,V'7.'?.<>'<7
5" 1#J.<; .'6.1,<7; ,<J46 ' <6 '=4 5 64 7N

'$ % 6 ' ' ' E. J.1 7 >4 1,V'4 / .8 '4
W <, / '>.' 8 6 ' ' '1, P ?'1 5" J1 ; .'>.' ;<8
$ .7?'1 5" 5, ' ! <67 747 ,<<.55.'>.' H 7'7P , >.6
W HE'<J 68 .7; % .7; % .7 ; %Y
W % # ?,4-, 1 .@. ; %7 E .67 7.< ' > .<- V.1 5.6
5, 6 '4@ ; ,1?6 '>/ < 671'7 16 .7 '4@ 71 04 '4@8 >.6.'
E' 1.' ; .17 E .1 ; .7 .<-, ' .7 > . 'Q467 E .1 '4 ; ,1?6 >'
J 67'7 E%
> '3 '(! 4! ' -& * '('*% '% $,$! ,'
& (4 ,! * , % , $ & ,'(! $% % ! ,'
! *! ,'% -'$! ,'(! ' ' *& !) ! ' ' %((#
$ ' - ! $ 0

' ' E%

E '! '

' 176 ' '" >'<6 ; : '=< .'>. <''7. / .<7 4<.''>M
/ < 671'7 ,< 64?. 1 .4 \ .8 .7 >'<6 ; : '=4.'> 671 ;7 <<.'
'>/ 7 671'7 ,< 67 0,1>,<<>.%
% (" '>/ < 6 1'7.416 : ,<7 '4.4 ' ; '1'.7#1.' >.'
1.?1.6.<7'7 ,<%
Y55"6, 7 >. ' 'J.< " 54 '"7. / ?6 ?'1 '5.'?.4?5.8
4 .' .@.1; .18 6,46 5" 641-. 55'<; .' .7 '47,1 >'>4
1, 8 5.6E,<;7 ,<6 '> < < 671'7 - .6%
W %556 '<; ?.4-.<7 6 7< / 6; .1 >'7 6 .@;1; ; .'>4
?,4-, 1 5. J 65' EQ 646?.E >1.' H.@. ;47 ,<'>.6 5, 68 <'
B.75 . :71.?1. : >1.' 641 H,1>1.'Q4> ; ' 1.' <'641 5. '
> 6?,6 7 ,<6 ' , ?.1'7 ,<6 / 5 7' 1.6% ' ; 7;1 >.-< 7
.<@ 5.6 Q4J.6 ,< 5.6 / 5 7' 1.6 ?,41 1' 6,< >.' 5.416
E,<;7 ,<6I
Y % ' '??%17 . : E '4 ?,4-, 1 5. J 65'7 E >.'>.7.1 G
/ <.1 H.7. >4.' .7 5. '1#J5.6 >.' 5.416 E,<;7 ,<6%
W % .' 1, '"5.'>1, 7 > '<<45.1 5.6 ' ;7.6 >.6 '>'
/ < 671'7.>1 '>.'>.?'17. / .<7 ; ,<71' 1.6 '4@ 5, 6 .7
' "' ,1>1.6 =4 1 .41 '41" '>1.66>6%
'?. '78 >' : 6 5.' ; '6 > 4<.'>.6,0 6'77; .' ?.16#-#G'
1 <7.8 ,< 6 56 ; , / ?1, / .77.<7 ?'1 5.416 ' ;7.6 5" 6>G
1.7.' '5" 71' : =4 5 7> ?40 =4.'] 5.6 6?.<>1.'>.'
5.416 E, : ;5 ,<6%
$ % .6 '>/ < 6 1'7.416 >.' >>?'17. / .<7 ,<7 >.'
1<> / .'5.'>1, 7 > '<<45.1 5.6 ' ;7.6 >.6 6,46 '>/ < 6 '
71'7.416 >.'> 671 ;78 # ,<71' 1.6 '4@ 5, 6 ,4 '4@ '1 '
1 7.6 >.6 '>/ 7 5671'7. 16 >.'>.?'17. / .<78 , 5 '4@
1>1.6 =4.' ; . >.1< .1 '5. 1'41,<7 >,<< 6 , '71'<6 '
/ 6%
$ 5 '?.4-.<7 J'5.77 .<78 >'<6 5. ; ' ' > 4<.> 6 '
90. 66% <; .?.16>-.1' 5.>.6 , G'>/ < 671'7.<168,4
6 ' ; .6 >.1< .16 ; , / ?1, / .77.<7 ?'1 5.416 ' ;7.6 5"
1.7>,4 5" 71'<=4 55 7> ?40 =4.8 # '646?.<>1.'>.'
5.7 16 E,<;7 ,<68 "5" ; : '1J. '> .< 7 675 4 1.'5.'1, '= '
?,411"5. - .1 ,4 ; ,<E 1 / .1 5" 646?.<6 ,<%
$% T % .1, '?.<78 5,16=4.' 5.6 '>/ < 6 1'7.416 >.'
>>?'15. / . 7 < '41, 5 ?'6 46> >75 ?,4-, 1 =4 '5.41
.67 >.5. J4.'>'<6 H'17 ;5.'> >.66<68 '<<< .1 >1. ; '
7. / .<7 5.6' ; 5.6 >.6 6, 6 '>/ < 671'7.416 .7 5.6 646M
?.<>1.'>'<6 5.6 / > / .6 ; '6%
W ' ,47.6 $,# E, 6 ' $ ' ! ' '5 1> ?1,17,<; .'
! ' # ,<E51 / .'5" 646?.<6 ,< & ,' '>/ < 6 1'7.4168 ,4
! 4 '>/ < 671'7.41 8 5 . ' <6714 1" $ ' ; ,1?6 >'
J565'7 E%
T #. : # ' ?,411" , '5. .7 E" 646?.<6 ,<8 4 5'
<E 1' .18 ,< / > / .'> 6 4>1.'H'>/ 1 671'7 ,17 ; ,<'
'05.8 .78 6 5 V "5 .48 1.<-,V.1 7,<6 5.6 '>/ < 671' '
5.416 4 =4.5=4.6 4 6 > . 4@ '4@ 71 04<'4@ ;1 / '
7 .5 P '?,17.1 ; .<71.' .4@ 5.'>>,1;7 > ' ; ;46'7 ,<%$

>-(% ' ! ,(

' ' (

G 178 5.-% .'1, '6.47 ?.<7 .<71.7.< 1 >.6 1.5'7 , '
?,5 5 =4.6 '4 >. : ,168 ; ,<>4 1.'5.6 <.J, ; '7 ,<68 E' <
'.6 ?1>?' / 7 7 '>.' J4.11.'?1,? 17 ,<<>6 "' ; .<">.N
7'76 , 6 < 8 >5671 07 .15.6 E,5 # '>.'7.11.' .7 >.' / .1

' <6 ' =7 5 5.' Q4 J / ' ;>B- . >0 ;8 .7 .<1 J5.1 5 '' > M
1. ;7 ,< .< ; '6 >.' J4.11.%
W % ,45.' >. ;5'1'7 ,< >.' J4.11.' 6.1'' E' 7.' .< ; .6
7.1 / .6 ' ' ' ' ' $ ' '
$ ' ' 9% Y
W755% ' '??'175; :7 '4 E?5 > '11 7.E .7 >.' ' J<.E
'- . ;'7,4 .6 5.6 ?4 66'<; .6 >71'<J.1.6 7, 465.6 71' E>6
>.' ?' @8 > '55 '<; .' .7 >.' ; , / / .1; .8 .7 '471.6 ; , '
- .47 , :6=4 5Q4J.1'%<. ; .66' 1.6 '4 0 .< >.5 7'78
6'4E5'' 1'7 E ; '& , , '>4 ; ,1?6 5.J 65'7 E% \

$# 5 E7J %

' * ! E

W 17% WE% .' ?,4 , 1Q4> ; ' 1.'<.'?. 78 .< '4;4<
; '68 .71.' .@.1; .8 < ' ?'1 5.' ; ,1?6 5.J 65'7 E8 < ' ?'1 ;8
1, % Q
d 7% ''Q467 ; .' 6.1'' 1.<>4.' J1'74 7. / .<7 ?'1 >.6
Q J.6 . 46'7. / ?6?'1 5.?.4?5.8 <67 74>6 ?'1 5.771.6
?'7. 7.6 >4 1, 8 .7 =4 '<.'? 411,<7 .71.8 <'>.67 74> '
=4.' ?,41€,1E' 741.' >4. / .<7 4J. .8 <'646?.<>46 =4.'
?'1 4<.' ' ; ;46'7 ,< '> / 6.%
$ % .6 71 04<'4@ <.' ?.4- .<78 < ' 6G / / 6; .1
>'<6 .@.1; ; .' >4 ?,4- , 1 5.J 65'7 E8 ,4 646?. >1.'
.@.#7Q7 ,< >.67, 68 < . 71.?1.<>1.' 6415.6E,<;7 , 6
'> / < 671'7 -.68 ,4 ; 7.1 >.-'<7 .4@ 5.6 '> / < 671' '
7. 16 ?,41 1' 6,< >.' 5.416 E,<;7 ,<6% %A ' %
$ - ' .6;57,V.<6 <.' ?.4- .<7 >71.' >5671' 56>.6
Q4J.6 Q4.' 5'' 5, ' 5.41 '66 J<.' ?'1'4;4<.' ; , / / 6M
6 ,<8 < ' ?'1 > '471.6 '771 047 ,<6 .7 . - , ; '7 ,<6 =4.'
; .55.6 =4 '6,<7 >>7.1 / <. .6 ?'1 5.6 5, 6%
$ % .6 .@?.> 7 ,<6 .@. ;47, 1.6 >.6Q4J. / .<76
>.6 71 04<'4@ 6.1,<7 ; ,<; .6 ' <6 ' =4 5 64 7
W %= ' ' ' E ?'1 5'' J1 ; .' ' .' . 4 7 ?'1 5'
$5, %; ,<65 747 ,<<.55.' >.' 7'78 1, ' >.6 H1'<; ' 68 '
$7,46?1.6.<76 .7 4 - .< 18 6' <7% .'71 04<'1>.%%8%
$'1.<>4 5.Q4J. / .<764 -'<7N %

= ' G.1> ' ' V& E

W ' >,<6 .7 ,1>,<<,46 ' 7,<6 :4 66 .16 641 #>
Y1.=4 6 >.' / .77E.'5.> 7Q J. / .<7 7 .@. .47 4<I '<,6
$; ,< 7< 66' 1. ' '4?1 6 >.6 71 04<'4@ > V 7. 1 5'
$ / ' <8 .7 ''7,' ' ; , / / '<>'<76 .7 ,EE ; #16 >.'5''E,1; .
$?405 =4.8 >.' ?1>7.1 / ' < E,17.'5,16=4 56 .< 6.1,<7
$ 5.J'5. / .<E1.= 76I .< E, >.'=4, ' 5.' ?1.6.<7 Q4J. '
% Y / . 7 '' ;7.' 6; ;55.8 .7 6 J75> ?'1 5.' ?1.6 >.<7 7E4 1
% 04<'5 .7 ?'1 5.J1.E5 .1% $
W % ' V' 1'' << #4 ?546 .416 Q4J.6 >.' ?' @ >'<6
5.6 ; '<7,<6 .7 >'<6 5.6 - 55W% .'<, / 01.' .< 6.1'' >.M
7.1 / <.' ?'1 5.' ?,4- , 1 #J 65'7 E8Y
41 5'' ?1,?,6 7 ,< >.' ' #' / 468 66. / 05>.' >.M
; >.'=4.' 5.' >. ;1.7 ?,17'<7 =4.' 5''=4'5 7.' >.' ; 7,V.<
' ;5 E .67 <#; .66' 1.' '4@ E4<;7 ,<6 >4 / 5< 67;1.' 6.1''
<6>1> >'<6 H' ;7.' ; ,<67S 47 ,7 <.5% ' %
% .6 / .4< .16 ?1.6.<7.% 5'' 64 7.' >.6 '17 ;5.6I 56
6,<7 >#;1.5.6 ' <6 ' =4 56 64 - .<7N
W 17% 55 ' < / '7 .1.' ;1 / <.55.8 <45 ; 7,V.< <.'
?.<7 >71.'Q4J.' 4.' 641 4<.' ' ; ;46'7 ,< 1.;4.' ?'1 >.6
Q<1. % ,4 >. ;1.7. .' ?'1 5.' ; ,1?6 5.J 65'7 E8 >'<6 5.' ; '5
, 5 5 :7 ' '??'17 .<7 >.' ?,4164 -1.' ' ; ;46'7 , 5'
' ?1 ' ' ; ;46'7 ,< '> / 6.8 5.' E' 7 6.1'' 1. ; ,<< 5
.5 >. ;5'1. ?'1 >.6Q41>6%
Y ' ; ;46> '41'' 5'' E' .4 7> ' > ;4 E> ;46.1 Q46=4 G
<J78
W .6Q41. 6 =4 ' >> ;5'1.1,<7 ;'E' 7 7 .' ?,411,<7 5 1.'
' 7 >.66,7 6 >.' >,4@.%
W '??5 ; '75,<>.' 5''5, ' # ''E' 7.' ?'1 >.6Q4J.68
$ <6714;7 ,< 6.1'' ?405 =4.8
' ,47 ; , / / .' ' ; =4 77.' ?'1 4< Q41V >J'5 ! ?.<7
?546 71.' 1.?1 6 < ' ' ; ;46.' '' 1' 6,< >4 1, . / .' E' 78
$ ''% ' V '41'' ?,41 7,47 5.' 1,V'4 / .' 4 ' 6.4 '71 M
04<'5 >.' ; '66'7 ,< >7'05 ' '4?1>6 >4 ; ,1?6 >J 65'7 EQ
5 '41'' ?,41 E4<;7 ,<6 >.' ?1,<,<;%11

W 7 1 .6>. / '<>.5.: ; '66'7 ,< 7 ,<71.' 5.6 Q4J. '
/ .<76 1.<>46 .< >.1< .1 1;66,17 ?'1 5.6 71 04 1'4@I
$ 41 5.6 >. / '<>.6 .< 1.<-, ' > 4< 71 04<'5 2 4<
'471.8 ?,41 ; '46.' >.' 646E ; ,< >J 7 / .I
\ ' 41 5.6 1 5. / . 76 >; Q4J.6 .7 5.6 ?1 6.6 ' ?>17 ;
; ,<71.' 4< 71 04<'5 .<7 .1%
$ ''% E5 <'7 >1.>.' ; '66'7 ,<8 5.71 04<'5 >. ; '66' '
7 ,<<.' ?,411''Q' / ' 6#, <' 71.' > 1E,<>' >.6 'EE' 1.6I
/ ' 6 '?1.6'- 1; '66> 5.'Q4J. / .<7 =4 ' '41'' >7> 1.<>4
641 4<.' ?1, .>>41.' >'<6 5'=4.55.' 1.6 E,1 / .6 '41,<'
> > ,5>. 8 ,4 = ' ; , :7 .<>1'' 4<.' ; ,<71' -.<7 ,<
.@?1.66.' > 5'' ? 8 5 1.<-.11'' 5.' E,<>6 >4 ?1, ; .6 '4
71 04<'5 =4 '>, 7 ;< ; ,<<'571.%
$ '' ' ,16=4 '?1 66 >.4@ ; '66'7 ,<6 5.'Q4J, / #E77 >4
1, 6 > / .'71 04<'5 6.1'' '77'=4> ?'1 6 / 5 / .6 / ,V.<6
=4.' 5.6 >.4@ ?1. / .168 5'' =4.67 ,< 0.' ?,411'' ?546
.71.' ' J 7>.' '4 71 04<'5 >. ; '66'7 ,<8 6'<6 ' - , 1 > .'
6,4 / 6.' '4 ; ,1?6 E>J 65'7 E8 =4 ' ?,17.1'' 4< >. ;1.7
>>;5'1'7, 1.'>.'5''5, 8 '4=4.5 5.'71 04<'5 >.' ; '66'7 ,<
6.1'' 7.<4 >.' 6.' ; ,<E,11'.18
W '' ' #.' :'=4.' '<<>.8 5.'71 04<'5 >.' ; '66'7 ,< 6.1''
7.<4 > . : - ,V;1 > 5'' 0'11.' >4 ; ,1?6 >J 65'7 E4<.' >>'
?47'7 ,< >.' 04 7 >.' 6.6 / . / 01.68 =4 ' 5 ' ?1>6.<7. '
1,<7 >7'7 >.6Q4J. 7 .<76 1.<>468 '' ;97> >. ; : ' ;4<
>.67Q4.56 6.1,47 5'' <,7 ; .' '01> >.' >.' 'EE' 1.' .7 5.'
1.@7.' >.' 5''5, ' =4 ' '41'' >>7.1 / <> 5'' >. ; 6 ,<%%
$ '' 5 ' <.' :'47.' ; ,417 '7 ,<' 8 E,11<>.>. / . / '
01.6 >4 71 04<'5 >.' ; '66'7 ,< .7 >.0'476 Q41>68; , / '
<'E71'' >.6 >>5 76 >.6 / < 671.6 .7 'J.<76 ?1 <; ?'4@
>4 ?,4- , 1 .@>;47 E8 .7 >.6 & 1 / .6 =4 ' '77'=4.1,<7 5''
6EE1.7> J><>1'5.' >.' 7'78 5,16=4.'5.' ; ,1?6 >J 65'7 5
'41'1.<>4 4< >>;1.7 > ' ; ;46'7 ,<%
$ 55.' <.' 6.' 1'66. / 05.1'' =4.' 6415' ?1, ;5'<''7 ,<
>4 ; ,1?6 >J 65'7 E%
Y '' % .] E,<;7 ,<6 >.5 ; , / / 66' 1. ' >4 1, '
/ ?1.6 >.6 71 04<'4@ 6.1,<7 >.' 1.=4>1 1 ,06.1-' '
7 , ' >.6 5, 6 >'<6 5.6Q4J. / .<76 '1.<>1.8 .7 >.' E' 1,'
.@>;45.1 5.6Q4J. / .<76 1.<>46%
' 56<.' 6.1,<7 ?, <7 ; ;46'7.416 ?405 ;68 / ' 6 56
6.1,<7 .<7.<>4 ' 4E 7,47.6 5.6 ' ; ;46'7 ,<68 .7 1. '
=4.11,<78 ?.<>'<7 5.' ; ,415 >.' <6714;7 ,< ?,415''
1>J45'1 7> >.6 E,1 / .68 .7 '-'<7 5.' Q4J. / .<7 ?,41
'??55; '7 ,< >.' 5'5,5%
Y '' % . ' #, / / 66' 1.6 >4 1, % ' '?1.6 >.6 71 04M
<'4@ >><,<; .1,<7 '4> 1. ;7.41><'Q41V8 6, 7>,E5 ; .'
6, 5 > '?1.6 5.6 ,1>1.6 =4 ' 5.41 6.1,<7 >,<<. 6 ?'1 5.
1, ' ' $
W .6 '77.<7'76 ; .<71.' 5'' 5 0.17> <> - >4.55.'>.5
; ,V.<6S . , > 1.5'' 5 01.' ; 1;45'7 ,< >.66406 67'< '
; .68 .75'' ?.1; .?7 ,<>.5 ; ,<71 047 ,<6I
W .6 >>5 76 ?'1 5.6=4.56 .@>;47 ,< >.6 1>1.6
>,<<>6 ?'1 5.' 1, 8 >'06 .@.1# ; .' >.6 E,<;7 ,<6 =4 '
54 '6,<7 >>5 ` 4>.68 6.1' 5 71,405>.' ,4 . / ?>; :>.I
W 7 5.6 1.0.55 ,<6 '' .@>;47 ,<>.6Q4J. / .<768 .7
>.' 5,46 5.6 ' ;7.6 .@. ;47, 1.6 > / '<>6 >.6 ? , 16
; , 7 54>6%
$ '' % .' EE5 <5671.' >.' 5''Q467 ; .' >> ,<; .1'' '4 71 M
04<'5 >> ; '66'7 ,<8 ?'1 5'' - ,5.' >4 >, / 7< 66' 1.' ><
1, 8 5.6 ' ;7.6 ?'1 5.6=4.56 5.6Q4J> ' '47' .<7 .@;>75.' %
5. ' 0,1<.6>.5.4E ?, - , 18 $
$.'71 04<'5Q.6'<<45.1'8 >78 556 >, .<7 5 .< ''
5'' E,1E' 741.85.' E' 7 6.1'' >><,<.> '4 ; ,1?6 5.J 65'7 E8
=4 ' 1.<>1'' 5.' >>;1,7 > ' ; ;46'7 ,<8 .7 1.<-.11'' 5.>
?1> . / ' >.7'7 7 + :'47.' ; ,41 <'7 ,<'5.% (; , / '
/ 66' 1.' >.' ?,5 ; .' 6.1'' '47,1 6> ' >><,<; .1 > ,55 ; .'
5.6 '77.<7'76 ; .<71.' 5.'>1, 7 >.6 J.<6% $

7. 5 %

' ! ' 1

IT 178 5W1% '' E,1; .' ?405 =4.' .67 :6E 74>.' ?,41
>>E.<>1.' 7'7 ; ,<71.' 5.6 .<<. / 6 >4 >. : ,168 .7 '6

:/:

641.1' '<'>.>'<6'5.' / ' <7 .<'>.5 ,1>1.;5'1.@>;<7 ,<' >;6'5, 6%

$'55% 55.;67;, / ?,6..N'

W .' '1/ .'>.'7.11.'.7'>.' / .1 I

K' (' +',. 4(''4-3$+ ((*,' -(',$*-(' +*' '(.0$3($*,(.$(./' K : D

W 7'6406 > ' 1. / .,7'>.6'; 7,2E.<6''05 E6' >;'5.416' .<E'<76' ' .7'7'>.'?,17.1'5.68 1/ .6Q5 6;1 76'6<1'5.' 1 5.>.'5'' J'1>.'<'7 ,<' .%

$' % .6'J'1>.6'<'7 & '5.6<.E0<<.<7E57B<&YP1?6' / 5 7' 1.8'<'<<.' <67 747 ,<G>'<67 7'7I';.'6,<7'5.6' ; 7,V.<6'.4@ / / .6' '??.5>6' 6.1- ;.'>.'5'' E,1;.' ? 05 =4;%

$' % .6'; 7,V.<6'<.'?,411,<7'Q' / ' 6'6.'E,1/ .1' <' ' J 1%;, / / .'J'1>.6'<'7 ,<'5.6'=4 .<'-.174'> 4<.' 1>=4 6 7 ,<',<'> 4<.''47,1 6'5 ,<'5.J'5.%

W % 6'6,<7'6,4 / 6'.<;.77.'=<'E 7.'' 4<;',1J'< M 6'7 ,<'>.7.1/ <..'?'1'5'' 5, %

$ 56' <;' ?.4-.47' '-, 1' >'<6' 7,47' 5.'1,V'4 / .' =4 4<.' / > / .> 6; ?5 <.8'.7'<<' / > / .'<< E,1 / .%

W .6'> 67<;7 ,<6'>.'J1'>.' .7'5'' 640,1> <'7 ,<'<;' 6406 67.<7'=4.'1.5'7 -.<7.<7' '4'6.1- ;.' .7'?.<>'<7'6'' >41..%

' G % .6',EE ; .16'6,<7'>5 6' '7. / ?68'.5'<.'?.<'-.<7' > 1.'1.>546'=< '?1.6'4<' <7.1-'55.'>.'6.1- ;.';=,<7<.' 6,5>'56% G

$' 45'<.';, / / '<>.1'' 5'' J'1>.'<'7 ,<' .'>,'?546' > <'> 671 ;7%

$' ' ,47.6'5.6'?'17 .6'>.'5'' E,1;.?405 =4.8'. / M ?5,V..6' ?,41'5'' 6E51.7.'>;' 7'7' ;.<71.'5.6'.<<. / 6' >55'>.:,168' J 1,<7'6,46'5.6',1>1.6'> '1, %

W 55% ;4<',1?6',<' >.7';:. / .<7' >.6'71,4?.6' >;'5 J<.'<.'?.<7' 'J 1'>'<6' 5 <7.1 ;41'>4' 1,V'4 / .' 6'<6'<<.'1>=4 6 7 ,<'5.J'5.%

W ''% 4;4<' 'J.<7' >.' 5'' E,1;.'?405 =4.'<.'?.<7' .<51;1'>'<6'5'' <' 6,<'> 4<'; 7,V.<' 6' ;.'< .67' 4 1' ;@.;47 ,<'>.6' / '<>. / .<76'>>'?,5 ;.'.7>.Q467 ;.8' 5'>'<6'5.6';']'E,1/ .55. / .<7'?1.-46'?'1'5'' 5, 8

W ''% '' 1>=4 6 7 ,<' >.' 5'' E,1;.' ?405 =4.8'>'<6' <7.1 .41'>4'1,V'4 / .8' '??'17 .<7' '4@',E5 ; .16'; ' - 568'64 -'<7' 5.6'1E.J5.6'>>7.1 / <>.6' ?'1'5.'?,4-, 1' >J 65'7

W '' % >.6'71,405.6' 'J 7.<7'7,47'4<'>.?'17. / .<7' 5.'1, ' >,<<.1'8'6,<6'5''1.6?,<6''0 5 7>'>.'6.6 / < 6 ' 71.68'5.6',1>1.6'<>..66' 1.6'?,41' .@>;47 ,<'>.6'5, 6' .7'5.'1>7''05 66; / .<7'>.' ,1>1.8' <' 6'''5'';:'1J.'>.<' <E,1 / .1'5.';,1?6' >J 65'7 E8'6 5' .67' 6. / 0 >8';7>.5.' ;,<-,=4.1'6 5' .67';<'-';'<;.%

' '' % '' E,1;.'?405 =4.'.67'.66.<7 .55. / .<7',0> 6 ' 6'<7.I' <45';,1?6''1 / .'<.'?.<7'>>5 0>1.1%Y

$, '

G ' (1

d' 17% 5.1% .6';,<71 047 ,<6'?405 =<.6'6?1,<7'>>' 5 0>1>.6'.7'7 @..6';:'=4.''<<..'?'1'5.';,1?6' >J 65' ' 7 H8'.7'<.'?,411,<7'64<6 67.1' '<'>.5 '>4'>.E< .1'Q, 41' >.'5''6.66 ,<'64 -'<7.8'6 '.55. '< ,<7?'6'>7>' .@?1.6 ' 6. / .<7'1.<,4-.5>.6%

$' % ,46''4;4<'?1>7.@7.8'5.6 E, >6'<>..66' 1.6''' ';=4 77. / .<7'>.'2'' >.77.'<'7 ,<' .'.7'4'?'V. / .<7' >;'5'' 5 67;'; - 5.8'<.'?,411,<7'>71.'<'1.E46.68'< 646 ' ?.<>46%

W % .6''> / < 671'7.416'>.'>>?'17. / .<7' .7'6,46 ' '> / < 671'7.416'<.'?,411,<7'<' .5'05 1''4;4<.';,<M 71 047 ,<'?405 =4.8'<' E' 1.' '4;4<.'1.?'17 7 ,<''<' >.5'' >4' 7. / ?6'.7'>.6'6, / / .6':@>6'?'1'5.';,1?6' >M J 65'7 E8'<'>>5 0>1.1',<'?.1 / .771.8'6'<6'V >71.''47, ' 1 6>6'?'1'54 8' '4;4<'. / ?14<7'5,;'5' '5'';:'1J.'>.6' ; 7,V.<6'>4'>>?'17. / .<7% 8

0-1 .'?,4-, 1' ;@>;47 E'> 1 J.' .7'641 . 55.' H' ?.1;.?7 ,<' .7'5.' -.16. / .<7' >.6' ;,<71 047 ,<68' .7' ;5, <.'7,<6'5.6',1>1.6'<>..66' 1.6' '' ;,7'.EE.7%

'

' ' ' ' ' '! ' ' ' '

' &

$' ''<'7 ,<E1'<;' 6.'1.<,<;.' ' .<71.?1.<>1.''<' ;4<.'J4.11.' >'<6 5'' - 7.'>.'E' 1.'>.6';,<=4>7.68';7' . / ?5, ;1''Q' / ' 6'6.6'E,1;.6';.<71.'5'' 5 0.17>'> '4' ;4<?.4?5.8

$' '' ;,<67 747 ,<'< '> / ;7'?, <7'>.'>1, 7' > '40' ' <.6%%

$'7.6'>71'<J.16'>7'05 6',<'<,<' ;<' H1'<;.' 64;;7' >; 7' ' ; 16'?'1.<76' 671'<J.16',<'#1'<;' 6%

56'?.4-.<7';,<71';7.18'';=4.1 1' .7'1.;;-, 1>;6' 0 .<6'6 7 >6'.<'H1'<;.8'.E'.<'> 6?,6.18'>.' / ; <;'=4.' _7,<7'; 7,V.<'E1?<J' 68'?'1U,46'5.6' / ,V.<6''<7,1 6;6' ?'1'5.6'5, 6%

$' .6'>71'<J.16'= ' 6.'71,4-.<5'.<' H1'<;.'6,<E' 6,4 / 6' '4@' / . / .6'>1, 76' ;1 / <; 6';7>;'?,5 ;.'=4.' 5.6' ; 7,V.<6'E1'< ' 6I' 5. 1' ?.16,<<.8'5.416' ' 5.41' <>4671 .8'5.41';457.'6,<7' >J'5. / .<7'?1,7.J.6' ?'1'5''5, 8' .7'6,4 / 6' '4@';,<-.<7 ,<6'1.6<57'<7' ' >1, 7'>.6'J.<6%

W .6';,5,< ;6'.7'?,66.66 ,<6'E1'< ' 6.68'>'<6' ' 6 .8'E' E1 =4.' .5' / >1 =4.8'<.'6,<7'?'6';, / ?1 6.6' >'=6' <'?1.6.<7.';,<67 747 ,<%

'$ 4;4<'>.6'?,4-, 16 <67 74>6'?'1'5'';,<67 747 ,<' GQ7 ''5.'>1, 7'>.'5'';:'<J.1'>'<6'6,<'.<6. / 05.'<'>'<6' '6.6'?'15 .6%

% a <<6N' ,46'.6?>1,<6' -,46' ?1.6.<7.1' Q. >'5'' 1>>';7 ,<'>.6''17 ;5.6''Q, 1<>68'.7' '- 6>;6' ;, / 7>6'6<1'5.6'> -.16.6'=4.67 ,<6'=4.'-,46'54''-.1' 1.<-,V>.68' ' <6' =4 <' / ,>.'>.' ;,<-,;'7 ,<'?,41' 5.6'#,<-.<7 ,<6'<'7 ,<'5.6%

' ; 5 ' ' ' ' A- A), & 3 ' .'>. / '<>.'=4.'5.' ;, / 7>' <,46'?1>6.<7.' '466' /' '17 ;5.'=4' '6641.' >7'7' ; - 5' >.6' ?.16,<<.68'6'<6' '<;4<;' > 67<;7 ,<' >.' ;457.%

+ <'E' 7' 5.;741.'> 4<.'5.771.' >4'?1>6 >.<7'>;'5'' :'47.';,41'?1, - 6, 1.8' 6;'<7' '' 15.'<68' = 7' 1.<>' ;, / ?7.>4'Q4J. / .<7'1.<>4'.<'E'-.41'>.' % 1,4'1>' >.' ,55.68'>,<7' 5' '' ,1>,<<>'1>5'1J 66; / .<7%

'' 6>'<;.'.67'5.-..''' >.4@':.41.6'4<'=4'17%

* ' ''0 & ' '& ' A'

I' -g'C(' '?X'- ' (* 8

,46< '-,<67'1>>'6'5,<J7. / ?6' ''>,<<.1'5''7,7' ' 5 5>'>.';.'>>;1;7'=4.'?'1.'=4.'1 66. / 05.'<'7 ,<' .' '-' 7''67'74.1'.<;,1.'641=4.5=4.6'?1,?,6 7 ,<6'11<' ' -,V>.6' '' 6.6';, / 7>6%

' K < %

' ' ' ' ' ' ' 3

W 15% G % .6'; 7,V.<6''; 7 E6'6 <6;1 1,<78' ?,41'5.'6.1M -;.'>.'5'' J'1>.'<'5 ,<'5.8' 641'>.6'1 671.6'=4' 6',<7% N 4-.17 ' ';.7.EE.7>'<6'5.6' / << ; ?'5 7.6'>.'5.41'>, / ;5.' ,4'>;'5.41'1.6 >.<;.';,<7 <4>.'>.?4 6'4<''<8

W % '>.5'47'>.';.75.' <6;1 ?7 ,<8' 56>. / .41.1,<76'6' ?.<>46' >.'E.@.1; ;.'>.6'>1, 76'=4.'5'';,<67 747 ,<''55';5 ;' ''5''=4'5 5>'>.'; 7,V.<';7 E8' ' <6' =4.'>.';.54'>?'?,17.1' 5.6''11,.6%

W % #.4@'=, 8'6'<6'>71.'; 7,V.<6'';7 E68' ,<7'6.1-'>.M ?4 6' >?,=4;'>.'5'' 1.-,547 ,<8'.7' =4 '6,<7' ';74.55. / ; 7' .=% >5'7' >.'6.1- ;.' '0 74.58' 6.1,<7' / ' <5.<46' >'<6' 5.6' >1, 76' >.'5.41' 6.1- ..% .6' J.<6' >>; '1>6' 646?.;768'6'<6' '-.4' .7' / '5 <7.<7 ,<<>68' '4@' 7.1 / .6'>.6' >>.1.76' 641'5'' ?,5 ;.'/ 4< ; ?'5.8'.<'6.1,<7'.@;.?7.6%

W 4;4<.'1' 6,<'> >7'58'>.'?1,E.66 ,<8'> 'J.8 <E 7< ' 7>68' ,4'471.68'<.'> 6?.<6.1''>;' <6;1 ?7 ,<' 5.6'; 7,V.<6' ';5 6'=4' -?4>1,<7';,<6.1-.1' .@.1; ;.'>.'5.416'>1, 76I' ?546 '<16> .<71..4@6.1,<7<>'< / , <6'> 6?.<6>6>4'6.1- ;.8' ,4' .@.1; ;.' .<'>. / .41.1'' 646?.<>48' ' <6'=4 5'6.1''> ' ' '?1>68' ' % '

' % ,46'E5 6'>.'#7,V.<'';7 E'6.1,<7'7.<<6'>.'6 <6;11.' 6415.675 56'1.J 6 1.68'5,16=4 6'6.1,<7'?'1-.<46' ' >J.'>.' % > @ 04 7' '<6';;,/?5 6:' '

W % #;4@=4 8 :'1 J;> > @ :4 7 '<68 <'41,<7 ?'6
6'5 65' 7 '4@ > 6?,6 7 ,<6 >;' & '17 ;5.'?1.;.>.<7 \<.' ?,47G
'1,<7 ?1.<>1.' 'V <J7 .7 4< '<6 <6;1 ?7 ,< ; - =4.I 56 <.'
6.1,<7 '> / 6 ;.57. ;'= .71, 6'<6 1>1, 6'?1 ` 6 <6;1 ?G
5 ,< . >.6646 ,1>,<> ' F 8
E % .6. 7,V.<6 ';5 E68 ,< 366>.%;7,V> J ';55568 =4'
6,<7 /' <7.<',7 >J>6>.'?546>.'> @ :4 78'<68 e1,<7 '>G
/ 68 ' J.'>.' - <J7 .7 4< '<68 5 ?1.<>1.' <6;1 ?7 ,< ; G
- =4.8 6 O 6.'E,<7 <6.1 1.'>'<6 5.'>> ''>.'71, 6 / , 6 '4
?546 5'1>' '?1 6 5" ?405 ;'7 ,<>4 ?1.6.<7>;;1.7%
8W % .6 .71'<J.16 =4' '41,<7 1./?5'5.6 ;,<> 7 ,<6
?1.6;1 7.6 ?,41>.1.< 1 ;7,V.<6 E1'<7' 68 .7 5.416 ;<5',768
6.1,<7 71' 5;6 ' ; .7 >J'1>' ;, / / .'5.6 H1'< ' 6 <'541.56%
"% 7 5<.'6.1" 1.E4 76 <6;151.'?'1 ?1, ;41'7 ,<8 <6' 6
7,<6 6.1,<7 7.<46 >.'?1.<>1.'5.41 <6;1 ?7 ,< 0< ?=16,<<.%
.6 ?,1.68 /O1.6 .5 747.41'1?,411,<7 ;.?.<>'<7 5' 1.' <G
6;1 1.'5.416 .<5'<56 '06.<768 6'5" 64 7.>;' ;41'>>4.'7 ,<
f85" ;'46.'>.'5.41 '06.<;.%
"% .6 556 >;6 ; 7,V.<6 ';7 56 =4' '41,<7 6' 6E' 7 '
;.6 >.-, 16 0,4 1,<78 '?106 > @ '<6 1>-,546 >.'6.1- ;.8 >>
7,<6 5.6 >1, 76 >. ;7,V.<6 ';5 E68 =4'<> 56 <.' ?' .1' .<7
?'6 5" ;,<71 047 ,< .@ J>.8 ?,41-< =4.'> ' 55.416 56 1.<7G
?5 66.<7 5.6 ;,<> 7 ,<6 ?1.6;1 7.6 ?'1 5" ;,<67 747 ,<%
$ " % .6 1.J 671.6 > <6;1 ?5 ,< >.6 / 4< .7?'5 5>6 6.1,<7
>,405.6 8.7 4< >.4@ 6.1".<-,V>7,46 5.6 '<68 .7 ;,<6.1-.'
>'<6 5.'> 1.;7, 1.'>4 > 671 ;7% 0 W
' " % .6 76 >.' ;5,V.<6 ';7 E68 =4 6.'6.1,<7 <6.1 76
>'<6 '<<>.8 6.1,<7 1.=46 '4 6.<<.<7>.'5" J'1>.'<'7 ,G
<'5.'=4'6.'?1>7.1" 05" E>7.' ; - =4.'>4 U 04 55.7 64 - ' 8
>'<6 5.' ;:.E 5 .4 >4 > 671 ;7% ' %
$ " % .6 ;5,V.<6 <6;1 56 .7 > 671 07 .6 >'<6 5.6 ;, / '
?'J< .68 5,16=4 56 6.1,<7 ; , / <5'<>>6 ?,41 5.' 6.1- ;.8
?,411,<78 ;< ;'6> . / ?. ; :. / .<7 >JB 4 .8 6.'E' 1.'1. / '
?5' ; ;18 <' 6 6;45. / .<' ?'1'>.6 ;5,V.<6 <6;1 56 641 5.6
1; 671. 8 .7 6.1-'<7 >'<6 5" ; / ?'J< #I 5.6 ?:1.6
?,411,<7 6.'E' 1.'1;< ?5' ;.1 ?'1'5.416 E568 J>6>.'> @ :4 7
<< 8 ;7 5.6 E1.1.6 ?'1'5.416 E1 1.68 'V'<7 5J.'1.=4 6%
W " % ' >J'1>>.' ;.4@ =4 8 'V'<7> ' 55.'16 5.6 =4' '
55.61.=4 6 8 7 .'6;'6.1,<7 ?'6 E' 7 <6.1 1.8 .5 =4' '41,<7
?.1>4 '.>1, 7 > ' ;7 - 5.8 6 6.1,<7 6,4 / 68 ;,<4<.'5.6
'471.68 ' 4< 7,41'>.' 6.1- ;.8 U 5" >.;:'1J.'>;6 ; ,V.<6
';5 E6 <6;1 56I / '76 6 <.'E.1,<7 0' / ' 6 5.41 6.1- ;' .<
?.16,<<.8 .7 76 6.1,<78 641 / '<>. / .<5 >4 > 1.;7, 1.'>.'
> 671 ;78 5'@>6 ?'1 ; ;4=4.'1,4< ; ?'5 ' ?,41 5.' ?'V;<7;<7
7 .' ;.4@ >;6 ;5,V.<6 <6;1 56 =4' 5.6 11 / ?5' ;;1,<7 >'<6 5.'
6.1- ;.' =< 56 '41' .<7 E' 1.' %; #7'@.'6.1" >J'5.' .'
>.4@ 0,41<..6>.'71'-' 5%
W " % #.4@ >.6 ;7,V.<6 <6.1 76 =4E'<0 1- 1,<7 ?'6
-,5,<5' 1. / .<78 ,4 <.'E041< 1,<7 ?'6 ,<7' 1. / ,<7 5.41
1. / ?5' ;. / .<7 '4 0,41 > =4> ?,41 5.41 6.1- ;.8 6.1,<7
?'1. 55.< .47 5'@>6 ?'1'5" 1,' , ;?'5 70I .7 ' 1, 67O <.'
E, 6 =4 56 '41,<7 ' ;,<71 '< 6 ' ?'V.1 ;. 7.'5'@.'>'<6 5"
/ O / .' '<<O.8 56 6.1,<7 6<6?.<>468 ?.<>'<7 4< '<8 >.'
1 ,<<.41'>.6.1- 1 .<?. 6,<<.8 .7 >.' .@.1; ;.'>4 >1, 7
>;' ;7,V.<6 ';7 E6 ,4 >5 J O5.6%
.6 E. / / .68 5.6 .4-.6 .75.6 E 57.66.1,<7 .@. / ?7.6 >.'
5,45.' ;,<71 047 ,<%
$ " \ .6 E,<;7 ,<6 >.'5" J'1>.'<'7 ,<'5.' .7 ;;55.6 >.6
E,<;7 ,4<' 1.6 ?405 ;6 =4' ,<7 >1, 7 >.' 1.=401 1' " E,1;.'
?405 =4.'6,<7 0<; , / ?'5 O5.6% <;,<60=4.<;.8 5.6 / .G
01.6 >4 ; ,1?6 OJ 65'5 E8 5.6 / <5651.6 ><1, 8 5.6 ;5,V.<6
=4'.@.1;.<7 ;6 E,<;5 ,<6 >.6 04J.6 ,<>.' ; / / 66' 1.6 >4
1,'?106 5.6 1 04<'4@8 5.6 04J.6 >.6 71 04<'4@>.' ;, / M
/ .1;.8 5.604J.6 >.'?' @8 5.6 ?1.6 >.<76 >;6 '> / < 671'7 ,<68
%- ;; ?106 >.<76 .7 < . / O1.6 >.6 > 1.;7, 1.68 5.6 ?1, ;41.416'
6V<> ;6 >.'>0?'15.< .<7 .7 >.' > 671 ;78 5.6 ,5K; .16 / 4< ;
% ?'<@8 5.6 ?1, ;41.416 >.'5" ; , / / 4<.' .7 5.416 6406 7476
?,411,<78 <,<,06 '<7 5.41 <6;1 ?7 ,<8 <.'E' 1.' '<;4<6.1M
- ;.'?.16,<<.5 >'<6 5" J'1>.'<'7 ,<'5.8 / ' 6 ;.4@ .< 1.'
.4@ =4' 6.1,<7 6'5'1 .6 ?'1 5" <'7 ,< 6.1,<7 6,4 / 6 '<
1. / ?5' ;. / .<7 ,< .'5" 5'@.%
$ .6%0-0=<;68 ;4106 .7 - ;' 1.6I .7 7,<6 >7,V.<6 =4'
8 55 >'<6 5.6 ,1>1.6 6'.1068 ?,411,<7 0J'5; / .<' <.'E' 1.
,4;4EE 6.1- ;.'?.16,<<.58 / '76 76 6.1,<7 6,4 / 6 '<1. / '
?5' ;. / .<7 .7 U 5" 5'@.%
$ " 8 ,1,<7 > 6?.<6.6 >4 6.1- ;.'>.'5" J'1>.'<'7 ,<'5.'
5.6 ,> ; .168 6,46 , ; .68 .' - '5 .16 ;5 6,5>'76 >.6 71,4?.6
>.'5 J<..7 >.5" / '1 <.' 054<7 ';14.55. / .<7 .<' ;5 - 70 >.'
6.1- ;.I 5.6 ,5 ; .168 6,46 , ; .16 .7 ;'7' .16 >.'5" J.<>'1M

/ .1 .'<'7 ,<'5.' ;7 >;6 J'1>.6 6,5>0.68 ;7 5.66.@'J0<' E.08
5.6 <E 1 / .68 5,6 / ?,7.<76 .7 5.6 <-'5 >;6%
$ " % < ;'6 >.' .0'<J. / .<7 >.'>, / ;5.' 4 >.'106 '
>.,.0 0'0 5<.5 .8 7.' ;c7,V.< ' ;5 E 46;1 7 E.1" 5'V.1 6,<
?, / '641 5.'1.J 6 1.'>;05 '<;5.<<.' / 47 ; ?'5 508 6 <6;1 1"
641 ;.54'>.'5" <,4-.55;8 .7 6.1" > 6 1 04# >'<6 4<.' ;, / G8
?'J< .I J45.'>.'=4,S 5 >. / .41.1" 640.7 '4 6.1- ;.' ,4 '4
1. / ?5' ;. / .<7 >'?6 4<.' .7 >'<6 '471.' / 4< ; ?'5 .% \
' + ' '
' & ' ' 3 ' ' ' ' '
T) * ' & * A
U 17% G% " J'1>.'<'7 ,<'5.'6.1" ,1J'< 60.' ?'1 > 6M
71 ;7 .7 ?'1 ;'<7,<I 6,4? '<;4< ?105.@5.' 5.' <.' ?,<11"
071.'?'1 ; / / 4<.8 6 ; . / .67>'<6 5.6 - 55.6 ;, 6 >01' '
05.68 <'?'1'>.?'17. / .<7%
W % .66.;7 ,<6 >'<6 :\6 - 55.66.1,<78 U ;.7 '1>8 ;,<'
6 >010.6 ;, / / ' ;'<5,<68 .75.6 - 55.6 '4 >.6646>.' ; =4'<5.'
/ 55.' ' / .6 ; / / .'> 671 ;76%
W % 'V '41" 4< ,4 ?546 ;416 0'7' 55,<6 4 >. / '
0'7' 5 , 6 ?'1 ;'<7,<8 U 1' 6,<>.'5" ?,?45'7 ,<%
% 06 0'7' 55,<6 6;1,<5 ;, / ?,606 >.'6 J 0 46=4 U > @
;,7?'J< .68 =4 8 '4 5'4@ ; / / 4<8 6.1,<7 >.' ; =4'47;'
71, 65 , / / .6;0';4<.8 ., / ?1 6 ;6,EE ; .1'. 6,46 , ;.168
5.'7' / 0,41 ; / ?70 . '>.0, 68 6,465" / ,> E ;'7 ,< ; '?1'68
?'1'1'??,17 '4@ J1'<>.6 - 55.6%
% W % #0'=4.' ; / ?'J< .'6.1" > - 60.' .< >.4@ ?.7,E,<68
=,'71.'6.;7 ,<6 ;7 04 5 .6; ,4'>.6%
% 'V '41" >'<6 ;0' 4.'1@ / ?'J< .'4< ; '?7' <.8 ,<
5 .45.<'<78 >.4@ 6,46 5 .47.<'<768 >.4@ 6.1J.<76 .7 =4'71.'
;'?,1'4@%
$ % .'5 .47.<'<7 .5 4< >.6 63465 .47.<'<76 ; / G
/ '<>;1,<5 ;0';44 4< ?.5,5,<8 .7 '41,<7 ; ;'' ;4<4 '6.1'
J;<5 6,46 5.416 ,1>1.6' %
% ' 5" 707,' >.' ;0'; 7<.'>.6 =4'71.'6.;7 ,<6 'V
'41" 4< ;'?,1'5=4' ; / / '<>;1" 5" ?1. / 01.' ;6;-'7'>.8 ;7
5" 60.,<>.'6.1" ;,1' / '<>0;' ?'1 5.'?546 UJ0 >.6 ,5>'76 >;'
.6; ,4'>;%
'"% #0'=4.'0'5' 55,< '41" 4< 0, / / '<>'<' .< ; ;.E8
4<' ; / / '<>'<7 .< 6.; ,<>8 ,<'>04>'<78 4< ?,17. >1'G
?.'48 .7 4< / '771.''1 / 41 ;1%
77"% " 104< ,< >.6 0'7' 55,<6 >4 / 0 / .'> 671 ;78 046G
=4 '4 <, / O1.'>.'5 4 7 U > @8 E,1 / .1" 4<.' 0J ,<%
' " 8 #0'=4.' 5.J ,< 6.1" 6,46 5.6 ,1>1.6 > 4< ; ; .E>;'
0J ,<8 > 4< '>04>'<7 J0<01'58 .5 > 4< 6046 ';504>'<7 J0G
<01'5% .6 0J =<6 104 .6 '41,<7 ?,41 ;0;5 4< ; / / '<M
>'<7>.' 0J ,<8 =4' .@.1;;1" ;' ; , / / '<>. / .<'U 7,41'>.'
1>5.'?.<>'<771, 6 / , %686 ' ;0 < .65>'<6 5.6 - 55.6 '? > .6 46
>.' ;.<7 / 55.'0 .68 ,U 5 V '41" 4< ; , / / ' >'<5 J.<01' '
>.6 5.J ,<68 <4 / / 0 ?'1 ;6 ;5,V.<6 ';7 E6>.' ;5 '=' ;'6.;M
7 ,<8 <6;1 56 ;7 > 6 1 0406 ?'1 ; / ?'J< .6%
$ " % <'5 1;1" 7,46 5.6 '<6 '4 6,178 6'V, 1I
$ '<6 5.' ; .7 5 .4 >;> 67E ;78 5.'1'<J>.6 5 ,<6 .5 >.6
0'7' 55,<6I
$ '<6 5.' ; . .4 >.' ;'<7,<8 5.'1'<J >.6 ; , / ?'J< .6I
$ ' 5" 05.'>.6 ;, / ?'J< .68 5.'1'<J >.6 ?.5,7, 68 >;6
6.;7 ,<6 .7 >.6 .6; ,4'>.6%
W " % " E,1 / '7 ,<>;6 ;, / ?'J< .6 6.'E.1">.'5" / 'G
< 01.64 - '<5.N ' $
$ '<6 5.6 - 55.68 ; <=4' 7; 71, 6 ; 7,V.<6 .7 E 56>.' ; M
7,V.<6 <6;1 568 .7 >4 / 0 / .'=4'15 .18 ; , / c ,6.1,47 <.'
; , / ?'J< .%
W '<6 5.6 ; , / / 4<.6=4'<;'?,4E1' .47 ?'6 E,1 / .1 4 ;'
; , / ?'J< .8 5 6.1" E,1 / 0 >.6 ?.5,7,<6 >.' - <J5 =4'71;'
; , / <.68 >.66.;7 ,<6>.'>,40.8 >.6 .6; ,4'>.6 '6 I >.'
<'< 01.'=4.'?5467.416 ; , / / 4<.6 ,1 <.<7 4<.' ; , / ?'J< .8
.< 6.'104< 66'<7>.'?1,.' ;.' .< ?1, .0.8 6.5,< 5.6 ,1>1.6 =4'
6.1,<7>, <06 ?'15.6 > 1.;7, 1.6 >;' > 671 ;7% %
$ " % 5 '11 - ' 5 =4.'5.'<, / 01.'>.6 ;7,V.<6 <6.1 768
6, 5 >'<6 4<.' ; , / / 4<.'>.' ;0 / ?'J<.8 6, 5 >'<6 ?546 .416
; , / / 4<.6 104< .6 U ; .7. .78 <.'6 ' ; ;,1>U7 ?'6 '1.> E'6
<, / 01.'>.' ; <=4'<7. 51, 68 >,<7 ;0'=4.' ; , / ?'J< .'>, 7
071.'E,1 / E.8 5'%; , / ?'J< .'?,<11" 6.'1.>4 1.'U =4'1'<5.'
; <=%
W " % ' ;< 6.1" >.' / 0 / .' >'<6 5.' ;'6 ,U 5.'<, / 01.' '
; 7,V.<6 <6.1 76 - .<>1' 7 U - '1 .18 6, 7 .<'<J / .<5'5 ,<8
6, 5 .<> / <47 ,<8 046=4 U ;'=4 5 V ' 7 E. '>.'E,1 / .1' ,4
>.64??1 / .1 .<'; / ?'J< .% %
WB % '<6 5.6 - 55.6 '71>;6 776 >? ; <= '<5.' / 55.

[illegible]

) * ' ' 0 %)' 5 + , ' 5 -)&)%6

' WP I - ')' ! & ' $H ')> ' < (' '

/

! I%

' ' (' 9 ' Y' .6 -'766.'4@ >.1< 1. '
/ .1 7 ' 1 -E.'>4 K E, 5 ,<7 '??1 6 =4 5 6 ' 7 E5. -9 >.' - , F
5.<56 >.0'56 .<71.' 5. 5;. 1, ' .7 5" : '47. ' ; ,41 U.' Q467 ; .%
546 .416 / .< 01.6'>.' ; .% 71 04<'58 ??1 6 ' -, 1>,<<9 5.<1
>. / 66 ,<8 6.<7 1.<<6 >' ?,17.1 5,416 ?5' <7.6 ; .' =4.'
5.'1 ; . 1,7I ; ,< 1.' 5.=4.5 5.6 < J, ;5'<76 >7'05 6 0 , ' '
<. 1, ,<7 '466 ' >.' JE1'<>6 64Q.76 >.' / 7. , , .<7.<7.<78 '8 '
>.'6,< '47?1 7.' ?1 -0.8 ' ; . ,1>0 '<' W 76 * ' 6 ,8 < <.5
;?<>' /<.' U [,17% A E
. U1.' <5,< Y >.' H J4. ,1.>,' 1 .<5 >.' ?405 . ' [.'
01, ;041.' <5 54 . . ' , 3 ' ' ' ! ' ' ! ' '
8 ' 8 ' ! .7 '47.41 6'?.'Q46=46 >'<]%6.]' 7.?>. / .4 .' '4 '
7,1 5.' =4.' 5.6 ?'?.6 6.' 6,<7 '11,J>.8 1.Q.5 ' 5.<1 <E' 55 G
0 5 7.8 .7 ?1,4-.' =4 ,< =.'>, 7 1.J'1>.7 ; ,EE5 .' '15 ;5.'>.'
E, ' =4.' 5"6.45.'>, ;71 <.'>.6 '?>51?68% ' 8
.<,4, . '' E' 78 > 7 ,<8 >.7 >>4'1;0.6 7. ;105.6 , ,716
5"1.<7.'>.' ;E.7 ,411'J.% I 8

' D8%%

' bW (*' ' ('* ' .677 E >77 0Q ' B'>'
% >.' B'1>.<0.1J8 / < 651.' > `7'7 .7 > ' E5. '<. .6>"
> '1J1'1.' >.' K1'<>.0 41J% <0?'.5 .7 E '1.4708 '' ' 0
K,71.' .4418 .7 6" <,KB '7 ,< '77 / < 6701.' ?1 1>' '>4.5
> 7'7 .7 >.' J4.11.' >.' % % ?1466 . 34.8 .67 ?405 =4.8 .7
5.6 E.4 55.6 '45,1 6. ;6 .< ?'15.<7% # .67 5" 1.<,<; '7 ,<>.'
% 5.' / '1J1'1.' '4 J,4-.1 . / ; 77 >.' 5.6 7'56% #.'?1 <; .8
> 6. 7 ; .6 E.4 55.68 '4=4.5 5" 1,1 >.<#.' '7G' 7 ' ; ; ,1>>
1 .41.4@6, 7Q5.'1>J<.1'641' 4< ?'V68 0. '4)' E.17 5.8 ?.4? >
> : '0 7'<76 > 4K 0 ,< .'1'.701.8 0 .< ?,5 ; .6 7 Q,4 66'<7
><<' ?5. < 0 .< [71<8 6.'>.6 65.8 >'<6 5" , <=4K 5. 6 @ 0 / '
'<<0.'>.'6,< UJ.8 >. . .7 55<651.' ?,67.8 .7 ' 1 E.'>'<'
051' J.18 '1. ,'4<.'6, / / .'> '1J. <7 ?1J1.<'<7 ><' 1.1.<4
>.' 6.6 K7'76 :) >> 5' 1.68 .7%=4 ' / ,<7.1" '<<'.55.EE5.47 c
' E5,1 <6 ' ' >.50 >.' . ' =4 5 .< 1.7 1' 7 ,1> <' 1.G
/ <78 >.>4;7 ,< E' 7.'>.6 71' 6 .7 0.6, /'>.5 '78 ; .67G
0%> 1.' '4 >.50 >.' C 8 ' E5,1 <68 V5'>V #1'1.<8 B
, ,<<4.' ?'1 ' J1'<>6 1,V'J.6 .7 ?'1 6.6 ?1,>4;7 ,<6 5 7G
7 1' 1.68 '.6, / ?'J<.' 5 5.' / '1J1'-.'>'<6 6,<6)c,41;0."
51'<J.1% ,1>,<<'<; .'>.'?.'?1 <; .8 . <4V0 6'<6 >,47g
>.6 0'66.66.6 6'<6 <, <01.'>.6 ; ,415 6'<6 =4' ,06.>' .<7
>'<6 6" ; ,4 S8 ?'1 Q'=4.55.' 5 1.<,<; . '1'> [< 671'7 ,48
.7=4 '1 .<7 >.' ?'1' 51.' / ?1 / >.8 W67 >'7>.' > 6 .<>.8
.')Q4 <% >5 V .67 > 7 6 =4.8 ; / / .'Q 546 . ,16 / ,7 E6 /G
?,17'< 6I ?'15 ;4 01. / .<7 >.6 1' 6,<6 >;' '<708 7 ,05 8
J.' .<7 0 4<.' '06.<; .' > 4<.' .<E54.'>41>.8 W7 ?.47U71.' 0
6 .5, J<.10 4<.J10<>> 67'<; .'>,6.6 ' 68 5. 5 #4<E <7
7,46 5.6 6, <6 .7 5.6 ' ' 1.68 '<7 ; .55.6 =4 ' ; ,< ; .1<' .<7
' ,<?'V6 .55.41 J,4-.1<. / .<7=4. . . 5.6=4 '1.J'1>' . / 6"
?.16,<<.8 6'<6 .@; .?7 ,<8 '4 <' , 671.' B'1>.<0. EI8 .7 <'
' ; ; , ' ' ?5. < ?,41 / 1 0 ?.5 .EE.5 Q =4 '4 1.67G E5 '-' 7
> ,<< ' .< / # / .' 7. / ?6 ?5. E5 ?,<- , 1 0 % 8 ?1466 .< ; 8
WE <>.'?,<11, 1 0 6= ? . ; .' 5.> 7 74 < 651.'>.5 5'671,< ,B '
<. ; ;66' 1.68 .7 >.'54 ' .<1,V.18 >'< '5. ' . '6 J1'1.6 =4 ' 4Y
7 1.66.1< .<7 6.6 ?'V6 .7 6 Q.568 E, 455. ' ,1>1. =4; ' %
Q4J.1' 7 ; ,<1.<'05,68 N < V.1 4>.' . .77.' ,1>, ,<'<. ,8 5.'
>.4@ / '1J1'1 '56 6,<7 >06 0 ?1#6.<7 . , / / ' ' .005 ' 5"
EE ,<'1. : .=71466 .<<.8 ,< ?545 7 . , / / .' <; 1?,1>6 0 "
/ '66.'>.6 ' 6 0 1>> 7' 1.6 >.' 5" W'0,<>.' K1'<>.0,41J8
.7 1'47,1 5>'> ' J,41.1<. / .<7 .67 7,47 ; <5 1.' ; < 1.' 5.6
/ ' <6 >.' % >.' B'1>.<0.1J8 =418 ; , / / " / < 651.8 > \
1 J.8 .@?>> .8 '1. .>.6 ?,41, 16 155 / 7.68 & 47- .6 'EE' 1.6
?,5 7 =4;6I / 7' 1.68 . . ; '6 '65 =4.6I > 6?,6.'>.6 ; : '1J.6
.7 . / ?5, 61 >,<<.' .7 1. ; , 5 1 < 65 741.7 5.' 7'47 6<4 c 6"
6 / ?5.'1;6 1,<6'0 5 "0 5" ; ,41 >.'K.15 <8 '-.' 8 'E5,G
1 <6 >'??, ,7. / .<56 '<<4.568
& 1.'>.'5"% L ' ') ' ' ! `')

! D8

' ' .'6 '41 1.66 <J8 ; ,411 ,E >4 ,'0 <.78
'11 -"8'5.'*>.' ; .' / , 68 >.' 0 .160, 1J '1. ">.6 >E5? ;0.6
>.' 8 H'45 <.1N .6 / 4 6 1.6 ' '66. / 05 1.<7 55 7 0 '
' + ' < ' '.

6'55.'>4 ; ,<6; 58 ' ,0 76 >.< .4101.<7 ?106 >.'>.<@ 0.<1;6%
< .<-,V" 641 . ; : ' / ? 0 <>6,1 4< .6? .6 ; : '1J.'>.'
1. / .551.' '4 1, ' 5.' 106<57'7 >.6 %>.5 0>1'5 ,<6% 34, =< 5
%< ' 7 .<; ,1.'1 .< 71'<6? 1.'>4 . ,<7.<4 >.' ; .6>>? .0.68 ,<
< . P 6641.' ?'6 ' - .' / ,5<6 >.' ' , 7E5'<; .' >'<6 5.6 6?; 506
.7 >'<6 =4.5=4.6 E0 55;6 ?4055=4.6 =4 .<E5< c" 466 .' ' ; '
;E>;' '4@ >. / '<>.6 >.' 5" ! 1'<>. K1.7'J<.' ' . . ? ; <>'<7 5.
" (* G ' ' 0 ;1, 1.%=4.' 757, ?0 ' '71 ; .' 6W
1.E46.' . ,<67' < / .<78 6, 5 0 1. 5>1.' ; ' [' .7 6,< 5.11 '
7,51.8 6, 5 0 >> / '<7.5.1 ; .75.' ?5' ; .N .55.' ?.1< .771" 6.45.'
/ .'7 '4@% 41;6 5" 5 01.' <' - J'7 ,<>4 < .67.1% 8.' / 7<.'
?'? .1 ?1>7.<> =4.' 5" <.J, ; '7 ,< 6 .67 65B? 45 01; / .<7
; , / ?5 =4>.'>.?, 6 <E1' ; ; ,< >.' 5" ; ,<-.<7 ,< >.' .G
; : .<0' ;08 .7 =4.' 5.6 >0?E ;0.6 >4 ; ,411 .1 1.66 <J ,'
; ,<7 .<<.<7 .<; ,1.'1 .< >.' > ; 6 E%
< " >,' ;0 .01.18 5.'V.<>1.>' ' ' , 78 '<? -.16' 1.'>72
?1 <; .'>.' !4 5.68 .<5 > >'<6 6" 1.<5 0 / .' '<<0.8 ?.1 d '
J'5" >.' 71, 6 ; .<76 ; ,4-.176 .7 >.6 554 / <'7 ,<6 '4 .00'
7. '4 .1 >'<6 5" - 5 .'>.' <>6,1% +% 5 V " '41" ? ,0'05.G
/ . 7 '466 8 6,46 ?.48 >.6 E.7.6 ?,41 #I / '1 'J.'>4 >4.'
> ,1 ' ' - . ; 5'?1 <. ;66.H1.>.1 =4.' >.' 1466.8 =4 ' -" 6.'
E' 1.' <. .Y6' / <.<7 U 476>' / % u ' < 1. ; , / / .<; .' 0? '
;1 > 4 .'1.-4.'>.' 5" E5,77.8 .< ? >6.<; .'>,'1,5 .7]W E' '
/ 5.% < '6641.' / / .' =4.8 ?,41 5" 1.<>1.' ?546 ['J, '
E =4.8 ,< ?. <77,46 5.6 - ' 66.'4@%
% < >,4076 .< ; 4 -1.' 0 #0'E0' / ' '9 ('
/ . / W<8.7 2' 9) (' - ' 66.'4@ >.' "6. ; , <>E.1; .8
.6 5.771.6 >.' K51 / 4J0' / ' .<<,<;#<7 = .'?E' 6 .416 75 '
J 671'76>.' . .77.' - 5 .8 ' <6 ' =4.'>.' '1 [, ' .77 .' ,1G
; .67.18 7. ; , - .<7 5.6 >.?,6 7 ,<6 .7 1.<>.<7 5.6
> '11.67'7 ,< ; ,< 1.'7.6 ?1E5-6<468 c 'V' .< " >'<6 5.6 ?1 6,<6
?546 ,416 =4 ,< Q4J.1" '4@ ?1, ; 5 ' <.6 '66 6.68 =4 ' 6.'7 1< '
>1,<7 5.'G ' >.' . . ' / , 6% + # .6 / / .6 5.751. ' 'Q,47. : 7 =4,'
5.'1.J / .<7 >,6 05.46 > @E<1>' - .<7 E5.' ?'66.1 0 ,5-.16
0' / ?7, 8 ?,41 1.< ?5' ; .1 4<.' '7 1.' 71,4?.' .0-,V. ' .=
> 5 J.<. .0 .55 <J7,<8 ,0 .55. .67 '550.'> 66 ?.1 4< ; ,1?6
>.' > 7 .4@> '4 / , <6 >.4@ / 55.'0, / / .6=45>.-'67' .<5
; .6 1'<7,<6 '7 6,' ?,15' .47 '4@ ?546 'E5 1.4@ .@.06 , 371.'
5.6 0'0 5'<56% + $ '

B 8

@ '& 4B.' ' ' ' 9 3 ' ' ' . .E5E8 G

% E ?1 <; .' ; 7 5" ?1 ; .66.'> 1'<J.8 ' <6 ' =4.'7,4 .' 5"
; ,41 67'75 [4>01 .<, .8 ,47 =4 4.' " B'V.'0 .1 / '7 < ?,41
6,'1.<>1.' 0 , ,8 > ,E5 46.' ?'17 ? >.' 5" E' / 55.' 1" , ; .6G
6' / / .<7 0 K.15 <8 5 .67 ?1,0'05.' =4 5 6.' ?10Q '1.' .<
55. / 'J<.' ,< 4< ?5'< > '77'=4.8 ,4 =4.5=4.'6V670 / .'>.'
/ .<'; .6 ; .<71.'5.6 H1'<?' 6% . ? ' ? >.' 4@. ,41J .67
?5. < >.' ?70?'1' E68 . ,?,5> ' 7 5 .<; ,1.' 0.6, <>.' ; . "
/ ,4-. / .? 6 ?,41 ; [7.< 1 6.6 ?1,- <; .6 0.5J5= .6Z #.5E5
.67 ?.4 -1' 6. / 05'05.8 / 'Q6. . " < .67 ?, <7 / ?,66 05.8
.6 K1'0'<; , ,6 ,<7 1 1 6 1: '0 74>.'>.' 5" 6,4 / 6 ,<8 '
,4 >4 / , <6 >.' 5" ?.41 Q P6 6,<7 1,0; ,<7.<768 / ' 68 5c
6,K7 >06<< 68 .6 >. / .16 71,405.6 < ,<7 E' 7 =4 ' ; ; 11771,'
5.<1 / 06 <7. J.<; .8888 5S 6.' E' 5 .< 41,?.'> 071'<J.?
. / J1'7 ,<4 7,46 5.6Q,416 c '11 -.'>'<6 1 741 ; : .8 U'<,'
5" 1466.8 .< B, '<15.8 >.6 E' / 5 .6 .<7 01.6 >.' ,5,< 6
=4 ' E< .<75" <,4-.5 . ; ,<67 4 ,< >.' 7. '1'?'71 .8 '#'46.'
U.6 J1'<>6 '-'<7'J.6=4 .5 .'<1, ;41.' ' 47 >.66.61, 41 01.6%
< . ; 1 7 E54.8 >'<6 5" 7<4'< .8 ,? , .67 ?'6 05, J<>
> '-, 1>.671,405.6601 .4@ 0 . .77.' , ; , '6 ,<8 # .67 >'<6 ; , '
/ 0 / .' / , / .<7 =4 4<.' ?'17 .' ; , <6 >.1'05.'>.' 5" <,05.66.'
E1'<?' 6.' =4 .'6,< ?'V6 .7 ?'1 ; ,417 B. / 'J<.' ?,4E
6,45.-.18 6 c 6 ; ' ?.<78 / ? 1.' ; ,< 1.' 5" H1'<; .8 .' 7'M
05.'4 >.6 0-.<. / 1<76 ' ; 74>6 1.<> 0 .< 0'566'05.6 5.J
; '67.6<,0 5 ' 1.6 >6 7,<6 5.6 ?'V6 >4 / ,<>.8 ; '1> 06 6,<7
?'17,4 5.61,0 / .68 .<<. / .6 110, ,<; '05.6>4 71'-' 58 >.'
,1>1.' .5 >.'5" Q467 ; .8 5 .< .67>8.' / 0 / .' .0; G<,46 '451.6
B, 5'E5>' 68 ' 5" H1'<; .'1;466 7 " '0'7 1.'10V>7.'E0,>'5,8
; .'6.1" 4< J1'<>'6.1- ; .'1.<>4 0 5 .6?0; .'04 / ' <.8 50. .G
; 4 .'J'45, 6 .< ?,15.1" >.' 0. '4 ; ,4? 641 5.'-' <=4.7 1>.'
78.1<. . 55 ' / > 4J '68%% < '4 / '7,1H>. ;1, 1.'7Q<4<; '
10-,57 <<E4'?1, ; : ' <. .< ,55'<>0.< E'-.41>.5'5 0.1 >'
6,46 V ',EE5 / .6 6'11,7706 >.'4546 > 4?.' / '? 01=8

U)

?'Y 6;<5; / ;<7 5.6 O'7,<<.75;6 ?1,66 ;<<.6 =4 ' <,46 ,47 '66.1- 68 ; .' 6,47 '<; ,1.'>.6 1 ..6 ?1.6=4;<'7 ,<'4@ N 4< 71,? - E' / ,41'>.'E,1'W7 5" 6,15;> >J, 6 / .'=4 '6 '77' ;0.' ' 4<'?'V6 71,? .@;546 -. / .<7 '>,<< ' '4@ 6, 6 > ' / '66.1 >.' '1J.<7 .6 B,55'<>' 6 '41' .<7 .4 5.' 7. / ?6 >.' 6.' >,<<.1 4<.' 0,<<.' . ,<67 745 ,<8 6 56 .466.<7 >.' 0,<<.' :.41.' 1.J'1>6 ';=4 6 7 ,< >.' 5" 5 0.1 .' ; , / / .' 5 <.' 'EG ' 1.

'' <, ,->5.'>.' 5"1' ,17 >.' / ?.1'71 ; .' >.' 4665.6 .65 1.?'<>4.' > '>.?4 6 >.4@ Q,416I 5.' ; ,4 / .1 > 0 .1 < " ?, <7 ; ,<E 1 / .' ; .' 014 7I '4 . ,<71' 1.8 5?'1' 7 =4.' 5" Q '<7.'>.' 1,?.1'71 ; .' .65 1. 'O5 .8 .7;

4

C (<>6.V8 6.;1.7' 1.' >,'5" 5.J'7 ,< '<J5' 6.'?1 6 / ?.1'71 ; .'>.' 466 .8 ?'17'>.' . .16, ,41J 5.'C* >55 / , 6 >.1< .18 .67 '11 - .' >' ' - '<7 0 .1 '4 5, 18 .7 " &7,<<.'5"'<,4-.55.'=4.' 5.6 / < 65 .6 >.6 1, 6 ? 6 '<;.6 'Q5 ..6 ,47 6 J<.' '-.;'5.' / < 67O1.' 1<66.' 4< '11' J. .<7 7;5'7 1" 5" ?' @ 0E' 1.' '-.;'5.6 41;6 G '?'1' 7 =4.8 >G' ?1.6 5" >.1< .1.' 1.?,<6.'>.' / ?.1'71 ; .' >.' 466 .8 5 < . ' 7 1.65.' > <=4 .7 > .' '4@ / < 671.6 >.6 ; ,<16 '55 ..6 =4 .' 641 5.6 <7.<7 ,<6 >.' '' 'Q.67.' <?.1 '5.' 1.5'7 - .G / .<7 '' 5" <' - J'7 ,< >4 < .67.18 =4 ' >, 7 >.6,1 <' 6 6.1\ - 1 >.' 1,<5 .1.'0 . / ? 1.'1466. / ?.1'71 ; .' '' .- .' , ' >,45. .<'>. ;5'1'<7 =4.'5" <' - J'7 ,< >. ; .55. - .'1.67.1' 7 ;<7 .1. / .<7 5 01.' '4@ 41;6 ' " .7.' ; ,<-.<4 .<64 7.'=4.' ? ,17. 57, / '<.' '41' 7 =4 '71.' / , 6 ?,41 ' ; ; .?7.1 ,4 1.E46.1 5.6 ; ,<> 7 ,<6 =4 ,< '?1,?,6. .6 1, 6 / < 671.6 '41' .<5 >.6 1 ' =4.' ,< .<<- <7 641 5. ;0' / ? > 4< '1' ' 65 ; . / ?.1'51 ; ' '' ?'6 ;14 >.- , 1 ' ; >.1 0 ; .75.' ?1,?,6 7 ,<I / ' 6 .55.' " ?1, / 6 =4.'6.6 J < 1'4@ '41' .<7 1>1.' >.' 1.67.1 .< >.ZO >4 ' -<7,8 ;7 >.' 6 V 7.< 1 641 5" >.E.<6 - .8 ; .' =4 ' .67 4 ' '1 / 67 ; .' >.' E' 78 ?4 6=4 5 ;67 ?546 =4.' ?1,0'O5.' =4.' 5.6 '1#6 , .' - .<>1,<7 ?'6 5.6 ' 5'=4.1

L K

' 'F ' '* ! ' +' < " ?40 7 > .5 '55 ; .' ; '5" >.M ;5'1'7 ,< 6< - '<7.Y ?,17'<7 ' / < 67 .' J.<>1'5.' ?,41 <,71.' ?1, - <; .I

I W '1 . #:1 67 <.8 .7; 8 50.178 .7; 8 5 .47.<'<76J,4\ 7.1<.416 .7 ; '? 7' <.6 J.<.1'4@ >.6 'V6 K'68 .7; 7 $. / ?.1.41 " E' 7 '66.0 .>' .1 5.6 6.<7 / .<76 >,' ; .G / .<; .' .7 >.' / ,>.1'7 ,<=4 ' '< / .<7 N 5.'?546 '1>.<7 >.'6.6 -,.4@ .7' 7 =4.8 5,47.6 5.6 ?1, - <; .6 0.5J =4.6 1.< ' 1'<7 6,46 6" >, / <'7 ,< .7 6,46 6,< '45,1 7.' 5. 7 / .' '4 7.1 / .'5 @.8 5.6 .-.<. / .<76 ?466.6 E 66.<7 .<6.-; 6 >=<6 4< ?1,E, / ' ,40 18 .7 =4.'7,46 5.6 ;1 / .68 >.5 76 .7 >.6,1>1.6 ; , / / 6 ; .<71.' 1'47,1 7.'5.J 7 / .' ?.<>'<7 5.'7. / ?6 / '5' :.41.4@ >.6 71,405.6 ?466.<7 .71.' . ' ;.6 ?'1 4< ' ;5.' ;5 ' / < 65 ; J.<.1'7. #.6 - ,.4@ >. < ,<7?'6 > > .< ' 7 .1. <.<5 1. / ?5 6I ,< " / > ; ,<<4 ?.<>'<7 =4.5=4.'7. / ?6 ;60 .<6 =4 ' > ' / 7 , .176 ?'1 6" 0, 7>I / ' 6 .< < 5.' 7. / ?6 .67 -.<4 ,0 <,46 <,46 - ,V,<6 ' -.;'4<.'6'7 6E';7 ,< .@71. / .'>'<6 5.' ; '6 >. ?, - , 1 ; , / / .<; .1 ?'1'5" ?1, - <; .' 7 .' B' <'47 '>,<<.1 4< 5 01.' ; ,416 '4@ >.66; <6 J><>1.4@ >.' .6 1, 6 ,1>1.6 >.6 > '56 >.' ; .75.'?1, - <; .' 'V'<5 > .'>.6 ?1. / .16 O 7.1 / <.1 ?'1 4< '11'<J. / .<7 J.<>1'7 7,47 ; .'=4 ' ?,4-0 77.<>1.'01.?'1.1 5.6 / ' 0;<16 ?066>6 >7 0 1>7'O5 1 <; .66' / / .<5 5" 71'<=4 55 7.' .75" 0,<<.'0'1 / , ' .<.8 <,46 '-,<6 ' ; ; ,1> > .7 ?1 <,<.>8 '; 1>,<6 .7 ?1,G <,<=, 68 .< E' - .41'>.'7,46 5.6 0'0 5'<76 >4 B' <'V78 / ' ><05 '?'1E' 5 >.' <6411.;7 ,< .7 4<.' ' / < 67 .' .<7 >1. .7'0 ' 6,54.'>.'5, 6 5.6 ;1 / .68 >>5 56.5 >>6,1>1.6 >,<7 . 5.' " > > ' ; ; , / ?,J<>.' .7 =4 ' V ,<7 .= 1'??,178 E' 6'<7 >>E.<6.' '4@ ; ,<6. 56 E 6; '4@ .7 0 7,46 '471.6 , ; .16 >.' ^465 ; .' ,4 >.' ?,5 ; .' > .47'7<.1 0 ; : '1J.' >.6> 76 : '0 7'<76 '4;4<.6 ?,4164 5;68 ,4 >.'>,<<.1 64 7.'0 ; .55.6 >.Q0 <7. ,5>.68 >4 ; ; .E >.6 ;1 / .68 >.5 76 .7 >>6,1>1. '646 / ;<7 ,< .68 0 5 > ' J'1> >;6= .56 <,46 ;41 / ?,6,<6 4< 6 5.<; .'?;1?>5<. 3 , =4.' ; .4@ =4' ,<7 / '<=4.' '4@ >.-, 16 .7 .<J'J. / .<76 ; ,<71' ;5.6 .<-.16 1 > '<6 >7'7 / 5 7' 1.'<.'6, .<7?, <7 / ?1 6 >'<6 5" ?1>6.< .' ' / < 67 .8 < ,<6-,45,<6 0 .< ; .' ?.<>'<7 .5.<>1.' '4@ , > - >46 =4 8 'V'<7 ,05. '5.41 > / 66 ,< >4 6.1- ; .' / 5 7' 1.' ' - '<7 5.6 71,405.68 .7 <>' 7'<'?546 '4;4<. / .<7 640,1>,<<>6 0 5" Q41 > ;5 ,< / 5 ' 5' 1.8 ,<' ?,17> 5.6 '1 / .6 ; .<71.'5.6 71,4?.6 >.' 8 =4, =4 56 6;'E466.<7 .<J'J>68 ?'1 ;'1.-.16 =4 ,< .67 ,O5 J.' >.'>,<<.1 & / =4 75'<7 5.'6.1- ; .8 >.' <.'?'6 6.1- 1 #,<71.' 5' / ,<'1;0 .8 6, 6; ;77.'1.6.1- .' <>'< / , <68 =4 5<.5.41

6.1" ?'6 ?.1 / 6 >.'?1.<>1.' '4;4< 5 71.'<' 6 J<.'>65 <. E > ,E5 ; .18 ;7 = 56 <.' 6.1,<7Q' / ' 6 ?546 '> / 6 '4 6.1- ; .' / 5 7' 1.

' $ H' 7 0 K14@.55.68 5.'C)'Q4 55.7 (* 7 $' .6 > '76 >.'B4 <'45 'V' 7 >. / '<>.'0 >,?,5 >.' ;41 '; ; ,1>.1 >.6 5.771.6 > 4;51,0 ?,41 - '5 >.1 5" 5.-.' > '1J.<7 = B6 ,<7 E' 7.'>41'<7 5.6 >.1 . 6 71,405.68 / ,< < 0 5" 6, / / .' >.' *9U8U) E5,1 <68 ' 6,46 .7 C >.< .16 .7 >1 / 8 8 ?'1 4< .> 7 >4 C* Q4 55.78 '' , ;71,V.' 5" 5.->.'>.' 5'> 5.6, / / .8 ?,41-4 =4 56 ' .<7 0 .< 1;4>1.' ; , / ?7;

H # G

7E 5# 5 55 "

@ & ! A'

* ^ A ' ?W ' (*

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' ' ; ,1?6 / 4< ; ?'58 '?1>6 ' - , 1 .<7.<>4 5.' 1'??,17 >.'6.6 ; , / / 66' 1.6 '4 64Q.7 >.' 5" >>4,<; ' ,< ?,17. . ; ,<71.' 5.6 6 ;416 #,5 < >.' #'<;.VI ; , / / '<>'<7 >4 0' ' 7' 55,<>.' ?< ;,4178 .7 ; ,4-.< 8 ; ; ? 5' <.' >4 ; .<71.' >.' ; .' 0'7' 55,<8 ?'1 5.' 6 .41 '55'8 ; '? 5' <.G' >. '<'Q,1 >4 ' / > / .0'5' 55,<I

#,<6 >>1'<7N

p 34.'5.6 ; 7,V.<6 <.'>, - .<7 'Q, 47.1 E, ' '4@ >>< ,<; ' ' 5 ,<6 =4 , ?106 .'Q4J. / .<Q >.6 71 04<'4@8 =4 ' 6.'56 ? < ' - .<7 .< ; , <<' 71.I

'CG 34 4<.'>><,<; '5 ,< >><4..' >.'?1.<-.68 ?'1\>.-'<7 ' ; , / 7 >'>.'5" 6.;7 ,< >.' ,? <; ,4178 =4 ' < .< >7' 7 ?'7 Q4J.8 '' ; '46.'>.6 / ,4-. / .< 6 >'<J.1.4@ >'<6 ; ;57.'6.;M 7 ,<I

')p 34 0 5" 64 7.' >. ; .6 / ,4-. / .<76 5.6 6 .416 #,5 < >.' #'<#.V .7 5 ,4-.< < 6.'6,<7 -46 >'<6 / ?,66 0 > >.' 1. / ?5 1 5.416 E, <;7 ,<68 / 5 5' 1.6I

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UG <.' ; .75.' <5.114?5 ,< >'<6 .'6.1- ; .8 >.'>.4@ , G ; .16> 4<.'1.?47'7 ,< <7' ;7.'7.<>'0 >>714 1.'5" ; ,<E '<; ; >4.'07,46 5.6 ; : .E6 >.' '1 / 0.'?'1 6 .<<.I

G 34.'5.' ; , / 7 >.6 1'??,176 >.' 66. / 05>.' <'7 ,<'5.' 0 ?.<6.8 >'<6 6" 5.571.' >4 CUQ, 55.7 (* 8 '>1.66>.'0 5" / 4< ; ?'5 5> N W34.8 >'<6 5.6 ; 1 ; ,<65'<; ; 6 ' ;54;55.68 J 1,<- .<7 >.'<.'?'6 5' 66.1 '7E' 05 1 " ; ,<E '<; .'6 <> ; ;66' 1.' '4@ ; : .E6 >.' 5" E,1; .' '1 / >.I =4.' 5.6 .<<. / 6.;456 >.' 6 1>-,547 ,< >, -.<7 >>6 1.1 >.' 5.6 1.<>1.' 646?.;76 .7 >.' 5.6 ?1 - .1 >.' ; .75.' ,? < ,< ?405 =4.8 6'<6 '=4;Q5.'5.416 E,<;7 ,<6 6, 7 / ?,66 05.6I =4.8 ?'1 / ' 5.6 / ,V.<6 . / ' ?5,V>6 ?'1 ; .6 / > / .6 .<<. / 68 4< >.' ; ,@ 641 ;=<.5 76 ; ,1,?7.<7 5.'?5468 ; .67 >.'E'7 J4.1 5" J'1>.' <'7 ,<'5.8 >.' >>J, 37.1 ?'1 7,4 16 6,17.6 >.' 71' ; '66.1 .6 5.6 / . / 01.6 =4 " ; , / ?,6.<78 .7 > '55 >> 1 ?41 5 0 5.41 ?'7 .<; .' '75.41 ; ,<G 1'J.I =4.'>.6 ' ; ;46'7 ,<6 >4 J.<1.' >.' ; .55.'=4 ' " > > E' 7.' ; ,<71.' 5.6 6 ;416 #,5 < >.' #'<; .V ;7 ; ,4-.< < < .' ?,< - 1 .<7 =4. >>64< 1 16 ; 5,V ;<68 6. / .1 .<71.' .4@ >.6 >>G E '<; .68 .7 5.6 '1 / .1 5.6 4<6 ; ,<71.' 5.6 '471.6I "

>;5'1.'N p =4.'5" >>5 0>1'7 ,< >4 ; , / 0 >.'5" 6.;7 & " >.' ,? <; ,4178 '4 64Q.7 >.'5" >><,<; '5 ,< E' 7.'5.' 'Q'5G 5.7 (* 8 ?'1 5.' 6 .41 '55'8 ; ,<71.' 5.6 6 .416 9,55< > #'<; .V .7 " ; ,4-.<. / < 8 .67 55>J'5.8 0 .@; .?7 ,<7,45.E, 6 >.' '17 ;5.'=4 ' " 1.<-,V> 0 5" / 4< ; ?'5 5> 5" >>, ,<; '5 ' >4 6 .41 '55'I

$ CG 34.'5" >><,<; '5 ,< >4 6 .41 '55'8 1.?,6'<7 641 6" 6 / ?5.'>>;5'1'7 ,<8 .7 < >7'<7 '??7 V>.' 641 '4;4< 645 ; 7 > / , J<'J.8 641 '4;4<.' ? >. .8 <.'?.<7 ?1,>4 1.' '7E;4" .5 .78 .7 < " ?'6 >&7 <7.11, / ?1.' 4< <65'<7 5 6.1; ; .>; ' E,<;7 ,<6 / 5 5' 1.6 >.' ; ; 6 >.4@ &QE5 ; .16I

G 34 .< ; ,<6>=4.<; .' 5.6 6 ;416 #,5 < >.' #'<; .V .7 ; ,4-.< < ; ,<7 <4.1, 7 > .@;1; ;1 5.416 E,<;7 ,<6 / 5G 7' 1.68 =< 56 ,<5 7,<Q,416 1. / ?5 .6 ' - .;'0,<<.418 .7 >'<6 .@.1; ; '>.6=4.55.6 ,<< " ?'6 >0 5.6 71,405.1I

Up 34'<7 0 5" 1.?'1'7 ,< .7 '4@ <7>1> 6 ; - 56 =4.'5.' 6 .416 #,5 < >.'#'<; .V .5 0,4-;< '1>;5' / ;<5 ; ,<71.' ;41 >.<,<; ' .<18 =4 56 1,<7 1;<-,V>6 ?'1 >.-'<5 ' 104<' =4 ' >, 7 .< ; ,<<' 71.I 8 $

G #:'1J.'71>6 ;6?1. 6> / .<7 5.' ; , / / '<>'<7 J><>1'5 ># 5" J'1>.'<'7 ,<'5.' >.' - . 55.1 0 ;@>;47 ,< >4 ?1>6;<5 '1G 1>7>I =4 ' 6.1" / ?1 / >8 'E5 ; : >8 ;7 .<-<V.'4@ ; , <5>6 >;6 =4'1'<7. : 4 7 6.;7 ,<68 .7 '4@ 64 @'< ;'0'5' 55,<

K J<> * I 3 A A& !!

. ' ' 'F *

7 '% 5 ' ;<>48 '5 :>7.5\85; -5.'>.' '1 68 .6 8 * 8 W
'& 8 ' 7 6'>.' ;.' / , 68 ?,41'5" 6, / /.' >W *C8 ' -% >.'
>, / ' <.6 '5 ,<'4@8 ; ,<6567' 7 .< >@ 6.?7 / ' 6,<6 6 54 .6
>'<6 7 <5 1 .41'>" '1 68 '5 >,<5 5'6 .67 / '7 ,<6 ' -' .<7
> .'?,17 .6 " U 8 (?5 1%

' 'G' (A* A!))>A AF 'H Z4(
, ' ' , ' 9 ' ' '& A'
, ' ' AF 9

.66 .4168 5.6 ; 7,V.<6 =4 ' ; , / ?,6.1%7 5.6 >.4@ 0'7' 5'
5,<6 >.'5" J'1>.' <'7 ,<'5.'>.' ' '/71 '5, ' <6714576 =4 .<
;5'66'<7<,71.' -55%.8 ?'1V,71.'> ;1.7 >4 Q4 B.78 >'46 5"
?1. / .1.'5 J<.'>.6 ?5'; .6 >.' J4.11.8 5" <'7 ,< 611' 7 ,05 M
J..'>V .<71.7.< 18 ?,41 6" >.E.<6.8 4< 1.J / .<7 > <E'<'
7.1 .8 - .<<.<7 >" <,46 '>1.6 .1'5" ?.7 7 ,<64 V'47. =4.'
<,46 '1,<6 10, <.41%>.' -,46 ?1.6.<7.1%
' W5'<,46 .67 0 .< >,4@ >.'?1.6.<7.1' "5" /4< ; ?'5 .'
5.' -,'4 '466' E,1 / .5 >.' 6" J'1>.' <'7 ,<'5.8 ; ' -,4 >.'
V1' 6 >7,V. 6=4V' ' / .<7 5" ?'71 .% # .67 ?'1 -,71.' ,1J'<.8
/ .66 .41688 =4.'<,46 .6? 1,<6 =4.' 66. / 0 .' <'7 ,<'5.'
;,<<' 51" . ?'71 ,7 6 / .'=4 '<,46'< / . '<, 1.'6,4 / 66 ,<
'6.6 >.;1.768 ;5 <, 1.' ; ,<5 '<;.' 6'<6 1.6.1-.%%
$ c 5 -,468 / .66 .4168 =4 ' '5 .0 54' 71'<6 <.7 1.'5.' ?546
.0.1' >.'<,6 > 6 168 >5,6 54' '-.' ; .57.' ><.1J .'=4 ' - ,46
;'1'; .1 6.'7 $ R. / ? .' .67 <.<' ;> " 6." E1,7 7 .1.6f 5.6
E,1; ,6 >4'1 V'4 / .' V 6,<7 <. ; .66' 1.68 .5 ; .' 6.1' 5 > / '
4.1' 5.41' / '66.' > 4< 1>J / .<7 .<5 .18 6' 1.@7.45 ,< >4'
>. ;<d' >4' 'Q4 55.7 >.1< ' ;' >, < ' 5 5" J'1>.' >.' <, ' / 416
'4@71,4?.6 >.'5 J<.8 ' 66.0 <,46 >,<;.' < 1>?,<>1.' ' 5"
?'71 .8% .7 >.4@ 0'7' 55,<6 >.' ; 7,V.<6 E,1 / '<7 <,6 J'1>.6
<'7 ,<'5.6 V ?.1 1,<7 Q 6=4 '4' >.1< .1%8%% 1, 6 E, 6 5.6
.<<. / 6 <,46 ,47 'B.=4 68 .7 71,76 E, 6 <,6 ? 1.6 5.6 ,47
1.?,466.6%
'' ' 8 6,46 . / ? 1.'>4 >.6?,7 / .8 56 ,<7 -.16>5.41 6'<J
%?,41 ;' ?'71 .8 6 56 ,47 >7.' -' <=4.4168 =4.'?.4-.<7 5.416
.<E'<76 6,46 .7.<>'1> 6'.1> >.' 5" 5 0.1 .'a ,V.0 >,<.'
71'<=4 55.6%641 5.' 6,17 >.' <,71.' V 55.1' ; .<7 ; '<,<6 .< 0,1'
>.<7 5.6 1.1,?'1768 .7; .7'6?.;7'7,47 / ?,6'<7=4 5?4 66.'
.71.8 < .67 ?'6 6' 1.>,4 '05.' ' <,6 .<<. / 6 =4.' <,71.'
' / ,41'?,41'5" ; ,<67 747 4<% .'6.1- ; .' / 5 7' 1.>.'71,4?.6
>.' 5 J<.8 '4=4.5 <,46 6, / / .6 ' ; ; ,474 / >68 =4;5=4.E'7 '
J'<7=4 56, 78 <,46 "7,40,416 ?'14' >J.1'>.?4 6 5" 1.-,M
547 ,<% % % % %
E #, / ?5.@ >,<.' <<' 1>J / .<7 >.' ?546 ?,41'5" >.E.<6.'
%>.6 '451.6 E1,<7 >1.68 .5 5' 66.0 <,46 5.' 6, < >.' >.E.<>1.'
<,71.' 0.1 .% ,6 ; ..416 6.1'5.<7 ?1,E,<>. / .<7 'E5 J.6 6'
-,46 1.E46 .0 5.'>,<=4.'5" - 55.'>.' ' <7 '5,' 1.47 E' 1?>
5" ? ' 7 1 . %%
% .5 .6 8 / .%66 .4168 5.' -, .4 >.6 :'0 7'<76 >.' ' <7 '5,%
,46 -,46 '>1.66,<6 '-.;'5" ?546 J1'<>.' 6'7 6E';7 ,<f 5'
'<,46 6.1' 7 ?546 E5'57.41' .<; ,1.' >.' 5.' ,1' ' ; .4. 55 1' E' '
-,1'05. / . 7% .4 55.0 ' ; , ,1>.1' '4' ?'71 ,5 6 / ' >?1,4-.'
>.' <,6 ; ,<; 5,V.<6 5.' J ,1 .4@ '-'<7 J.' >.' ; ,<6';1.1'
1416 -. 55.6 .7 5.41' ; ,41'J.' 0 5" >.E.<6.' '<,6 1, <?'17 8,
%5'<> 6 =4.' 641' > '451.6 ?, <76>.' ,6 E1,<5 01.6 =4'71.'
%- <J7 >@W.?7 / 55.' J'1>.6 <'7 ,<'5.6% 6.1,<7 '7 5. / .<7
1>?'15 .6% ') g T
/ 6 1.6?.,54.46. / .<7 0 7,46 -,6 >0.1;768 ,EE1.'>.'
<,6 ; ,<; 5,V.<6 < .67 ?, <7 ; ,<71'> ;7, 1.' '4@ > 6?,6 7 ,<6
>.' ; .54'>4' 'Q4 55.71' .55.' < .67 >.7.1<' <..=4.' ?'1 5.' / ,7 E
>.'?1, ;41.1'?546 >.'E,1; .6 0 5" ?'71 .'?.<>'<77,47 5.'7. / ?6
=< .55.' 6.1" / .<' .>.8 .7;%
& ' , ' ' ' ' '

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9$) (.,/ -(4+.,((,' -(+ $(0.(/ $+.. ,(5 (('+#!'
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8 F ' FA' ' & '

9 +-. , ' 9 . % ' +8%;
, ' %5.66..1>7'11.6'E' 7 5.;77 1.' ' >1.66;6
> '> : .6 ,<%
% GG N' , >' 4<.' >1 . ' ?'1' 77= 7.55.' 5.' > 1. . '
7, 1.>4'> 671 ;7>. % <7 ! 1,< % / ,5 -.'4<.'>. / '<>.'
> '1 / .6 .7 >.' /4< 7 , '641' 5.6 / ,4-1 <.<76 >.6
71,4?.6 .6?'J<,5.6 ;' / ?. .6 641' 5" E1,<7 .1.8 .7 '< '
E ,<;.' =4.' 5.6 71, B?.%14@ =4 ' 6,<7 >.% '471.' ;>5>
>.6 V1><. .6 6,<7 < .<' ;>6 > >71.' ? 55.68 .7 =4.' >>Q"
5.6 ,4-1 .16 .<' ,47 > > ; :'66>68 6,46 5.' ?1>7.@7.'
=4 56 '-' .<7 '0'<>,<<> 5.41' 1.5 J ,<8 -.16.' ;'
6'<J' >.' 5.416 ?1>71.68 .7 ; ,<-.17 '5.416 ;J5 6.6 .<'
.;41 .6%
.' ;1, 6 =7 ' ;67 ?14>.<78 ?,41' > 66 ?.1' 5.6 <M
=4 .74>.6'>.6 : '0 7'<76'>.' ; .' ' 671 ;78 >.'5.41'>,4 '
<.1'>.6 '1 / .6 .5'>.6 / 4< 7 ,<6I' / '76 Q.' ;1, '>. - , 1'
1' 641.1' H 66. / 05>;8 .< ,06.1-'<7=4.'5" > E5 ;457>'
>.6 ; : . < <6.67 7.55.8 >.' ; .' ;>7> 5'8 =4.'1,47.' 1 ;41Q
,< .67 / ? ,66 05.8 ?4 6=4 ,< <.' 4 7'>> 5.1' ? '1'
5.6 J,1J.6 >.6 <,<7'J<.6 = 4< "4< 8 ;7=4 4<.'?, '
J<..'> <# < / .6 #.41'J.4@ V ?,411' 7 '11>7.1' 4<.'
'11'>.% #, / / .<7 > ' 5 .416%G5.6 71,4?.6 .6?'J< 5.6
?, 11' .<7 .55.6 6.' : '6 1>.1' '' .<51.1' .< H1'<; .Z'
.6 <. J.6 =4 ' ; ,4-1.<7 5.6 ?'66'J.6 >.]' 5.' / , '>.'
6.?7. / 01.'6.1' .<7 4< ,067';5.' <- <; 05.' "5.41'1. '
7,41% %
+ % 55.1V E' 78 '4'<, / '>4' ; , / 5.'>.'5" / '1 <.8
5.' 1'??,17 >.6 1>;5' / '7 ,46 E' 7.6 ? '1' % . J1 .18
5 .47.<'<7 >.' -' 66. '48 ; >. -'<7 ; , / / '<>'<7 ;'
-' 66. '4' 7,' H' ; ,<7.8 ; .<71.' 5" E,1 / '7 ,< ;7 5.6
?1, .>>41.6 > 4< Q41V8 ; ,<-,=4>' "5" 64 7.'> 4<.' <M
6411. ;7 ,< '11 -. .' >'<6 >=4 ?'J.' >.' ; .5 ,5 E ; .1%
<.' >.5 0.1'7 ,< 55>J '5.8 ?1 6.' ?'1'5.6 ,EE ; .16 >;'
5" / '1 <.'>.' , ; : .E,178 ; ,<71.' % >J1 .18 1.<>'<7
5.' ; ,<6. 5 >.'5" / '1 <.'1>;46'05.8 % 5.' 1'??,17.41'
?1,?,6.'>.' '47,1 6.1' '6.'?,41V, 1' '4 71 04<'5 >.'
;'66'7 ,<%
#.77.' ?1,?,6 7 ,< .67 '>,?5>.%
+' %5.' / < 651.'>.' <5>1 .418 ?1.6.<7 " 66. / '
05>.8 <E,1 / .'>4' 64; ; .6 >.6 '?1 6.6 ' '
; , / / 66' 1.6 ?'; 5 ; '7.4 ' .<-,V.6 " ,1 . 7% +'
66. / 05>.' '<7,1 6.' '' >;1 1.' ' ; .6 ; , / / 66' 1.6
4<.'5.771.'>.' 6'7 6E';7 ,<%
% .5.66'178 ?1.<'<7 5" ?'1,5.' '4' : ,1< >4'
/ < 671.'>.'5" / '1 <.8 E' 7 ?'17 " 66. / 05>.'>.'5"
/ ,17 >4' 0.V > 5J. 8 .7 >.6 > 6?,6 7 ,<6 71E.6 ' / '
;'5.6 >.' 6,< 64; ; .66.41' ?,41'5" H1'<; .% ' '<<,<; .'
=4.' ; .6 > 6?,6 7 ,<6 6,<7 7.55.6 =4.'5.' <,4-.'4' 0.V
>>6 1.' =4.' ' / 0'66'>. 1'%=4 ' >, 7 '<<,<; .1' ' 5"
% ,17. . ,< <'4J41'7 ,<V6, 7; ,<>4 7 ?'1'4<.'E1>J'7;'
E1'< ' 6.%
66. / 05>.' '47,1 6.'5.' / < 671.' >.' 5" / '1 <.' >'
1.7 1.1' 4<.' >.6 E1.J'7.6 .< 67'7 ,< .< #,16.' ?,41'
E. / ?5,V.16.5,< 5.' -,.4 >4' 0.V > 5J.1%
+ ' % .1< .1?1. 6.<7.8 '4'<, / '>4' ; , / 7> >.6 E M
<'<; .6 8 5.'5 71.'>.'5" 71.6,1.1 .'<'5 ,<'5;'1.5'7 E '5"
; , / ?,6 7 ,< .6 041. '4@ .7 '4' 71' 5. / ; 7 >.6 # / '
?5?V>6%
,46'>,<<.1,<6 >'<6 4< ?1, ;5 ' < < / >1,' ;6'1 '
7 ;5E 6 >. .1.7.6% 8%
+' 66. / 05>;'1.<-, .' '4 ; , / 7>'>.6 E <'<; .67 <.'
/ ,7 ,< >.' % '5,4.78 7.<>'<7 " ,05 J;1' 5.6 ,1 '
>,<<'7.<16'>.6 > EE.1.<76 > ?'15.< .<56 ' 1;<751.' Y<'
; .66' / / .<7 4< ; , / ?7.'>;' .1'?5, '>.6E,<>6 & '
'' 5.416'>. ?'17. / .<768 .7 5.' 71.6,1 ;1'>.' ;@71',1> '
<' 1.' ">,<<.1'4< ; , / ?7.'J;<>1'5 >;'5" / '<47. '7 ,<
>.6 '66 J<'76%
"6>'<; .' .675.->;'> > @'5 .41;6%

U

#' ' ..# 7 (' %

% ZE ! , ' ' .' > ;1.7 >4' 5 '>?#.< 01E (* 8
=4 ' ,1J'< 6.' '17 5;1 .8 ? 17.' =< 5 V '41'' =4' '
1'<7. [4@ E.-.6 '' 64 7.' >.' ; .' ; ,1?68 .7 =4 56
611,<7 1'66. / 05 6 >'<6 4<.' >; ,5;' >.675<..'?,?1' ; .7
F 0Q.7%

,41' 6.' ; ,<E,1 / ;1' '' ; .75.' > 6?,6 7 ,<8 ;7 ?,41'
1.< ?7 1'5.' 0 '7 >.' 66. / 05>.8 5.' / < 671.' 6 .67 E' 7
1.<>1.' ; ,< ?7.'>.6 > -.16.6 &5.< '<>.6 =4 ' <' ,<7
'11 ->.68 .5 6 <J45 .E. / .<7 >.' ; .75.6>.6 1 55.6 >8.'
,47 .7 #: 5,<68 =4 ' 6.' > 6?45' .<7 ; .7 >7'05 66. '
/ .<7% ' '' .1 -,V>'641'5.6'5 .4@4< ,E5 ; .7 64?.1 .41'
> ' ; ,1?6 >.' '17 55.1 .8 / 4<' >.'7,47.6 5.6 <6714;M
7 ,<6 <>;.66' 1.6% ?1>Z& .@' / .<'5.'?546 .@' ;78 ; .7
,5E ; .1' ''1'??,17>'>.6 ?5'<6 .7 >.6>.7' 56 =4 ' ,<7>7.'
'> 6;47> '>'<6 4< ; , / 7.'> ,EE ; .16 J><>1'4@>.' '1 '
7 55.1 ;8 >4' J.< .' .7 >. ''471.6 '1 / .6I ,< V .67 ; ,1 '
-.<4' '5'' ?1.6= .' 4<'7 / 7.' =4 ' E'' - 55.' >.' #:>'
5,<6 >.-' 7'??'17.< 1'5'' ?1>E>1.<;.% B.'1. 4< '7,<6
6' '-'<7'J.6 =4.>. / '<>.' 4<.'7.55.'>; ,5.I .55.%.65
,' ?.4 ?1E.6 >4 ; .<71.' >.6 >.?'17. / ;<76 1>?47>6 5.6
%?546 / 5 5'51.6I .55.' .67 ,1> <' 1. / .<76'<6J'1< 6,<
&; 1; ,<67'<; .'?1. ; ; 6.P%

#:>5,,6 ?,66.>.'> ' 5E.416 >. ' . > >; .6 <'7 ,<'4@
71 6 ?1,?1.6 ' ; .7 >7'05 66; / .<7I 7 6 ; ,<6 67.<7>'<6
5'' 5 ' 6,< >4 6. / <' 1.' <,4-.5 / .<7 ; ,<6714 7.' .7
>'<6 '00'V.'>.' ,466' <7 Q '4@=4.55.6 5 67 E7 1''
>.'1. 1' 4<.' <' 6,< ?'17 ;45 1.8 =4 ' 5.' 6.1'' ?'6
> 4< ?1 @ 71.6 >5.-.8 ?4 6=4 5 ?'1'E7 =4 5 6.1'' >.'
' '' C 8 '7 -%

.' / < 671.'>. / '<>.' 4<.' , / / .' >.' ',%, ,'5 -88
7'<7?, ; .77.' ' ;=4 6 7 ,< =4.'?,41'5.6 1.?'1'7 ,<68
5.6 > 671 047 ,<6 75.1 .41.6 .7 5'' 7,7'5 '>.' ' / .4 '
05. / .<78 .7 E5 .< Q467 .' 5'' <.; .66 7V ?'1' >.6>.- 6
E,1 / >6 7'<7?'1'5'' ; , / / 4<.'=4.'?'1'7 < ,E5 ; .1'> '1 '
7 55;1 .' '4= .5 5 '' >,<<.' ,1>1.'>.'6.' 71'<6?,17.1' ''
: '5,<6N ; .6 ? . ; .6 ,<7 .7> 1' 6.6 6,46 5.6 V.4@7'<7
>4 ; , / ' / 5 7' 1.'=4.'>.' ; .54 '> . / ?5'. . / .1778 .7
; .67 '4 <, / '>.' ; .6>.4@ ; , / 6 =4.'Q ' ' : ,<<.41'
>.' -,46 .< E' 1.' 5.' 1'??,17% B 5.41' '' ?'1< =4.'5.'
; : , @ >< 5, ;'5 .7' 7%0,<8 5'' > 6?,6 7 ,< 6'J.' .7 a <'
7.<7 ,< >4 >. ;1.7 0 .< 1. / ?5 .% '1' ' ,< 64067 74.'
7 <.'5 5 ;.' ' '471.8 >.6 J4.11 .16 '>.6 - 7.6 N ; .'
6.1'' 7, Q,<16 4< JV / <'6.' ,E7 Q .@.1; .1'' 4<.' '471.'
.5'66.' > '7: 7.6I 5.6 : .1,6 ,<7 '466 ' 5.41' 6. / M
<' 1.%

,71Q.' ; , / .' -,46 ?1,?,6.' > '47,1 6.1' ; .57.' <, '
=4 6 7 ,<%

.'?1,Q.7 >.'>. ;1.7 >.' % 14J<,< .67 '>,? %

+' 41' '1'??,17>.' % 5.@'<>1.' K.'45 '1<' 6 8
8S.'>>;1.7 64 -'<5 .67 1.<>4 N

' $ 66. / 0 .'<'7 ,<' 8 '?1 6' '-, 1'.<7.<>4 6,<
; , / / 5 7' 1.8 >>;1 7.'=4.'5.' <, / 01.'>.6 J'1>.6
<'E ,<' ;6>.67 >.6 '5''>.E.<6.'>.6E1,<7 .1.6>.?4 6
K 7; : Q46=4 ' K.E,17 6.1'' ?,176 >.' : 4 7 / 5 ' : , / '
/ .6 '' >,40.' / 5 %Y %

% ,4667 7 ' I '1'4<.'>.6 .11.416 ?,5 7 =4.6
6' ,1> <' 1.6 ' '<; .< J,4-.1<. / .<78 .71'<J;1'
'-' 7 5'' E';45 '> '??,17.1'>'<6 <,6 ?,1768 .< .@. / ?M
7 ,< '06,54.'>.6 >1, 768 6' 7, 5.6 ?. / 7.6 .7 7. <7.6
<; ; .66' 1.6 '' <,71.' ; , / / .1; .'> < =4.'8 %.7 ,< 1.1'
E46' 7 5'' / / .' .@. / ?7 ,< '4@ 4 <..6 05'<; : .6 >.'
<,6 1;7,416 >.' <>.' >.67 <..6 '' >71.' / ?1 / ..6 .<
1'<; .'?,41'5.' / > <.' ; , / / .1; .'> E1 =4.% ' .< ; '
6457.'=4.' <,46 <.' ; : '1J ,<6 ?,41'5'' ; ,7.' >S E1 = .'
'=4.'>;6 7, 5.6 ?. <7.6 .71'<J 1.68 .'6.'5 ?,17>.'
'<7.6.<.<-,V' 78 6: '=4.' '<<>.8?546>.'6, @6<7. '
> @ / 5 ' ? ; .6%

' #.'< '' .7.' =4 .< 5()) '=4. % 1 55'1>8 / '<4E'; '
741 .1' '' '<7.68 .67 ?'1-.<4 '' E' 1.' .<7.<>1.' '4'
J,4-.1<. / .<7 =4.'6 8 '< / ,V.<> <<.' .@. / ?7 ,<

>.'>1, 76 6<1' '7, 6 >.' ; ,7,<05'<; : .68 ?1,-.<'<7
>4 ; , / / .1; .'E1'<=' 6 >'<65 5<>.8 <,6 / ?1 4 . 16
<,4-' .<7 ,07.< 18 ?,41'5'' E,41< 741.'>.'5''. 7.'> '
11 =4.8 5'' ?1.E.1.<; .' 641' 5.6 / '<4E';741.6 .71' '
J 1.68 5 .< 1.6457.1' 7 4< J1'<>' '-'<7'J.' ?,41'
<,71.'<'- J'7 ,< .7 <,71.' <>4671 .%#.6,06. '-'5 , 6
/ ,7 -.1.<7 4<.' >. ; 6 ,< >4 / < 671.'>.6 E <'<;.68
$>4 C' '-1 5 ()) I .55.' .67 ; ,<;4.' .< ; .6 7.1 <.6N
.1 / 6 '' % 1 55'1>'>W 7 1.1'>.6 .<71.?,76 >.' , '
1 .<7 .7 '<7.6 6' J4 <..6 ?,41' 5.6 7. >1.' '' 5''
1.6.1-.8 ,4 .< <> .<<.6 ; , / / 4<.6 >.'7,47.6 ; ,4 '
4 8 '' 6,< ; : , @8 '5'' ; :'1J.'>.'5.6 1. <7. J1.1' .Q'
64 7.'>'<6 5.6 .<71.?>76 ?,41'5'' >.67 <'7 ,< >.' ! 4E'
:>.'I. 7' 5.6 >1, 76 =4 5 ?,411'' '-, 1' ' ;=4 77. 6 ?,41'
6> 7.6 J4 <..6 545 6.1,<7 1.67 74. 6 5,16 >.' 5'>7;'
1. < J1'7 ,<%8YA' ' ' % 8
'' / / .'E'; 5 7.' '' 7.' ' ; ; ,1>. .' '' > '471.6 / '< -'
E';741 .168 ?'1' <.' '471.'>. ; 6 ,< >4 9 4 4 >.' I
/ > 4.' '<<..' ())%

8 ' 4 / ,V.< >.' ; .77;'> 6?,6 7 ,<8 5'' H1'<; .' '' ; ,66P
> .71.'71 047' 1.'>.' .71'<J.1' ?,41'5'' / 'Q.41.'?'1'
7 .' >.6 7, 5.6 ?. <7.6 <>..66' 1.6 '' 6,< ; , / / .1.G
> E1 =4.% '' ; ,<6, / / '7 ,< >.6 7, 5.6 05'<; : .6 >'
<,71.' ; , / / .1; .'>.' 5<>.' .7 : ,71.' / ' < > ,.4-1.'6
,<7 ' ; ;14.6 >.' 7,47 ; .' ==.' <,46 '-0<6 .45.->'
.71''<J.1%# .67 ; .77.' / ' < > ; .4-1.'?'17 ;4' : .1.'=4'
>'<6 6' ?1. / .16 / , / .<76 >.'5'' 1>-,547 0<8 '4; '
;4?> ' '<7.6>.6 / 55 .16 > J4-1 .16 =4 8 6'<6 ; .57
01'<; : .' > <>4671 .8 .466.<7% >7.' ?1 - .6 >.' 7,4
/ ,V.<>.'6406 67'<; .% % ' %

'?1.6 ; .61.6457'76 ; ,<<468 ,< <.' ; ,<3, 7 ?''
; , / / .<7 5.'E.1 / .1'>.6 7'@.6 '' ?4 ,45, 1' '4 '<7'
; .77.' E'01 ; '7 ,< .< 1.E46'<7 '4@ 1,'<4E';741 .1'
>.' '<7.68 641' 5.6 J4 <. .6 05'<; : .6 ?'1' .<@ ' ; : .8
7>.6 >.' 1'66, ; '7 ' '5,16 ; ,<<4.' 6,46 5.' <, / ' >
#, / ?'J< .'>.6 <>.6 5'' 1.67 747 ,< >.6 >1, 76 = '
5.41' '-' 5 > ''6641>.'641' 7,47.6 ; .55.6 =4 56 / ?1'
/ .1' .<7?,41'5''#>7.'> E1 =4.% %5.'-,46 >, 6 ; , <?7
>.6 / ,7 E68 >4 E.1 / .1% '47 =4.'5.6 / '<4E';541 .1I
>.' '<7.6 ,<7 ?4 ' ; : .7.1' 416 7, 5.6 >4 ; , / / .1; .'
01.'8 56 .< ' ;=4 77' .<7 .4@ / > / .6% c.6 >1, 76 ' '
6,17 .'>.' .<71.?>7% 016=4 '1' 6,< >4 ?1 - 5.? .E1'
;546 7 >.'5'' ; , / ?'J< .'>.6 54>.68 56 ,47 >7> E'1; .6
>.'8) '??1,- 6 ,<<.1' .55.8 56 ,47 ; .66> >.?% V.1'> '
1.; 7. / .<7 ; .G >1, 768 ?'1; .'=4.' ; >7' 5 ; .77.'#, / ?'G'
J< .'=4 Q '4 / ,V.< > 4< '11'<J. / .<7 ?'66> '-.;'
5'' E.1 / .8 6.' ; : '1J.' 7 >.' 6' ' ;=4 77.18 .7 -.<>'7
$>1, 76 ?'V>6% .'E.1 / .1' .< '' ; ,<;54 =4 5 < V '-'7
?'6 5 .4 '' 1.67 7 .1' '' >.6 / '< 1' ;741 .16 >.6 >1, 76
>,<7 56 <.'?,4-' .<7 ?'6 1.?1.6.<7.1'>.'=4 77'<; .%%S
,71.' ; , / ' > 'J1 ;45741.' .7 >.' ; , / / .1; .' <''
?'6 ?4 ?'17'J. 1' ,? < ,< >.'5'' ; >.-'<7 E.14 ;J;1'
' 1'5.%] .6 / ,7 E6 6,<7 6.<6 05.6% '' >>; 6 4< ,07.<4.'
?'1 ' 1 55'1>'8 .7>7.<>4 .' '4@ '471.6 % '01 ; '<768
'-' 7 ?,41' ,0Q.7 > '5E1'<; : 1' >;6 >1, 76 5.6 J4 <..6
05'<; : .6 >4 ; , / / .1; .'E1,<; ' 68 >,<7 . / ?5, '>; '
-' 7 1. / ?5' ; .1' 4<.' = '<7 7>' .J'5.' >.'7, 5.6 ?. <7.6
.E1'<J 1.6% #.7 ,0Q.7 < '41' 7 ?'6 >7>'1. / ?5'6 8. '
>.5 < 7 -.8 5.6 E'01 '<76 .466.<7 64??,15.'4.6 >1, 5 '
'<@=4.56 >71'<J.1'< .7' 7 ?'6 '664Q.77'?,41'5.67, 5.6
/ ?1 / >.6 =4 5 ' ??017' 5 .< H1'<; .% 4< '<7 ;'
; 97.8 ; .77.' .@. / ?7 ,< <.' ; '46' 7 '4; 4< ?1.Q4> ; .''4
06,I ; '1' 6' 7, 5.6 7 1>.6 .< : 5'<; '>.'5'' #, / ?'J< .'
>.6 <>.6 < ,<7% E' 7 =4.' 1. / ?5' ; .1' ; .55.6 ?. <7.6
>71'<J 1.6 =4 ' >7' .<7 / ?, 7..6 .< E1'<; : 6.'>.'
>1, 768 '< ?1>Q4> ; .'>.' <> 671 ;'<'7 ,<' % '?1 6 '
; .6 ; ,<6 >.1'7 ,<68 -,71.' ; ,< 7> > 'J1 ;45741.' .7 >.'
Q; , / / .1; ;8 '?1 6 6 >71.' ; ,<; .17.' '-.; ' -,71.' ; , / 7>
>.6 E <'<; .68 -,46 ?1,?,6.'5.' ?1,Q.7 >%' 1.764 '
V '<7N % % 8 8 % $

W 66. / 0 ;'<'7 ,<'5.8 ; ,<6 >>1'<7 =4.'5''>>.0
6 ,< >4 / < 671.'>.6 E <'<; .68 >4 C' '-1 5 ())8 =4'
'' ,1>,<<.' =4.'5.6 >1, 76 ?'V>6 641' 5.6 7, 5.6 05'<

[illegible]

W % "7'@.'>.6'5.571.6'.7'?'=4;76'?'17'<7',4'Y1' 1 -'<7' >d4<' >.?'1 . / .<7' ?,41' 4< '471.' 6.1" 7" / < .'?,41'7,46'P;6'041.'4@'>.6'>.4@'>.?'17. / . 576% ' % '6.1">1.66>8'6,46'5"641-. 55'<;.'>4% / 6' 71.'>.6';,<71 047 ,<6?405 =4.68'4<.';'17.'>.'H1'<;.' , 5'6.1,<7' >>6 >6'5.6'?, <76' ;.<71.'>.';:'=4.8' >>?'17. / .<78' .7'5.6'041.'4@'>.'?,67.;7'05 6'>'<6' 5.5 1'.<;. <7.%

W % '6.1">.' Y> / .'>1 .66>'4 '7'05.' '> - 6>'.<' 6 @' / 55.':4 7';.<7'=4'71. - <J7 <.4E';'6.6Q' ' W#:'=4.'.'6.' <> =4.1"5"> 67'<;.'>4'?, <7';.<M 71'5'> 4<'>.?'17. / .<7' '4'?, <7';.<71'5'> 4<' '471.8' .7'5" 7'@.'>.'5"7.771.'6 / ?5.'> 4<'>>?'17. / .<7' '4<' %

W#.77.';'17.'.7;.' 7'05.'4'6.1,<7'>.?,6.''4@''.' ;5 -.6'>.' 66.< 05..'<'7 ,<'5.% <'>,405.'>.' 4<' .7'>.' '471.'6.1" '466'>.?,6.'>'<6'5.6''1;: -.6'>.' ?,67.68' .7>.6' .@PG<P?5' 1.6'E7 ;:>6>'<6'7,46'5.6'04M 1.'4@'>.'?,67.6%'

$' % '5 .'6.1" E' 5'46'J.'>'<6'7,?6'5.6'041.'4@' >.'?,67.68'?,41'5" 7'@.'>.6'5.771.6' .7'?'=4.768' =4.' > 5'?, >6'>.' / '1;%

d' % .1,<7'7'">.6';, / / .'5.771.6'6 / ?5.6';.55.6' 6'<6'.<-.5,??.8'.7'>,<7'5.'?, >6'< .@;.>.1"?'6'4<' =<'15> ,<;.%

$' "% "5.571.''-.;' .<-.5,??.8' <.'?.6'<7'?, <7' '4'>.5"> 4<'=4'17'> #<;.8'6.1" 7'@ .8'?,41'7,46'5.6' ?, <76'>?'1,V'4 / .8'4<'6,4'.<'64]'>4'?,17'>.'5" 5.7 '71.'6 / ?5.%% % A

$W "% ,47.'5.771.8''-.;',4'6'<6'.<-.5,??.8'=4'?'' 1' 71 1'.71.'>4'?, >6'>.'?546'> 4<'=4'17'> ,<;.8'6.1" ?.6>.%

' W"5% "5.771.' ,4'?'=4.5'?.6'<7'?546'> 4<'=4'17 ' >,E5;.'.7'4 >.66,46'> 4<.'>. / ,<;.'?' .1"4<.'E, 6' ;7'>. < .'5.'?,17'>.'5"5.771.'6 / ?5.%

Y "5.771.' ,4'?'=4.7'?.6'<7'>. / ,<;#' .5' / , <6' >.51, 6'=4'176'> ,<;.'?' .1">,405.'>.'5"5.771.'6 / ' ?5.%

W "5.771.' ,4'?'=4.7'?.6'<7'71, 6=4'176'> ,<;.'.7' / , <6'> 4<.',<;.'?' .1"71, 6'E, 6'5.'?1 @'>.'5"5.771.' 6 / ?5.% %%

W "5.771.' ,4'?'=4.7'?.6'<7'4<.',<;.' .7'4 >.6M 6,46'>.'; <='=4'176'> ,<;.'?' .1"=4'71.'E, 6'5.'?,17' >.'5"5.771.'6 / ?5.8' .7'' <6' "?1,?,17 ,<8'>.'=4'17' > ,;.' .<'=4'17'> ,<;.%

W" % ,47.6'5.6'E, 6'= .'5.'?, > ' >.6'5.771.6'04' ?'=4.76'>, <.1" 5 .4' " 4<.' E1';7 ,<'>.'6,48';.7c.' E1';7 ,<'6.1"1.51'<;. .>;'5"5'@Z

W" % ,16=4 4<.'5.771.' ,<'?'=4.7'41" .7.'7'@.' >'<65 4<'>.6' 041.'4@'>.'?,67.68'6" 7'@.'<.'?,411" >71.'' J / .<7. .'>'<6'4;4<''471.'041.'4%

$$" % 'V'41">'<6';:'=4.'>.?'17. / .<7'4<04M 1.'4'>;6 J .'?,41'5"1.>4;7 ,<'>.6'7'@.6E'7.6'4' >.6646'>4'7'1 E8' .7'5"1. / 6.'>.'5" 6415'@.'6.1"E'7.' $'4' 1>;5' / ' 7' '466 7>7'=4.'5" 5.771.' ,4'?'=4.7'>.' '7<@.8'6 5'V "5 .48' '41" .70'1.4-,V.''4'041.'4', 5' ' #7' 7'>1.66.%

$" % .6'?,176'>.'5.771.6'6.1,<7'?'V>6'; , / ?7'<7I8 / ' 6' 5'6.1" E 01.'"7,47' ?'17 ;45 .1' >.' 1.E46.1'5.6' 5.771.6'=4'54'6.1,<7''>1.66. .68'6'<6'?,4'-, 1'5.6'>>' .'.:.7.1%

' % W" % .'6.1,<7'7'@.6' =4 '4' 7 .16'>4'?,17' & @>' ?'1'5.'7'1 E'5.6'.;:'<7 55,<6>.' / '1;:'<> 6.68'?,41-4' =4.'5.6' ?'=4.76'6, .<7' ?1>6.<7>6' 6,46'0' >.8' ,4' > 4<.' <'< .1.' <> ;'7 -.'>.';.'=4 56' ;,<7 . .<7%' .'?,17'<.'6.1";.?.<>'<7'Q' / ' 6'4 >.66,46'>.';. ' 54'>.'5"5.771.'6 / ?5.%Y

41'7'17 ;5.' " ' 5'6 > .-.'4<.' >J.1.'> 6;466 ,<I' 5'.67' '<6';,<J" T

A' $' 17% " % "7'@.>.6 ,41<'4@.5'471.6E.4 55.6' ?>1 ,> =4.6'6.1"5" / > / ,'?,41'7,47'5.1,V'4 / .%6' ' -, 1N' ?,41';.4@'=4'?'1' 66.<7'7,46'5.6'Q,4168'>;')' >.< .16'?,41' ;:'=4.'E;4 55.'> / ?1.66 , 8' .7'?,41

5.6''451.6'>.'M?'>.< .16% "7'@.'6.1'>.' / , 7 >?,<1' 5.6' , -1'J.6'=4'<.'6.1,<7'= ;'> 4<.'>. / E.4 55.8' .7'5.6'64??5. / .<76'6.1,<7'7'@.6' .<'?1,?,17 ,<%$

5% A' ' '<6' >7'7'';74.58'=4.5= ;6'?'? .16' ; >.-'<7'?1 - 5>J . 68'7.56'1 ' ',! $ '

'% L ' '$ '?' . 7' ' 9'>.< .16'>.?,1Q' ?'1'E.4 55.'> <?1.66 , % .6''471.6'E.4 55.6'=4'?'M 1' 66.<7'7,46'5.6'Q,416'?' .<7')'>.< .16% #.6'7'@'7 ,<6' 6,<7?41. / .<7'10 71' 1;6I' 5'E' >1"=4.'>;6,1 / '6' .55.6'6, .<7'7 @..6'?'1' 4<.'5, % ,46' '-,<6'.@' / <.' 6',<'?,4-' 7' 'Q,47;1' " ;.'?1 @I' <' 6' <,46' '-,<6' 1.;,<<4'=4.';.'6. ' 7''55;1';,<71.'5.'047'>.' 66. / ' 0 >.8'6, 5'=4.' ,<' ;, 6 >.1.' 5" =4.67 ,<'6,46' ,<' 1'??,17'E 6;'58' 6, 5'=4 ,<'5" ;,<6 >.1.'6,46'5.'1'?% ?,17>.5 7 5 5>?405 =4.% ,<''4J / .<7' 7;.77.7'@.8' 5' < .67' '4;4<'?'? .1' ?405 ;'=4' ?47' >71.' -.<>4%

% K O N .'>.;5'1.'= .'Q.';1, 6'=4 5 .67'71.6' <7>1.66' 7'>.'E'-,1 6.1'5" ; 1;45'7 ,<'>.6'Q,41<'4@%' ' 6Q.' -, 6=4.'5.'?1 @'>4' E,17'>.6'Q,41<'4@'6.1" > 4<' - <J7 =4'71 . / .' >4' ?1 @'>.6'5.771.6% .'?1 @' < .67' 6'<6' &5447.'?'6' 64EE 6'<7' ?,41' 5.6' E1' 6'>.'5" ?,67.8' ;7'Q.'<.';1, 6'?'6'= .' .<-, ' >.6'Q,41<'4@' >, -.'> 1.' "5" ;:'1J.'>.'5" <'7 ,<%

% , ['5' , 1.';, / 7>'>.6';,<71 04M 7 ,<6'?405 =4.6' " .@' / <>';.57.'=4.67 ,<'>'<6'?54 ' 6 ;416';,<E.1.<;.6'7.<4.6''-.;'5.'> 1.;7, 1.'>.6'?,6' 7.6% 55';671>6457.>.';.7. " ' / .<8'<,< 6.45. / . 7'=4.8' ?'1'5.'7'4@'=4 ' .67'?1,?,6>8' ;6'E1' 6'>.'5"?,67.'6.M 1,<7'1E;,4-1>68' / ' 6'=4 5'V '41"4<'?.4'> .@;.>'<7% ,71.' ;, / 7>' < " ?'6' ;14'=4 5' E47' ;,<-.<'05.8' <' / > / .?,66 05.'> >7'05 1'4<.01'<;:.>.'1.-.<4' -1' ' / .<7'54;1'7 -.'641'5"; 1;45'7 ,<'>.6'E.4 55.6'?405 M =4.6% ' -,46' .@' / <.0' ;.7' ,0Q.76,46'4<'?, 7E>.% -4.'5 6;'5Q'Q.' -,46' > 1' =4 .<' '4J / .<7''<7' 5.'7'1 E8' -,46'> / <4.0'5.'?1,>4 78';<'1.<>' 7'5"; 1;45'7 ,<' >.'?E46 .416'E.4 55.6' / ?,66 05.% .?546' >J.1641' :'4 . / .<7'>.' 7'@.'?1 -.1' 7' >.'7,47'0><.5;.'5.6' '47.416'>.6'?1,>4;7 ,<6'?>1 ,> =4.6'5.6'?546'47 5.68' 7.55.6'=4.'5.6'Q,41<'4@'' 'J1 ;45741.8'>.'?:V6 =4.8' > : 67, 1.<'741.55.8'>.% / .>.; 1 .8'.7;%8'=4 8'?'1'5.41' <'741.8'<.'6, 7'?'6'646;.?7 05.6'> '-, 1' 4<' J1'<>' $'<, / 01.'>.'6,46;1 ?7.416I' .7'5.6'Q,41<'4@'=4.' , " '41' 7'?.47 >71.'.< -4.'>>;'17.1'6,46'5.'?, >6'> 4<' / ?>7' ,<>1.4@'6.1' .<7'?1>; 6. / .<7;.4@'=4.' '' - >.;41 ,6 7>' >4'?405 ;'E.1' 7'1.6 67.1"5"6417'@.% .16,<<.'>' 55.416'<.'1.-,=4.1" .<'>,45.'=<;8'>.' 7,46'5.6';, / / .1;.68';.54'>.6' >>.6'6, 5'5.'?546'?1.' ; .4@8'.7'Q.';1, 6'=4.'-,46'>.-.0'5.'E'-,1 6.1'5.'7,B' 7.6'5.6' <'< .1.6% & <''??5'4> 7%P

'15 ;5.' " ' .7'5.6'64 -'<76'6.<7'>.;1>5.6'?1.6' =4.'6'<6'> 6;466 ,<%

%' W 17%' " 55% .6'5 -1.6'01,;:.6'=4'6.1,<7' / 6' ' 5" ?,67.'6,46'0'<>.'<.'6.1,<7'7'@.68'?,41'7,47'5.' 1,V'4 / .8'=4 4' '6,4'5" E.4 55.% .6'5 -1.6'1.5 .6'<.' Q,4 1, 5> '4;4<.' / ,>.1'7 ,<%

$" "% '> / < 671'7 ,<'>.6'?,67.6'<.'6.1" ?'6' 1.6?,<6'05.' >.6' .6?.;;6' / ,<<'V>.68' / '7 >1.6'> ,1' ,4' > '1J.<78' > ' <' 76'.7''471.6'.5 .76'?1>; .4@'=4' '41' . 7'>7>' <6>1>6'>'<6'5.6'5.771.6' ,4'?'=4.76%

W" "% #.4@'=4'-,4>1,<7'E' 1.';:'1J.1'>.6'5.75106' ,4'?'=4.76'5.6'1. / .771, 7'4@'<1>?,6>6'>.6'?,67.68' =4'?.1;.-1,<7'>'-'<;.'5.'>,405.'?,178'.7'.<';:'1' J.1,<7'5.416'1.J 671.6%

$" " ' ,16=4 4<;'5.771.' ,4'?'=4.78';:'1J.' "5" ?,67.8'<.6.1"?'6'?'1-.<4' "6">.67 <'7 ,<'.<'H1'<;.' >'<6'5" =4 O' <.''4'?546'7'1>'>4'Q,41'>4';:'1J.' / . 78' 5.' .5 '1J.41' ,4' ;.54' "=4' 56' '41,<7' .5>' '>1.66>6'?,411,<7' .<'E' 1.'5"1>;5' / '7 ,<8'.78'E'47.' >.'1. / 6.'>.'5" 5.771.' ,4'?'=4.7'>'<6'5.' / , 6'>.'5" 1>;5' / '7 ,<8' '> / < 671'7 ,4'>.6'?,67.6'6.1" .<4;' >;'?'V.1''4'1>;5' <'<7' '5 -%

& ' ,(4 ,','-(" +, .(" - .'(,'-+.9(*,/ *!'
*+83(" ' * */'(.+ 4+., ,'$(. 8+ (-(X 4 .'
BI I' -((.'0+ (./ (' +- $*$',.+,$ *' '(.+.('4 *!'
'+) (-(+, ,+$ --(A'' (- *,3 3'(.+36+.9-(

W " " % '>/ < 671'7 ,< >.6 ?,67.6 5 @.1" 5.'
'>.6 6,40 4 Q.6 _k7Q '?,411, 7 71.' .@? > ..6 ?'1';:'=4.';,7 11 ;18'>.';0'=4.'041.'4'>.'?,67.%

$" " % .6 5.571.6 .7 ?'=4;76'>.67 <.6 ?,41'5.6 ;,5,< .6 E1'<;' 6.6 6.1,<7 'E 1'<;:56 Q46=4 '4' ?,17 >.'1; / O'1= . / . 5I 5.'?,17.<'6.1"'?'V.'.,<E,1/.' < .<7'47'1 E8.7C6,46.<646% 8

W " " % .65.771.6 .7 ?'=4.76 -.<'<7>.6 ;,5,< .6 E1'<;' 6.68 >.67 <.6 .7 1.< 6 '4@;, / / '<>'<76'>.68 <'-1.6 ?'1'5.6 > 1.;7.416'>.6 ?,176'>4'%;4' >.'5.41' >.?'178 6.1,<7 7'@.6 " U 6,46'>'<6 5.'5 .4'>'11 -..8' 5,16=4 56'6.1,<7>.67 <.6 ?,41'5.'?,17 >4'>.0'1=4.j' /.<7%

$'#.4@>,<7 7"'>.67 <'7 ,< 6.1" 46>5, J< '6.M 1,<7 7'@.68 .,<E,1 / . / .<7 '4'7'1 E8 "1' 6,<'>.6 > 6 ' 7'<..6 >4' 5 .4' >.' >.0'1=4.< .<7 ";.54 '>.'5.41'>.6M 7 <'7 ,<8 .7 C'6,46 .< 646%d ' 8 %

% W " " % .6 ;, / / '<>'<76'>.' <'1 1.6 ?'17'<7 ?,41Q.6 ;,5,< .68 ,4'>.6 ;,5,< .6 ?,41' 5" H1'<;.8 6.1,<7 7.<46'>.'6.';:'1J.1'>.6 5.771.6 .7 ?'=4.76 =4' 5.41'6.1,<7 1.1' 6 ?'1'5.'> 1.;7.41'>.6 ?,67.6 >4' ?,17 >.'5.41>.?'178.7>.'5.6 1. / .551.8 '466 7,7 5.41'11 ' 1. .8 '4'041.'4'>.6 ?,67. '>4'5 .4'>.'5.41'>.0'1=4.' /.<7%

W '5.41'6.1"'?'V.'.<H1'<;.'C 6,46 ?'1';:'=4.'5.7 8 71.' ,4 ?'=4.7 =4 56 1.;.-1,<7>.6 ?1.?,6E.'>.' '>'
P < 671'7 ,<8 04 1.< .771 <7 '4' 041.'4' >.'5"?,67.%

$" " % .6 5.771.6 >.' H1'<;.'>.67 <. .6 ?,41'5.6 H7'76 < 6 >.' / .1 =4.' 6.?7.<71 ,<'5.'6.1,<7 'E' E1'<;: .6 >.?4 6 5.'041.'4'>.'5.41' >.?'17 Q46=4 '4' ?,77>.' ,1 .<7%

%%' $.'?,17 6.1" ;,<E,1 / .''4'7'1 E% '6.1" .< ,471.' '4J / .<7.'>.' '5 -1.'?'1';:'=4.'5.771.' ,4 ?'=4.7 ?.' 6'<7 / , <6>4<.' ,<;.I>.' '5 -1.' '6,46 ?,41';.4@ ?.6'<7 4<.' ,<;.' .7 / , <6>.'>.4@I .7 ' <6 >.'64 7.8 ;<'4J / .<7'<7>.' '6>46 ?'1 ,<;.%

$" " % .6 5.571.6 .7 ?'=4.76.<-,V.6>.6 7'76 < 6 " ,1 .<7 ?' .1,<7 5.' < / .'?,17 >.' '5 -1.' ?,41'5" 5.771.,4 ?'=4.7 ?.6'<7 / , <6>4<.' ,<;.I >.' '5 -1.' '6,46 ?,41'5" 5.771.' ,4 ?'=4.7 ?.6'<7 4<.' ,<;.'.7 / , <6>.'>.4@I . <6 '>.64 7.8 .<%'4J' / .<7'<7>.' '6,46 ?'1' ,<;.%G

W5 6 ?' .1,<7 .< ,471.'5.'?,17 5@>'?'1'5.'7'1 E8>.' ,1 .<7"5.41'>.67 <'7 ,<%

$" " " % "5.771.'6 / ?5.'.<-,V. .>.'1 5.'>.'#,16. .< H1'<;.8 ,4 >.'H1'<;.'.< #,16.8 ?' .1"U 6,46 .< 646 >.'6" 7'@.8 64 -' 7 5.'7'1 E8 "1' 6,<'>.6 > 67'<M ;.6 > <7 0.6 '4'5 .4>.'6">.67 <'7 ,<8,4'>4'5 .4'>4' >.?'17 " <7 0.6% $ % % %

W " " "% '<.'6.1"1 .<';:'<J.8 =4'<7 "?1.6.<78 '8 5"7'@.'>.6 5.771.6 .7 ?'=4.76 '11 -'<7>.6 ?'V6';71'<' J.168 ,4'>.67 <.6 ?,41'.4@8 7.55.'=4 .55.'.67 5@. .'?'1' >.671' 7.6 ,<;,<-.<7 ,<6 .@ 67'<7'-;;7.6 > 7E.1.<76% ,E5 ;.6 >.6 ?,67.6 .71'<J.1.68 <,< ?546 =4 "1,05 ' J'5 ,<>.' 'EE1'<;: 66. / .<7 Q46=4 '4@ E1,<7 .1.6 ?,41';.17' <6 ?'V68 1.6457'<7>.6 ;,<>7 ,<6>.6> 76 71' 7.6% $ ' A

W " " " % .'?,4-, 1'.@ ` 47 E.67'47,1 6 ' " .<7' ' / .1'>.6 <. J,; '7 ,<6 '-.;'5.6,EE ;.6 .71'<J.16 ?,41' .<71.7 .< ,4 .'1.<,4-.55. / .<7>.6> E .1.<76 71' N 7,6 =4 ' .@ 67.<7 '-.;' .4@8 ?,418 641'5.' ;, / ?7.'=4' .< 6.1"1.<>4 '4' ;,1?6 5.J 65'7 E8 71.'?'1'54 '>>E < ' 7 -. / .<767'746 ;.'= 5'??'17 .<>1'% G' d

% 5.'1'??,17.41'?1.6.<7.8 4< ?1,Q.7>.'7'1 E'E @'<7 5.'?,17 >.6 5.777 ;6 .<-,V .6 > 4< >. ?'17. / .<7 " 4< '471.' ' '6,46Q46=4 " V <J7 5 .4.6 <;546 -. / .<78 .7 ?1,J1.66 -. / . 7 "7 6,4'>.'?5468 >.'> @'5 .4.6 .< > @'5 .4.68 >.' <'< .1.'=4.8%?,41';.<7 =4'71. - <J76 5 .4.6 .7 '4'>.5'8 5.'?,17 6= 7>.'5 ` 6,46 ' d

546 .416' / . / 01.6,5 6.1-.<7 =<.8 6 5.601' 6>#' 71'<6?,17 >, -.<7 '4J / .<7.1'.<'1' 6,< >.6 > 67'< I' ;.68 /? 7 >, 7 >71.'5.' / >/ .'?,41'7,47.6 5.6 > M 67'<;.6I' =4 .<' ;,<6.=4.<;. 4<.'?'17 .'6.45. / .<7 >4' ?,17 >, 7 '4J / .<7.1'.<'1' 6,< >.6 > 67'<;.6I' =4.' > ' 55.416' 5 V '41' 7 >.' <;,<-.< .<7 " >,4M 05.1'7,47 " ;,4? ;.'?1 @'>'<6 5.6 - 5c.6 >.';, / / .1;.88 =4 8 ?,41'5"#, / / 4< ;'7 ,< '-.;' '1 68 Q,7 66' .<7 > 4<.' / ,>.1'7 ,< ;,<6 >.1'05.%

% H.1 / =< ?1.6.<7.' 4< ' / .<>. / .<7 7.<>'<7 ' > - 6.1' ;.' 7'1 E . ' 71, 6 ?1,J1.66 ,<68 'V'<78 14<.8 ?,41'.@71. / .6 - <J7 .7=4'71. - <J76 5 .4.68 .7 ?,<1' 1'E., ' '1 7: / .7 =4.8 > @I' '<71.8 ?,41' 71.4 .6 =4'71. - <J76 .7 ;.<7 - <J78 '-.;'4<.'1' 6,<'1 7:< . ' 7 =4.'>; - <J7I ;7 5" 71, 6 . / .'?,41'?1. / .1'7.1 / .8 ;.<7 - <J78 ?,41' ' ;.<7 =4'71. - <J768 .78 4<.'1' 6,<>. 71.47.% % % % % %' %%

?1.6 5 <.'5 .1.'> 6;466 ,<8 ;.7 ' / .<>. / .<7 .67 % '>,?7.%

.'7'1 E.67.<;,<6.=4.<;.'>.;1>7.'.<;.67.1 / .6I

< !' ' ! ' / ! -' , %
' / !

W " " "5E% '<6 <7#1 .41' >4' <5 <.' >#?'17.< .<58 6,46I ;,16 > '>#?'17. / .<78 .7 46=' .' - <J7 5 .4.6 <;546 ' V. / .<78 '6,46 >.' - <J7 " 71.< .8 >I' >.' 1.<7.'2' =4'1' E' 55.8 (I' >.' =4'1'<5.'.' ; <=4'< .8 I' >.'#<=4'<.' ' 6, @'<7.8 *I' >.6, @'<7.'=4'71. - <J768 I' >.=4' :1 11 J56 ' ,.<78 ' ' >.';.<7 ". .<7 - <J78 C >.' ;.<7 - <Q ' '7. 7 .<=4'<7.8 I> .' ;.'<=4'<.' " ' .<7=4'71. - <J768 5 I' >.'; .<7 =4'71. - <J76 .5 '4'>.7'8 '6,468 e

W " " " % '>< 671'5 ,< >.6 ?,]7.6 .67 '<7,1 6 .' 'G E,1 / .1' >.6 #7'06 66; / .<56 >.' ?.7 7.'?,67.' >'<6 7,46 5.@' 5 .4@ ,.' .55.5.04J;1'<>;.66' 1.%

W .6 5.571.6 ?,17#.6 ?41' ;.6 ?.7 7.6 ?,67.6 6.1,<7 7'@U.68 6'-0 1I % 8 ' 8

" "5.771.'6 / ?5.8 ?,41' <7>1 .41' >.'5" - 5 ;8 C 6,<6I 5" 5.771.'6.1" 1#?47#.' 6 / ?5.' Q46=4' ' ?, >6 >4 ' .<;.'I ;7 5,16=4 .55.' ?#6.1" 4<.' ,<;.' .7 / , <6 >.'>.4@8 .>.'6.1" 1'@>.' 6,46I >4' ?, >6 >.>.4@ ,<;.6.7 / , <6>.'71' 68 I' ;7' <6'>.'64 7.8 .< '4J< ,<7'<7>.' '6%?, 1;5 '=4.' ,<;.%

,41'5.'6.1- ;.'>.'5 '11,<> 6%6. / .<78 <54@.'6.1'8 6' ' -,71I 5" 5.771.'6 / ?5.8 '6,46I '4 ?, >6 >4<.' ,<;.8 I' >.4@ ,<;.68 (I' ;7 ' <6'>.'64 7.8 .< '4J / .<7'<7>1 '6,<6 ?,41' ;5 '=4.' ,<;.% 8 %

% GGGE' 78 '4 <, / '>,';, / 5 '>.6 E <'<;.68 4<'1'?G ?,171.5'7 7 "5" 1.;5' / '7 ,<>4<.' <>. / <7#>.' ' / 55 ,' [illegible] -%8 E' 7. ?'1'5.6 '<; .<6 1#J 66;416 >.'5" ; >,\' -'<7 ?1,-<;.'> 15, 6%

66. / 0 ..'1.<-, .';.77.' - >' / '7 ,< ?': >.-'<' 5.6 7E 0<4'4@%

"6 '<;.' .67 5.- .' '>.4@ :.41.6 .7 >. / .%

' ' ' ' ' ' '

U 17% 5G1% 41'5.6 C / 55 ,<6 >.'E4<>6 >.' < < -'5.,1' =4'6,<7 ' 5" > 6?,6 7 ,< >4' ;,1?6 5 6547 E8 5 6.1" ?1 6 " / 55 ,<6 C) 8 '5 -% ?,41'5.'>.J1 -. / .<5 >.6 ; <71 04M 7 ,<6 E,<;5 1' .7 / ,05 1.8 6'-, 1'N ' / 55 ,<6 C) 8 '5 -% 641'5" ;,<71 047 ,< E,<; 1.8 .7 () 8 ' % 641'5" ;,<51 04' 5 ,? 1",05 1.8 5.6=4.55.6 6.1,<7 1 ?'17 . ' ' <6 '=4 5 64 78 6'-, 1N

' 4 >.?'17. / .<7>.6 '<>.68 8 ' %
% &' 4 >.?'15. / .<7>.'5" B'47. ,1.8 98 ' '
W ';.54'>4 #?<7'58 C 8 ' %
W ';.54'>4' 4V>. / .8 ()98 %
W ';.54'>.'5" B'45. 5.<<.8 98 %
W ';.54'>.'5" #,11.0.8 9 8 ' %
7' ';.54'>.'5" #1.40.8 % ' %
W ';. 7'>.'5" #:'1.<7.8 C U8 %
W ';.54'>.6 B'45.6 5?.68 9(8 8
Y ';.54'>.' 40.8 C C8 ' 8
' & ';.54'>.5" B'45. '1<.8 C8 8
W ';74'>.'5" '1 /8 C 8 ' ' $
%Y ';.54'>.'E' 1> ;5 .8)8 ' ' % % %
" ';.54'>"041'8 98 %
' " % .6 > 1.;5, 1;6 >.' >.?'15. / .<7E.1,<Q 5"% > 671 04'
5 ,< >;66, << .6 =4'5.41'6,<7 '66 J ;6 .<5 .'5.6 > 6 1 ;

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

) * ' "%&' '%' ,' - - & %

' ! B ' ' . ' ' " ' " ' ' ' '

=

H 53 %

+' '0' ':/;78 >.V > 5J.18 .67 / ,17>'<66" =4'71. 1<J7 4< E. / .' '<< .% ' "J,4-.1 >' ?546 >.'<<J7 ; ='4 % ' ' 66.5"5 . / , 1.'> 4 ' ;'1';7>1.' E1, >8 ;441'J.4@8 .7 / > / .' <719? >.% ,' 6 / ?5.' 6,5>'5 5 6 >5' 5 > . -' '4' ; , / / '<> . / .<7 ; : .0 4< ?.4?5.' . ,16' 1; 5.>5 E' 7 >.J1'<>.6 ; : ,6.6641 7 /' ?546 J1'<>' :>>51.% < 54' 1.?1, ;5 .' 4<.' ' -' 1 ; .' =4 ' 7;<' 7> .' 6,< ?1. / .1'> '7% <>5 =4 ' ' -' 5' ; ;4 / 45>> / / .<6.6 1' ; : .66.6% .'?1.M / .1 / < 651.8 .5> B'66'<8 J>' >.' ; <=0'<7.' '<68 "92 ?1, ;5'<>' ' 5" ?5' ; .' >.'K'0' '5 / .7 .7%. : ,6.'641?1. ' <' / .% .5>-'7 ?4 >.' . > B'66'< 6 .67 E' 7;'6'<6 71,405.6% <6.4'>.6 ; ,<7.?>'<76% 'J"> .66?' : 68 " >'11>7.'?'1 ?1. ; '47 ,< .7 ; ,<>4 7 ' =4'1'<7.' 5 .4.6 > 5J.18 >'<6 5" E,15.1;66.'>.' a'5'% < '6641.' =4.' 5.' <,4-. '4 >.V ?,15.' / .' ' / 7 .'E1'<; : ,' '5"<'7 ,< E1'<='6.%

` %

' 2 ' 'C9 (' +' %5.' ; , / 5.'>.'K,<>>% 6><'5.41 .7 / '1>; : '5>4 1,V'4 / .% .67 / ,17>'<6 6.67.11'68 >'<6 5" 4>.1 / '< .%

%5.' 0'1,<> @.<67 .1< .67 >>6 J,.' ?,41 / 3 671.'>4 1, ' '5" ; ,41 >.' 60,<<.%

,47 .67 71'<=4 55.' >'<6 ; .75.' ; '? 7'7.8 .7 ?.16,<<.'<.' ?. ,6.' =4.'5.'1,V'4 / .' 6.1" / ?5 =4.'>'<6 5.6 'EE' 1.6 >4 1.67.'>.' 41,?.%

.6 : '0 7'<76 >.'5"E1,<5 >1.'>.'H <5'<>.' ,<7 ; ,<.4 =4.5' =4.' '5'1< .' ' '??'1 5 ,< > 4<.' .6; '>1.'1466.1 / ' 6 ,< >, 7 > 1.' E,17 >5, J<>'>.'?.<6.1 =4 > 5.' ' 7 =4.5=4.6 -4." 0,67 5.6%

B a%

'G 2 & ' ' ' ' +' "E1 '5.' 'G & " E' 7 - , 5.8 5.'C98 >'<6 5" / .1 >4 ,1>P .55.'V E.1" >.6 / '<, .4-1.68 ; ,<0, <7. / .<7 ' -. ,' 5" E1>J'5.' ' 9 !) ?,41 46714;7 ,<>.6 ; '>.76 >.'5" / '1 <.%

%5.' 0'1,<>.' ; : 40'1 08 =4.'5.'1, ' "<, / / >6,< / ' < 671.' ?5.< ?,7.<5 < 1.' '4?1>6 >.' 5" 1>?405 =4.' >.6 1, ' - < ; .6 < .68 .67 ?'17' ?,41'6" >.67 <'7 ,<%

! %

$ ' ' + .'5 ' >< / , 6 ?1, ; : ' <8 5.6 > - .16 ; ' / ?6 =<.' ,<' ' ,1>,<<>6 6.1,<7 ; , / ?5.76%

% 5.' ; , / 7.' >.' ^=\7, ; 8 J.<.1'5 > '17 55.1 .8 =4 ' "6>' k,41<.'5,<J7. / ?6 ' .<<.8 .< .67 1. - .<4 >'466"5.11.'>.' 45.70V<%

%

'< ' ' +' ,47.6 5.6 71,4?.6 ?1466 .<<.6 =4.' ,< ' - ' 5 E' 7 - .< 1 >'<6 5.'1,V'4 / .'6,<7 .< / '1;0.' ?,41 1.5,41<; 1 >'<6 5.416 ?1. ; >>.<76%=4'17 .16 ; <= 1.M J / .<768 '4@ ,1>1.6 >4 J.<.1'5 > 5 6.>, / 8 1.67.<7 ; .?.<' >'<7 .< ; ,1.'641 .7'7 >.' ; ' / ?'J<.% < " ; ,<6.1- .' '466' ' ! 1'4>.< 0 .5 ' a, .< J60.1J 64EE 6' / / .<7 > '17 55.1 .' ?,41 J'1< 1 > @ '>,40.'0'77.1 .6%

' ! %

'H76<<.8 E.C ', 5E% + E% K 66; : ,E6 [.1>.1'.48 ; , / / .' ,< 6'578 ?546 .4165,<J4.6 ; ,<E.1.< ; .6 ' - .'<,71.' / < 671.% ' ?'1' 7 =4 '40,41> :4 ' 7,47.6 5.6 > ;45 .6 6,<7 7.->.6 .<71.'<,71.' ; ,41 .7 ; .55.' >.'K.15 <8 ? '1 1'??,17 '5" ?' ; M E ; '7 ,<6 I; 5" ,17. 57, / '<.8 ?4 6=4.' ; .'<>J, ; '7.41 " .@?.> .8 5.'C(04 55.78 ,< ; ,411 ;1 ' % >.' 4; ; : .6 < 8 ' - .' >; '<.4-.55;6 <6714;7 ,<6% .'> - '<8 =4 ' " '0'0>,<<.'6.6 <7.1. 6 '4@ ; ,416 '57 ..68 <.' ?,411" ?546 0'5'<; .1 ' ' ; ' ; .?7.1 7,47 ; .' =4 ,<54 '?1,?,6.1'I 6 <,< 5.67 / .<' ; .'>.6 ?546 J1'<>6 / '5: .416% %

-' ' + '< ' '.S

'$! ' ' * 2!' + .6 >.1< .16 ' - 6 >.' '7 6' 0,<<.' '6641.<7 =4 ' < .@ 67.' ?'6 .< ; ,1.'>.' '>.' / ? 1.'>'<6 'EE' 1;'>.6 ?1 < ; .6 ?,66.66 ,<<#6 .<H1'< ; .I 6.5,<7,47.6 5.6 '??'1.< ; .68 5 <.'?'1' 1" ?'6 >.'6' 97% .67 =4.67 ,< > <510>4 1.'>'<6 5.6 ?1 < ; ?'45.6 > < ' ?' ; .' .7 >.'K'1.450 >.6 71,4?.6 ?1466 .<<.6 ?,41'V E,1 / .1' 4< ; ,1?6 >.' =4 0; / 55.' : , / / #6I . .67 ?.47 .71.' 4< ; ,<M 7 <J.<7 E45<1 ?,41 5.' J1'<> ?1,0.7 >,<7 ,< <.' ; ;66.'>;' ?'15.1'>'<6 7.' ?405 ;%

" ; ,41 >.' K.15 < ' - ' 7 7,40,416 E0 7 >.6 > E ; 455 6 >;' ?'V.1 .< ? ; < 6" =4,7. ?'17 ' .<51.7 .< >.'5" #0' / ' 01.' <? 1 '5.'>; .705'1 8 / ' 6 .55. - .<7 >.'E' 1.'>.; 5'1.1 ' ; .'71 04<'5 =4 ' ; , / ?7.1 >4 5G <, - . / 01.' ?1, ; : ' < ,< ; , / / .<; .1" ' ' ; =4 75.1 ; .' ; ,<7 <J.<78 =4 'E' 7 4< ,00.7 >.' (8 *1 @>'5.1]%

%

' : 2'E.') ' - (' + .'0,' >.' 4 >.' " ?'66>' '40,41> 04 ' ?'1 ; #55.' - 7 .8 - .<'<7 > @ 5' #0'?.55.8 .7 '55'<7 ' '1<. / 4<> ;8 ,> 5 6 .67 . / 0'1=4> ?,41 1;7,41 ' <.1 ; 5, ; 0,5,P%

G

'C %+ " >. ;5'1'7 ,<>4 / '1 'J.'?1, ' ; : ' < >4 >4.'> L,1 ' ' - . ; '5" ?1 4; .66.'H1.>>1 =4.8 E55.'>4 1, 8 " .7;' E' 7.' 5" ; ,41 5.' '04 55.7I 5.' / . / .0,415" ?1 <' ; .66.' " 1. ; 4 5.6 ; , / ?5 / .<76 >.'7,45.'5" ; ,41% 3.' / '1 'J.' 41" 5 .48 > 5 ,<8 '4 / , 6> , ; 5,01.I ,< 0.< 1" '5"1<> / .' >?,=4.' ; .54' >4 ?1 < ; .' E56 ' <>' >4 67'70,4>.1 ' - . ; ' 5" >.4@ > / .'E55.'>4 1, 8 .5 ; .54' ><?1 < ; .'0.1>> 7' 1.'>.' .68 6'4 ' - . ; '5" E55.'>4 ?1 < ; .'H.1> <'<>'>.' 1466.%

.'<,4-.'4 ; ,>.'?1466 .< - .45> > 1.'1.<>4 ?405 ;8 / ' 6 5 < '41" E,1 ; .'>.'5,' J4 ' >?,=4.'>4 G'04 <>.' '<4>;' ?1, ; 0' <.%

.67 ; .17' <=4.'5.'1,'< 1"?, <7 ; .55.' '<<>.' .< 1466.7 % % ? 17 1'8 5.' U>.' ; .' / ,568 ?,41 '57.1 E' 1.'5.6 1.-4.6 .< 5>6 .% 'V '41" 4< ; ' / ? ?1>6 >.'K1. 5' [I ,< V E.1" >.6 / '<. .4-1.6 ?.<>'<7 71, 6 0, 16% / 'C 8 5.' 1, '6.1" >.' 1.5,41 ' #: '15,55. 0,4 'J%

<.'?'15 .'>.' '15 55.1 .' ' ; : . - '5 .671. - .<4> ; '5.'C)'>.' ; .' / , 6%

' 9 &' 'U ' + ' < ?'1' 7 >71.' 71'<=4 55.' >'<6 5.' ,1> 641 5" >.67 <'7 ,< >.'5" E5,75 5 .' 1466.'=4 ' " ?'14 >'<6 5.'J,5E.'>.'H <5'<>.8 ?1>6 >.H1>>.1 .6 : ' / I ,< ?.<6.' =77 4<.' ?'17 .'>.6 J'5>1.6 1.67.' ?,41 7,40,416 >.' ; .'% .>7>%

$

.' J>'>1'5 1466.'>.' '05.< " ?'66> ?'1 ; .55.' - .8 7.' C >.' ; .' / , 68 - .<'<7> @ 5' #0'?.55.8 .7 '55'<5 7. ; ' : ,5 / %

$ %&%

' '0 ' 9 ' ' ' ' ' ' ' ' ' 5 ' ' ' ' ' ' ' ' ' BHET7 BHT I'3 ' (/ Q$ ' F' 0*%,' BHTB/ +0(3' 3(,(' (4$9.+4)(' ;

$ + +$" +' 0+*$,-' #$,' 5 (5*(')(.(U ' .' +' ,(. .(/ F' 4'#$.'3(,'#+3 .($! +' * - ,+$'5 +' ' ,

= '

' +,$'/ 36(U ('(**(' (,' +,,(8/ $) .+$.('/ + ' + +$'! 8+ ' BHTB' ..2 ; F' $0' F' '

%6+)$ +*,' - (' +.$'/ + ,(.' - ('3(, ,('3 . .('4 * - +*3(/ (' ,' (, .'*9(.7 $'(' ,' *) (/ - (3 .(/ $(' +0(3', ,' (' 3 .4" - $4 1 +,$5 ('7 ((' ,' 3(' 5 *' 4(*,' .(3 ($ $$.' - (' 4 '$(. " 3*! - . $" - (' '(" (, , .('7 (,' $' (3.$,' ' .' * , .(.(0 ,$ *Z ' + .+0 (/ '+*" - ,(/ + ' , .+0(. " - (' '(" 4.(9(' 'V' ((! ,(.(/ , * " ('0 8(U 0 '! (' + ' , .+0(. " - (" 0 - , .(' ' $'(' *' $0.('+0+*,' - ('4. * *3(.'V EB * (' ,' - *('4+ +' +.$', 3.+,3' ' J V' ,' (' ,' +. - (*,' + $ - (' 6 + $,(/ - (' +' $) (. ,('7 $'36(.$,/ $,' + - $.(' +' *+,$ *' #$!+*5+$'('7 $' 4 .,(' + 2 * (" +' .(0 ,$ *' /5 $ +' 4 +3(' + '4.($(.' .+*9' - (" 4(4 ("#$).('7 $$ - - 4($*,/ $' 3+.+(, - .$'(' (" - $0(.'(" -4 5 (" - (' 3(, ,('.(0 ,$ *' -! .+) ('+0('4 " - ('36+ (.'(,' - - $ 5 (*3(' 5 + 3 *' .+*! 5+$" 5 $ (*' +$,'(*3 .(' 33.$,' ' 4. * *3('+*" 4+. $+#$,3' ' .' 3" 36(#" - (" - (2' 4+. ,$'7 $' 0($' - +*" 36+5 (' (0- ((,

U

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71.6 >. 5' J4.11.I >. 5<7 1 .<1 .7>.6 'EE'E1.6 >71' 7 J.1.68 =4. 66. / 05. >.6 1. =4 56 V .<<.<7 54 1.<>1. ; , / ?7. >.6 1, .641.6 =4 56 ,47 >E5 ?1.<>1. ?, <1 5" 6>1.7. >. 7'78 .7>.6 / ,4-. / .<76 >.6 71 ,4M ?.6 71'<J.1.6% $

" ?1,?,6 7 ,< >. % .J<'457 .67 '>, ?7..% + % 5. ?1.6 >.<7 '<<, <; . = 5 Y 1.; 1 4<. .7 71. ?'1 5'=4.5R. 5. 1, < 671. >. 5" J4.11. 5 <6714 7 >" >.6 1 =4. 7> / , J<. % , ; : ' / 0. '4 > >51. ' ; ; , / ?'J<> ?'1 % K,45 8 ; , / / 66' 1. >. 66. / 05>. <'7 ,<'5.8 >'<6 5" 7,41<>. =4 5 >, 7 E' 1. >'<6 ? 5. ?'17. / .<7 >7 ,1>%

66. / 05.. ?1,1, J.8 .< ; ,<6.=4.<; . >. ; .77. >. / '<>.8 5.6 ?,4-, 16 >. 6, < ; , / / 66' 1.%

+ <1 5. 1'??,17 >. 8 5.5 41.'48 . >>;1.5 ' V'<7 .67 1.<>4N

W 66. / 05.. <'7 ,<'5.8 '?1` ' '-, 1 . '7 5. 1'??,17 >. ,< ;, / 7. > 'J1 ;45541. .5> . ; , / / .1; .8 " '??1, - . 5.1 1,0.7 &5. ; '<'5 ?1,?,6. ?'1 % K' 0.8 7. /5'<7 " ?1, ;41.1 >. .'4 5" - 55. >. ,7 1<,<8 " .7'05 1 >.6 / ,< <68 .7 '11,6.15.6; ' / ?'J<.6 =<75 1'1.16.1'N '47 16. % K'10. " ; ,<6 14 1.8 6.6 E1' 68 5.> 7 ; '<'58 '<@ ; ,<> 7 ,<6 ?,15>.6 ?'16 ,< ?1, 0.78 =4 1.67.1 '<<.@. '4@ ?1.6.<7 >#;1.7I .7 6.1" 5'>7. ; ,<6714;7 ,< .@>;47.. 64 -'<7 5.6 > 6?,6 7 ,<6 >. 5, 68 6,46 6?.;7 ,< >4 > 1.;7, 1. >. > 671 ;7 >. '01. / .8 .7 6,46 5" > 1.,7 ,< >. ; .54 >4 >.?'17. / .<7 >. > ;0.8 6

% 89,4? 78# 4N % 5.7>, 7E' 1.<< 1'??,176<1 5" <'- J'7 ,< >.6 1 - 01.6 >. 4 <.8 > 66,<. .7 >4 . / '1,8 .76415. ; '<' =< >, 75.6 0, <>1.'5" , 1.8 ?1.6 > 15.'<6% -'<7 =4 5 ; , / / .<; . 6,< 1'??,178 0 ,06.1-. =4. 5. ; , / 7> > 'J1 ;45741. .7 >. ; , / M / .1; .< "1.<-,V> =4. 5. 6.45 ?5'< =4 5 -,46 ?1> 6.<7. ' .@'E<.< >. 1'> / < 671'5 ,< >.6 ?,<76 .7 ; : '466..6I =4. ; .?.<>'<7 ?546 .416 '471.6 ?5'<6 54 ,<7 .7. ?1,?,6.6% ?5468 '- 6 =4. '> / < 6 71'7 ,< >.6 ?,<76 .7 ; : '466>.6 ">,<<> 641 ; . ?5'< 5 . ?.4 >71. > '4;4< ?, >68 ?4 6=4. 1'> / < 671'7 ,< V > 7 .@?1.66. / 4 7 =4 '54 'E'4>1' 7 >. ?546 ' / ?5.6 1.<6. J<. / .<768 .7 =4 .8 6 47 7> >. ; . ; '<'5 54 .67 >. / ,<71>.8 . 5. < .67 ?'6 .<; ,1. ; ,<-'<; 4. >. 6" ?,66 0 5 7.% . >. / '<>. >,<. 5. 1.<-, >. 7,<6 ; .6 ?5'<6 '4@ ?,<76 .7 ; : '466..6%

N .67 -1' 4. =4.5=4.6 <,4-.'4@ ?5'<6 ,<7 >7. 1. / 6 ; , < 7. 5,16=4 '-' 7 >>0" 7.1 / <> 1'??,17I / '76 5. ?5'< =4. <,46 -,46 ?1,?,6, ?'1'E7 '-, 1 '66.<7 / .<7 J.<.1'5I .7 > ' 55.7 16 5 .67 <E < / .<7 ?1.66'<7 > , ; ;4?.1>.6,4-1 .168 .7 5 04 >1' 7 '77.<>1. ; <= ,< 6 @ / , 6 ?,41 '-, 1 4< <,4-.'4 1'??,17 >.6 ?,476 .7 ; : '466..6% <5 < ; ; . '; / < 67>'7 , <. >. / '<>. >.6 1.<6. J<. / .<76 =4. 641 5" ?'17 . >. ; . ?1,0.7 =4 .67 1.5'7 -.% '4 ; '<'5I =4'<7> '471.8 5 < .67 ?'6 ,.6, <>. 1.<6. J<. / .<76 ?,41 6'-, 1 =4. >.6 1 - >1.6 =4 ,<7 >7> <'- J'05.6 ?.4-.<7 >51. .<; ,1.%

N .67 >'<6 ; . / , / .<7 >4 ?546 J1'<> <7.1>7 ?,41 5' 71'<=4 5557> ?40 =4. >4 ; ;4 ?.1 5.6 ,4-1 .168 .7 ?,41 5. ; , / / .1; . >. 1.<>1. 5.6 1 - >1.6 > 66,<. .7 >. 4 <. <'- J'05.6% , 7 ,< 6'; 1 E .1 <7.1>7 J><>1'5 <7>1>7 ?'17 ;45 .18 .7 1.7'1>.1 >. 6 @ / , 6 ; .77. 47 5. .<71.?1 6.8 ?'1 5" 1' 6,< =4 4< <> - >< =4 < ,EE1. '4;4<. 1.6?,<6' 0 5 7>8 '4;7 <6 E,<>68 ?1.6.<7. 4< <,4-.'4 ?5'<Z

66. / 07.. =4. % 5.7 E.1" 6,< 1'??,17%

! .61 - >1.6> 66,<..7>. 4 <.8 > 7. > 7' / ?.68 ,<7 . 7>0'> 6F<'- J'05.68 .7 47 5 5> >. ; .77. <'- J'7 ,< " 6 E,17. / .<7 6.<7 .%>.?4 6 ?57 6%> 4< 6 > ;5.8 =4. <, / 01. ?1,0.7 6. 6.<7 64; .>>.8 .7 =4. ;416 '47.416 'V'<7 ?1,E 7> 64; ; .66 -.G 1'.<7 >.6 54 / >1.6 >. 5.416 ?1>>. ; .66.4168 5.6 .<71.M ?1.<.416 ';74.56 6.<7 ?'1-.<46 " 5" ?.1E.;7 ,< >. ; .54 =< 56 -,46 ?1.6.<7.<78 .7 5. 64; ;>6 .< &5'1'57 ' 66 6E51 =4 5 ;67 >.6 1'05.%

.67 <47 5. > .<71.1 >'<]' '4.<< >.7' 5 >.-'< <<. 66. / 05>. '466 <6714 7. 641 47 5 7. J.<.1'5 >.6 ; '<'4@8 6417,47 >'<6 4< 1,7' 4<. ; , / / . 1'<..8 6. / 05'05.6 '<@ -' 6.'4@ >4 ; .1?6 :4 / 06 ?,17.<7 64; ; .66 -.1, .<7 5" - . >4 ; .<71. 5" ; 7 ; ,<E.1.<; .8 .7 >. 5" ; 1; ,< ` 1.<;> '4 ; .<71.8 .7>. - .<<.<7 4<. 6,41; . > '0,<>'<; . .7 >. ?1,6?>1 7. %

5.6 . / ' <6I 6 ; .77. J1'<>. '7 ,7 >,<0 <,< 8 >> / 1,<6 >60. '4@ / ,<4 / .<768 <. <,46 .< ?,< 5' 66> >'<6 ; .J.7 1.8; .67 ?'15.41?'1E' 7. J<,1'< >.6 ?1. / .16 ?1 <; ?.6 >. 5 :V>1'45 =4.I J<,1'< >> / ,<71. ?'1 5" ; ,<6714;7 ,< >.6 / 'J< E =4.6 ?=4. >4.6 =4 .@ 67.<7 .<; ,1.% $

.6 ; '<'4@ >, -.<7 6.> - 6.1 . >.4@ ;5'66.6I 5. J1'<>68 > <<. <7 5 5. J.<.1'5.8 >, -.<7 1. .@7 ;47> ?'1 5" <'7 ,<I .7 5.6 ?.7 768 < 47.1.66'<7 =4. =4.5 =4.6 > ?'17.1'.<768 >, -.<7 > 1. .<51.?1 6 ?'1 5.I '> / < 671'7.4168 ,7 ?'1 >.6 ; , / ?'J< .6 6>1.68 6,4 5.7 1 ?1,7.;7 ,< .7 6,46 5.41 641-. 55'<;.I / ' '7,4 >, -.<7 71.6,4 / 6 " '??1,0'7 ,< >4 ; ,1?6 5 J 6 5'7 E8 =4 6.45 ?.47 . / 01'66.1 5. 0 .< J < 1'58 & . / ? ; , .1 =4. 5.6 <7.1 76 <. 6. ;1, 6.<78 ,< =4. >I V ?.7 70 <7 7 6, 5 '<>'<7 >.1'<7 ; .54 = 6.1' / '0.41% $

" ?1.E.1.<; . =4. ,< >, 7 >,<<.1 " >.6 ; , / ?" J< .6 ?,41 5" ; ,<6714;7 ,< .7 >7'05 66. / .<7 >. ; . 6,17.6 > ,4-1'J.6 ?'1' 7 0 .< ?546 '-'<7'J.7 6. ?,4 5" <'7 ,<8 .7 54 '6641. 4<. <; : .66. E4741.% < 6 =<. 7,<6 ; .4@ =4 ; ,<6714 6.<7 ?,41 5.41 ?1,?1 0,4 66'<; . 71'- 55.<7 7,40,416 '-. ; ?546 >. E,1; . > ' ; 7'- 7>%>. 0 5. .7 > . ; ,<,% / .% " 6,5 > 7. 5.41 / ?,17.8 6 5" >41>. >. 5.41 0,4 66'<; . .67 1..45..046 =4 " 4<. >?,=4. > , J<..% .6 0.<.E ; .6 >. >7" 0 66. / .<7 .7'<7 E @>6 641 ; .4@ =4 ?1, 7.<7 >, 6 ; , / / => 7> , " >. 6" ?,6 7 ,< 5, ; '5.8 .7 4. ?,17'< =4. 641 >;6 ?'17 ;< .16 ,4 641 >.6 >.<1>.68 56< ?>6.<7 ?'6641 5" <'7 ,<8 .7 56 ?1, ;41.<7 '4 ; ,<71' 1 .< J.<.1'5 4<. 641'0,<>'<; . > '<6 5.6 ,00.76 ; , / / .1; '4@I 5.6 E,<>6 =4. 5. ; , / ?'J< .6 -.16.< >'<6 ; .6 6,17.6 > ,4-1'J.68 E,<>6 =4. 5" <'7 ,< 6. 1' 5 ; ,<71' <7. >. 7 1.1 >. 6.6 ; ,EE1.6 .7 >. ?1.<>1 641 5.6 / ?>768 6.<7 4< <,4-.'4 E,<>6 / ,4-. <7 =4 6. 1.?'<>'<7 >'<6 7,47.6 5.6 ;5'66.6 >. 5" 6, ; .7 ?1, ;41. <> - >46 >.6 / ,V.<6 >. 71'-' 5 .7 6,4-.<7 >'<6 >.6 ; '<7,<6 =4 < ,<7 ?, <7 >. / " <4E ;741. < ;7 - 7.% <6 8.< 6,4 / .77'<7; .6 ; , / ?'J< .6 " 7,47.65.6; ,<> 7 ,<6=4 '6641.<75.664; ; .6 ,4 >4 / , <6 =4 8 .< ; '6> <7.1;4?7 ,<8 1.<>.47 47 5.6 5.6 ?'17 .6 ; , / / .<; ..68 5" <'7 ,< 6 .?'1J<. 4< >>?.<6. ,< 1.46.I .7.< < '5 <'<7 5" ?1,?1 7> . >>>, / / 'J.1'.<7 =4. ?,41 <7.1 / . E @.8 5 .@? 1'7 ,< >. .?,=4.8 .55. .<71. >'<6 4<.?1,?1 ; 7 =4 .55.71,4-. .<0 ,< 1'??,178 .7 =4 0,47. 4<. 1.6 6,41; . ?1> ; .46. '4@ E <'< ; .6>. 7'7%

>7'05 1' %> '<6 ; . 1'??,17 / ?,17'<; . >.5" <' 1 J'7 , ?1,?,6>.8.70. ?1,4-.1' 046=4 >- >.<; . =4. 7,46 5.6 <7>1>76 6. 1.4< 66.<7 ?1.66.1 .@>;4 7 ,< >4 ?1,0.7 ?1>6.<7>%

,46 '-.0 >>;1.7.8 5.6 7* .7 %C ,;7,01. >.1< .18 =4 5 6.1' 7 ; , ?6714 7 4< ; '<'5>. <'- J'7 ,< =4 >, 7 ,4-1 1 4<. ; , / / 4< ; '7 ,< ?546 E ; 5. >. 5" ; '? 7 5. 5" '<; . % 546 ; . ?1,0.7 " ,EE.17 > '-'<7'J.68 ?546 5 >7 7 / ?,17'<7 > .< ' 41.1 .7>; <7 ,< ?1, / ?7. .7 E ; 5. 1 ; . >>;1.7 5 " >7. / ?,6> " % K145>8 .<71.?1.<.41 >. ; .7 <7.1.66'<7 ,4-1'J#I >.6 ; ,<> 7 ,<6 ?1>'5'05.6I ,< <. -, 7 ?'6 =4 5 ' 7 .<; ,1. 1. / ?5 4<. >.6 ?546 .66.<7 .55.68 ; .55. =4 '6641. .@ 67.<; . >.5" ?1. / .1.E <'<; .% # .77. ; ,<M > 7 ,< , / 6.G6. / 05. E 1. E 'E71. E" <>; .66 7>7E / ?,6.1 '<@ .<71.?1.<.416 =4 6. ?1>6.<7.<7 ?,41>. / '<>.1 .@>;47 ,< >4< ?1,0.7 >. ; . / > / . J.<1. 4<. , ?546 ?1.; 6.I ; '1 5 >, 7 ?'1' 71. <> 6;1.7 > , ; ;4?.1 E.6 / , / .<76 ?1>; .4@ >. , , B$& (!

UC)

,07.< 1' >.6' >.;1;76' E'-,1'05;6' '' < 5' .7'5 5 66; <.<78' 6 5'5 .'>, 7' Q' / ' 6' '-, 1' 5 .4' ?'1' >.E'47' >.' E,<>68' 7' 45 6' =4 ' ;4<' ?'17 ;45 .1'<;'>, 7' Q' / ' 6' ?1.6.<7.1' 4<.' .<71.?1 6.' 47 5.' .7' > 6?.<> .46.'6'<6' Q, <>1.' '' 6.6' / ,V.<6' >.@.;7 7 ,<' 5'' 6,4 / 66 ,<>.';'? 7'5 67.6' 0 .<';,<<46?'1' ;<16,5 > 7.% .'< / , 6' >.6 ;,<6 ' >.1'7 , 6' ?'17 ;45 .1.6' ?.4-.<7' ?,17.1' '' '>,4; 1' 5'' 1 J4.41' >.% 5'' 5, 8' .7' ; .67' ;.' =4 5' ;,<-. 7' > .@' ' / ;1%

#.6' ;'<'4@' 6,<7' 7,46' E,<>.6' 641' 47 5 7.'>4' ;, / M / .1; .8' 641' 5'' ;, / / 4< ;'7 ,<' ?546' > 1.;7.'>.'>.?'1' 7. / .<7' ''>>?'17. / .<78' .7' >.' . 71'<J;1' '' <7.1 .41' >4' 1,V'4 / .% ' 6' 5'' ;,<6714;7 ,<' >.' 4<' .67' 0 .<' ?546' / ?,17'<7.'=4.';.55.'>.' '471.8' ''1' 6,<' >.6.6' ; / 01'<;;; / .<76' .7' >.'5''> 67'<;.'=4 5' >, 7' ?'1;,4 ' 1 1I' '466' 6'' > ?.<6.' .67 .55.' ?1,?,15 ,<<..% '4 ' 71.8' > 4<.' .7.<> .' 0 .<' ?546' 0,1<..8' =4, =4.'<,<' / , <6' <7.1.66' 78' >'<6' 4<.'> 67'<;.'>.' - <J7 :4 7' '' 71.<7.'5 .4.68< ,;;'6 ,<<.1'=4 ;<- 1,<' ' / 55 ,<6' >.'>. ?.<6.I' ,1' ;.77.'6, / 1'.8' 71E. E,15.'?,41' 4<' ?'1M 7 ;45 .18' <.' .67' ?'6< '< / , <6' ?,41' 4<.';, / ?'J< .I' 5' ?'1' 7' .66.<7 .5' ?,41' 5.' 0 .<' >.6' .<71.?1.<.4168' .7' ?546' .<;,1.'?,41' ;.54 ' >4' ;, / / .1;.' .7' >.6' ?1,?1 . ' 7>68' 1 <; ?.' >.' 5'' ?546' J1'<>.' ?,<6 >.1'7 ,<' ?,41' >.6' 5.J 65'7.416% =4.'5.6' E,%<>6' >.';.6' .<71.?1.<.416' 6, .<7' ?1 76' -'<7' =4.' ,4-1'J.';, / / .<;.8' ?4 6 ' = .8' > 4<' '471.';>7>' 5' <.'6.' ?1.6.<7.' '4;4<.'1' 6,<' >.E' 7' =4 ' .@ J.'5'' E @'7 ,<' > 4<' >.5' %

?1.6' '-, 1' ?,41-4' ''5''1>'5 7.'>.6E,<>6' '' E,41< 1' ?'1' 5.6' .<71.?1.<.416' >.' ;.77.'<'- J'7 ,<8' 5' ?'1' ' .<;,1.'.66.<7 .5' > '6641.1' .@.;47 ,<' >.' ,4-1'J.8' 5'' 6,5 > 7>' >.'6'' ;,<6714;7 ,<8' >.' 6.6' .;546.68' >.'6.6' ?,4768' >.'6.6' ;;. / <6' >.' :'5'J.8' ;<' 4<' / ,7' >.'7,4%7' ;.' = ' >, 7' ;, / ?,6.1' 6,<' .<6. / 05.%

'' ?1,?,6 7 ,<' =4 ' -,46' .67' E' 7.'>.'1.<>1.'<'- ' J'05.6' 5.6' 1 - .1.6' > 66,<.8' >.' 4 <.' .7' >4' K.1<'1>8' < .67?'6' 4<' ?1,Q.7' <,4-.'48' ' <6' =4.'<,46' -,46' ' ' -,<6' >.Q'' ,06.1-.I' 5' < .67' =4.67 ,<' =4.'>.'1.?1.<>1.' 5.' ;,416' > 4<.' <'- J'7 ,<' =4 ' .@ 67' 7' .<' ?'17 .' .<G U* % 1' 6 8' '' ;.77.'.?,=4.8' ;.77.'<'- J'7 ,<' E47' 1. ' 1.;,<< .'47 5.8' '' ;,1'0 .<' ?546' E,17.'1' 6,<' >, 7 .55.' >71.' >. / ,<71..' <7.1.66'<7.'>'<6' 4<' 7. / ?6' , 5' 5.6' 0.6, <6' >.' 5'' - .8' / 457 ?5 .6' .<' 7,47' J.<1.8' ,<7' >,<<.''4' ;, / / .1;.'4<.''';7 - 7V' =4 '6 .7.<>' >'<6' 5.6' =4'71.'?'17 .6' >4' / ,<>.S

6%6,<.?1.<>' 6''6,41;.>'<65. ! >7 <' 68 '' 4 <.' >'<6' E'' K.'4;.8' 5.'K.1<'1>' >'<6' 5'' E,1>7' > 15.'<6' N 5.6' >.4@' ?1. / E61.6' 6.' 1>4< 66.<7' '' 71, 6' 5 .4.6>.' #,10. 58' ,4' .55.6' ;,<E54.<7' >'<6' 5'' . <.% 4;;.66 ' -. / .<7' > -.16' <J.< .416.7?1,?1 .7' 1.6,<7' -,45 ' 1.?1.<>1.';.77.'<'- J'7 ,<' 6,46' 5.61, 6' ,4 6' '' 8' ,4 6' ''5558' ,4 6'' '.7' >4 6' '' I' ,<' -, 78' ?'1' 5.6' ? .;.6' .7' 5.6' / > / , 1.6' Q, <76' '' ;.'1'??,178' =4.';.77.' <'- J'7 ,<' '' .@ 67.' ?.<>'<7' >.4@' 6 .;5;6I' / ' 6' 5.6' ?.'J.68' 5.6' > E7 ;457.6' =4.'5.6' <'- J'7.416' .?1,4' -' .<7' >.'5''?'17' >.6' 6. J<.416' > 4<' ;>7.8' >.' '471.'5'' > ' 6.77.'>.6' E,<>68' 5'' / '4-' 6.' '> / < 671'7 ,<8' 5'' <.M J5 J.<;.' >'<6' .<71.7 .<8' 7,47' ;,<;, 1478' .<' 4<' / ,78' ''5'' E' 1.' '0'<>,<<.1%

#.?.<>'<7' 5.6' -'55..6' =4.' ;.6' 1 - .1.6' '11,6.<7' 6, 7>.6' ?546' E.17 5.6I' / '76' 5'' ?54?'17' >.6' ?1' 1 .6' 6,<7' / '4-' 6.68' / '1.;'J.46.6I' ' 1V' .67 / '56' <8' <E.;7.?'1' 5.6%67'J<'7 ,<6I' 5.6' -'?.416' V6,<7E > ' -1.46;6' .7' / .<171 .1.6%

<6' ' >,<.8' 5'' 6'<7.' >.6' :'0 7'<768' >.6' ?1,?1 . ' 7' 1.68' 5''<,<11 741.'>.6' '< / '4@8' 5.6' 0.6, <6' >.' ' ' J1 ;45741.8' 7,47' ;,<;,417' '' >. / ' >;18' '' .@ J.1' / . / .' 4<' .7'05 66; / .<7' =4 ' -,46' .67' ?1.6.<7.' ?'1' >.6' ?5'<6' .7' >.- 6' =4 ' <.'5' 66.<7' 1 .<' ? >.6 1.1%

% 1'<6V8' <J.< .418' ;,<<4' ?'1' 6.6' 7'5.<76' .<' :V>1'45 =4.8' ?'1' 5.6' / ,V.<6' =4 5' -,46' ,EE1.8' '' 1,<-.' <.65 / ':5.' '-'<7'J.' >.' ;,<6.1-.1' 7,45.6' 5.6' 7 6 .6' .7'05 ;6' 641' 7,47' 5.';,416' >.';.77.'1 - .1.I

7'<> 6' =4.'6.6' ?1>>>..66.416' -,45' ;<7' 5.6' >;517 1;' .7' 6';1 7 .1' ' <6' ' ' / 0 7 ,<' >.' E' 1.' 4<' 0.'4' ;'<'5' 4<.' / 457 74>.'>.' / ,45 <6' ''E'1 <.' > '47'<7' ?546' <' 7.1.66'<76' =4 56' 6,<7' ;,<6714 76' 641' >.6' 1 - .1.6' >,<..68' ?' 6 05.68' 71'<= 55.68' Q' / ' 6' 6 Q.77.6' '' '4 ' ;4<' J,4 5. / .<7' >>6'671.4@8' .7' =4 ' <.' J.5.<7' ?, <7% #.7 <J.< .7 18=4 ' '' ?,17>'5'' ?.1E.;7 ,<' >.6' / ,45 <6' ''E'1 <.' ''6,<' ?546' :'47' ?.1 ,>.8' 6.'?1,?,6.''4' ;,<' 71' 1.'> .<' '4J / .<5.1' 5.'<, / 01.' '' -,5,<7.8' >.' 1.<M >1.' ;.4@' =4 ' .@ 67.<7' ?546' E,1768' ?546' ?1,>4;7 E68' .7' >.';,<6.1-.1' '' -.;' 6;14?45.'7,47.6' 5.6' ;:47.6% ,16 ' = ,<';,<6 >.1.'=4.'5.6' >. ?'17. / .<76' =4 ' '-, 6 <.<7' ;.6' 1 - .1.6' '0,<>.<7' .<' 05.6' .7' J1' <6' >.' 7,47.' .6 ' ?.;.8' ,<' .67' ;,<-' <;4' =4.' ;.6' -4.6' > 47 5 7.' ?405 ' =4.' / .1 7.<7' 5'' ?546' J1'<>.' ?1,7.;7 ,<%

<' 1.;,<<' 7' .<;,1.8' ?'1' .@' / .<' >.' ;.'?1,Q.78' =4.'5.6' / ,V.<6' >.'>.66. ;;. / .<7' ?1,?,6.6' 6,<7' '6 ' %641 68' .7' =4.'7,47' ;,<;,417' '5.';,<67 74.1' 47 5.';7' <> 6?.<6'05.%

.6' -4.6' >.6' '<; .<6' <J>< .416' ,4' .<71.?1.<.416' >.' ;.77.'<'- J'7 ,<' 6 .7.<>' .<7Q46=4 '' K,;;.?5.7;6' 641%5 66,<.8' .7' '' L.-1. . #: 7.5' 641' 5.' K.1<'1>8' . .67 ' > 1.Q46=4 '' 4<.'> 67'<;.'>.'71.<7. ; <=' / 5 ;' ' : 7' ;.<7=4 <0.'7, 6.6> ';,<E54.<7' '' 5'' . <.I' / ' 6' % 1'<6V' >. / '<>.' >.' 5'' ?,466.1' Q46=< '5'' , 1.8' .<' 71'-.16'<7' 5'' E,1 7' > 15.' 68' ?'1' 4<';'<'5' >.' - <J7' .7' 4<' / 55.' <.4E' ;.<76' 5, 6.68' =4 '?'17 1'' >.' 7: V .168' .7' =4 ' 1'' ;,<E54.1' '' ;.'E5.4-.' ''4<. .4;' '4 >.6646' > 15.'<6I' ;.77.' '4J / .<7'7 ,<8' =4 ' / .7' 5.';, / 05.' '' 47 5 7.'>.';.77.'<'- J'7 ,<8' 5''1.<>' ?546' / ?,17'<7.'4;, / / .1;..<' J.<.1'5%

' 6' 6' ;.7' >7'05 66. / .<7' .67' 47 5.' '4' ;, / / .1;.8' 6 5' ?1. 6.<7.' ''7,46' 5.6' ?1,Q 1'.7'' 1.6' 1 - .1' <6' >.6' 1 ' ;;.66.6' <,4-.55.6' ?'1' ' / .5 ,1'7 ,<' >.'5.416' ?1' M 1 .68' .<' 5.6' >.66 ;;'<7I' ?'1' 5'' 6'5401 7.'>.' H' 18' .<' >,<<'<7' ;,416' '4@' .'4@' 67'J<'<7.6I' ?'1' 4<' >.0,4M ;; 'Q,41<'5 .1' .7' E';5.'=4 ' '<J / .<7.1'' 5'' -'5.41' >.' 5.416' >.<1 .6' .7' >.'5.416' E,1 / .6I' ?'1' ,;;'6 ,<' >.6' -, 741.6' > .'48' =4 ' 1.<>1,<7' 5.416' -,V'J.6' ;, / / ,M >.6' .7' / , <6' ;,47.4@8' >.'=4.55.' / ?,17'<;.';.77.'<'M - J'7 ,<' < .67 .55.'?'6' ?,41' 5'' ;'? 7'56Z

471.'4<.''0,<>'<;.'>.'05.68' >.' E'1 <.68' =4.' 'M 1 6' ?.47' 7 1.1' >.6' ?1,- <;.6' >.' K.'4;.8' >4' ! 7<' 6' .7' >.' ;.55.6' =4.'5'' , 1.''11,6.8' .55.'>, 7 <;,1.';< '77.<>..'4<.' / 457 74>.'0 .<';,<6 >.1'05.'>.> -.16.6' >.;1..6' .<' - <68' 0, 68' E, <68' ?' 55.6N .7';.'=4 ' >, 7' 71.' .<;,1.'?,41' .55.' > 4<.';,<6 >.1'7 ,<' '66.0 / ' ?,17'<E,8'; .67' 5'' ?.16?.;7'-.'>.' <.'Q' / ' 6' / '<= .1' >.'J1.6> 4 .' .@;.55.<7.'=4'5 7.8' =4 .55.<.'?.47' ?546' B 1.1' =4.'>.' H,<7' <.05.'48' ;.54 ' > 7' / ?.6' .7'<7' ?4 6>8' .7' =4 '6.'71,4-.'641' 5.6' 0,1>6' >.' 66,<.'.< / '66.6' .<,1 / .6%

<' ?.47' 1.;,<<'571.' >'<6' 5.' / > / , 1.' >.' <J ' < .418' .7' >'<6' 5.'64??5. / .<7' =4 ' V' .67' Q, <78' = .'6'' ?1.-,V'<;.'6 .67' .7.<>4.%641' 7,47' ;.'=4 41' ,4-1'J.' '466' / 'Q.41' ?.47' 5' 66.1' '' >.6 1.1' N 5_\ 641' 5'' 6,5 ' > 7.I' C_\ 641' 5'' ;,<6714;7 ,<8' 5.' <, / 01.'>.'6.6. ;5<' 6.68' 5.41' ?5';. / .<7' ?1.6' >.6' / ,45 <6I' D 641' 5.6' ?,<76' =?' ? .11.' ?,41' 5'' ;, / / ,> 5.' >.6' ?'66'J.6' ?'17,47' , 5' 56' 6,<7' <.;.66'1.68' .7' >.6' ?.7 76' ?,<76' >.' 64??5. / .<7' .<' 0, 6I' > 4<' J.<1.'>.' / ..'<=4.'71.6 '' <J.< .4@' ?,41' 5.41' E,1;.' .7' E,41' >. ?5';. / .<7' E'; 5.I' UG 641' 5.6' <'5'J.68' 5.6' ?,1768' 5.6' E,66.6' >.'>.66.;;. ' <.<7I' D 641' 5.'1'66. / 05. / .<7' >.6' .'4@' >.6' 6,41;.68' >.6' 1.6.1-, 16I' .<' 4<' / ,7' 641' 7,47' ;.'=4 ' ?.47' ;,<' ;,<1 1' ''5''?.1E.;7 ,<' >.' ,4-1'J.8' .7' 5.'1.<>1.' ?546' 47 5.' '4@' 46 <.6' .7' ?546' ;, / / ,>.' '4' ?405 ;I' .<'1.6 ' ?.;7'<7' .7' ;,<6.1-'<7' .<' / > / .' 7. / ?6' > '<6' 7,47.' 5.41' ?5.< 74>.'5.6' >1, 76' >.6' ?1,?1 .5' 1.68' '-.;' ;.77.8' 6'J.'>;,<, / .' =4 '>, 7' 6'<6' 1.?5 =<.' ;,<71 04.1' '' '4J / .<7'7 ,<' >.'5''-'5.41' >.6' 7.11.68' >.6' ?1.68' >.6' ;, 6' .7' >.6' >.<1..6.<' J.<.1'5% '

' 6' 5''0.'45.'>.';;7' .<6. / 05.';7' 7,<6' 5.6' 6?>. .4@

'-'<7'J1.'=< 4<',@?,6>' <J < .4@'.5'>1, 7?,<11'E7 / >1.' ?546 ? 44' 76' .<;,1.'>.-1' .<7 1.' '06,54' ;471.Q. 6 6G 56 '-' .<7?'6' 1.J4' '??1,0'7 ,<' >;' ;. @ =4G ?546' ?'17 ;4 .1. / .<7 >;5' 1.6' ?'1' 5.416' <7;1> >, -.<7>>5.1 / <.1'5" 5, '=4 ,<' ' 5 7.% $ $ 8

'1-,71;> ;1.7>49,;7,01.'>.1< .1-,46' '-.0' 1.<-,V>'5" >. / '<>.'>.' % 1 J<.7 / ,7.41' .5'.<G 71.?1.<.<1' >4' ?1,Q.7 .7'>.' Y5% ! .1>1.7 '16.7 ;,/?'J .6,4 < 66 ,<<' 1.6'?,41' # 'E,<>6 ' '>>' ?'17. / .47 >.' . <. .7 6. ;5' " ;.E4' >4' , 1.7 ?,,1;,<67'7.1'147 5 7.'>.' ;;77.'<'- J'7 ,<'.7>,<<.1' 5.<1'- 6%

4< 6'>.' ..'>>;1.7 5." .<71.?1.<.416' 6.'6,<7 <- 6' .'4>/ .'> ,07.< 1'5." '- 6'=4.' ;.77.'?1. / .1.'5,'.@ ' J.' 7% % %

<;,<6.=4.<;.8 56' 1'??,17.<7 .7 -,<6?1.6.76' 7.<7 5." '- 6'>;6'>.?'17. / .<76'>4' , 1.7 >.' . <. ' .7 6. ;.4@>.6' > 1.;7, 1.6'>.6'> 671 ;76'>.6' - 55.6' > 5' / ?.6' .7>.'#,10. 7; .4@'>.6' - 55.6' .7 / < ; ' ?'5 7.6'>.' '1 6 #,10. 5 7: - .16 '5.6:.10.6 K''5<.K, J<.- .89 1,<- 55.K,<<.-'4578 .66. ' 1. K,47 J1 V ! 4 <<.- 55. " H.17> 5.?6' .7 6' 6,<.% ,46' ;.6' '- 6'6.'1>4< 66.<7 641' / ?,17'<;.' >.';.77.'<'- J'7 ,<641'6,< <7 5 7.'?405 =4.' .7 ?'1' 7 ;45 >1.641'5.'0.6, <'>.'71'-' 5'=4.'6, ; 7.<74<.' / 457 74>.' >.' 01'6' , 6 E.I' / ' 6'7,46%'466' <6 67.<7 641' 5" <.;.66 7.'> '6641.1'5.6' E,<>6'47 5.6' " 5" ?.1M E.;7 ,<' >.' .<71.?1 6.' '-'<7>.'5" ;, / / .<;.1 <>' ;.66 7>' / ,7 -..' 641' 5.6' / '4@'=4.'5.6'?1,?1 >7' 1.6' ,<7 >.Q" >?1,4->6' " > -.16.6' .?,=4.6' ?'1'>.6' 71' ' -'4@';, / / .<;.6' .7 .<64 7.' '0'<>,<<>6I ;.'=4'<'" Q' / ' 6'?1,>4 7=4.'>4'>>6,1>1.'6'<6'47 5 7.'1..55;%

'- 6'>.'5" / 4< ; ?'5 7V'>.' '1 6 6'<6'>,47.'5" ?546' <7.1.66>.'" 1.@.; 5 ?<'>.';.77.' / ?,17'<7.'<'M - J'7 ,<' .4'>J'1>' " 6" J1'<>.'?,?45'7 ,< .67 .<M ;,1. '??4V>' ?'1' 4<.'5.771.' ?'17 ;45 .1.'>.' % 5.' / ' 1.%

.6' .<71.?1.<.416' ?1,>4 6.<7 .<;,1.' 4<' '- 6'>.' 1'66. / 05>.'>4';, / / .1;.'>.'5" - 55.'> 15.'<6 =4 ' '?1.6' 4<.'> 6;466 ,< 6'J.' .7 >.; 6 -.' .<'E' - .41'>.' #.7 .7'05 66; / .<7 ?1,?,6.'4<.'E @'7 ,<'?,W1'5.'?1 @' >.6' 71'<6?,176' > 15>'<6' 7 #,10. 5' .7 >.'#,10. 5' ' 15.'<6% G $

<7 < '> / < 671'7 ,<' ;.<71'5.' >.6' ?,<76' .7 ;0'<66..68.<' ;,<-.<'<7 >.' / ?,17'<;..7>.5 <' 7 5 7>'>.';.77.'<'- J'7 ,<>. 6 1.1' 7 .47. / .<7=, .5' =4.6' 1.<6. J<. / .<76'>.'?546'?,41'4<.'?'17 .'>4';'M <'5 '5 <'>.' / .4@'Q4J.1'6, 5'>.'6" ?,66 0 5 7V 6, 5' >.'5"=4'<7 7V'> ;'4'=4'>, 7 '5 / .<7.1I' / ' 6'5"<'M - J'7 ,<' >.6' 1 - .1.6' 'V'<5' .@ 67.' .7 ;.77.' ?'17 .' V7'<7 5" ?546' ;,<6 >V1'05.' .7 5" ?546'47 5. 1 .<'<. ' 6 ,??,6.' " ;.'=4.';.7,4-1'J.'6, 5';, / / .<;.'5.'?546' 7 7?,66 05.%

,46' '-.0' -4'=4. 5,16' >.' .7'05 6 . / .<7>4';'M <'5' >.' '1 6 5' ?'147 4<.' -'1 V V' > ,?<,<6' =<' ?,4-' 7 5' 1.' 0'5'<;.1' -,71.' >V; 6 ,<' N .' 5.' W.4 J.<V1'5' 6 .@?1 / .'>.'5" / '< .1.'5"?546'E,17.I'.7>'' ?1;6' ;.7 ';;,1>' 4<'< / . 5' 6. / 05.' =4 '4;4< / ?7 E' 5 .' >, 7 ?546'1.7.< 1'5" 5, '= 5' 1.67.' " ?1,<,<;.1I' / ' 6'? 7 6 .416' .<71.?1.<.416'5">. / '<>.<7.< / / .' 7. / ?6 .7;:';4<'6,55 ; 7.'4<.'?1VE.1.<;.% 3 4.56'6.<7 5.416' >1, 76 5.4161' 6,< '>.'?1 ,1 7VZ' # .67 ;.'=4 5' ;,<- .<7> .@' / <.1%

% 5.'1'??,17.41' .<71.' >'<6' >.' 5,<J6' >.7' 56' 641' 5.6' ?1.7.<7 ,<6' 1.6?.;7 - .6'>.6'> E5 .1.<7.6' ?.16,<<.6' Wf '6, ; 7.<7 ;.77.' .<71.?1 6.% +' 5' ?1V6.<5.'5.?1,G' Q.7'>.'>V;1.7 64 -'<7N

$ 66. / 05.'<'5 ,<'5. '?106' '-, 1' .<7.<><' 5.'1'?M ?,17 =4'54' " 7.'E' 5 '4'<, /'>.'6,<' ;, / 7#>'J1 ;45741.' .7 &5.' ;, / / .1;. >.'5">.<[<>.'>.' % ! 1 J4.7 ! .1>1.7 .7 '16 >.' 1V '05 1' "5.416' E1' 6I

$ G' "<'- J'5 ,<641'5" 1 - 7 1,'>.' 4 <. > 7.'> 7' /

?.6 >.?4 6' ;.77.' - 55.'Q46=4 ' 6,< . / 0,4;:41.'>'<6' 5" 1 - 01.'> 66,<.I

W CG " *+0$9+,$ ' 641' 5" 1 - #1.'> 66,<. >.?4 6' 6" Q,77;7BB >'<6' 5" . <. " #,10. 5 Q46=4 " 6" 6,41;.' '4' >.66<6' >.' 50 - .16 .<'?'66'<7 ?'1 66,<. " H.17V' 5;?6' .5' '5.6:.10.6 .7 4<'55, 'J.'641' 5.'14 66.'4' 5.'K.M 1<'1> >'<6' 5"?'17 .'>.'6,<';,416' '71'-.16' 5"E,1#7> 315V'<6 ?,41' E'; 5 7.1' .@? , '7 ,<'>4'0, 6I

' H .7'05 1'4<.' :,4-.55.'<'- J'7 ,<'>.?4 6 50 - ;16 #K 71'-.16'<5' 4<.'?'17 .'>;'5"E,1.7> 15#'<6 Q46= "5" ,1.% 8 8

$ 45 .'1'??,17>4'-,64>.6>1.;7, 1.6'>.6 V?'17. / ;<76' >.' '1 6 >.' . <. .7 \6. >4' , 1.7 >.6'>1.;7, 1.6'>;6' > 671 ;76'> 7' / ?.6 >.'#,10. 5 >.' 5: - . ; >;6' / 4< ; ' & ?'5 7.6'>.' '1 6 #,10. 5 55 1 .16 '5.6:.10.6 K'<<. K, J<.- . ! 1,<-05.% K,<<.-'4578 .66. ' 1. ,45' J<V ! 4 <<.- 55. " H.1 # 5.?6' .7 66.<.

$ <'5.'1'??,17>.' % 1'<6V <J#< .41 5 , / / .' ?'1' '11#7 >4' ,<6. 5'>4' '-1 5% ()* ? 41 .@' / <.1'5"?,66 ' % 0 5 V .7 5.'>.7' 5'>.';,<6714;7 ,<'N

55.'1'??,17>.' 1'>/ < 671'7 ,<';.<71'5.'>.6'?,476' ,7;' '466..6N ' W #;1.7.';.'=4'640Q N

$ 17% Sr % % ! 1 J<.7 ! .1>1.7 '16' .7 ;, <?'J<.' 6,<7 '47 1 6#6'> ,4-1 1 ; ,<6514 1.' .7 1.5'05 1'7 5.416'E1' 6 ! ,<E,1 / . / .<7 '4@ ?5'<6' .5' >.- 6'E,41< 6' ?'1' % K1'<6V <J#, .41 =4'1.67.1,<7'<<.@.6' '4' ?1.6.<7>..1#7 .5'6,46' 5" ,<>4 7,>.';.7 <J.< .417

$ G " <'- J'7 ,<'>.'5" 1 - 01.'>.' 4 <. > 7.'> 7' / ?.6 >.?4 6' ;.77.' - 55.'Q46=4 0 6,< . / 0,4;:41.'>'<6' 5" 1 - 01.'> 66,<.I d

WCG " <'- J'7 ,< 641'5" 1 - 01.'> 66,<. >.?4 6' 6" Q,<;7 ,<'>'<6' 5" ,<.' #,10. 5' c 6=4 ' 6" 6,<1..' '4' >.6646>.' 7: - .16 .<'?'66'<7 ?'1' 6 ,<. " H.1 . 5.?6' .7 '5.6:.10.6 .7 4< E5,77'J.' 641' 5.'14 66.'4' 5.'K.1<'1> >'<6' 5"?'17 .'>.'6,< ,<16' ' 1'1.16' 5"E,107 > 15.'<6 ?,41' E'; 7.1' .@?5, 7'5',<'>4' 0, 6I

' H .7'05 1'4<.'< 4-.55;'<'- J'7 ,<'>.?4 6 50 1 .16 .<'71'-.16'<7 5" ?'17 .'>.'5 'E,107 > 150'<6 Q46=, ' 5" ,1.%

% .6' 1 - 01.6' '41,<7 '4' / , <6' 71.<7.%6 @ ?5.>6' >;' 5' . '5.,1'64?.1 ; . .7 ; <= ? .>6' >.'0'<7.41'> .'4' I ' 5.41' 6.1">,<<.'4<.'? <6' J1'<>.' :'47.41' .5' 5'1J.,1'>'<6' 5.6' 7.4@ ' .55.' 6.1"Q4J7.' 47 5.I' .55.6' 6.1,<7 1;751.66..6' ?'17 B 7, ' 5' 6.1" <0..66' . .7 7 6.1" .7'05' >.6' '<6.6'>.' 1.51' 5.'>'<6' 5.6' 5 .4@.,<-.<'05.6 ?,41'5" ?546' J1'<>.'E' ' ; 5 50' >.'5"<'- J'7 ,<% ' %

$,<7.6' 5.6' 01'<; ;.6' =4'640> - 6.<7 ;;6' 1 - .1.6 .7 6<1' 5.6=4.55.6' 5' <V " ?'6'> 46 <.6' ,<' / ,45 <6 6;1,<7 1.4< .6' '4' ;,1?6'>.'1 - 01.'?1 <; ?'5 .7 5.41'. / 0,4;:41.'6.1'E.1' / 0.'6,5>. / .<7 '-.;'>.6'?'5?5'<;0.V .7>.6' ;,11, 6'>.-'<7 .5'>.11 01.

$ % % ! 1 J<.7 ! .1>1.7 '16' .7 ;, / ?'J<.' 07'05 ' 1,<7>.6' ?,<76' .< ? .11.'?'17,47 , ' ;.77.'<'- J'7 ,< 51' I' -.16;1" 5.6' J1'<>.6' 1,47.6 .<6.';,<;.17'<5' ' ; .5 .EE.7'-..' <J0, ;41' ><' > 671 ;7 >,'>0?' 7. / .47I >.6' ;..' / <6'>.' 0'0 J.'>.'> @ :4 7 ? .>6'>.'5'1J.4< &@77 51. E,660'?,41'5.' >.660.:. / .<7 >.6' 7.11' <6 =4' '41" 6 @? .>6'>.'7'1J. .7 >,<7 5"?1,E,<>.41'6.1" 7,4Q,416'>.' < -.'4' '4 >.66,46'>.' 40 <.' <E01 .41.I 5.'E1'<; 0,1>' ,??,6.' '41" >,4C.'? .>6' >.'5'1J. .5',<V 07'05 1" 4<' ,<71. E,660' 6.1-'<7 '< &E,660' :. . / .<7>.';.77.'?'17 .% < 'Q,47.1" '4@ ;. / <6'>.'0, ' 5'J. E1'<;6 0,1>6.7 ; ,<71. E,66066 5.67'546' <0;.66' 1.6' ?,41'5.'@,47 .<'.5 5" 6,5 > 70' >.6' 7.11.6%

$ ' 6.1" 05'05' ' .0'=4.'1.7.<4.'> .'< 4<.' 0; <6.' 5. ?546' ?106' ?,66 05.'>.' 46 <;I .7 ' ;.'=4.' .<>1, 7, ' 5' 6> 71,4-.1" 4<' ; 7. / <' ;:'11.7 .1 5' 6.1" 07'05' 641' 0;546.' ,<'?,47 / ,4-'<7 .<0, 6% d

$ % 56' ;=4.11,<7 5.6' ?1,?1 0706' <. ;.66' 1.6' ' ;.77.' .<71.?1 6. 6' -, 1I 5.6' 7.11' <6' <0#.66' 1.6' ' 05'1J 66.' <.<7>.' 5" 1 - 01. ;.<@?,41'5.' .00 <'>.'5 '5'J.I 5.67'M 546 5.6' 11'<;6%0,1>6 5.6' ;,<71. E,66066 64 -'<7 5.6'> / .<M 6 ,<6' <<0.6' ' '17 ;5.';, >. 66461'5.6' 7.11' <6' <0;.66' 1.6' '4@ '<6.6' >.'1.71' 7.'>'<6' .6' ;' / 'J<.6 >.'6 @ ;.<76' 7, 6.6' .< 6 @ ;.<76'7, 6.6I ;.4@<0;.66' 1.6' '4@1. / 05' 6'>.6' 7.11.6' , ' 0.6, < 6.1'I' .<E < 56' 6.1,<7 '466' '45,1 606 % E' 1.' ';=4 6 7 ,<'>'<6' 5.6' - 55.6'>.6' 7.11' <6' =4 56' Q4J.1,<7 <0;.66' 1.6' ' 05'05 66. / .<5'>7 <' ?,17 , '?'66.1"5.' ;'<'5I .6 / '5 ,< ;< ' E' .'?41'>_6' .@?.176' , / / 06' 'J10' %

11W8 ,<?'1 .6>51..7> 1.6>."> E671E;76Q;7 6B5 '<5-'77E 4.
=4.6>EE ;,5796 ";.77. ,;;'6 ,<8 .55."6.1,<7 7.1/ <>."?'1
7.">1.;7, 1.6>.6>'?'17. / .<76%

W ?1,?1 >7' 1.><< >1 7'J,> - 6>?'15. ;'<'5 ?, ,1G
1'8 5,16 >4 ;,<71'7 >. 1.<7.8 ,O5 J7. % !1 J<.78 ! .1
>1.7 .7 '16 > ';=,>,1 5.6 ?'15 .6 1.67'<7.6 ,4 ?,17 ,<6
> ;. 5.68 ?,4114 7, ,7.E, 6 =4 .55.6 < .1;>>.<7 ?'6 ;.55.6
';=, 6.6 ?,41 5.> 7 ;'<'5 .7 6.6 >>?.<>'<;.'% 5" ?'17 .
1>67' ,7.>4< O>1 7'J.6.71,41' 7 ;.?.<>'<7 1>>4 7. ,<
>. / '1?.<7 ,< '4 >.66,<68 5.6 .<71.?1.<.416 6.1,<7 ,O5 M
J.6 "5.6';=4>1 18 6556.< 6.<7 1.=< 6?'1 5.6 ?1,?1 >5' 1.6%

W % 56 <. ?,41,<7 6. / .7 1. .< ?,66.66 ,< > '4;4<.6
?1,?1 > >6 =4 '?1>6 5.?'V. / .<7 1>.5 .7 .EE.;7 7>. ;. =4 56
$ >.-1,<7 ';=4 77.1I 6 ,<1.E46.>.1.;.-, 15.?'V. / ;<78 ,4
.<@'6 >.>E E ;457>'8 5" ;,<6 J<'7 ,<>. 5"6, / / .> ?'V.1
6.1" E' 7.>'<6 5.>>?>7 ?405 ; =4.5.> 1.;7, 1.>" >>?'1
7. / .<7 ,1>,<<.1'8 .7 6.1" ;,<6 >.1>. ;, / / . ?'V. / .<7
'?1>6 4 .55. '41">> <,7 5 >.I '5,1 5,47.6 5.6 ,??,6 7 ,<6
.7 '<71.6 . / ?>;O. / .<76 O 5" ?1 6.>. ?,66.66 ,<6.1,<7>.
<45.EE.7%

W % ?1>6 5" =< 1 O' <. > "?'V. / .<7 ,< >. 5" ;,<6 M
J<'7 ,< >4 / .<7 <,7 E >.8 5.6 .<71.?1.<.,16 .1,<7 '<7,1
6>6 " 6. / .771. .< ?,66.66 ,< >.6 O, 68 ?'7 68 ?1' 1 .68
7.11.6 O ;:' / ?8 . / : '-.. " ,< <,<8 =4 6.71,41.<7 >'<6
/ ?5';. / .<7 >4> 7 ;'<'5 .7 >.6.6 >>?.<>'<;.6%

% .6 E'V?,5O>=4.6>,<7 5.6 O .<6 =4 6 ';=4.11, ,7
?,41 5" ;,<6714;7 ,<>4 ;'<'5 .7 >.6.6 >>?.<>'<;.6 ?,41
1' .<7 >71. ;O'1J>6 6.1,<7 ?41J>.6 .< 5" E,1/ . ,1> <' 1.I
/ ' 6 7 <. 5.41 6.1" .@?>> > ;O'=4. / , 6 =4 4<. 6.45.
5.771. >. 1'7 E ;'7 ,< ?'1 5. 71 O4<'58 ?,41 7,46 5.6 O .<6
>,<7 5.6 OV?, O>=4.6 '41,<7 >7> ?41J>.6 ?.<>'<7 ;. / , 6%

W % 56 6.1,<7 '47,1 6>6 O >.7,41<.1 5.6 .'4@ ?,41
1'??1,E,<> 66. / .<5 >. 5" 1 - >1.I / ' 68 6 5 V " =4.5=4.6
/ ,45 <6 =4 6, .<7 .< ;O> / 'J.?'1 ;.77.1' 6,<8 . 1'.4G
< .16.1" <>. / < 6>8 ?'1 ;O'=4.Q,41<>.>. 1 <J7 =4'71.
:.41.68 >. / , 7 > .< 646 > ?17@ >. 6,< O' 58 ;, / ?.<6>
?'1 ;O'=4.Q,41<>.8 >. / Q,41<>.8 =4'17 >.Q,41<>. .7
O.41.8 6 5 .@ J.%

W "8 #. ;'<'5 6.1" 71' 7>8 O >J'1> >.6 / ?,6 7 ,<6
;, / / .5.6.1,<7 5.6 '<71.6 >7'O5 66. / ;<76 >. ;. J.<1.8

W "% ,41 <>. / < 6.1 5.6 .<71.?1.<.416 >.6 E1' 6 ><
E,66> >.>.66>;:. / .<78 <>>?.<>' / / .<7 >. 5"<' J'7 ,<8
.5>,<7 5. 6.4 O47 .67 5.>.66>;:. / .<7 >.6 ?1' 1 .6 .5 5"
6'54O 7>>. ' 1 %>.6 ?'V6 -, 6 <68 56 6.1,<7 '47,1 6>6 O
;,<6714 1.8 641 5.6 ;>>6 >4 ;'<'5 .7 O5" ;:47.>.6>; 46.68
>.6 46 <.68 / ,45 <6 .7 '<71.6 >7'O5 66. / .< 68 6'<6 =4.;.5"
?4 66.8 6,46 '4;4B ?1>5.@5.8 <4 1. ,< ?1>O4> ; .1 O 5" <' M
- J'7 ,<8 O 7 'J1 ;<5741. .7 '4@ '471.6>7'O5 66. / .< >>QO
<6714 76%

W 6.1" >7'O5 8 O ;O'=4.?1 6.> . ,>'<6 5. ;'<'58 >.6
1.?>1.6 <> ;'7 E6>. .'4 <>;.66' 1. O "<'- J'7 ,<8 .7 5.6
.<71.?1.<.416 Y.?,411, 7> 6?,6.1=4.>. ;.55.6 641'O,<
>'<7.6%

" % .6 ?1,?1 >5>6 > <6 <.6 .7 >. / ,45 <6 >>QO .@ 6
7'<76 6.1,<7 <- ,5'O5. / .<5 1.6?.;5>.6I ,< <.?,411" 7,4M
;:.1 O '4;4<.8 O 1' 6,< >.6 ,?>1'7 ,<I <>;.66'51.6 O 5" '<M
- J'7 ,<8 '-'<5> '-, 1;,<67'7>8 ?'1 >.-'<7 5"E<4< ; ?'5 5.
>4 5 .48 5":'47.41>. . '4 O 5" -'<<. ,4-1 >1.8 .5;.55.><
;,416 .18 5":'47.41>. . '4 >'<6 5.;,416 .1I .7 .<6.1"
>1.66> 4< ?1,;>6 -.1O'5 ?,41 ;,<67'7.1 =4.5.6 ? ,?1 >7>6
>.6 '<; >7 <.6 46 <.6 < '41,<7 ?, <7 >> > / <4>.6I ,< V
E.1" / .<7 ,< >. '-'<7'J. J4 .5 .6 '41,<7 ?4 1.;.-, 18
'3<=4 5 <.6, 5 ?546 1 .< ;O'<J> ?'1 5" 64 7.?,41 .< >
-. / .<7 >.6 .'4@%

" % '<6 5.6 5,<J6 <7.1-'55.6 > <<.'<6 <. O '<71.8
5,16=4 5 6.1.<;,<71.1" <<.?.<7.71,? ;,<6 >>1'O .?,41
=4.5.6,5>. 46 <. <E.1 .41.'?4 66.5"64??,17.18 ,< 6.1"
,O5 J>% >.#,<6714 1.4<.>;546.8 6'<6 1 .< ;:'<J.1 '4@ ;:4M
7.6 7'<5>. 46 <. 64?>1 .41.=4.>. <E>1 .41.I 5 6.1"
?.1 / 6 '4@ .<71.?1.<.416 > V ;,<6714 1.>.<,4-.55.6 46 M
<.68 =4 5.41 '??'17 J<>1,<7 .< 7,45. ?1,?1 >7>I ;.?.<M
>'<78 '-'<7 5";,<6714;7 ,<8 6, 5>.6>; 46.68 6, 7>.646 ?.68
5 6.1" >1.66> 4:?1,;>6 -.1O'5 >.5" 6 74'7 ,< >.65 .4@8
?,41=4 56 6, .<7 ;,<6.1->6 >'<6 5,47.5.41 <5>J1 7>8

6 " 55 % .6 .<71.?1.<.416 >. 5" <'- J'7 ,< '41,<7 5.
>1, 7>> 'O5 1641 ;. ;'<'5 >.6 ;,;.68 >5 J.<;.68 J'5 ,7.6
.5 O'7.5.768 ?,41 5.71'<6?,17>.6 -,V'J.4168 >'<6 5" =4'<
7 > =4 6.1" Q4J>. ;,<-.<'O5.?,41 47 5 5>>4 6.1- ;.?4M
O5 ;I .7 7,46 / '1< .16 .7 ;,<>4;7.416 ?,411,<78 ;,<.41

7. / / .<7 5.6 .< 1.?1.<.<168 ;:'1J.1 .5 ;<<>< 1.5,
?.16,<<.6 .5 5,47..6?.;.>. / '1;O'<> 6.68 / ,V.<<' 77.
>1, 76 >4 ;'<'5 =4 6.1,<7 @>6 ?'1 5. '1 E%
$" % .6 .<71.?1.<.,16 6.1,<7 5.<46>. E' 1.?,6.1
5.41" E1' 68 5.5,<J >4 ;'<'58 O ?'17 1 >. 5" Q,<;5 ,< O 5
, 1.8 O 15>'<68 Q46=4 O 5" <.8>.6 ;, / .6 <>5;'7, 1.
>. 5" =4'<5 5>'>'6 5 .4.68 > - 6>.6 .<>. / 5 ., .8 .<=4'1
>.5 .4.%.7<4 / >1,7>.6%

" " % .6 .<71.?1.<.416 '41,<7 5" E';457.>.?1.<>1.
/ , 6 5.?546 ;,<-.<'O5. >'<6 '<<..?,41 . .<1'J.>
;'<'58 6.45. / .<7 >.?4 6 15>'<6 Q46=4 O ;1.<<.68 5.641
?546 ;.77.'<'- J'7 ,<< .<>7'<7 ?'6 646;.?7 O5.%

W 56 '41,<7 .< ,471.5" 5 O.17>>. >>5,41<.1 5,47.6 :
.'4@=4 6.1' .<7 <4 6 O5.6 '4;'<'58 .7> V ' / .<.1 5,47.
;.55.6 =4 ?,411' .<7 54 > 1. <>;.66' 1.6% 6417,47 >'<6
?'17 .>.5" E,1>7> 15>'<68 $

W" % < ;,<6 >.1'7 ,< >. .<71.?1 6.8 >.6,< / ?,
7'<;. .7>.6 J1'<>.6 >>?.<6.6 =4 .55. , ;;'6 ,7 <.8 5.6 .<71.
?1.<;416Q,4 1, ,78 ?.<>'<7 ; <=4'<7. '<6Q>'<6 5.6=4.56
7.1 / .5 @>?,41 ';:>-. / .<7 >4 ;'<'5< .67 ?, <7 ;, / ?1 62
>4 >1, 7 >.?>'J.=4 6.1" >>;1>7>I .7 '?1>6 ;'7. / ?6
;'<'5 .7 6.6 >.?.<>.<;.6 '??'15 .<>1,<7O 5" <'7 ,<I / 'N
% ! 1 J<.78 ! >1>1.7 .7 '16 .,<6.1-.1,<7 5" ?1,?1 >5
'O6,54.N

1 G .6 / 'J'6 <6 =4 56 '41,<7;,<6714 #68 / ' 6,468 '
O.1J.68 / ,45 <68 .7 J><>1'5. / .<5 >. 7,46 5.6 >5'O5 66I
/ .<66 =4 56 '41,<7 E' 56 7'<7 641 5.O,1> >4 ;'<'5 .7 >
1 - >1.6 =4.641 5.6 7.11' <6 =4 56 '41,<7 ';=4 6I $
7 Cp .6 E1'<.6 O,1>6 .7 ;,<71. E,66>6 >4> 7 ;'<'5 ;7>
1 - >1.68 O 5" ;:'1J.>.6,45E1 18 6'<6 <>. / < 7>8 5. >>?7
>.6 -'6>6 ?1,-.<'<5 >4 ;41. / .<7 >4 ;'<'5 .7 >.6 1 - >1.
' <6 =4.>.6 / '7>1 '4@ <>;.66' 1.6 '4@1>?'1'7 ,<68 6'1
=4 56 ?4 66.<7 6 ,??,6.1 O ;. =4 5 6, 5 E' 5 >.6 =4' 6
%/47 5 5>>.6 ;, / / 4<'45>6 1 - .1' <.6%

6.1" E' 7 >>E.<6.O 7,47.6 ?.16,<<.6>. 5.6 71,405
7'<7 >'<6 5" ;,<E.;7 ,< >.6 ,4-1'J.6 <>;.66' 1.6 "5'>5
.<71.?1 6. =4. >'<6 5" ?.1;.?7 ,< >.6 >1, 76 =4 5.416
1,<7';;,1>>68 > V '??,17.1 . / ?>;:; / .<7 <'1.7'1>8 6,4
?. <.>>71.?,4164 - .6 64 -'<7 5" 1 J4.41>.6 5, 6 >7&
7,46 >>?.<68>, < / 'J.6 .7 <7>1>56%

W55 6.1" .< ,471. ,1>,<<> =4.8 <,<,O67'<7 7,46 ?1,15
.7 > 5 >1.<>6 =4 ?,411' .<7 >71. 7.<7>6 '4@ .<71.?1
<.4168 ?,41 1' 6,< >. '> 5. .<71.?1 6.8 . / ?>;:. / .<76,
,??,6 7 ,<6 =4.5;,<=4.6 &.< '77.<>'<7 5. ?1,<,<;>P8 5
6.1,<7 '47,1 6>6 O ?,4164 -1.5.41 71'-' 5 Q46=4 "?.1E.;5 ,
>.5" <'- J'7 ,< =4 <. ?, 11" >71. > 5 >1>.8 5. / , <>7
1.7'1> ?,4-'<7 .<71'7<.1 >.. <;,<->< .<76 > 4<. 1>
J1'<>. / ?,17'<;.%

6 " % .6 .<71.?1.<.416 / .771,<7>'<J 71, 6 / ,68
;, / ?7.1 >.Q,41 >.5" 6'<;7 ,< >4 ?1>6.<7 >>;1.78 5.6 71
-'4@ .<';5 - 7>8 .7 56 <. ?,411, 7<>'< / , <6 5.6;, / <.<
;.1 6 56 '-, 1 Q467 E >8 ?'1 >.6 6,4 / 66 ,<6 6,46;15.6 ?
>.6 ;'?7'5 67.6 1.;,< 46 6,Q-'O5.6'4?1>6>.6 >>?'17.< .<
>. .<. .7 6. .7 >4 , 1.58 5" 6O1.7> >.5" 7,7'5 5>.
E, ,>6 O >>E'478 56 6.1,<7 >>;O46 O..75.>?,=4.>4O><7
7 ;.>4 ?1>6.<7 >>;1.7%

$" 5% % ! 1 J<.78 ! .1>1.7 .7 '16 6.1,<7 5.<46>
1.;.-, 1 5.6 E, >6 =4 5.41 6.1,<7 1. / 6 ?'1 % 4O, 6
'-, ;'7 '4 ?'15. / .<7 >. '1 68 .7 % , / ' <- 55.8 Q 6 4
5" ,<;411.<;.>. 8 5 -1.6 ;O' ;4<8 >'<6 5=4;55
6, / / . % 4O, 6 .7 , / ' <- 55.?,411,<5>,<<.1?,<
;, / ?7'<5 5. / ,<7'<7>.6 >>?.<6.6 =4 .4@ ,4 5.6?.16, <.
=4 56 1.?1>6.<5.<7 ,<7 E' 7.6 1.5'7 - . / .<7 O 5.41 ?1,Q.5>
<'- 57 ,< >.6 1 - >1.6 > 66,<. .7 > 5' / ?.68 5.6=<.55.
>>?.<6.6 6.1,<7 Q465 E5>.6 ?'1 =4 77'<;.6 .7> '56 .< O,<<
E,1 / .% >>E'47 ?'1 % 4O, 6 .7 , / ' <- 55.>.1
/ .771.;.6 E, ,>6 >'<6 71, 6 / , 6 O ;, / ?7.1 >.5" 6'<;5,
>4 ?1>6.<7 >>;1.78 56 6.1,<7 >J'5;/ ;<7 >..O46 >.7,4
>1, 76 .7 ?1>7. / ,<6% Y

#. ?1,Q.7 >.>. .1.7 .67 '>,?7>%
+ 41 5. 1'??,17 >. % # ' / 468 5.6 >. .1.76 6
-'<76 6.<7 1.<>46 N

W 66. / O5>.'<'7 ,<'5.8 ,<5 5. 1'??,17 >.6,< ;,< 5
>.6 c\. \6 ,<68 >>.1>7. ;. =<5 6 7N
W 17% F% " > 6?,6 7 ,< >. '17 ;5. '>4 5 71. h&7
>>;1.7 >4 ' ,#778 =4 ?,176 =4G 5 <.?,411" >71. ';;,1>
>.?.<6 ,< O ;.4@=4 Q,4 66.<5> '??, <7. / .< 68 J'J.6,
;,<,1' 1.68 <. 6 '??5=4. ?'6 '4@ Q4J.6 >.?' @ < '4

;'1?6 '> / ' 671'7 `8 5.6=4.56 Q, , 1,<7>.6 ?.<6 ,<6 J4 56
''1' .47 <J1 7 .68 =4, =4 56 1. , -.'7 H <>. / < 5 ' '771 '
0<>; '5.4 'E,<; ,<6%
' & ' "> 6?,6 7 ,< > .' '15 ; ." 5 ' >< / <.'7 71.8
=< ?, .'=<.P=4 =77 K 7>7> .'J1'>.' ,< 5.6 0<;7 ,<6>G4<
?.<6 ,<< 8 5" ?.<6 ,< <.'?,411"Q' / ' 6 .@; > .1 5" 6, / / .'
>.' '5 1%8 7 . '7. 7>8 .< ; .' E' 78 =<.' >'<6 7,<6 5.6 ;'68
.7 =4.56 =<.' E466.<7 5.6 '??, ,7. / .<768 56 <.' ?.4-.<7
5.' ;,< ?7E,%?,41 > 7.1 / <.1 5" ?.<6 ,< =4.'641 .' ? .>
_5.' 8 '5 -%8>.' / '<5 1.'=< '?1 6 71.< .' '<<..6 >.'6.1M
- ; .' ,<<.'>, 7?'6 ,07.< 1 ?546 >.' 8 '5 -% >.' ?.<6 ,<8
>.' / / .'=4 ,<<.'6'41' 7, 07.< 1 ?546 >.' ('5 -% '?1 6
; <=4'<7.'<< .6 >.'6.1- ; .%
W .6 ?.<6 ,<6 .7 6.; , ,16 '; ; ,1> 6 ?'1 66. / 05..'<' '
7 ,<'5.'??411,<7 71.'6' 6 68 Q46=4 ' ; ,<;411.<; .'>.'5" / , '
7 .'>.' .41 / .<7'<78 ?'1 ' ;1>'<; .16 >.6 ?.<6 ,<<' 1.6
0 >.6 .<7 71.8 ?, 41 . ,71.7 .<8 <,411 741.' .7 5,J. / .<7 S
8 +'$ 66. / 05 .'<'5 ,<'5.8 ,45 .'1'??,17>.'6,<; , / 5'
>.6 ?.<6 ,<68 =4'54' "1.<>4 ; , / ?7.'>.6 7'76 >1.66 6 ?'1
.'>1.;7.41 J < 1'5 >.'5" 5 =4 >'7 ,<8 '<<.@ 6 '4 ?1 6.<7
>,;1.78 .7 >.6 - 1 <;'5 ,<6 1.5'7 - .6 '4@> 76 7' 68 7' 7.6 ?'1
.'>1.;7.41 J.< 1'58 > ; 7.'=4.' ,6 ?.<6 ,<6 <,<; .6 '4
?1. / .1 7'78 / ,<5'<7 ' 98* '5 -%)'6,46 '>.<%8 1 7'05 78
.,<5,1 / / .<7 '4> 7 .7'78 5.6 ?.<6 ,<6 ;, / ?1 6.6 '4 6.;,<>
> '58 / ,<5'<7 '()8 ('5 -% '6,46 8 1.;1..8 ; ,<E,1 / / .<7
'4>7 7'78 5.6 6.; ,416 ?,17>6 '4 71, 6 / .'>'58 / ,<7'<7 '
(8U ' -% .6 6.; ,416 ?,15>6 '4 =4'71 > / .'>7'78 / ,<7'<7
' C8* '5 -%8 6.1,45 ?'V>6 641'5.6 E,<>6=4'V ,<7>7> >.67 '
<>6 ?'1 5.6 >>; .76 >.6 ' ', 5 (* ' .7 C 'E>-1 .15(* 8 '4@
?.16,<<.6 >><, / / >.6 >'7-65.6> 76 > '568 .7 ?,41 5.6 6, / '
/ .6 >, <;..6 ' >J'1>'>.' ;5 ';4<.'> .55.68 >.'5" ?'<>1.'
.7 '4@ ; ,<> 7 ,<6 ?,17>.6 ?'1 5" 5, %Y

% '1 < ?1. 6.<7.8 '4 <, / ' 4 ; , / 7.'>.6 1'?M
?,1768 .'?1,Q.7 >.'>.;1.7 64 - '<7N
'$ 66. / 05..'<'7 ,<'5;8 '?1.6 '-, 1 .<7.<>4 6,<
; ,< 7;'>.6 1'??,176 641 5.6 1.; , / ?.<6.6 " '; ; ,1>.1
" ; .4@ =4 ' ,<7 . / ? ; ; .'5.' ?546 . E ; ' ; . / .<7 7 ''
1.<<.6 .-'6 ,< ><'1, '
' W .>'1E1=4 .55.' .67 6'7 6E' 7.>4 O .'.E>.5"?14M
>.<;.'>.6 <. / 01.6 ; , / ?,6'<7 5.6 > 1.;7, 1.68 ; ,1?6
'> < < 671' E6 .7 5.6 / 4< ; ?'5 7V >.6 >.?'17. / .<76
>.'5" ,46.8 >.'5" '1<.' .7 >.]' 1>.<<.68 >4 ; ,4M
1'J.'>.6 J'1>.6 <'7 ,<'5.6 .7 >.'5" J.<>'1 / .1 .'>.'
; .6 >.?'17. / .<76I >4 ; - 6 / .'>.6 71,4?.6 >.'5 J<.'
=4 8 .< ; .77.' ; 1; ,<67'<; .8 6.'6,<7 1 4< .6 '4@ ; '
7,V.<6I =4 56 ?<70 .< / .1 7.>.'5" ?'71 ;Q .71. / ?5 '
; ,<,1'05. / .<7 5.41 >.- , 1I 8
K (3.#(,((* ,.(,
_'5p 3 4.'>.4@ / ' 6,<6 <'7 ,<'5.6 6 7<. .6 >'<6 5"
- 55.'>.' '1.<<.68 ,;;4?. .6 '471.E, 68 4<.' ?'1'>.6
/ =<; '>.68 '451.'?'1>;6#,1>.5 .16%6.1,<7>.67 '
<..6 7'<7" . / ?5' ; . / .<7 '71 04<'5 >4 > 671 ;7=4 "
E,1 / .1 4< =4'17 .1 ?,41 4< >.7'; ; . / .<7 >.' ; '-'5. '
1 .8 .7 =4.'5.6 E1' 6 >.' ; .6 .7'05 66. / .<76 6.1,<7 64? '
?,17.6 ?'1 5.'71.6,1 <'7 ,<'5I
WCD 34 5 6.1" >,<< 8 '< <, / '>.'5" <'7 ,<8 "5"
; , / / 4<.'>.' '1.<<.68 >.4@ ? ; .6 >.' ; '<,< .7 4<
>1'?.'7' '4@ 71, 6 ; ,45;4168 ?,17'<7 ; .77.' <6;1 ?M
7 ,< N W' '>'5" ' a A'
5 4< E46 5 .7 4< 6'01.'" ; ; ' ;4< >.6 J'1>.6
<'7 ,<'4@ >.' ; .77.' - 55.I
I' D3 5 6.1" .J'5. / .<7 >,<E '4<.'? ; .'> ' ; 'M
<,< " 5" - 55.'>.'#5.1 / ,<78 .7 ; <= ; .<76 E46 56 ?,41
V71.'> 671 0 5a6 '4@ J'1>.6 <'7 ,<'5.6 >.' ; .'> 671 ;7I
; <= ; .<76 E46 56 .7 4<.' ? . ; .'>.' ; '<,< " 5" - 55.' .7
'4@ J'1>.6 <'7 ,<'5.6 >4 > 671 ;7 >.' ' <7. .4. '
; ,45>I
WUD 34 5 6.1" ?'V>8 641 5.6 C / 55 ,<6 >.67 <.6 '
1.; , / ?.<6.1 >.6 6.1- ; .6 1.<>46 8 '4@ ; 7,V.<6 ; '
'?1.6 >><, / / .68 5.6 6, / / .6 =4 ' - ,<7>71.'>V .1 / '
<. .68 6'- , 1N '4 6 .41 1, 4.78 / ' 71.' >.' ?, 67.' '
' <5. ><; ; ,45>8 8 '5 -1.6I '4 6 .41 I '4; .8
?1, ;41.41 >.'5" ; , / / 4<.>.' '1.<<.68 C 8 '5 -%I
'4 6 .41 ' 6,<8 ; , / / '<>'<7 >.' 0'7' 55, 7 >.'5"
J'1>.'<'1 6 .<4.8 C 8 '5 -%I '< 6 .41 ! 4 55'4 / .8

' ; , / / 6 >4 > 671 ;7 >.' ' <7. ><. ; ,45>8 8 '5 -%I
'4 6 .41 .05'<;' ' <>8 '40.1J 67.' " '1.<<.6I "
' % '45 .05'<; 8 ,1E. -1.I ; .-.<< .- 55.77.8
' J1.EE .1 >4 Q4J.'>.' ? ' @I 467 < ! .,1J.68 ; '? 7' <.'
>.6 J1.<'> .16I #,=4 55,< 8 ,1E. -1.I ,46 <8 J'1>.'
<'7 ,<'5I K,5'<>8 / 'Q,1 >.' 5" J'1>.' <'7 ,<'5.I
7 .<<. ..0 .?VI '<J <8; ; 141J .<W '1.<<.6I
K.>48 / 'Q,1I #'11.8 ; ,5,<.5 >.'5" J'1>.'<'7 ,<'5.'
>.' #5.1 / ,<7I H.<'48 '<; .,'E,411 .1'4 1VJ / .<7
>.' / ,46 < .7 J'1>.'<'7 ,<'5 >.' ' <7. .<.<,45>8 '%
2 ; :' ;4< 5" 6, / / .'>.'98 '5 -1.6I =4 5 6.1" ?'V>
?'1 5.'71. 6,1 ?405 ;8 641 5.6 C / 55 ,<68 '4@ 6 .416
.J< .1 >.' ,<7 K5.4- 55.8 .6 : ,48 1, 4.7 >.' ,<7 '%
E'4; ,<I '1 .'K467:1,8 J.<>'1 / .' " '1.3<.6I H'4 '
; ; .58 '<; .< E,411 .1 >4 1VJ / .<7 >.' K. 04<;.8
J'1>.'<'7 ,<'5 " '1.<<.68 .7 .? <7.8 J.<>'1 / .' "
'<7. .<. ; ,45>8 " ; ; ' ;4< 5" 6, / / .'>.' 8 '5 -%Q
$ D 34.'5.'6 .41 .J1.78 / '1; ; '<> ' <7. V'
<. ; ,45>8 1. ; . -1'8 ' <6 =4.'5.'6 .41 .Q' 8 ,EE ; .1 >.'
5" J'< .'<'7 ,<'5.'>.'5" / V / .'- 55.8 *(6, / / .'>.
C% '5 -1.6I $
$ $9D 34.'5" - .4- .'#,77,'&>.' 55.16 .< % 1J,<<.P'
1.; .-1" ; .55.'>.' 8 '5 -1.6I 5.'6 .41 '5'<>.8 E1.1.'
>4 6 .41 '5'<>.8 '66'66 <.8 5" 6, / / .'>.' '5 -%I
(D 4 6 .41 .< '48 J.<>'1 / .' ' #5.1 / ,<78
9 '5 -1.6I
$)D 4 6 .41 16 ,<8 J.<>'1 / .' 641<4 / V1' 1.8
U '5 -1.6I G
W <E <8 =4.'5.' ?1.6 >.<7 6.1" ; ; '1J>'&H.;1 1.'4<.'
5.771.' ?'17 ;45 1.' >.' 6'7 6E' ;7 ,< '4 > 1.;7, 1.' >4
> 671 ;7 >.' #5.1 / ,<7 .5 '4@ ,E ; .16 / 4< ; ?'4@ '
; .77.'- 55.8 ' <6 ' =4 " ; .4@ >.' ' <7. V<. ; ,45>8 $
' 9 'N .'>. / '<>.'5.'1.<-, '>.' ; .'?1,Q.7
%>.'>. .1.7 " ." ' / .<>4 ; ,1' 7.'>.6 ?.<6 ,<6%
' 5 ' .' / ,??,6;' '4 1.<-, 8 .7 Q. ;1, 6
=4V 66. / 0 V.' ">.Q ''77.<>4 71, ?'5,<J7. / ?6 ?,41
>,<<.1 >.6 7V / , J<'J.6 '47: .<7 =4.6 >.'6'7 6E' ;7 ,<
.7 >.'Q467.6 1. ; , / ?.<6.6 ">.6 ; 7,V. '6 =4 ' ,<7 ?.<7 '
V71.6'=-V 5" H1'<; .'%>4<.' J4.11.' ; - 5.% 5 .67 4<
1.?1, ; ; .' ' E' 1.' '4 ; , / 7.8 . .67 > 'V, 1 / 6 >.6
0,1<.6 "5" / 4< 5 ; .< ; .'<'7 ,<'5.% 8 5,16=4.'5.'1, '
8 "V7.' '11 7.8 ,< >7' 7 -.<4 > 1.'N$ 55 6.1" '11>7V ?,41%
C % '5 -1.68G Q.'>. / '<>.' =4.5 .67 5.' ; 7,V.< =4 '
.E57 6.1 6 ,??, .1%%=8 ' ')
,468 <, 46 '
7, 46 P '??.5.0 - ,46 =4.5 E47 5.' / ,4-. / .<7 >.'
66. / 0 ; .' 5,16=4.' % '<J < - <7 ' <, <; .1 '1'
1.67'7 ,< >4 1, % .<V71. .' > 4< 6.<7 / .<7 ?1,E,<>
>.'1. ; ,<<' 66'<; .'?,41 ; .6 ; 7,V.<68 1 66. / 05..'<.'
;147 >. - , 1 > 55.1.1 5.6 V; , / ?.<6.6 =4 .55.'5.41 >. '
; .1<' 7 =4.' ?,41 6.' E' 1.'?1V6.<7.1 ?'1 6,< ; , / 7V'
4< V7'7 / ,7 - .'>.'1.?'17 7 ,<% 34.' ,< ; , / ?'1.' ; .'
=4.'<,46 -,46 ?1,?,6,<6 > '; ; ,1>.1 " ; .6 ; 7,V.<6
'- . ; '5.6 1. ; , / 6.6 >.' '<; .< 1.J / .8 >V; .1<. .68
<,< ?'6 '>.6 6.1- ; .6 1.<>468 / ' 6 " >.6 >.5 76
; , / / 6I 1'??.5.0 -,46 >4 5 -1.' 1,4J.8 .7 -,46V'
-.11.0 >.6 6, / / .6 V<,1 / .6 >,<<. .6 '>.6 ; ,417 '
6'<6% .'>. / '<>.'=4.'5.'?1,Q.7 >.'>>;1.7 >4 . , / 7>
6, 5 / 6'4@ -, @% & < '??5'4> 7%P
% '17 <.'4 >. / '<>.'5" ?'1,5.%
8 %5.'?1.6 >.<7 / .7 '4@ - , @ .'?1,Q.7 >.'>>.1;7%
#.'?1,Q.7 .67 '>,?7.%
'1 ' 'I %5.'?1V6 >.<58 5 V ">4 >, 47.'>'<6
5" >.5 0.1'7 ,<% K.'4; , ? >.' / . / 01.6 >.'5" ?'17 .'
J'4; ; .'<.'6.'6.<7 ?'6 5. ->6%& < >. / '<>.' ,1>1.'>4
Q,41%P '6 'J 5 > 4<.' >.5 0V1'7 ,< =4 ' <7.1.66.'> ''
' 1.;7. / .<7 5" ?.16, ; <.'>4 1, %%%
'N 4 >. / '<>.' '?'66.1 ' ,1>1.'
%I>4 Q, 41I Q.' ; ,<6457.' 66. / 0 V.%
66. / 0 V.'>. ; >.'>.'?'66.1 " ,1>1.'>4 Q, 41%
,46 5.6 / . / 01.6 >.'5" ?'17 .'>1, 7.' .'5.1.<7 '
6,<7>'<6 4<.'71.6 J1'<>.''J 7'7 ,<%
.'F! 3 R' C$ ' (, & % 'E ' '4! ,' #

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

.7'7 J5;7>.W8' ?, '7.416'66'66 <68 -,4 ' '-.O;,/0593 5" / .641.'>.'7,<6'7.6' .<5'56I -,6;1 / .6 <,4 6 ,<5'?1,-,' =4.' <> J<'7 ,<>4>.5'.7>.'5" 7.11.I > 4< 0,=7>.' 4' 1,?.'> '471.8 4< / 0<.';1'6 .67 E' 7 .<7.<>1.8 ;,54'>.'5" -.<J.'<;.I 5 6 .67 1>?>>'-.;'E41.41'>'<6'7,<6 5.6 > ,7<.6 ;,<<46 641'5" 641E';.'>4 J5,0.I 7,47 6, -.1' < " ;0'<;. 9 641'6,<71><.I ;.;=4.'?.4?5.' "71. / 05.'?,41'6,<0,<:.41I 4<.'?4<7 ,< / . / ,1'05.'.7 6,5.<<.55.' .67>,<.'<>N.66' 1.N .55.'?.47 6.45.' 1.<>1.'2'5" H1'<;.'6" 71'<=4 55 7V8 .' 4' 1,?.'6,<0'1 / ,< .8 ;'7,<6 5.6 1, 6 5.41'71,<.' .'5.416 64V 0.76I '4 / ,<>,.<7 .1'5.6 -.1546 =4' .<?'1' 66.<' .@ V.6W

.'1.67.'>.';.6 1. / ,<71'<;.6>.'5"1' 6,<8>.'5" 0'467 ;.' .7>.'5" -.1 7V8 =4'5,1 / .<7 4< .;1 7>.' -<J7>.4@ ?'J.68 1V?,<>'"5">J<5.'>.' .@,1>.# .67 7,40,416 5" WH1'<;.' '77'=4V.'?'1' 41,?.'.<7 01.8 .1.'>.'5";'46.'=4 .55.'-" >V .<>1.I ?'1' 41,?.8 'I'<7 .'6" 7V7.'>.6 1, 6 -'<' =4.416 .7 6,46 6.6 ,1>1.6>.6 >J ,<6 'J4.11 .68 > 6; ?5 ' <>.68 <;,114?7 05.6 Y # .67 ?'17,47 >.6 / ,<;.'4@ >.' / ,176 .7 >.' ;.<>1.6I ;.'=4'6 J< ! .' - ' 6. / 05'05. / .<7 =4.'5.6 ;. / / .6 6.1,<7>J,1JV6 ;, / 7<.'>.6 / ,45,<68 ;7 5.6 - 55.6 01 V.6 ;, / / .'>.6 ;:'4 / V1.6 '6>.6 64?.' ?5 ;.6 ?'17 ;45 .16 6,<7>.67 <>6 2 ;.77.'66. / 05>.'1>J ;>.8 > 7.'<'7 ,<'5. .'? .11.'641'? .11.'>.'5" E' / .46.'5.571.' > 5' K,4 5 V6.'1.71,4-.;' .6 ?'71 ,7.6> 6?'1' 71,<5 .6 ?'15. / .<7' 1.654.1,<5 5.6 <,4-.'4@ 4J.6I 5.6 '<; . 6 ?1>5'76 6.'>>E.1,<7>.6 <,4-.'4@ V->=4.68 .7 ;.77.' '<7 =4.' <,05.66.8 7,40,416 E >>5.'"<1,'.7.' 5 ,<<.418 .@7.1 / <.1" ;.4@>.'6" ;'67.'=4' ,,7 71'0 .8 88' 2' / ,<6 =4 56 <.'6.' 1.?.<7.<78 .7;8

8 4'1.67.8 5 E'47 6.': 7.1>.'5 1.' ;.7>;1 7>.'5"1' 6,<8 G;'1' 5 .67>7:'5"E< =4.' ;.' / '<E.67.'6.1" 0 .<7E7 64 -' > 4<'<71.8 =4 ,<<'4 "?'6 5.'7. / ?6 >.'5 1.8 ?'1;.'=4.' 5.6 1.0.55.6 W<.'5.'5 1,<7 =4 .< 1.;.-'<7 5" / ,158 Y #.7 '-.15 66. / .<7 / '5 < .67 4<.' / '<>1.' 0147'5.' .7 <,4-.55.' >.' / .771.' 4<.'01,;:41.' .< -.< .' .7>';:''<>.1'4< ,4' -1'J.

\# $ % &

'), ' + ' < 3 ' ' ' (* G

/ ' # ' ' ' '

48 ?'1'5.'>1.;7, 1.8 5" ?>7 7 ,< ?1>6.<7V.'?'1'5.6 ;' 7,V.<6 1.5 J ,4<'1.6'>.'5";,<1.665,4> 4J60,41J8 >, / ' ;5 .6 V 1,V.68 7.<>4<7 ;;=4 5 6, 7 '11.5>'?'1'5.'>1.;M 7,1.'=4 5 5.41'6.1"?.1< 6 >.'6.'1>4<1'>'<6 >J5 6.'>.' '<7 ';=4.6 '4@ ,<'<6>.'5'>7.'-55.8 ?,41'V .@.1;.1 5.41';40.8 >5" ;:'1J.N p>.'<.'1,405.1'.<1.< ,1>1.' ?405 ;'>7'05 ?'1'5" 5,'I Ch>.'5' 66.1' .>E ;.'5 01.8 641'5.' ?1. / .1'-.17 66. / .<7 =4 '5.41'.<6.1">,< >?'1' '>/ ' <651'7 ,<I p>.';.,<6.1-.1'7,46 5.6 ,00.76>.'>.;,1'7 ,< .@7>1 .41.8 2' .5 .7>.' =4, ' 5 .< 6.1">1.66> <-.<7' 1.' ?'1' .6 '> / < 671'5.416 >4'> 671 ;7>.' 1,V.6I .7 =4.8 6,46 5.' / >15.'>.6>7.6 ;.'1J.68 =4' 6.1,<7 1.J'1>.6 ;, / / .' <6>?'1'05.6 >.'5" ?.1 / 66 ,< =4'5.41'6.1" '.' ;,1>.'>.'6.'1V4< 1'>'<6 5'>7.'VJ5 6.8 5.6 ;5.E6 >.6 ?,15.6 > .<51V..< 6, .<7 1. / 6.6 > <7, <.'#'4;:V8 4<> .4@8 =4' .<>. / .41.1" ;:'1J.8 ?,41' .6 1. / .571.'>5,47.6 1>' =4 6 7 ,<6I '-6 >4'>1.;7, 1.'>4'>671 ;7>.' 1,V.68 >4 C*04 55.7>.1< .1I7,47 ;,<6>.1.8 .7 '?1>6 '-, 1'.<7.<>4 5.'?1,;41.41'J,<.1'5 6V<> .'>4'> ?'15. / .<7I

.'>1.;7, 1.' ;,<6>.1'<7 7 S$ =4.'5.'5 01.'.@.1; ;.'E.' 7,46 5.6 ,457.6 .67 4<.'?'17 .6'.1>.'>.'5" ;5'1'7 ,<>.6 E, 56>.' B, / / .8 =4.' ; .67 4<.'?1,?1 .7V 1>.5 .'>,<7 5 .67 0467.'>.' / .771.' 5" 0,4 66'<;.' > ?,15>.>.' ;0'=4.; ' 7,V.<I

' CG 34.'; .67 '4@ ;,1?6 '> / < 651'5 E6 =4 .67 1>6.1->5.' ?1>;. .4@ '-'<7'J.'>.'?1,;41.18 ?'1'7,46 5.6 < ,V.<6 =4' 6,<7 .< 5.41'?,4-, 18 .@.;47 ,<>.6 5, 6 =4.' 66. / 05..' <'7 ,<'5.' "?,15>.6 641;.75.' / ?,17'<7. / '7>1.I

G B#, ' ! ' ! & ' ! & $! ! ' 2' # ' ! '>!# '+#!')! ' ' && ! ! ' !' ' ' ! ! ' ' !) ! ' # ! ' ! ' '): !' !' ') # '$ + !(& ' ' ! ' ' ' ! (! ' ' !'$ (')* +#!') :>! (# !' ' @ # !' !' :! > ! = ! !') & : ! %!)' !' &) ' !' ', !' #:)A

H B#!(, ' 'C & ' ! & ' # ' &)# ' ,#) ' !'+#! +#!'$ %!# ( )!') ' ') ! ' ! %!

4<.';5'66.'>.'; 7,V.<6 =4'- ;4>1' .<7 5" 1>;5' / .1'., / / .' 4<.'6'7 6E'; ,' '>.6 .11.416 >.' '4; .< J,4-. / . / .<78 .5 >.6 .@.>6 =4.'1 J< ,1'<;.' .7 " 64?.167 7 ,< <' ,<7 E'7 1,? ,<J7. / ?6 6,4 E1 1I

p 34.'5.6 <7.1V76 >.' 7'7 <>?1,4-.1,<7 '4;4<.'7G 7. <7.'>.' ';4. 5 =4'6.1" E' 7 > >;6 ; 7,V.<6 1.5 J ,<' <'1.68 ?4 6=4 .< 6,55 ; 7'<7 5" 6 / ?5.'E';457V>.'6.'1>4< 1' >'<6 4< .>E ;.'<'7 ,<'58 56 6.'6,4 / .75.<7 >.'6 .< 1.7 1..' '466 7,7 =4 ' '41" .7>E' 7 4<.'6,4 / 66 ,<?,41'5.'5.4.1',"' ?,41' ';=4>1:18 .7 74> / .' > " ?1. / >1.'1>=4 6 ,< >.' '> / < 671<5 ,<I

9p 34.';.77.'E';457V .67 4< .<;,41'J. / .<78 4< 6 J<.8 <,< >.?1,7.;7 ,<8 / '6>.'0467 ;.8 .<-.16 <,6 E1>1.6 >4< ;457.'>E5.1.<78 =4' ?.47 . '1'??.5.1'>'<6 5.'>.?'17. / 1<78 .7 '-.' .4@ .6 ;'?7'4@ .7 <>4671 .'=4.' <7, V1' ;.' '-'5 E,1.>6>.'6.'1>E4J .1'>'<6>.6 7.11.6 >71'<J>1.6I

(p 34,';.77.'; 6 >>1'5 ,< .67 / ?,15'<718 6417,47 >'<6 4<.'-55.'>.'; / / .1;.' ,>'5" <'741.'?1>6.<7.'> <>46 1 .' 5,47.6 5.6 1.66,41; ,6 ;'?'05.6 >.'5" ?,17.1'4 ?546 0'47 >.J1>' >';7 - 7>8 .7 =4.'6,46 ;.'>.1< .1'1'??,17 <5>1V7 >4 >>?'15. / .<58 <6.?'1'05.'>.5 <V1>7 <'5 ,<'58 '47,1 60 .6'> 4 < 651'5.416>' ;;4. 55 1'; .77.'>. / ''>.I

)p #,<6 >.1'<7 . ! 7 =4.' >>E ;.'<'7 ,<'58 ; <<4 6,46 5" >><, / 4'7 ,<>>J5 6.'>.' '<7 -.<7 <8 ?.47 / .4@ =4.' ;.54';,<<4 6,46 5" >><, / <'5 ,4 >.' >J5 6.'>.' '<7 ' =4.6 1. / ?5 1' ,00.7>.'5" ?>5 7 ,< >.6 ; 7,V.<6 1.5 J ,<' <'1.68 ?4 6=4.'5.'?1. / .1' .67 6 74> > 4<.'>.6 .@71> / 7>6 >.5"-55.8 >'<6 4< .<>1, 7>;'17>8 .7 =4 5 ?'1'57 / ,<6 =4.'7,47 '471.'646;.?7 05.'>>71.'-.<>4 ,4 5,4>'-.;' !7;' 5 7>8 " '1 V7.';.'=4'6 4 7N

17 F .6 ; 7,V,<6 ,4 >, / ;5>6 >'<6 5" - 55.'>.' 1,V.68 1.5 J ,<<'1.6>.'5";,<E.66 ,<'> 4J60,41J8 '4' 1,<7 5" E';457V>.'6.'1>4< 1'>'<6 >>E ;.'<'5 ,<'5 ;,<<4 ; >.-'<7 6,46 5" >.<, / <'7 ,<>>J5 6.'>.' '<7 -.<5 <8 ?,41' V .@.1;.1' B01. / .<7 5.41';457.8 6,46 5.6 ;,<>7 ,<6 ' '?1>6 N

G '?5';.1'4<.' <6;1 ?7 ,< 641'5" ?1 <; ?'5.' ?,17.' > .<71>.8 ?,17'<7 ;.6 / ,76 I @ ! ' 2' ' ' ') ' ;457.' & '

' ' 5

CG .'<.' 1,405.1' .<1 .< ,1>1.' ?405 ;'>7'05' ?'1'5" 5, I

G .'5' 66.1' >>E ;.'5 01.8 641'5.'?1. / .1'-.17 66. / .<7 =4'5.41'.<6.1">,<>'?'1'7'> / < 671'7 ,<I

UG ' ;,<6.1-.1'5.6 ,00.76 >.'>>;<1'5 =4 .@5>1 .41.'>,<7 5 6.1">1.66>4< <-.<7' 1.'?'1' 5.6 '>< 651'5.416 >4'> 671 ;7

,46 . / .15.'>.6 ;,<>7 ,<6 ; >.66468 5.'>1.;7, 1.' ' 7,1 6. 5.6 '> / < 6 1'7.416 >4'> 671 ;7>1; / .751.'5.6 ;5.E6 5 .6 ?,15.6 > .<71>.'>.' .>#;'> <7, <.' #'4;.V8 E'01 ;'<5 ;< ;.77.'-55.8 =4'6 .<;0' .1" .7 6.'6,4 / .771'8 <-..51, 6 '471.6 ; 7,V.<6>4 / > / ;457.8 .7 6 ,5>'1.4'.47 .471.' ;4@8 ?'1'" ;7.'?'66> '4 6..1>7'1 '7>4 > 671 ;78 7'<5 2' 5"1. / 6.'>.6>7.6 ;5.E6 =4 > ' ;. / ?5 66. / . 7>.6 '471.6 ;:'1J.6 =4'5.41'6,<7 / ?,6>.6 ?'1'5.'?1>6.<5 '11.5>

' .'>1.;7,1.'1.;, / / '<>.'6?V. '5. / . 5 .@.;45 ,K .7 5.' / ' <7 .<>.' ;.6>6?,6 7 ,<6 '4'0.5.' .7 '4 ?'71 ,7 6 / G >.' 5.6 '> / , 671'7.416 >4 > 64 ;7 #7 >.'5" / 4<; M ?'5 7V

\# ' 73

.6 56 .75.6 ?.17.6 >'66 J<'76 6.'1.<,<-.55.<7 ;0'=<,' 0,41

"#' 66.'?'71 ,5 =4.'6 .67 ?1,?,6>.8 >>6 5.'?1 <; ?.'>,' 6,< >7'05 66, / .<78 >,EE1 1' '4 ?405 ;' .6 / ,V.<6>>-5.1' ;.1 6=4.8 .< 1.;.-'<7 .<>.?E7 .6 6, / / .6 =4.' ,<04J, 1'7 "?1,?,6>.'54'-.16.18 .7 > ,<7 ,<E,414 1' 7>.6 1'4<' >'76 641'.55.'> / .641.'>4 0.6, <

.6 ; 1; <67'<; .6 'V'<7 .@ J>=4,'1'> / <5651'7 ,<'??,1' 7>7 > '0,1>7,47.'6" 641-.55'<;.'2' > / 66 , '>.6 0 55,76 G 5" .' 66.8 .55.' < " ?4 0<6=4>.' ' / , / .<7 / .771.'; .77.' ,?5' 1'7,< .< ?5. 4,';7 - 7VI / '6 .55.'?1>- .<7='.55.,4-1 1'8 5.'E' 6.?7. / 01.'?1, ; ' <8 4< 041.'4 >.; , / ?7.6;,41'<76

\#:';4< ?,411" E. / .771.'>.6 E,<>6 2'5" ;' 66.8 .7 5 .< 6.1",1.>7>'U6 ,< ;, / ?7.8 >,<78 .:'=4.'E, 6 =4 55.'>>6 ' 1;1'8 ,< 54'E,4 / 1'4< .@ 1' 7

" 66.'&.1'8 6'<6 E1' 68 5.'1.;,4-1. / .<7>;6 .EE.766,1' '1 68 ?,41' ;.4@ =4' '41,<7 4< ;, / ?7; ,4-.'15 ;0.0 ;55; 55.'E,41< 1J >.6 / ?1 / .6 >;' / '<>'768 >,<75.6 7'5,<6

547 1; 7.1, <7 ? , 41 ? , <- , 1 '6641.18 '4 0 .6 , 5<8 > . '5 " ->
1' ; '> .6 / '<>475
, 41 6 . ?1>5.18 47'47 =4 , ? , 66 05.8 '4@ . , <7.<'<..6
?'17 ;4 .1.68 5" ' ; =< 55.1" >.6 / '<>'76 / > < . > .
9 -%8 6 7 , 47.E , 6 , < < " E' 7 > .6 E , >6 . < '66 J<'76 > .
;.75 6 , / / .I ? '1 ; / , V .?8 ; , @=4 '41 , <7 5.41 ; , / ?7 9
5" ; ' 66.8 3 71 , 41'<7 5. [1 . ; .4 . 75.41 >>? .<6. 046=7 " 5"
6 , / / . > . -i ? , 411 , <7 6 , > 6? .<6.1 > .%7.< 1 > ' 1.6
; , / ?7.6 # : .0 .4@%
5.6 E , >6 1.16>6 > 5" ; ' 66. ' - ' ; <7 > > . < '66 J<'76
> . C8 %8 8 % .7 9 %8 , < < .? , 411 ' ? '6E , < / 1> .
/ '<>'76 ' ' > .66 , 46 > . \
: " ; ' 66. >EE5.771" < ; .66' / 7 .?7 > .6 0 55.76 > . '6 , 46%
55. 1 .<7 > '0 , 47.1 / 55 , < '4 > .?>7 > . / 55 , <6
C) 8 B1% =4 .57. ' - ' 5 E' 7 ; > . - '<7 " 5" / 4< ; ?'5 7>%

K #3 %

"

' / . + + ' , . - %8 , .

8 ' F ' a ' &

' ' J ' # ' ' 5 ' MW %

% ' ' ' 0 ' ' ' '
T ' & ' ' 66. / 05> ; ' <'7 , <'5. ' - , 46 " 7<'< 5>
? , 41 =4 . ' - , 46 54 ' 1 .<> 66 .0 ; , / ?7. > . ' .@> ; 47 , <
; 5 ; 6.6 >> ; 1.766<1 " > .E.<6. > .6 ?5' ; .6 E1 , 7 7 1.68 .7
67 1 E .<- , > .6 71 , 4? .6 > . 5 J< . =4 ' " >E5 V > 1. E'17%
F ' ' ' ' & 0 .6 , 1>1.6 , <7 .7>
&5 , <>6 ? , 41 / .E71. 7 , 47.6 5.6 ?5' ; .6 .77 , 46 5.6 E , 176
.< >7'7 > . > .E.<6.% V " 71 , 6 / , 6 =4 . Q ' > , <<.
> .6 , 1>1.6 '4@ > 1. ; 7.416 > . 1'17 55.1 .8 ? , 41 E' 1.
/ '1 ; : .1 > .4@ ; , / ?'J< .68 4< . K'V , <<.8 '471.
" .1? J<'<% ' '>J'5. / .<7 > , <<. > .6 , 1>1.6 ? , 41
' ; ; .5.1.1 5.671' - '4@ > .6 '16.<'4@% .6 / , V .<6> .
> .E.<6. < .6 , <7 ?'6 1.6 J1'<>6 641 ; .77. E1 , <7 1.8
?'1 ; . =4 . > .?4 6 5 , <J7. / ?6 , < .7' 7 > '<6 5" ?546
?'1E' 7. 6 ; <1 7.I > ' E416 5. ?'V6.67 ?'1 54 / < .
.< .7'7 > . > .E.<6.% V " =4'71. 0'7' 55 , <6 ' .1? M
J<'<8 > .4@ K'V , <<.8 .7 > - .16 > .7 ; : . / .<76 >'<6
5.6 K'66.6 V1 <>.6% # .<7 ; <=4'<7. / 55. : , / / .6
> . 71 , 4? .6 > . 5 J4 . < . ?.4- .<7 ?' X71. 71'<6E.1 6
6417 , 47. 5" ; 1 ; , <6E>1.< ; .>4 1 , V'< / .% < < . ? .<7
?'6 .< / .771. ?'17 , 478 , < 0 .< , < < .< '41' 74455.
?'17% " ?546 J1'<> . ?'17 . " > . ?5' ; > . 67 1 5.6
1 , <7 1.6 > .6 .0> . - '<7 ?1 , - < ; .6 > 56' ; . .7 > .
H5'<>1.%
5 V " '66.0 > . 71 , 4? .6 >'<6 5. '4? : <>8 5" 1 , M
- .< ; . .7 5. > .?'17. / .<7 >4 # '1>I .58 .< ; '6 > '77'
=4 .8 .55.6 ? , 411' .<7 E' ; 5. / .<7 >71. ? , 17>.6 641 5.6
E1 , <7 >1.6> 6?'J<.% 3 4'<7 '4@ J'1>.6 <'7 , <'5. 8
5.6 <.641.6 , <7 .5> ?1 6.6 > '<6 5. > .?'17. / .<7 >.6
K'66.6 V1><..6 ; , / / . > '<6 5.6 '471.6% 1.<7. 6 @
: .41.6 '?1>6 5. >> ; 1.7 =4 / . ; : '1J. > . ; .77. ?'17 .8
5.6 , 1>1.6 >7' .<7 > , <<.6 '4@ >>?'17. / .<76 .5 '4@
; , / / '<>'<76 > .6 71 , 4? .6 > . 5 J< .8 .7 5.6 <6714 ; M
7 , <6 =4 . Q V '7 Q , <7.6 6 , <7 ; , < ; 4.6 > . 7.55. / '< .1.
=4 .8 6'<6 , 1>1.6 457>1 .4168 5.6 > 1. ; 5 , 1.68 .<6.
; , < ; .17'<7 ' - . ; 5.6 , E5 ; .16 J><.1'4@8 ? , / 1 , <7 5.6
. / ?5 , V.1% .< ' ' ? , <7 .< ; , 1. .4 5. 7. / ?6 > . 1. ; .
- , 1 > . 1.? , <6.8 / '76 6'<6 > , 47. 5.6 >>?'17. / .<76
'41 , <7 71' - ' 55> ' - . ; 0.5. .@ . ; 47.1 5.6 , 1>1.6 =4 56
, <7 1.J46% , 46 > . - , <6 >71. > '<6 5" ?546 ?'1E' 7.
6? ; 41 5. 1.5'7 - .< ; <7'4@ 1< , 4- . / .<56 > .6 6?'J< , 56I
1 , '< '<< , < ; . '4 ; 4< ?1 , 0 .7 > '77'= .% V " K'V , <
< . . 7 .1? J<'< > .6 6406 67'< ; .6 ? , 41 71.<7. / 55.
: , / / .6 ? .<>'<7 71 , 6 / , 68 .7 5" 1> ; , 57. =4 '] .
E' 7.< ; . / , / .<7 < , 46 / .771" 0. '4 ; , 4? '4 > .6646
>4 0.6 , <%
%) , 5 ' N .' 64 671 6 6'7 6E' 7 .< / , <
?'17 ; 45 .1 > .6 . ; 5' 1 ; 66. / .<76 =4 . < , 46 " > , <<.6
. / < 671. > . 5" J4.11.% ' / . " ; 1 , 1 =4 . 5.6 6M
?'J< , 56 6.1 , <7 E > .5.6 '4@ 71' 7E6% >67 ; .? .<>'<7
> .6 ?1. ; '47 , <6 <> . .66' 1.6 Q. 7 Q. '64 6 ; : '1J. ?'1 5.

> .?'17. / .<7 > . 7 4> . > . > . / '<> .1 71 , 6 , 5 =4'71.
/ 55. E46 56 .7 =4'71. ? . ; .6 > . ; '< , < =77 6 ; 1 , : 5
? ' .> .6 # '1 ; '66 , <<.% , 06.1- . .< , 471. =4 5 1EE
" ? , <7 > , E5 ; .16 J. <>1'<@ > '<6 ; . ?'V6%
E% ' ' ' & N V " > '<6 ; . ?'V6
71 , 6 , E5 ; .16 J><.1'4@%
8 ' N .<7.<>6' - . '641?1 6. > . / '<> .1
> .6 ; '< , <6 ? , 41 # '1 ; '66 , <<.% , 41 J'J< .1 ; .77.
- 55.8 5 E'47 '4?'1' - '<7 ?'66.1 ?'1 < , 6 ? , 1768 =4 '
, <7 .< 0 , < >7'7 > . >>E.<6.
' - ' " (a G ' ')
9 ') & ' ' 66. / 05> . < '7 , < '5. " >> G
; 1.7> ; . 1 ' - , <6 6.1 .6 / '<> . ? , 41 54 ' 1.<G%
>1. ; , / ?7. > .6 < , 4 . '4@ / , 4- .< .<76 > . 71 , 4? .6
=< , < ; 5 7 6. E' 1. .< 6? 'J<.% A
F ' ' ' ' !! ' & N ' ' < '
E , 1 / > 66. / 05> . =4 . 6? 'J4. '55' 7 ?5' ; .1 44
; , 1> , < > . 71 , 4? .6 641 5" E , <7 1. > . H '< ; .% # .67
5" E , 1 / '7 , < > . ; . ; , 1> , < =4 ' , ; ; '6 , <<. 5.6 1' , 4 '
- . / .<76 ' ; 74 .56% . < , / 01. > .6 71 , 4? .6 < . 6.
/ , <7. ?'6 " ?546 > . 6 @ / 55.F : , / / .6% " ; , 71
> 6?'J< . " 646? .<>4 7 , 47. ; , / / 4< ; '7 , < ' - . . %
< , 71. ' / 0'66'> .418 .7 5. / < 671. > 6?'J<. / "
4E , 1 / > =4 5 < >7' 7 ?546 1.J'1>> =4 . ; , / / . 4<
6 / ?5. 'J.<7 > . 5" < '7 , <8 ' - . ; 5. =4 .5 , < < . ; , / '
/ 4< =4' 7 =4 . ? , 41 > .6 'EE' 1.6 ?'17 ; 45 .1.6% , 46
7.6 , ; .<?.6 " E' 1. ; .66.1 7 , 47.6 ; .6 > 6? , 6 7 , <6I
; . ? .<>'<7 < , 46 > . , <6 71. 1'6641>6 641 7 , 46 5. ' '
?1 , 0 .76 > : , 67 5 7.6%
1 ' N , 46 ' - , <6 >7> <671' 768 ?'1 > .6
5.771.66>1.68 =4 .8 > '?1.6 5" - .1 E ; '7 , <E' 7.8 5 < V
' - ' 5 ?'6 : 4 7 ; .<76 : , / / .6 > '<6 5.6 ? , 176 > 6?'M
J< . 5.6 ?546 / ? , 17'<76%
' N ' 5.6 >>?47>6 > .6 >>?'17. / .<76 E1 , <
7 ; 1.6 .7 5.6 / < 671.6 < , <7 ?'6 > '471.6 < , 4- .55.6 '
< , 46 > , <<.18 5 .67 > - > .<7 =4 . c.6 014 76 1.? '<>46
- .<<.<7 > . 5" 71>6 '>1 , 5. ? , 5 7 =4 . > . 5" 14 . M
- .<<.%
% N ' '1.J4 > .6 5.771.6 > . > .4@ <> '
J , ; '<76 =4 ' ?'1 ; , 41.<7 5" # '7'5 , J4.8 = / '664 '
1.<7 =4 . 7 , 47 V .67 71'< 4 55.8 .7 =4 . 5. ; , 1> , <
>7'05 '>55 ; 7> > . , <75 , 4 6 < .67 =4 . > . ; <= ; .<76
8 : , / / .6% I
1 ' ' < 0 (' ' ' ' '
') 6%6. / 05> . < '7 , < '5. - , 46 / '<> .? , 41 $
54 ' 1. >1. ; , / ?7. > . .<- , > '1 / .6 =4 ' " >> >71.
E' 7 > '<6 <7>1 . 1 >4 1 , V'4 / .%
F ' ' ' ') ' 5" 7 , 7'5 7> > .6
'1 / .6 =4 . 1 66 ; / 05> . " >> .1>7. > . - , 1 >71. .< '
- , V> .6 > '<6 5.6 >>?'15. / .<76 < .67 ? , <7 .< ; , 1. ?'1 '
- .<4 . " 6" > .67 <'7 , <8 Q '6641. '4 / , <6 =4 .< ; .
/ , / .<7 7 , 47 .67 .< 1 , 47.8 .5 =4 5 < V " .4 > , 067'M
; 5.6 1.@> ; 45 , < > . - , 1. >> ; 1.7 =<> # .4@ =4 V , <7
>7> '?? , 15>6 ?'1 =4.5=4.6 / 4< ; ?'5 7>6 =47 6. 6 , <7
?.1 / 6 > '11>7.1 5.6 ; , < - , 68
' ; ' N .< > . ?546 1'6641'<7 =4 . ; ;
=4 ' - .<7 > >71. > 7 ?'1 %5.6 / < 671.6% . / . .1? 6
, 05 J. > . ' 6 1 ; .77. ; 1 ; , <67'< ; . ? , 41 5.41 ?1 , M
; 41.1 , ; ; '6 , < > . / .771. 5.41 ; , <>4 7. '4 J1'<>
0 , 41% .6 ?.16 , <<.6 > J<.6 > . ; , <E '< ; . / , <5 7>
/ , J<> 5.6 ?546 - - .6 <=4 .74> .6 641 < , 71. >7'7 > .
>>E.<6 ; % .4@ ?.16 , <<.6 '11 -> .6 > .6 >>?'15. / .<76
> . 5" .46. .7> . " , 6.55. , <7 '17 ; 45>> .6 E. 7. / M
? , 17'<768 , <7 '6641. =4 4< . ?'17 . > .6 E1 , <7 .1.6 .7' 7
> .J'11Q .8 =4 , < ' - ' 5 1.7 1. 5.6 J'1< 6 , <6 > . ?54 '
6 ; 416 - 5.68 .7 =4 , < >7'05 66' 7 4< ; ' / ? =4 <0.
5 .4.6 > .6 E1 , <7 .1.68 7'<> 6 =4 . : , <- 55. >7' 76'<6
> .E.<6.% .7 .<6 ' 5" / ' < 4< / > < , 1. >4 / ' 1. >=
; .77. - 55. '4 ; , / 7> 1' 5 7' 1.8 =4 .67 -1' EE5.<7.E %
E1'V'<7 ?'1 5" ?1. ; 6 , < > . 6.6 > .7' 56% < / . / 01.
>4 ; , / 7> > ?5 , / '7 =4 .8 > J4. > . 5" ; , 5 '< ; . > .
7 , 47. 66. / 05..8 ? " '466 7> < , J<> .6 <=4 .M
74> .6 E , <>.6 641 > .6 ' - 6 ' 7 : .<7 = .6% < ' - ' 7
?'14 > . ; >> .< E' 1. ?'17 66. / 05> ; % %H1>

7.'<6 ;<';=4 77.8 Q;'<.?1;<>1' '?'65''?'1,5.I6 5
. 'E' 7 1 .<8 1, ,< >.-, 1Y ,O5 J.' '' <7.1?.55.15.
/ < 671.%
&> ''. E.;7 -. / .<7 ; ,<;4>.6 <=4 .M
74>.6 641 5.'?.4> '.7 -77>''-.; 5.=4.E6.E' 6' 7 '1'
/ . / .<7>;6 J'1>.6<'7 ,<'5.68 .7 641 .7'7>.'=4.5'
=4.6 ?,6 .6 =4 ' 64<7 >.J'1< 6% .4@ ?.16,<<.6>.
.1>4< ,<7 .@?,6.''-.; <=4 .74>.'=7 .' ;.77.'- 55.8
'' :4 7 .4.6>.'5''E1,<7 1.8 .7 , 56,<7 5.6 ?546 ?1. '
; .4@ / 'J'6 <68<.' ; ,<7.<' 7 =4.'>.4@ ;.<76 :, / M
<.6 >.' ;'-'5.1 .% '' ';;, /?'J<> ;.6 ?;16,<<.6
;:.O 5.' / < 671.8 .7 5.6 ,1>1;6 ,47 .7.'>,<<,6 ?,41
'664 .1 ' ;;77.' - 57.' >4 1.<5,17% B / .'6; / O5.'=4 5
6.1' 7 O,< >.' E,1/ .1 4< ;'/? ?,41 '??4V.1;.77.'
E1,<7E,1.%
F ' ' ' ' '& '5 5V '' =4.5 ? .6
?5';.6>.' >.J'1< .68 ; .67 =4.' <,6 71,4?.6 <.'6,<7
?, <7 '66.O ;,<6 >.1'O5.6% '' .7 ' ,O5 J.'>.'1.7 1.1
5.6 >.4@ 1.J / .<76 >.' '66'4 .7 >.' K.1[; 8 =4 '
>7' .<7 .4 <6411.;7 ,<8 .7Q.' 5.6 '' E' 7 1. / ?5';.1
?'1 5.6 17J / .<76>.' ,V'5 ,<66 55,< .7 671'6 ;%
''?1.4-.' =4.' 5'' E1,<5 E.1.'>4 ;,7.'>.' : ,<- 55.'
< .67 ?'6 '466'>.J'1< .'=4 ,<5.'?1.7.<>8 ; .67 =4.'
E,';, / / '<>'<7 <.' / .'>. / '<>.'=4.'6 @ O'5' 75,<6
>.' ?5468 .7 5.6 ,1>1.6 6,<7 .@?.> .6 ?,41 5.6 E' 1.'
/ '1;:.1% % ,;:' / O.'4'>. / '<>>6. O..6;'>1,<68
.75.6 ,1>1.6 ,47 '4 6'.7.'>,<<. 6 .< ;,<6.=4.<;.% '
.67 / ?,66 O5.'> .< E' 1.' >'-'<7'J.8 '' / , <6 =4.'
66. / O5..' <'7 ,<'5.' <.'-.4 75.'1.7 1.1 5.6 71,4?.6
=4 '6,<7>'<6 5.' #, / 7'7 .7 >'<6 5'' ,-.<;.% .>. '
;1.7 641 5.6 J'1>.6<'7 ,<'5.6< .67 =4 ''=4 <O.'Q,416
>.'>'7.8 .75.6 ,1>1.6 6,<7 >,<<>6 ?,41 =4 5 6 .@>G
;47.' '-.; 5'' ?546 J1'<>.' ';7 - 7;% 34'<7 4 >.6 1
=4 ,< '' / '<E.67>>.'-, 1 E,1/ .1 4<;'/?8Q ,O6.1-.'
=4 4<;' /?-';:.O<,468.< '??.5 .1''4<'4\>.O,16N
;.'6,<7 5.6 5, 6 J><.1'5;6>.' 5'' J4.11.%
% , '. '> 66. / O5..' .67 6'7 6E' 7.'>.6
;; ' 1; 66. / .<76=4.'1,46-. .O>.'54'>,<<.1%
'' 6.'<;.' .67 5.->.' '' 71, 6 E'.41.68

' ' #$ ' * %

41 5.'1'??,17 >.' % ,< 68 66. / O5>.'1.<>'> E '
E.1.<76>.;1.76 >.'5 =4 >'7 ,<%
+' 41 5.'1'??,17>.' % H.1/ <8 .55.'>>.1E.7.'=4.'
% ! '47: .18 <J#4 .41 ;,<6714;7.418 .<-,V> .< 6 '
?'J<.'?,41V E,1/ .1'5'' / '1<.'.6?'J<,5.8.71'??.5.'
.< H1'<;.' .< ()U8 / ,V.<<'<7 5'' J'1'<7 .' >.' 5''
Q,4 66'<;.'> 4<.'?.<6 ,<>.' □ '5 -% 8 ;,<6.1-.1''
;.77.'?.<6 ,<%
+' 7 15.'1'??,17 >4 / >/ .' / . / O1.8 66. / O5>.'
1.<>'4< >.;1.7 1.5'7 E '4@ > EE.1.<7.6 ?'17 .6>.'5''
1.J .'>.6>, / ' <.6<'7 ,<'4@% B .67 ' <6 ;,<;4 $
W 66. / O5..' <'7 ,<'5.8 641 5.'1'??,17 E' 7 '4'
<, / '>.'6.6 ;, / 7.6 1; < 6>.6 ;,<71 O47 ,<6 ?4O '
=4;68%>.6 >, / ' <.68 > '5 .<'7 ,<8 .;;5.6 '65 =4.' .7
>.'E <'<;.68>.;1.7.N
$ 17% 5.1% .6 1>J 66.416 <'7 ,<'4@'>.' ;<1.J 6 '
7'. / .<78>, / ' <.6 .7>1, 76 1>4< 68 5.4E6 ;, / / 6 .7
?1;?,6.68 ;, / / .<;.1,<78 >'<6 5'' =4 <O' <.'>.'5''
?4O5 ;'7 ,< >4 ?1.6.<7 >>;1.78 5'' 1e .'=4 ' 5.41''
>7.';,<5 ..'?'1 5.6 >>.1.76 >4'* / '168 ' ;7) / ''
>.1< .168 >.'7,<6 5.6>, / ' <.6<'7 ,<'4@8 ;,1?,1.56
,4 <;,1?,1.568<,< 'O.<>6 ,4 <,<64??1 / >68 6'<6
'4;4<.'' 67 <;7 ,<>.'5.41 ,1 J <.8 6, 5 =4 56 ;,<M
6 67.<7 .< 7.11.68 ?1>68 - J<.68 .O' / ?'1768 'J1 .168
7.11'J.68 / '6,<68 / ,45 <68 46 <.68 ;.<68 1.<7.68
1';:'768 5,>6 .7 1.<7.68 .7 '471.6 ;>1 7'J.6 ,4>1, 76
; >.-'<7E.,>'4@8 7'<7 E @.6 =4.';'64.568 .5 5.6 '>'
/ < 671.1,47 ?,41 5.';, / ?7.'>.' 5'' <'7 ,<8 6,46 5'
641-. 55'<;.'>.6 ;,1?6 '> / < 671'7 E6%
$'#;4@ ;'<.?,411,<5 6. / .771.' < 6.' / ' <5.< 7
.<?,66.66 ,<> '4;4<6 >> E ;.6 <'7 ,<'4@8 6 56 < V
,<7>7>'47,1 6>66?.; '5. / .<7?'1<<>>;1.7>4;,1?6
;J 65'7 E% %

W % .' / < 671.'>.6 ;,<71 O47 ,<6 ? O5 =4.6 -.5'
5.1'' ''..'=4 .<.@.;47 ,<>.6 5, 6 1.<>4.6 ?,41 1.'
7'O5 1 5'' <'7 ,< >'<6 5'' ?1,?1 .7.5 7 ?,66.66 ,<>.'
=4.5=4.6>, / ' <.6 ;,1?,1.56 ,< <;,1?,1.568 5'' 1.M
J .'6 .< / .77.' .< ?,66.66 ,<6'<6>>5' 8 .7 5.6 '>4 '
< 671.';, / / .'5.6 '471.6>, / ' <.6<'7 ,<'4@%
$ %5''1>J .6.1''?'1. 55. / .<7;:'1J>.>.'64 11.'
.7>.'E' 1.'5.'1.;,4-1. / .<7 >4 ?1,>4 7>.6 O, 6 <'M
7 ,<'4@8> '?1.6 5.6 '>Q4> ;'7 ,<6 >,<7>.6 .@?1> '
7 ,<6 .<E,1/ .'54 '6.1,<7;. / 6.6 ?'1 5.6 ?1.?,6.6>,
'> / < 671'7 ,<E,1.67 .1.%
% $ % ,46 5.6 1.-.<46>.6 >, / ' <.6<'7 ,<'4@8
>.' / J / .' =4.'5.' ?1 @>4 1';:'7>.6>1, 76 <;,1?,M
1.56=4 '<.'6.1,<7?'6 1.<71.6 '' .?,=4.'>4 ?1.6.<7
>.;1.78 <;'?,411,<7 >71.'?'V.6 =4 .<71.'5.6 / ' <6
>.6 ?1.?,6.6 >.'5''1.J .I 56 6.1,<7 7.<<6>.'?>41'
64 -1.'5.'?'V. / .<7 >.'7,46 5.6 1.-.<46 .7 >1, 76
.;54 68 ' <6 ' =4.'>< ?1 @ >.6 '>Q4> ;'7 ,<6 .7 O, 68
'4@7.1/ .6 ;,<-.<46 ?'1 5.6> 7.6 '>Q4> ;'7 ,<6% <
;'6>.'1.7'1>'>.'5'' ?'17 >.6 >.O 7.416 ,4 '>Q4> ;''
7' 1.68 5.'> 1.;7.41>.' 5'' 1>J .' >.;.1<.1'' >.6 ;,<'
71' <7.6 =4 ' 6.1,<7 - 6>.6 ?'1 5.' ?1.6 >.<7 >4 71 M
O4<'5 >.'> 671 ;7 >.' 5'' 6 74'7 ,< >.6 O .<68 641 5''
1.?1.6.<7?7 ,< > 4< .@71' 7 >4 5 71.' ,O5 J'7, 1.'>4
>.O 7.418 .7 / 6.6 ' .@.;47 ,<6'<6 '471.' O1 / '5 7 -
W % '<6 5'' =4 <O' <.'>.'5'' ?4O5 ;'7 ,< ' #
'>.;1.78 5.6 1.J 671.6 >.6 ' ' '
6.1,<7 '11>7.6 ?'1 5.6> 1.;7, 1.6>.' 1 '> 671 ;78
.< ?1.6.<;.'> 4< ?1.?,6> >.' 5'' & ' .6> 76 1.M
J 671.6>. / .41.1,<7.< '>.6> 76 1...-.4168
'' 5'';:'1J.'>.'5.6 1.?1.6.<7,1 7,47.6 O 6 .7 =4'<7 ''
=4 '>.'>1, 78 <,7' / / .<7 '4@ ?1,?,6.6>.'5'7 5.'1.M
J .8 ?,41 .< ?1.<>1.'7.56 .@71' 76 ,4 ;,? .6 =4 56
Q<J.1,<7;,<-.<'O ;8 .7 =4.'5.6> 76 1...-.416 6.1,<7
7.<46>.';.17 E .1% 7 6.1'' '>1.66.' '4;, / / 66' 1.'
'> / < 671'7.41 >.' 5'';' 66.'>.' ;@51',1> <' 1.';,M
? .'>.6 '11>7.6>.6> 76 1.J 671.68G;.17 E ..'?'1 5.'1.'
;.-.41 >.'> 671 ;7 .7 ?'1 5.' ?1.?,6.'=4 ' '41'' >7>
?1.6.<7 ' '11>7>8 5'=4.55.' ;,? .' 6.1'';,55'7 ,<<..'
?'1>.6 / . / O1.6>4 > 1.;7, 1.'>4 > 671 ;7% ! .7 .<-,'
6.1''E' 7 ?'1 5.'1.;.-.41 >.';:'=4.'> 671 ;78 6'<6 '4'
;4<>>5' %
$ % .6 ?1>?,6>6>.'5''1>J .'?1.<>1,<78 6'<6 '<'
;4< 1.7'1>8 5.6 .@71' 76 / .<7 ,<<.6 .< '17 ;5.';'
>.66468 .7 6.'E.1,<7 1;?1.6.<5;1 ?'1 5.6 E.1 / .16 1%7
1.>.-'O5.68 D5.6 O'4@ ,4 '471.6 5 71.6>.'5,41Q,<6'
6'<;.I CD 5.6 =4 77'<;.6>.6 ?'V. / .<76 ?'1 ;4@ E' 56
1.5'7 -; / .<7 '4@'<<. .6 ()*8 (* ' .7 (* I .7 641
5.'7,478 5.6> 76 ?1,?,6.6 6.1,<7 7.<46>.'E,1/ .1 .7'7
<> ;'7 E>.6 6,7< / .6>,<7 ;:'=4.'E.1/ .1 ,4>.7.<''
7.<1>.'>, / ' <.6<'7 ,<'4@8 ,4 ;:';4< >.;.4@= '
'41,<7 E' 7 5.'1';:'7>.'>1, 76 <;,1?,1.568 6.'71,4-.'
1.>.-'O5.I 56 >1.66.1,<7 ?'1. 55. / .<7 >7'7 .6
6, / / .6 1.67'<7 '' 1.;,4-1.1 641 5.6 '>Q4> ;'7 ,<6
>.6 O, 6 ?,66.>>6 ; >.-'<7 ?'1 >.6 @, / 1'4<'<7>6
.;;5>6 '67 =4;6 ,4 O.<.E ; .168 E' 7.6 '-'<7 (* 8 ;7
(*'?,4164 -1,<5 5.'1.;,4-1. / .<7%
W B% .6 ;, / / 6 .7 ?1.?,6.6 ?,411,<7 '466 8
7,47.6 5.6 E, 6 =4 56 5.'Q4J.1,<7<.;.66' 1.8 ?1.<>1.'
#, / / 4< ;'7 ,< 6'<6 E1' 68 .5 E' 1.'>.6 .@71' 76 ,<
;,? .6>.6 7 51.68 1.J 671.6 .7>, ;4 / .<76>>?,6.6 '4@
'1;: -.6>.6>>?'17. / .<76 ,4'> 671 ;76I 56 ?,411,<7
/ > / .' 6.' E' 1.' 1. / .771.8 6,46 1>..? 66>8 5.6 7 51.6
<>..66' 1.6 '4 1.;,4-1. / .<78 ,4 6 .< E' 1.'>;5 -1.1
>.6 ;,? .6 ?'1 5.6> 1.;7, 1.6>.'>>?'17. / .<76 ,4>>
> 671 ;76%
$ 555% ,16=< 5V '41''5 .4>.'E' 1.',4 '1.<,4'
1.5.1 >.6 O'4@ >.' >, / ' <.6 <'7 ,<'4@8 56 6.1,<7
' 76 2'5''?,<164 7.' .7> 5 J.<;.'>.6 ?1.?,6.6>.'5''1.M
J .' >.-'<7 5.'> 1.;7, 1.'>4 > 671 ;7>.' 5'6 7<'7 , 1
>.6 O .<68>'<6 5'' E,1 / .' .7 '4@ ;,<> 7 ,<6 ?1.6;1 7.'
?'1 5.'>.;1.7>4 C ' ,;5,O1;' (* %
W '<6 5.'.'6 , 5 =4.5=4.6 ,OQ.76 <;' [11'. 7
> 1.'<EE.1 / .68 56 6.1,<7 1.J 6>,'5'' / '< ;1;'=4 '6.1'

7. / ?6'>.E;<>'' 5.' ; , / / .1; .8' W7' =4.' *HQ' >>;1.76'5.6' '-' .<7'64??1 / >.6'6'<6' <>. / < 7.%

'451.6' ,<7' 'Q,47.'=4.' 5.]'> 7.<7.416 ';74;56'>.' 7.11.6' ; >.-'<7 <,O5.68'5''?54?'17'64;;.66.416'''5 M 71.'6 <J45 .1'>16'V.<>.416' ,1 J <' 1.6'>.6,E5 ;.68'<.' ?,4-' .<7'?'6'>71.'7.<46'.<-.16'5.6'7 745' 7. `> ,O5 ' J'7 ,<6'=4 56'< '-' .<7'?'6';,<71';7..6%

#.6'> -.16' ,? ?'<76'< ,<7'?'6';14'>.-, 1'> 6;47.1' 5.' / ,>.' >.'5 =4 >'7 ,<' =4 ' V,46' .67'?1,?,6>I'.7' 5' 6;1' 7'.<' . 5.7' <47 5.'>.'-,46' .<' .<71.7.< 18'6'5''5 M =4 >'7 ,<'.55. 1<>/ .'<.'>.V' 7'?'6''-, 1'5 .4%

.?4 68' 5.6' '771 O47 ,<6'E' 7.6'>.6' '??.56' .7' >.' ;.17' <6' ;'6' ?1 - 5.J .6' '4@'Q4J.6'>4' 1, 8'6, 5'?'1' .> 7' >.' #1>/ .48'6, 5'?'1' 1,1>,<<'<;.'>.' 9(8' < ,<7'.7.'=4 <<'>. / . / O1. / .=7' >.' 5''Q467 ;.'?'71 ' / ,< '5.' >.6' 6. J<.416%' .6'Q467 ;.6' 6. J<.41 '5.6' ,<77,4Q,416' .7.8'>'<6'5.41'7.11 7, 1.8'5.6'Q467 ;.6' ,1 ' > <' 1.68'5''Q41 > ;7 ,<'>.6';'6'1,V'4@' < V'>7' 7'=4.' Q467 ;.'> .@;.?7 ,<G

,47';7,V.<'?,4-' 7'>,<.8'6'<6' <> 6;1.7 ,<8'1. ' J'1>.1';.6'Q41 > ;7 ,<6';, / / .' <>.6714;7 O5.68' .7'.<' V'?1.<'<7'4<'>7'7'6.'E5'77.1'> .<' Q,4 1''-.;'5'' / > / .' 6>;41 7.=4.> 4<' ,EE;.'1,V'5% :S';, / / .<7'5.6'7 7<' 5' 1.6'>.';.66,17.6>.';:'1J.6'< .<'41' .<7 56'?'6'.4' ;.57.' ,? < ,<Z' '47.41'>.' a ' ' '54 ' / > / .8'5 -%' 8';:%' 8'<.'6,47 .<7 5'?'6'=4.'5.6'Q46M 7 ;.6'6. J<.41 '5.6'6,<7>.' .66.<;.>.5'' / ,4'1.< .Z' .78'5 -%' 8';:%' " "8'=4.'5'' -.<'57>' .67'O,<<.'>'<6' ;.77.'.6?.;.'>.'J,4-.1<. / .<7Z'H.1' 7 ,<'4<';1 / .'U' 4<'?1'7 ; .<'>.'- 55'J.'>.'<'-, 1'?'6>7>'?546';5' 1M -,V'<7'=4.' ,<7.6=4 .4'Z

66. / O5..'<'7 ,<'5.' ''?4''<>'<7 1'6'<6' <>. / M < 7V'>.6'>1, 76'=4 ' ?,17' .<7''57. <7.' ''5''6,4-.1' ' <.7.'<'7 ,<'5.N'=4.5=4.' '<; .<6' =4 56'E466.<78' 56' < .7' .<7'=4 4<.'4641?'7 ,<' I' / ' 6'.55;'''>E5'1.6?.;M 7.18'.7'.55.'''1.6?.;7.' .<' .EE.7'>.6';.<71'56'=4'<.' <' E' 6' .<7'4;4<'?1.Q4> ;.' .7'=4 ''6641' .<7''>.67 .16' >.6?1,?1 .7.6N' .55.' '' 1.7'O5'5.6'?1<; ?.6'> 4<'J,4M -.1<. / .<7'5 O1.8' / ' 6'.55.'< ''?'6'.<7.<>4'5.41'>,<' <.1' 4<' .EE.7'1.51,';7 E8' 'O,5 7 ,<'>4'1.J / .'E>,>'5' < . / ?,17' 7?'6' '<< : 5'7 ,<'>.6'71' 7.6'4@=4.56 5' '-' 5'>,<<.'5 .4%

.@' / <.' / ' <7.<'<7?'1'=4'>, 7'6.E' 1.'5.1. / ' O,416. / .<7'>.6' ,EE ;.6'6. J<.41 '4@%

, 1.' ; , / 7.' -,46'?1,?,6.'>.' / .771.'5.'1. / O,41 ' 6. / .<7'>.6' ,EE ;.6'6. J<.41 '4@' '' 5'' ;:'1J.'>.6'?1, ' ?1 .7' 1.6' ';74.56'>.6'7.11.6' > , ' >.?.<>' .<7'5.6' Q467 ;.6%%' '6'> '471.6' / . / O1.6'<.' -, .<7'?'6'?'1' =4.5' / ,7 E'5.6' >.7.<7;416'>.6' ; >.-'<7'E .E68'=4 56' 64??,6.<7' 71.'?,41'5''?54?'17'>.6'7 .16' ';=4.1.4168' ?,411' .<7' 71.'J1.-.6'> 4<.'7.55.' ,O5 J'7 ,<%

5%.'7 .16' ';=4.1.41'6 .67'>,<.8'?'1'6,<'?1,?1.'E' 78' .7' / . / .' ?,41'6,<'47 5 7.' ?.16,<<.55.8' ;:'1J>'>. ' ,O5 J'7 ,<6'>.'6,<' ?1>>.;.66.41I'>.6'5,16' ';7 ,<' =4.' 5.' 7 745' 1.' '' ;.<71.' 54 '< .67O .<8' '5'' -.1 7.8' ; , / / .' ,<' ''> 78'<' ';7 ,<'?.16,<<.55.8'<' ';7 ,<' :V?,7:V;' 1.I' / ' 6. .67' ';7 ,<'1.6; 6, 1.8 ';7 ,E5' ' ' '=4 ' <.' ?.47'6 .@.1;.1'=4.' ;.<71.' 5.' ?1,?1 .7' 1.' ';74.58' ;.<71.' 5.' >V7.<5.41'>4'J'J.8'U' =4.5=4.'7 71.'=4 5'?,66E.>.%

' .' >. / '<>.' >,<.' =4.' 5.6' ,EE ;.6' 6. J<.41 '4@' 6, .<7'1. / O,416V68'.7'=4 56'5.'6, .<7'?,41'5''E <'<;.' ?'1'5.6'>.7.<7.416' ';74.56'>.6'E .76' '4@=4.56'5.6'Q46M 7 ;.6' .7' .<7''77';:V.6%

' 'Q,47.8';,<E,1 / V / .<7' '-,6'>.;1.76'>.6'7 ' / '16' .7' M/'Q4 55.7'>.1< .168'=4.' ;.'1. / O,416. / .<7'>, 7' X71.'E' 78'<,<';, / / .' ,<'-,46'5.'?1,?,6.8'64 -'<74<' / ,>.'?'17 ; 5 .18' / ' 6'>'<6'5'' / / .'E,1 / .' .7'4@' 7'4@'>>.1V7V6'?,41'5.6' ,EE ;.6'>.' / > / O'<'741.'>7'<7' '5' ;:'1J.>.5 7'7%G

<' ;,<6.=4.<;.8'Q.';,<;546' ' ;.'=4 .<'>,?7'<7' 5.6'>.4@'?1. / .1.6'?'17 .6'>4'?1,Q.7'>.'>. .1.7 =4' -,46' .67'6,4 / 68'5''71, 6 V / .8'1.5'7 -.' ''5''5=4 >' ' 7 ,<8'6, 7'1.<-,V..''4';, / ' ?,41' .<' 71.'E' 7'4<.

<,4-.55.'1V>';7 ,<8'.7';.?.<>'<7=<.'-,46'>>.1.7 .O' >.6 '?1.6.<7.<'?1 <; ?.=4.'5.6' ,EE ;.6'6. J<.41 '4@' >.'Q4> ;'741.'6.1,<7'5 =4 >V6'64 -'<7'5.6'5, 6'>.6'C.7' 9'6.?7. / O1.'>.1< .1I'5.6' ,EE ; .16' / < 67.1 .56'> '?1.6' ;.55.>.6'C ' .7'CU>.;. / O1.'64 -'<78' .7=4 5'6.1''>.6' '5,16E,41<' ';.6'>.1< .168',471.'5.'1. / O,416. / .<7'>.' 5.41'E <'<;.'?'1'5.6'; >.-'<7'6. J<.4168'4<.' <>.<' 1 7.'641'5.'71.6,1'?4O5 ;8' dJ'5.' 4' ;.55.'>.;1.7..'?,41' 5.6' ,EE ; .16' 1,V'4@' >.' / .'<'741.8' .7' 7.55.' =4.' -,46' '-.O'>>Q''';;,1>..' '4@' ,EE ; .16'6. J<.41 '4@' >4' #5.1 / ,<7, 6' .7' >4' 4<7J' [%

546 .416' / . / O1.6' '??4 . 7' 64;;.66 -. / .<7' ,4' ;, / O'77.<7'5'' ?1,?,6 7 ,<'>.' %' ! 4 55'4 / .%

''> 6;466 ,<'.67'1.<-,V..' ''>. / ' <%

' (' ' ''O, ' 7é
' 3 ' ' ' ' ' A 'I

<'.@.;47 ,<'>.'-,71.'>.;1.7>4'C7'Q4 55.78'Q.' / .'64 6' 1.<>4' '' '<>'48'.7'>.'5''64;;.66 -. / .<7'>'<6' .6'>Q5' E.1.<7.6'?5';.6'>4'B'47'.5'>4'K'6 : <%

.'<.'E'7 J4.1' '?, <7' 66. / O5..'?'1'>.6'>.7' 56I 5'54 'E'47'>.6'1.6457'768' .7'Q.'-' 6'54 '6,4 / .771.';. 47' =4 .Q ''1.;4. 55 6>'<6'5'' / 66 ,<'>, <7.55.' / ''O, ' <,1>%' .6' ?5';.6' >.' J4.11.' >.6'>.?'17. .<76' >4' B'47' .7' >4' K'6 : <' 6,<7' 'O6,54 / .<7' '' 'O1 %>.' 641?1 6.%' .6'?546' / ?,17'<7.6'?. -.<78>'<] ;.' / ,M / .<78' 6,47. / 1' 4<' 6 >J.8' .7' 6' ;.4@' =4 ' ' ;:'1J.6' >.' 5.6' >VE.<>1.' / '<=4' .<7' ' O3' E' 1.' :,<<.418';.'<.'6.1' 7'?'6'E'47.'.' / ,V.<6' / '7.1 .56' >.'1.6 67'<;.%

<>V?.<>'< < .<7'>.6' ?1.;'47 ,<6'1.5'7 -.6' '4@' E,17.1.66.68'5.6'> 6?,6 7 ,<6'=4 '>, -.<7'E'-,1 6.1'5.6' / ,4-. / .<76'>.6'71,4?.6' :,16'>.6'?5';.68'6,<7'.J' ' 5. / .<7'?1.-4.6I'5.6';' 66,<6'6,<7';:'1J.68'5.6'? .M ;.6'6,<7'4'?'1.'7,47.6' / ,<7..6%' .6' / 'J'6 <6'>.6' - -1.6'.7' ;.4@'>.6'E,411'J.6'6,<7'??1,- 6 ,<<.6.7' 6 '4J / .<7.:7'Q,41<.55. / .<5%' <E <8' '' .@;.?7 ,4' >.6' O.6, <6'>.6':>? 7'4@8'>,<7' ,<' 6 ,;;4?.' '-.;'5'' ?546'J1'<>.'';7 - 7V8'W7'=4 8'6,46'71.6 ?.4'>.'7. / ?68' <.'5' 66.1,<7'1 .<''>.6 1.18'5.6'71,4?.6'?.4-.<7'.<' 71.1'.<';' / ?'J<.'6'<6;1' <7.'> .71.' ,<'1.7'1>..6' ,4' ;,<71'1 V.6'?'1'5.'>.E'47'>.6'';;.66, 1.6%

'<6';.7' <67'<7'5.6'J'1< 6,<6'6,<7''EE' O5 .6'?'15.' J1'<>' <, / O1.'>.'>.7';;. / .<76' =4 .@ J.'5''?,5;.' <7.1 .41.8' .7'6417,47'5''J'1>.'>.6'?'66'J.6'>.6'E1,<' 7 .1.6N;.6'>.7';;. / .<76'6 . .-.<7''>.4@' / 55.;, / ' / .6'>.'71,4?.6' '' ;;.-'' .7' '=4 <O.';.<7'; <=4'<7.' ;, / / .6'> <5'<7.1 .I' ;.' =4G'> / <4.'<,7'O5. / .<7' '1'E,1;.'>.6'J'1< 6,<68' .7';.'=4 '> ' 55.416'<4 7'' <' 67 4;7 ,<'>.6' ;,1?6' / 5 7' 1.6'=4 ' 6.'71,4-.<%7''<6' / ,1;.5..6I / ' 6';.7' <;,<-.< .<7'?'66'J.1'>6?1' ' 71'' '' '11 -..'>.6'J'1>.6'<'7 , '5.6'>.67 <V.6' '6;1 ' - 1'>'<6'5.6'>.?'17. / .<76'>4'B'47'.7'>4'K'6 : <%

'' ;14''466'>.-, 1'?1,?,6.1' '' ,EE ; .1'J.<.1'5' ;, / / '<>'<7'>'<6';.6'>.?'17. / .<76'4<.'>6?,6 7 ,<' =4.' 5.' < < 671.'>.'5'' J4.11.' '''??1,4-..>.?4 6I' . .67'>.'1.7 1.1'>.6';:'7.'4@'>.' '<>6 1, ,<8'H,17' ,17 .18'5'' .7 5. .11.8' .7'1<> / .' ;:7.<O.1J8'5.6' ;, / ?'J< .6'> <-'5 >.6' =4 '6.45.6' .<'E,1 / ' .<7'5.6' #1< 6,<68'.7'>.'5.6'1. / ?5';.1'?'1'>.6>V7';:. / .<76' .6'J'1< 6,<6'-, 6 <.6%' .6'?, <76'>,<7' 5'6 'J 7'6,47' >.6?,67.6''-'<;.6'=4'>. / ' >.<7'5''?546'J1'<>.'641V -. 55'<;.' .7'5.' 6.1- ;.'5.'?546' ';7 EI' ,<' '' >1, 7'>.' '57.<>1.'>4' O.5.'>.';.6'- .4@' / 5 7' 1.6I' / ' 6' 5'6.M 1' 7' <Q467.'> .@ J.1'>.' V?4 6. / .<7'>.'5.416'E,1;.6' 4<.' ';7 - 7V' =4 ' < '??'17 .47' =4 '' 5'' - J4.41'>.' EEJ.%

.678' / .66 .4168' ' -,71.' ;, / 7.' / 5 7' 1.' .7'<' / < 671.'>.'5'' J4.11.'=4.'Q.'1.<>1' ' ;, / ?7.' .<' -8! 7' 5'>.' .7'7 ';74.5>.' 5''E1,<7 .1.'=4.'Q.' - .7 6>.' ?'1;,41 18' .7'Q.'5.41' <> =4.1' '6, 7'5.6'> 6?,6 7 ,<6' >4' / , / .<78'6, 7'5.6'?1.;'47 ,<6'E4741.6'=4.' <.6'1.M 5'7 ,<6''-.;'5.6';:.E6' / 5 7' 1.6' / ,<7'E' 7' <'J <;1' ?,41' 47 5 7.'>.'5'';;,6.'?4O5 =4.%

.' / .' O,1<.' ';.7'.@?,6.8'.7'Q.';1, 6'>.-, 1' -,46

.<J'J.1'2' - ,46'>.E .1'.7'>.'5'' / 457 ? 7;B>'.7'>.' .@' '
J.1'7 ,<'>.6'<,4- .55.6N' .55.6'?1.<<.<7' >.'1 / ?,1 '
7'<;.' .<'. 1;<5'<7I' ;.55.8' ? '1'.@. / ?5.8' =4 ,<'- ,46'
'<<,<;'' : .18' 1.5'7 -.' '4@'>,40.' / 55.'B.66, 6 >,<7'
6 @' / 55.'>, 1.<7' 71.'.<' / '1; : .8' .67' 5, <'>.' / >1 7.1'
4<.' ;1>'<;.' ; , / ?5.7.% >7' 6' '' 71'60,41J'=4'<>'
.55.'V ?'1- <7I' .55.'V'E 7'> '47'<7 / , <6> / ?1.66 ,<'
=4.>'<6';.77.' - 55.8' ,E' ,<' .67' 0.'<;,4?' / , <6'2'
?,17. .'=4 '' '1 6'>.' ; , / ?'1V';.'014 7' ' - .;'5.6' ; 1'
8;,<67'<;.6' =4'?.4-.<7'V' ' - , 1'>,<<.'5 .48' 1 .<'<.'
G?1,4-' 7' =4 5'E47'E,<>.I' .7' ; .'=4 '>, 7' ' ; ;1, 71.' - , '
7 .'&5,47.8' . .67' =4.8' 6 SS' .E57' 6.45. / .<7' ' ;=4 6'>.'5''
?1,0'0 7>8' 5''641- . 55'<;.': E'7 J'05.>. % .71 ; :8'
,EE ; .1' ?405 ;8' =4' - ,46' ''71'<6 / 6.8' - ,46' '41' 7'
; , , 7 1 / .' >.?4 6% .' ?.<6.' .<; ,1.' =4.' 66. / 05>.'
<'7 ,<'5.'>, 7' 6.'7.< 1' .<'J'1>.' ; ,<71.'5.6' ?5' <7.6'
?.4' E,<>5.6' =4 .55.'1. ; , 7' >.'7. / ?6' '' '471.' ; ,<71.'
>.6 <> - >46' =4.' ,<' <;45?.8' ?'1';.5'' / X / .'=4 56'
,<7' 1' 6,<8' ?'1;.' =4 56' 1.E46.<7' >.'6.'?1'7.1' ''>.6'
?1,Q.76'> ;7.6' ?'1'5.'?'71 ,7 6 / .' .7' 5.'>.6 1'> '0 .<8'
/ ' 6' >'<6' 5.6=4.56' 5.' 0.5.%=4' 5.6' <6? 1.' 6.'E' 7' 1. '
/ '1=4.1' 0.'4;,4?' ?546' =4.' 5.6' 54 / 1.6' =4'>. '
-1' .<7' 5.6'> 1 J.1%

<E <8' / .66 .4168' Q.' >,76' - ,46' > 1.' =4.'7,465.6'
0, / / .6' .;5' 1.68' 7,46' 5.6' / 5 7' 1.6' >'<6' 5.6=4.56'
66. / 05. .''>1, 7' >.'?1.<>1.;,< '<;.8' 6 ' ; ; ,1>.<7'
' 7 '??1,4-.1' 5.6'> 6?,6 7 ,<6' J.<.1'7.6'>.;1V..6'
?'1' 66. / 05>.8' .7' .@>;47..6' ?'1' 5.' / < 671.'>.'5''
J4.11.' ?,41' 5'' >.E.<6.' >4' 1,V'4< .I' CD=4 56' 6.'
1.4< 66.<7' 7,46' '' ;1, 1.' =4.8' >'<6' :V?,7:E.6.'> <.'
:,67 5 7.' >.' 5'' ?'17' >.6' ?4 66'<;.6' .71'<J.1.68' 5.6'
>.?'17. / .<76' >,' K: <'6.1' .<7' / .<';.68' / ' 6' 6.4 '
; / .<7' >'46' <7.<7 ,<' >.'<,46' ,05 J.1' 2' ?'17'J.1'
<,6'E,1;.68' .7' >.'E'- ,1 6.1' ?'1'5'' <-'6 ,<' =4 56' <.'
1.J'1>.<7' ; , / / .' ?1'7 ;'05.' =4.6415'E1,<5 .1.>4'
E ,1>I' D=4.' ?'1' ;.77.'1' 6 ,<' / . / .' 561.J'1>.<7'
; , / / .' 4<.' / .641.' ; '?7'7.' ;.55.' =4.' - ,46' ' - .O'
'>,?7. .8' 6' - , 18' .7'05 66. / .<7' > 4<' >>? 7' ; .<71'5'
; ,<Y> '05.'>.' J'1>.6'<'7 ,<'5.6' .7' >.'71,4?.6'>.'
5 J<.8' .7>,<7' 5'' / 'Q.41.' ?'17 .'6.1' 7>.'71,4?.6' ''
; : . - '58' .7' >,<7' 5''>.67 <'7 ,<' 6.1' 7' >.' ; ,4-1 1' 'M
1 68' .7' >.' 6.' ?,17.1' ' - .;'?1, / ?7 74>.8' 6, 7' 641' 5''
.46.' .75'' ,6.55.86, 7' 641' 5.6' ?1, - <;.6' 0.5J =4.68'
6; ,<' =4.' <> =4.1' 7' 5''> 1.;7 ,<' >.6' .EE,176' '4@ '
=4.56' 5'E'4>1' 7' 1.6 67.1%

'>,'>, 6' .<;,1.' - ,46' E' 1.'; ,<<'571.8' / .66 .4168' 5.'
0.5.' .7' 5.'?'71 ,7 6 / .'>.6' ; 7,V.<6'>.' 71'60,41J' =4'
E,41< 66.<7' >.6' '7.5 .16' - ,5,<7' 1.6' ?,41' 5.6' 71' - '4@'
>.'5''?5' ;.%%% ;.54 '>.6' J'1>.6'<'7 ,<'5.6' =4 '6 .@.1'
;.<7' ' - .;' 5.6' 71,4?.6'>.' 5 J<.8' .7' >.' 5'' E,1 / '7 ,<'
> 4<.' ; , / ?'J< .>. ; '<,<< .16=4 'E,<7717. 0 .<'5.'
6.1- ;.'>.6'? .;.6N' ,<' - '' 5.41' >.5 -1.1>.'5''?,4>1.'
?,41' 5.6' ?.1E. .7 ,<<.1' '' ; .'J.<1.'> .@.1; ; .%

R 66. / 05>.',1>,<<.' / ?1.66 ,<'>.;.'>6;,416%
+' <'>.' % 5.6' 6.;1.7' 1.6' E' 7' 5.;741.'> 4<.'5.7'
71.'?'1' 5'=4.55.'5.' / < 671.'>.6' ; ,<71 047 ,<6' ?405 '
=4.6' >,<<.' '' 66. / 05. .'5.'>>5' 5' >.6' / .641.6' ?1 M
6.6' ?,41' ' ; ; .5>1'7 ,<' >.6' <,4-.55. 'E'01 ;'7 ,<6'
>'<6' 5.6' : 7.5 '>.6' ,<<' .68' .7' '<<,<;.' =4.'5''E'M
01 ; '7 ,<' >.6' ? .;.6'>.' ' .7' >.' '6,46' .67 .<' ?5. <.'
';7 - 7.8' .7=4.'5.6'<,4-.'<@'?, <;,<6'?,41' 5.6'? .M
;.68' >.' C .7' CU' >.< .16' 6.<7' ,<' - ,<7' .71.' .<- ,V>6'
>'<6' 7,47.6' 5.6' ,<<' .6'>4' 1,V'4 / .%

% ' 6.E'01 =4.>'<6' 5'' ,<<' .>.' 1 6
U 8 ' 5 -%>.'?E.;.6'>.' '6,46' ?'1' ,41% #.77.'=4'<'
7 7>.67' 0.'4;,4?' ?546' =4.'64EE 6'<7.'?, ,1' 5.?1.7' >.6'
71,4?.6' .7' ?,41' 5.6' '??, <76' >4' 71.6,1' ?405 ;% .>. '
/ '<>.=4.' .@;>>'<76, 7' < / >> '7. / .<7' '??5 =4>'
'4@' 0.6, <6' >4' ?.,?5.' .7' 6, 7' .<' ; ,<6.=4.<;.'> 671 '
04>' '4@' =4'1'<7. 04 7' 6.;7 ,<68' ?,41' 6.1- 1' '4Q7'
>.0'<J.6' >.6' '66 J<'76I

''?1,?,6 7 ,<'>.' % 4?1>'.67' 1.<- ,V>.' '4' ; , / 7>'
>.6' E <'<;.6%

c%'' 6.'<;.' .67' 5. - .' '71, 6: .<1.6%

! #5 % '' 3& 5 ,

@ ' ' & ' ' ' ' B'
' ' ,' (* 8

, / (' ' ' ' ' '

'' / 4< ; ?'5 7V8' <E,1 / >.'=4 5'6 .]7' > .->>.6' ; ,<7.67' '
7 , ,6% 1. 4 - . / ,47' ''?1 @ >4' ?' <8' .671.' =4.5=4.6' ; 7,V.<6'
.7' 6 0,45'4J.16' =4' 5. E,41< 66.<78' ;1, 7' >.- , 1' .>' 1.1'
5.6' :'0 7'<76'>.'5'' ; '?5'5.'641' 5'' ='741. .7' 5.6' ; '46.6'>.'
1' 'J / . .7'5 ,<641- .<,' >'<6' 5.'?1 @>,'?' >8' .7' =4' '' .@M
; 7.' =4.5=4.6' ?5' <7.6% .77.' '4J / .<7'7 ,< <.' 1#6457.' ?, <7'
>4<.'7'@.% ''7'@.'>.6'>.<1>.6' .7' 7<<%>.6' ,0Q.76'>.' ' <'
; .<<.' ?,5 ; .I' 1'>/ < 671'7 ,< 1'44 1 ?'5.' ?1, - 6, 1.8'
>' / ' '4@' ; 1; ,<67'<;.68' .7' 64 - '<7; .746' ' '5,16' .7'05 8'
''1>J5.'5.'?1 @>4' ?' <'?.<>'<7' =4.5=4.7. / ?6% ''>. / 5 1''
7'@.' '' .45 .4'4' / , 6'>.'04 < (* % E'4@>.6' =4'71.' '
-1.6' E47'5,16' '0' 66.' .71.>4 7' 55'6,46% .?4 6' ;.77.'>?, '
=4.8' P' ; ,1?6' / 4< ; ?'58' 01,'>.' 645-1.'5.6' 1' 6' ?1 <; ?.6'
>4' ; / / .1; .8' '' 1.' ; <<4' =4.'5.' ?1 @ >4' ?' < >.1' 7' >71. '
1>J5.' 4< =4. / .<7' 641' 5.' ?1 @>.6' J1' <6' .7'>.6' E'1 <.6'>'<6'
5.6' / '1; :>6I' =4.' . .67' '5''5 0.17V 'V' / .< [' '0 ,<>'<; .8'
.7' '5'' ,<;41' .<.' ''V V7 '05 1' 5.' 0,<' ?1 @8' ,47.' E @'7 ,<'
.67'>'<J.1.46.I' , 5.'7.<>' 'V , J<.15.6 / '1; : '<>6.7 ?1, '
>4 1.'5'' ; : .17.' .7' 5''> 6.77.% . ''?V1 .<; .' '' / ,<71V 5'' -V17.'
>. ; .6' ?1'<; ?.68' .7' ''0467 E >' 5'' ; ,<>, .>.'5'' / 4< ; ?'5 7V%
<<,- , / 01.'>.1<.. 18' 5.' ?1 @' >.6=<'71.' 5 -1,6>7' 7' >>0 '
1V>4 7' ' 7 '6,<68' .7' >,?4 6 7,16' 5' .67' >.6; #<><' 0<6=4 ')I'
'40,41> :4' 5' 1. / ,<7' 7'?'1'5'' / V / .'5 0.17V =4'7 '' E' 7' >.6M
; ,<>S.%#.'< .675 .EE.7'<'>.' .@?,17'7 , ,8'<'>.6' ; '5 7 ,<68'
<' >.6' ' ; ;'?'1, / .<76I' . .67' .EE.7' <'741.5' >4' 7. / ?6' >.''
/ , 66,<6' .7' >.6 71' - '4@' >.'5'' : ' / ?'J<.% .6'E.1 / 5.16, ; ;77G %
?>6' ?,17.<7' / , <6' '4@' / '1; :V68' .7 ?546' >.'1'1.7>'>'<6' 7.6'
J1' <6' .< .5>- .<>;.66' 1. / .<7' 5.' ?1 @% ' 6' ; .7' .EE.5' <'74M
1.58' =4' '??'17 .<7' '4' 7. / ?6' , <,<6' 6, / / .68' '' ,66' 4<'
7.1 / V <'741.5N . .67' ; .54' , 8' 5.6' / , 66,<6' .7' 5.6 6. / ' 55.6'
>7'<7' E5< .68' .7' 5.6' J1' <6' 0'77' 68' ,<'Q,4 1'' >4' E14 7' >.' 5''
<,4- . 5.1V; ,55.% #.67>,<; .<; ,<6>=<.<; .'>.5 '<J'' .<7' ' %
7 ,<'>.6' J1' <6' .7'>.6' E'1 <.6' =4.'5.6' 0,45'<J.16' , .<7' '4J'
/ .<7V5.'?' <% 6 <.'?.4-.<7' E'51.' ; ' ; / / .1; ' '5.416'>>'
?.<6' .7' '?.17.% '' / 4< ; ?'5 7V 641- ; 57.' .7' 641- .55.1'' 5.6'
0,45'<J.168' ?,41' =4.' ; .77.' '4J / .<5'7 ,<<.' 6'>5>- .'?'6'<'
>.5' '>.' ' ;=4' .670467.' .7' <> 6?.<6'05.% ,46' / ?1 .'1<>/ .'
>.'7'' 5 0.17V8' 4<.'>.<1V.'>.' ?1. / >1, '<>, .66 7V8' .7' =4' '7'
5'' 6406 67'<;.' >4' ?'4V1.8' <.'>. 7' ?'6' >71.' -1>.' '4@' 6?. :4M
5'7 ,<6'>.'1 < >1V7I' .786' 7.'?1 @>4' ?' < 641?'66' 7' ''0467.'
?1,?,17 ,< = 5'>, 7' - , 1' - .'5.' ?1 @>.6' E'1 <.68' .< '>'
/ .77'<7' 5.' ?1,E 7 >J 7 / .' >4' 0,45'4J.18' '' / 4< ; ?'5 7V8'
1.?1.<'<7' '5,16' 5.'>1, 7' =4.'5'' 5, ' 54E'>,<<.' >.'E @.1' ; .'
?1 @8' .<' ?,6.1' 7' 5.65 / 7.6% #.67' ' <' '=4 .<1.6?. ; '<7' 5''
5 0.17V > . - . 5.1'' .7' '4@' 0.6, <6' >4' ?'4 - 1.' .7' ''7,46' 5. '
<7V1V76' =4' E4' 6,<7 ; ,<E 68' .7' =4.55.' ?1,4- .1'' '6.6' ; ,<'
; 7,V.<6' 5'' 6411. 5 '<; ' ?'7.1<.55.8' =4' .67' 5.'?1. / .1' .7' 5.'
?546#: .1' >.6.66, <6%

J<V K L8' # *

. ;741.'E' 5.> 4<?1. ;V6 - .10'5' >4' #, / 7V>.' 5'' 6. .5 ,77'
>.6' 34 <0. <J768' >4' (' , 78' =4' ; ,<67'7.' =4.' #.Q,41'
> : 4 8' 641' 5.6' 6 @' : .41.6' >4' 6, 18' >.4@'?'17 ;45 ;16' / '7 <'
7. / ,<<V6' 6.' 6 ,<7' <71,>4 E6' ;0.O' >W_V16' 0,45'<J.168' >'<6'
5''J1'<>.'14.' >4' H'40,41J' ' <7 <7, <.8' .7' 6.'6,<7' ?,17V6'
'4@' >.1< .16' .@.>6' ; ,<71.' ; .6' 0,45'<J.168' W .<'5.6' / '571' '
7'<78' 6.'6' 6 66'<7'>.' 5.41' ?' <8' 5.'Q.7'<7' .<'H' 1'>'<6' 5.41'
0,47 =4.8' .7' >. / '<>'<7' =4 5'E>7' >,<<>' ')' 6,46' 5.6' =4'71.'
5 -1.6I' =4 56' ,<7' >.'?546' ; : .1;0>' ' .@; 7.1'5.'?.4Q>.'#,<71.'
5.6' 0,45'<J.168' .7' >.66 <>' '' 5.416' ?,17.6' >.6' ?,7.<;.6' ' - .;'
>4' ; : '10 ,<I' $' ,45' 5.' ?1. / .1' 64067 747 '>Q, <7' >4' ?1, ;4'
1.41' >.'5'' ; , / / 4<.8' 5.' ; ,1?6' / 4< ; ?'5' '11 .=4.'5.'?1, '
;41.41' >.'5'' ; , / / 4<.' >><, <; .1'' 6' <6' 4; 4<' >>5' ' ' ' ; #<'
6'7.41' ?405 ;'>4' =4'71 > / .' '11,<> 66. / .<7' 5.6' E' 56' ><,<.>6'
>'<6' 5.'?1, ;>6 - .10'5' >.' '' 6. ;7 ,<' >.6' 34 <0. <J768' >,<7''
%.@?>> 7 ,<' 54 '6.1'' >;5 -1V.' ' ; .7' .EE.7I' ,1>,<<.=4.'5.'?1> '
6.<7' '11>5>' 6.1'' / ?1 1<>8' 'EE ; :>' .7' .<- ,V>' '4@' ; , / 7>6'
>.6' =4'1'<7. : 4 5' 6.;7 ,<6%

J<>') ' `' a' A! [

C 5

'< ' ' '<,75E8' ' W ' ' ('

.67' > '?1.6' 4<' '11> >' EE.'5'' ,; > V>.6' / 6' >.' ''#,,G

',$, , */' +*;'F .&/'5 (' (' < 4.$(/ *'$(./-$*D'
'(.(.'-+*'0 $.('#($ (' ('#+$,'3$! $*,/ +@*5 (' % * +36('
5 ('* ,.('$.,((' (*', , ,$ * + *!'(((*,'-("+-!'
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! $9*(' 8 '(V ' 'PWK & A

(' ' ' & V F ' 'WP' ' '
P% -3' '

+'3 *('+''( ) $$(/ 4($*(' ('.(9$',.('-(',$*('W .(!'
3(0 $.' ('* "-("0 * +$.("9+.-("*+,$ *+("--3$--" 4
+.36(.'0(." * "#. *,$.("(',!$' 0(. /'5 (' * 0 $('('
4 .,(.'(*'+0+*,(,''(' (,,.(' ' (" .+*9" ' $,+$/ 3 $$. .!'
9$(*/' ##$3$(.' *$3$4+ / (,' +8+*,' #((/ (*#+*$'/ '
' $2+*,('(,' *U('+*'' ' (' +$.('$$)'(.0('5 ' + $ ('
-$'4(*'(' (' (.*('( )$(' '$*(.-$.(' *(' ##.(+ ''$ 9-*(!'
.('(' ' .(4 *-,'& + $ * + 4+" 4.(0 '5 (' %+$ (*3 .('+'!'
'(U'-('+ ((,'-('0$9 (.'4 .'#+ .('-(2'3+ 4+9*3' ' % *
$*'$',3' .' ' * (,+,/' ' .' ("#+,$9 ("-(' +'9 (..(7 , " ("
8(*" ' *,'(4 8("4 ' ('-(, .*(.'-('+'3 .+93 '('
.(' ,$ *7 +$"3(' (* 0+$*7$' 4(.'$' (/ (,' ' '$9*(' ' *
(*9+9((*,' (*' '(3.$+*,' ' = R)')$(*Z '$/ 3 * .(' * +,!'
,(*,(/ ("# .3(" 0$(**(*,'6' '%+##+$) $.' '$ ('*('4 $"4 "
3)+,,.(/+ ." (' (' 4 .,(.+$'+ '$(+' $'$'e7+ .+ ('4 "
-('-+*9(.'/(' +'A(3)(.36(.+$.(3(0 $.' ('3 4'5 $ 4.$0(!'
.+$,-(' +'0$(' * (*(') ('4 " ,$ ('5 (' -' +'4+,.$(:

, ' ' ' ' ' ,

"+0 *"-3.$,/ *'$(./+ '3 $ -'-("3 *,.$) ,$ *'/
(' -'3 .+*,/'5 (' ('.(3(0(.' -(' * ,.(' -$',.$3,' +0+$'
0(.'-/ + .($ $(/+* ,.(' .'4) $3/ +' ' ('-('XI/IPI' $0'
' .' ("'. ("4. 0$' $.("-('3(-('+**-(7 (,'5 (' +'3 *('
-(' *(''(/ (* 4+. 3 $(./ ' . BW/TWI' $0!' 5 ((' -(0+$,/
+0+$' 4+8('BI/IBX' $0' (('-(.*$(.(' b .0+ $ * 3*-.+$,' '
',$$$(.' (' 3$0$' ('-('3((' 0$ ('5 $'(,'* * ('-$',.$3,'(*!'
,$(./+0+$'(-'3+$ *$-('-+*"5 (5 ("#($ ('
" +0 *"+ ,-'5 +8+*,' (,3' (" 4.($(." ' #+$.('+*
4+8((*,' ' + 3+$''(' -(' (2 .+ .-$*+$.(' ' ' +%.(*,(' -3"
)$(*" +,$ +*2/ * " +0 *" (*3 .(' (-' ("4.($(." '
4 .,(.'+' .-' .'4) $3' * +!3 4$3/ (* 32-3 $ '-(' +'
$'-'WT' ,$$*-(.*$(.
,.('+ .'4 .' + 0-.$,-'* "4(.' +-(/ *'$(./
5 (/'4 .'.(3,$#$(.' *('-) ('$*(2+3,$, -('5 $'3',. 0('+'
)+"-(' + 4+9('FIG'-('0 $.(' .*+ / *D'WWE/'0 "0 -.(U'
)$(*'$ 4.$ (.' +'4.-'(*,(/(* .(3(0+* +'' .+*3('-('* ,.('
.(3 **+$''+*3(
$9*(' ' ' ' ' ' ' '
% 5
$ U/' A 5') ' ' 3 5'
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! "&' ' % 'V' (,*+$*' ; 2 '9 '- '
&3 ' ' $0$3'-3" 8 ' ' 'F
@ +' ' ' 7 3 C! ' ' F ' 3 --$'
(*'X'+3,('/' ' $0$3'-(' ' ' &
! &' = 'V' ' '$ 'F & '('+'PB%.'
4.-'(*+$ * -('8 ' '$ &
! &' & 3 ' . (',$(' $36($(V '$! '
& '3 (-$(' (* ' +3 ('/' ' 0('- '% '3 '
+3,('
(+$* + .(4.$'('-(" F ' &
" ' ' ' & 8 '/ 3$!-(0+*,'-(' *'$(.'
V ' ') ' ' 4-.+'$,+ $(*
*-$/ + WK .(4.('(*,+,$ * -(' ' $ ' G ' 4#.+'
$,+ $(*
* +,,(*-+*,' + %k' .(4.('(*,+,$ * -(' '8 LL ' 0 '
4 .+'$,+ $($,
&' ' " " ' H + ' ++$'!'
8+ 'V' ' + %k' .(4.('(*,+,$ * 8' ' ' #
3'3 (-$('* 0($(/6-. $5 ('(,' 8.$5 / 3$$' P' +3,('
- ' ' 0 ' 3 ' ' ' 3 ' &'
'% '), ! '3 ' -$('(,' * -$0(.,$''((*,7
' , ' ' ' % ; " 7 (" '+ (.'7 '
& ' ' [3$+#.(7 (* " 43#3. (/4+*, $ ('
+0(3' '4(3,+3 (/ (,' (')+ (,'-("
! "& $ " % '+ ') (0+.-' - ' (4 (V ' '
- ' '$ ' ' F ' ' ' A'
F '4. 3(-0(' -(' ')@ ' (5' G'
4+.' ('#A*($'3 ,5 (/ 4 .+') *
W !!) " # , ' ' " V / D A'
' ' ') ' ' : ' !1 ' 4+.' 3'
3 '$* A+35 ('
! && ' ! ' . (' N$+$*,! +. $* V ' ("
$ ' ' ' !')
* +,,(*-+*,' + m' .(4. '(* +,$ * -(' '$ ' & >'
5 ' " ' ' " ' V ' A'
'3 -$('(* P' +3,('/' ' 0('- ' F ' 6 '
4 .+') ## *
89 ' ' '5 .($.(" 9('/' .3)(',.('(,'9+ (.$(/
P' $0 7 '(3 *-(" 9(" (,' 9("-(' #+3(' -(" . $'$(('/
? $0' ' '7,. $'$ (" 9('/' ' $0' '4+.5 (,/ ' $0' ' '7
5 +,.$(('/' ' $0' V +-.(''(.'4 .' + 3+,$ * -3" 9('/
$,' ' " .$(/ . (-3 0 $'/ *k'
) ' ' (' . (' - ' +$ /*k'BT V '(',' $$0(.,'
, " (" . '/ '5 %F ,((' 6(.(' 5 %$' 4+$,'F ' ("
+) ** " - 8' .('(.' /

8 ' & / ' ' ' ' '
! '1 ' ' - ' '9 ' '8
+' +$' *%.- *$,' ("+0+*,+9("-(' +'0$$3' (,' -(' +'3+ !'
4+9*(' $, -('(*'#+3('- ' A+.-$*' - $/ - $$'3 -7 +8+$,'
0 3/',$(' %+ ,.(/' .-(" +.-$*"(,' ' .' ('9.+*-'36($* -(' +'
+4-,.$(.(/(('*('4(,'-,.('5 (',.('!+9.-+)$3' +$.'8' (','
'+$*' (,'4 .7 +'#+3$$,'- - (*,.(.'-+*" ('A+.-$*' - ' $'4+.'
('9.$ ('('#+3(-(' +-$,(' +$' *'4. 3 .(' '+*"#+,$9 (' +!'
9.- (*$-(' +'4. (*+-(
("4(.' **("5 $-('$.(*,' . 0(.' *(' .3$.*$,('6 **-,(/
*(') **(',+) (') .9($'(/)$(* 3)' 4. 4.((*,' '(.0$(/
4(0(*,''+-.(''3.' ' +-+ (' (4('36(./ -+*" +-$,(' +$1
' *' U('4(.' **("4 .. *,' -$.('+- $2('7 ($3"+ . *,'
3 $+3 *(' (.+44+.,((*, ( ) - ' * ( )$-/ ' (.
3 $ $2/+0(('-("0 (" +9.-+)$3' ' * $*0$,(' ('4) $3' '0(*$.'
9(.'4+.' $! - ('-("+0+*,+9("5 * 4(,'$. 03.'-+*"
3((' +$' * -(4(*-+ (*,' - '4.$2'-(' +'<,(*'$ */5 $'
(,' ' + 4 .(('-(', , (' (' *-3/ + $)(.$-'-('4.(*-.(' *
+44+.,((*,' ( )$-' ' * * ( )$-' 3,.+' *('-$##(.(*3('
3 *0(+) (' -+*" ('4. %
+'4. 2$ $,-'-3" -9 $'('/'-(" 0 $, .("4) $5 ('/ -% *
)+3'5 $ (','+ ') ,'-(' + (/ (,'5 $ (,' , ' -(' ' $,(' '
4 .,-('-(' % .'(*+'3,-') (0+.-/4. 3 .(', (" ("3 !'
-$,-"5 * 4(,'--'$.(.
+-+ (' (4('36(.'('4-.('5 (' ('4) $3' 0(..+'+0(3'4+$=
'$.'3(,'(+) $''((*,/# . (' ., , 4 .'-("4(.' **("-('
4. 0$*3('5 (' -3" +##+$.("+ -*(*,'-+*" + 3+4$+ 3/ (,' (*1
3 .('4 .'-("4(.' **("'+*"' $,(/4+.33'5 %3 $(" ,. $$0 #
.+*,'3 $3U'((' ,' ('(.0$3('3 -('3'6-33''+$.3

' ' ' ' ' @ ! ! '
' '/
%' $2' 4.($(.' $"BHTB' ' (' +8(.'' *,++3 .(
G ' ' & ' & ' ' I I' ' '
',(.-+ ' ' J #'>@%%%%%%%%%%%%') % *6
@+) .9' ' WPXB !.<.6'% ' %%%%%%%%%%' *I
*-.(' WW' ' 1,41 ;% % % % % ' *]
+-.$-' ' BTB V,<8' , ' % % % % '
' ' *'

3,$ *"-3" *-3'-(W/XII' $0' ' ' WBTH7/'TX
.,$ *" -('BGII' $0/' ' BFBG
4. *,- 3 $.('-('XII' $0 ' FXP
4.' -(' - 3' BHEW/'5 $,/ -('#$*' ' ' '7/'B'7$'W' !A' ' f7
B 7'
V'-('BWX' $ /- 3' BHEF' ' /
V '+*") ' F
V'' .,/ (* 0$+9(.' ' ' FXa
3,'* 0'-(" *-('' ' BWWI/'BE/' BT/'BH/'BG/BX/BH/BF'
+$''(' - ('3/' PEPI/WE/PI/PW/PX
($! $''3 ' BTIX/' / / / f
$,/ -3" + 2'-(' +.$'' XHX/'HI
4.' -('EI' $ ' - + ,'BHEI' ' B/'B
+$''('4+$.# $5 3' ' ' ' +
'' .'3 ,.(' (" $*3' ' ' XXP/'XF/'XX/'XF/'XP/'XW/' /'XF
XX/'XF XX7
V'0(' ' ' ' /' ' GHG/'HE/HH

! b ʿ ʿ ,iʿ ʿ 55 ʿ

T C % ʿW,ʿ ! ʿ 4564ʿ MV ʿ < (ʿ ʿ ʿ ʿ (

3 %

! %

ʿ ʿ AQ[ʿ ʿ ^ʿ ʿ 5 <;ʿ 7. / <8
Q041<.55. / .<7 '77.<>4 ʿ '<' . 1'66.8 >, 7 .7'05 1 6,<
=4'17 .1 J>< 1'5 ʿ ! 5';0 .7 > 1 J.1 6.6 ,?.1'7 ,<6 455>ʿ
1 . .1.6 - .16 5.6 41;6% .6 71,4?.6 >ʿ ; 5E.ʿ <'7 ,< 6 '?ʿ
?1,ʿ .<7>ʿ <,6 E1 ,<7 1.68 1.<E,1; .6 ?'1 > .4@ ?45 6 >.
>.4@ < 55.'77, / / .6 ; : ' ; 4<N =4 <0.ʿ / 55.ʿ K466.6 ; ' / ?.<
.< =4'51. .<>1, 76 >5 >1. :76 '>@ .<- 1,<6 >ʿ a . [8 .7 <<
; ,1?6 >.'71.47.ʿ / 55.ʿ ; ,< 0'57'<76 .67 ?,15 ʿ 641'5" 1 - .ʿ ,?ʿ
?,6. .>4 < .?.18 >.11 1.ʿ ; .77.ʿ E,17.1.66 %
< > 7 =4.ʿ ' / 0'66'>.41 >.ʿ ,5,J<.ʿ ʿ #,<67'<7 <,?5.ʿ
- .<7 > .71.ʿ1'??.5 % $
"0.4<.66.ʿ ?,5,<' 6.8 =4 ʿ6 .676 ʿ 0 .< / ,<71>.ʿ .< E'\
- .41 >.ʿ 5" <,4- .55.ʿ ; ,<67 747 ,< ʿ ' 8 > 6 =4 ,< " / .<' ;>
>.<5.- .1 5.ʿ 1, 8 '>, ?5>5.ʿ ?,17 >.6 / '664.6 71' - ' 55. .6 ʿ
5" / ,>.1<.ʿ .7 =4 / 5.<7 '66.0 '< ; 3 ; 674 / .ʿ? 5,<' 68
;6 5.771. ʿ >.ʿ ;0 67, [ʿ ; ,<31 / ;<7 =4.ʿ 5.6 >.4@ / < 6G
71.6 ?5>< ?,7.<7 ' 1.6 > 471 ; : ʿ ,<78 ʿ5" 6,55 ; 5'7 ,< >4
/ < 671.ʿ 741;8 1.?1 6 5.6 ; ,<1 1.4;.6 1.5'7 - .6 ʿ 5" ?' @8
\=4.ʿ5.ʿ ; ,<J1 6 ?1,5,<J.1" ; < 6,45E1 1" 5" >41>.ʿ>.ʿ '1 / 6%
7 ; .8 .7 =4.ʿ ?.<>'<7 ; .ʿ 7. / ?6 5 ʿ ,<7.1 / <.1'5.6 < , ; 'G
7 ,<6%

! %

ʿ 8 ʿC ʿ ,>E% +ʿ < " ?1 6 >.6 1, .641.6 ?,41
ʿ1'< / .1 5.ʿ 6, / / .1;.ʿ >4 .- '<7% " ; 41 >. 7 E' 1.ʿ >.6
' - '<; .6 '4@ / ' 6,<6 >7'0B6 ʿ b.<J8 ʿ 1 .67.ʿ .7 ʿH 4 / .8
=4 ' - ' .<7 6,4E5.17 >41'<7 5" J4.11.8 ʿ 6 'J 7 > 4<.ʿ '5\
5 '<; . .<6 - . .7 >>E.<6 - .ʿ ' - . ;'5" '@.8 .75" ,5,J<.ʿ?'G
1' 7 6.ʿ1'??1, ; : .18
;0.4<.ʿ ?1 <; .ʿ >.ʿ 7' >?0.1J >, 78 > ,<8 '55.1 1>6 G
>.1 ʿ ʿ " B'V.ʿ .< =4'5 7>ʿ >.ʿ / < 671.ʿ >.ʿ <,71.ʿ ; ,41%
.6 ' - 6 1; Z46 >.ʿ 5" K45J'1 " ?,17. <7 =4.ʿ 5.6 41;6 ; ,<ʿ
6714 6.<7 > @J1'<>6 <' - 1.68 ?1 6 >.ʿ >> <8 .7 =4.ʿ ʿ ' :M
/ ,4>8 =4 ʿ ; , / / '<>,ʿ 4<ʿ ; ,1?6 '50'<, 6 ?,6 >ʿ '4@ .<- M
1,<6 >,ʿ ; .77.ʿ E,15.1.66.8 " 1; Z4 >4 ! 1'<> 1; 4< E 1 / '<
=4 '54 >>7.<>7. E5.ʿ ; ,67 5 7> ; ,<71.ʿ 5.6 451 ; ; .<68 6, 76
f / <.>.?.1>1.5" 7 7.8 5, 06.1 - .5" ?546 1 J >.> 6; ?5 <.N
>.4@ / 55 .ʿ E'<7'66 <6 '50'<' 6 6,<7 '11 - .6 5. 04 55.58
.78 >.6 =4 ,< '41" 1.?4 5.ʿ 1.<E,17 =<.ʿ 5.ʿ J1'<> - 6 1 >, 7
>.7' ; ; .1 >.ʿ 6,< '1 / . .8 ,< ; , / / .4; .1" 5.6 ,?.1'7 ,<6
; ,< 1.'5'6 466.6%

ʿ$! ʿ ʿ*V ʿ^ ʿ ʿ?'1' 7 .< 55. / 'J<.ʿ4<
. ;1 7 <7 745.ʿ N D L &ʿ& & " ʿ$ 2 8 ; .67 5 1.N
G ʿ ʿ ʿ$,4 ʿ (1 ʿ ʿ
ʿ ʿ ʿ & 1 ʿ # .67 ; , / / .ʿ5.ʿ6, / ʿ
/ ' 1.ʿ >.ʿ 5" ; ,<67 747 ,< E1'<E' 6.8 .@?,6.ʿ ' - .ʿ 0. '4; ,4?
> >< .1J .% , ; ʿ 5" 71' >4; 7 ,< >.6 ?'66'J.6 5.6 ?546 1. / '1'
=4'05.6%
ʿ 67 5 - 1' 8 ?1 <; .68 =4.ʿ 5" 6, E>4 6'<J E1' ; ; ' 6 -, 6
.<J'J.ʿ ʿ .7. <>1.ʿ5.ʿ E.4 >.ʿ 5" J4.11.ʿ - .16 1 .<78 ?,41
. / 01'6.1 , ; ; >;<7 >.ʿ 1,?.Z < =4,ʿ 5" <'7 ,< E1'<ʿ
'E'56.ʿ E>46 ' 7 .55.ʿ ,EE.<6.6Z
W .6 H1'<;6 ,<7 ; ;66#>.ʿ ;1, 1.ʿ =4 ,< ; .1 7 7 >.6 - .1ʿ
7468 >.6 7'5.<768 >.6 54 / 1.68 ; , / / .ʿ , < 0>1 7.ʿ >.ʿ 0'0 7
>.ʿ 6,<? 1.% #; .0 .4@8 ,< <.ʿ ?; 47 ?546 ; ,4-1 1 6.6 ?1#04ʿ
J#68 6.6 - . ; .68 6" < 5 7.ʿ >4 / #1 7.ʿ >.ʿ 6.6 '7.4@ N 5" <,M
05.66.ʿ >.ʿ 5" 7 7.ʿ .7>4 ; ; .41 " >#714 7 ; ;E5.ʿ >.ʿ 5" < 66'<; %
\ 7 ,6 H1'4E' ,<7 ; 66# >.ʿ ;1, 1.ʿ =4 5 1'55E 78 ?,41
?5' 1. .48 .<71.7.< 1 J1'<>6 E1' 6.7 >'<6 5.ʿ 54@.ʿ >.6
1'< '<76>.ʿ7,47.6 ; ,45.4168 ?,41 E 1.ʿ >.ʿ 5,<J4.6 ?1 1.6%
56 ,<71' / .< '5.6 / , <.68 5.6 ?1 71.68 5.6 #- =4.6 ʿ5" ?4ʿ
1.7.8 " 6 <7?5 ; 7.ʿ ?1 / 7 - .ʿ >4 ; ;1 67 '< 6 / .%
$ .6 H1'<E' 6 ,<7 ; ;14 =4 5 - '5.ʿ 7 / .4@ ?1 - .< 1 5.6
> 6?45.'?'1 >.6 1. ; ,< ; 5 '7 ,<6 =4.ʿ > .<51. .< 1 5" > - 6 ,<
?'1 > <5.1 / <'05.6 ?1, ; 6 .<71.ʿ 5.6 ; 7,V.<6N 56 ,<7.7'G
05 >.6 04J.6>.ʿ ?' @%
$ '<6 5" 1.- ,547 ,<8 5" H1'<; .ʿ E'56' 7 0'<=4.1,47. 8 .7
5 .6 / 55 .16 > ; , / / .6 71,? ; ,<E '< 6 #7' .<7 1#> 76 ʿ 5"
/ ;<> ; 7.% .6 H1'<;6 ʿ ,<7 E1# / ʿ >.ʿ / '<=4.1 ʿ 5.<1'?'M
1,5.ʿ I 56 ?'7.<7 5.416 >.7 .6%
'<7 =4.ʿ5.ʿ >.6?,7 6 / .ʿ , ; ;4? 7 c.ʿ71><.8 7,<6 5.6 - , ʿ
6 <6 >.ʿ 5" H1'<; .ʿ ' - ' .<7 %;1' <>1.ʿ 6,< - , 6 <'J.% & <.

>7.1<. 5.ʿ ?' @ .67 ' ;777.55. / .<7 5" 5,ʿ E, >' / .<7'5.ʿ >.ʿ ; .ʿ
?4 66'<7 . / ? 1.% %
$ 1 <; .68 =4.5 .675.ʿ71' 7 ʿ =4 ʿ - ,46 >,<<.ʿ .ʿ >1, 7 >.ʿ
71,405.1 5" H1'<; .Z " H1'<; .ʿ " J'1'<718 5 .67 - ' 8 5"
; ,<67 747 ,< J.1 / '< =4.ʿ ?'1 5" ?' @>.ʿ .67?: '5 .I / ' 6
0' / ' 6 5.ʿ >.6?,7 6 / .ʿ >.6 1, 6 >.ʿ H1'<; .ʿ < " #7 ʿ J'1'< %
,41 =4 - ,45.0 - ,467 1.1 #? Z 67 ; .? ,?1K ,< 6" Z
ʿ<.ʿ >. / '<>.ʿ ?'6 - ,71.ʿ 6. ; ,416% " 5 1 / # / .041 ʿ5" ; ʿ
67 747 ,< E1'<E' 6.8 .7 6 .67 >#;5'1 8 '4@ V.4@ >.ʿ 6" <'7 ,<
.7 >.ʿ 41, ?.8 - , 1.ʿ ' / 8 - , 1.ʿ?1,7. ; 7.41%
W " <'7 ,< - ,46" .< ; ,1.ʿ / . <6 '??.5#6I .7 =4'<> - ,46
'47 .0 5.ʿ >1, 7 > <7.1 - .< 1 >'<6 6.6 'EE' 1.6 < 1 .E 1.68
- ,46 < ' 1 .0?'6 ; .54 ʿ >.ʿ - ,45, 1 5" ; ,< .17 1 '< ?1 @ >.ʿ
<,71.ʿ '1J .<7 .7>ʿ <, 1.ʿ6 '<J% 5.41 ; ,<67 747 ,<.67 0, <<.8
.55.ʿ 6406 65.1" / '5J1 ʿ - ,468 / '5J1 ʿ ,<,46% .5.ʿ <. - ' ,7
1 .<8 5.ʿ 7. / ?6 .7 ;@?.1 .< ; .ʿ V ' / <.1,<7 5.6 1 E,1 / .6
<#; .66' 1.6% .4@ E, 6 .< 4< 6 ;5.ʿ 5" 4 >.ʿ " ; ; '<J.ʿ 6"
; ,<67 747 ,< N ?.ʿ ;0'<J. / .<7 < " ?'6 ; , 7.ʿ ,<.ʿ J,457.ʿ >.ʿ
6'<J 6.6 - 6 < %
$ <.ʿ E' 7 '4@% - , 6 <6 >.ʿ 5" H1'<; .ʿ =4 .55.< ' 5 =4 4<
% 65'7; 418 ,< =4 . 5.ʿ .< '77 >,40.ʿ #.<76I =4.ʿ ; .77.ʿ <'7 ,<
6, 7 J,4- .1< .ʿ ?'1 >.6 / '571.66.68 >.6 / < 671.6 .5 5.416
;1 '541.68 ,4 ?'1 5.6 > ?45 6 > ʿ ?.4?5.I =4.ʿ 5.6 ?1 71.6
E1'<E' 6 6, .<7 J1'6 ?4 / ' J1.]Z%%% ; ; , / / .1; .ʿ J.1 / '< M
=4.ʿ 6.ʿ E.1' 7 5 / , <6 6 5.ʿ ?1 <; .ʿ >.ʿ #,<> ʿ .678 '??.5 ʿ
/ ?5. / .<7 % #,<> Z
W ʿ 68 6 ;1 .<7 5.6 '1 67, ;1'7.6 E1'<E' 68 <,71.ʿ ; '46.ʿ
W .67 5" ; '46.ʿ ; , / / 4<.ʿ >.6 1, 6I ; .77.ʿ 7.11 05.ʿ 1 - ,547 ,<
W .67 4< ; ,4? 5. ; 71 =4.ʿ =4 ʿ - " / .771.ʿ 7, 7 .< ; , / / ʿ
ʿ 7 ,<% .@. / ?5.ʿ >.6 H1'<=' 6 <.ʿ6.1" ?'6 '<6 / 7'
W 7.'16% .6'471.6 ?. ,?5.6 - ,<7 '??1.<>1.ʿ >.4@ ʿE,45.1
W '4@? .>6 5" / '0.67.ʿ 1,V'5.% ; 1 6 .ʿ >. ʿH1'<E' 6 - '8
$; , / / .ʿ 5.416 / ,>.6 ʿ5. [6 ; '?1 ; .68 6E. ;5.1 7,47.ʿ
W E,?.% ?
ʿ W <6 ?'15.<7 ; .6 ?1 7.4> 6 ' / 6 >.6 1, 6N / ' 6 ; .ʿ
=4 56 1.J1.75.<78 ; ʿ =4 56 - .45.<7 1. ; ,4-1.18 .67 0 .<
/ , <6 < 1.7>.ʿ5" 1,V'47 ʿ =4.ʿ ; .54 ʿ>.5 '1 67, ;1'7 .% #.ʿ
<>.67?'6 5.ʿ 1, ʿ =4 56 - .45.<7 1.7'05 1 ʿ ; .ʿ 6,<7 5.416 / ' $
71.66.6 ʿ #4@8 5. 16 ;1, "8 5.416 ; ,1>, <68 5.416 7 71.6%]
1.J1.57.<7 >.ʿ < 71.ʿ ?546 >.6 - 6 16 ʿ5" ; ,418 >.6 ?' ; ; '6
>'<6 5.6 ?1, - <; .68 >.6 E.1 / .16 J < 1'4@?,41 > - ,1.1 5.ʿ
E 6;8 >.6 ?'15. / .<56 ' - . ; 5.ʿ5 71.ʿ ,1J4. 55.4@>.747.416 >.ʿ
1, 68 >.ʿ ? 1.6 >.ʿ 5" <'7 ,<8 >.6 ?1 5'76 <'J.ʿ <ʿ>'<6 , ʿ
?45.<; .8 .7;% 56 1.J1.57.<7 7,46 >.ʿ <.ʿ ?,4- , 1 6'7 6E' 1.ʿ
5.416 - .<J.ʿ <; .6 ?'17 ;45 1.6 ʿ ; >.6 5.551# ʿ >.ʿ ; ; ' ; .78
.7 >.ʿ <.ʿ ?546 6 .<J1' 66.1 >4 64.ʿ >.ʿ 5'7?.<>'<7 =4.ʿ >.6
? 55 ,<6 >.ʿ E' / 5 .6 6,<7 5 -1 .6 ʿ ,??1.66 ,< .7 ʿ 5" / .<ʿ
> ; 7 % $8
$ 55. / '<>6 ʿ0 .<5, <>.ʿ : ' 1 5" 1 - ,745 ?< E1'<J' 6.8
ʿ>.- 1 .01. / .1; .1 5.ʿ ; .5 >.ʿ ' - , 1 E' 7<'771.% 34'<>
5" H1'<; .ʿ 7' 7 J, ,- .1< . ?'1 4< >.6?, .8 =4.ʿ >.ʿ7<'4@
< .< ' ,0 - .46 ?'6 6,4EE.156 ʿ .=4.5 >.ʿ 6. ʿ - , 6 <6 < " ?' ʿ
?1,4- ʿ5.6 .EE.76 >.ʿ 6" E<1.41 .7 >.ʿ 6,< ' / 0 7 ,< Z .?, 6
; '15.6V5558 5 '5 .8 55. / 'J<.8 5.6 'V6 K'6.5 6ʿ
?'J<.ʿ ,<7 7 '7,41 '7,41 1' - 'J. .6 ?'1'5.ʿ >.6?,7 6 / .ʿE1'<ʿ
Z' 6% .67 ; .ʿ ?'6 ,4 6 " ʿ =4 ʿ ; ,4-.155.ʿ '5'7 <'7 >.ʿ
1 <#6 .7 >.ʿ ; ,<>1.68 =4 ʿ " / 6 5" B,55'<>.ʿ ʿ >.4@>, J 6
>.ʿ 6" ?.17.8 =4 ʿ " 1. / ?5ʿ > .EE1, ʿ 57'5 .ʿ .7 6?'J<.8 .7
=4 ʿ '41' 7 E' 7>.ʿ 55. / 'J<.ʿ4<.ʿ?1, - <; .ʿ >.ʿ H1'<; .8 6ʿ
5" - ;7, 1.ʿ > B, .067.>7 < ' - ' 7 '11 7> 5.ʿ ; ,<16 >.ʿ 6.6 ; ,<%
=4 7.6 ʿ ,5ʿ ; ʿ =4 ʿE' 7 4<>.6?, ʿ N - , 5 ʿ =4 7E,1' 7
.< ; ,1.8 6 5 ?,4- ' 7 > 6?,6.1 ʿ 6,< J1 ʿ >.ʿ5" E,1; .8 >.ʿ 5"
?, ?45'7 ,< .7 >.ʿ <>4671 .ʿ >.ʿ 5" <'7 ,< E1'<=' % ʿ 5 ʿ
; .ʿ =4.ʿ ?1 - .<7 '0'?' ' 6 5" 1 - ,547 ,<% ʿV " ; .<7 '<6 =4.ʿ
<,46 '41 ,<6 ; 01 ʿ 4<.ʿ 7.55.ʿ 1 - ,547 ,< ?'1 >.6 E.4@ >.ʿ
0, .8 >.6 ; '<7 =4.6 ʿ 7.1<.58 =4.ʿ ,<,46 '41 ,<6 .@'55 ʿ
1'0. '4 .5 6.6 ; ,55 J77.6 ; , / / .ʿ >.6 '<J.6>.6 ; .<>46 >4
; .5 ʿ < 6. ; ,416 >.ʿ :4 / '< 5 ʿ N .7 / ' <7.<'<7 - ,46 - ,4
>1 .08 55. / '<>68 1. / .751.ʿ .<71.ʿ 5.6 / ' <6 > 4< >.6?, ʿ
'=66'?4 66'<75.ʿ J5' - .ʿ 7. <7 >4 6'<J >.ʿ - ,6 ? 1.6 .7 >.ʿ - ,6
E1 1.68 .75.ʿ > 1 J.1 >.ʿ <.4- . '4 ; ,<71.ʿ - ,46 .7 - 6 .<E'<76ʿ
.7 7,47 ; .5" - ,46 - ,45.05.ʿ E' 1.8 <,< ?,41 ,46 " 8 =4ʿ
<.ʿ5.ʿ >. / '<>, ʿ ?'68 / ' 6 ?,41 ?5' 1.ʿ ʿ =4.5 =4.6 ' 67. ʿ
;1'E.6 =4 ; , / ?5.<7 ?,41 1 .< 54 1.?,6 >.6 ?. ,?5.6 -7E 78
6 <6 .7 5.ʿ 0,<0.41 > ʿ5.416 . ,< ; 5,V.<65'
=G ʿ ʿ ʿ ʿ ʿ ʿ% ʿ E

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?1.'5' .8 / ' 6 1'Q,41<; / ;<7 '?.47 1. .< .EE.7 E1. 7 5.'> .7'O5 18>'<6 5.6 5 .4@ ,< 5.'O, 6 .67 1'1.8 >.6 E,416 ,E'5.6 ?'17 ;45 .16 ?4 66.<7 '??,17.1 5.4 O, 6 .5 ;4 1 .< ; , / / <

N . ; , / 7. > '5 .<'5 ,< 6 .67 '?.1J48 ?'1 5" ;,11.6?,<>'<;. =4 5 '-.; 5.6 >>?'17. / .<568 =4 5 6 .67 ; , / / 6 >.6 'O46 .<,1/ .6 .< ; .77. ?'17 . =4. 5.6 > 1.;7, 1.6 '47,1 6' .<7 5,45.6 6,17.6 > '; U4 6 7 ,<6 <7 5 5.68 '>, 7 -,46 ?1.6.<7.1 <;.66'< / .<7 4< ?1,Q;7>. >. ;1.7 " ;.7 .J'1> .'U. / '<> .< ;,<6. =4;<; . 1'Q,41<. / .<7

''( ) ((+ 4 .*((4. (,F(-(3.(,-((.1 *$(.

! 1 <A !! &

2 # ' N . ; , / 5> >. 4> ;'741. 6 .6 71,4-.8 .< .@' / <'<7 5" =4.67 ,< =4 -,46 .67 6,4 / 6.8 >'<6 5. / 1'. . / O'11'6 =4. ; .54 ,4 ?' 1' 7 6. 71,4-.1 66. / O5. . " >,<. > V 6> ; .77. =4.67 ,< .< 71, 6 ;5'66.6 " ?1.1' >1.8 =4 >, 7 .@ ;546 -. / .<7 <,46 , ; ;4?.1 '-'?7 7, 7. '471.8 .67 5. ?, <7 >. 6'-, 1 5.6 ,EO. .16 6. J<.41 '417 6. E547 ,< <,< 1. / O,416.6

.6 1' 6,<6 =4 ,<7 .7. '55>J4..6 O .1 ?,41 5" <.M J'7 -. <. / ,<7 ?, <7 >4 7,47 ; ,<-' <;4 < 6 .67 .EE,1;. >. ; , <?'7 .1 ;.6 ,75 ;.6 '-.; >.6 >, / ' <.6 ; ,1?,1'568 .7 ,< .67 ?'1-.<4 " 1' 7.1 ;.77. ?1, ?1 .7. ; , / / . 5" ?1,?1 >7. > 4<. 7.11. ,4 '471. O .< ';=4 6 " 5 71. 6 <J45 .1 .15 < 'F?1.7.<>4 =4.8 ,E5 ;. .7'<7 '5 .<> ?'1 5. :'47 Q467 ; .18 ; , / / . '41' 7 ?4 >71. 4<. 7.11.8 5" ?1,?1 .7. .< " ?.1 .<Q1. .6 / ' <6 >. ,EE ; .1S . :'47 Q467 ; .1 < ' 5 .<. ?'6 6,< >1, 7 5 <. E' 7 =4 .< >;5. J4.1 .@.1 . ; .8 / ,V.<<'<7 E <'<;. 3 4 4< ; ,4? >. E,4>1. .;1'6>7 4<. / ' 6,< ' <6 '5 .<..8 Q. >. / '<>. 6 '; =4.1.41 >. 5" Q,4 66'<; . <. 6.1' 7 ?'6 E,<>. " > 1. N . -,46 ' >,<<> / ,< '1J.<7 ?,41 =4. -,46 / . E'6 6 .O Q,4 1 >,<<.O / , '4<. Q,4 66'<; . >=4 -'5.<5.8 ,4 1.<>.O / , / ,< '1J.<7 & < / 41 / 41. ' 6 5" ; ,<6 >.1'7 ,< 641 5'=4.55. Q 5<6 67. ?1 <; ?'5. / .<78 . .67 =4. 5.6 ; >.-'<7 6. J<.416 < ,7 7 ?'6 .4 5. >1, 7 >. -.<>E. 5.416 ,EE ;.6 . <. / '?74 .1' ?'6 641 >.6 Q41 6?14>.<; .6 -.16'7 5.68 / ' 6 641 ,1>,<<'<; . >. K5, 68 1.<,4-.5. . ?'1 4< '17 ;5. >.6E7'76 >. 9(U8 =4 >. E.< '4@ ?1,?1 .7' 1.6 >.6 ,EE ; .6 6. J<.41 '477 ;5. -.<>1. ; .6 ,EE ; .6 46'J. >. 5.6 -.<,1. < " ?4 .71. <71,>4 7 ?'1 5.6 6. J<.416 .4@ / / .6 < V " >,<. ?'6 5 .4 ; ' '5" / '@ / .@ ! 46'J.8 =4 .67 5. ?1,?1. ,4-1'J. >. ; .4@ =4 V '-' .<7 <7.1.78 <. ?.47 7' 1. 5,Q .< 5.41E'-.41 . >. / '<>. 6 5.6 ; >.-'?7 6. J<.416 >, -.<7 .71. 1.; , / ?.<6. 6 >. 5" ; ,<71'-.<7 ,< =4 56 ,<7 ; , / / 6. " 5" , ,41 <7.1.7 >. =4 ; .7 46'J. ' 7 c .7. <M 71,>4 7 Z ,41 <7.1>7 >.6 6. J<.416 .7?'1 .?@ '1 =4 ' 7 5.7> . ,<E 1 / >Z '1 =4.5=4.6 '11.76 ?'17 ;45 .16 >. ; ,41" 64?.1 .41.6 . , / ?,6. .6 >. 5 '476 Q467 ; .16 ' 6 < .67 5 ?'6 .- >.<7 =< 56 < ,<7 ?4 6. E' 1. 4<. Q41 6?14>.<,G " .4@ / > / .6Z

#.6 -.1 7.6 E1'??'<7.6 -,46 ; ,<>4 6.<7 <'741.5 5. / .<78 >'<6 4< <67'<7 ,4 5" E,174<. > 4< J1'<> <, / O1. >. ; 7,V.<6 .67 / .<'; . .8 " 5" ; ,<6.=4.<; . =4. -, > .6 ; >.-'<7 6. J<.416 < '-' .<7 ?'6 5. >1, 7 >. -.<>1. 5.6 ,EE ; .6 >,<. 5" -.<7. .67 :4 .8 >,<. 56 >, -.<7 .< 1.67 7 .1 5. ?1 @

< " 6'<6 ; .66. ?'66> O .1 >4 ?1 <. ?. ' 5" ; ,<6.M =4.<; . < -,46 " E' 7 4< ; '5;45 .EE1'V'< >4 ?1 @ >. ; .6 1. / O,416. / .<76 .67 " 1.< '1 =4.1 =4. 5. ?546 J1'<> <, / O1. >. Q467 ; .6 6. J<.41 '5.6 .7' 7 >,<<. " 5 71. J1'7< 78 ,4 " 4< 71 ` ?.7 7 7'4@8 .7 / ,V.<<'<7 =4.5=4.6>1, 76 >. ?1,- 6 ,< , ; >,<. ; . ; '5;<5 >. / 55 ,<6 .; '17>8

< " -,454.<.,1. <E54.<; .1-,71. >>. 6 ,<.< -,46 !)%('641 (6,17 >.6 T #& 4% '6. J<.416 1 .

>. / '<>. ; . =< 56 ?.1>.<7 5" 64??1.66 ,< >.6 Q46M 7 ; .6 6. J<.41 '5.6 N >.6 >1, 76: ,<>1 E =4.68=4.5=4.6 >1, 76 >. / 47'7 ,<8 .7 =4.5=4.6 ' / .<>.68 =4 ; , / ?.<6' .<7 ?. <. 5.6 E1' 6 546 .4 16 :'456 Q467 ; .16 .7' .<7 ,O5 J.6 >. ?'V.1 5.416 ,EE ; .16 ,46 -,V;O >,<. =4 5 < .67 ?'6 -1' =4 56 6, .<7 14 <>6 ?'1 ; .77. 64??1.66 ,< ' 6 ' 55.41Z -,46 -.11.O ;.6 / 6.1'O5.6 ,EE ; .16 71 O45' 1.6>.6 6. J<.4168 .7 ; .4@ ; ?.1; .- , 1 641 .<@8 >'<6 4< ; ,417 .6?'; . >. 7. / ?68 - <J7 ,4 71.<7. E, 6 5" -'5.41 >.6 ,EE ; .6 .1' 7 ; . Q467 ; . > ,O5 J.1 .<; ,1. 5.6 ,EE ; .16 ?.1>1. 5.41J E <'<; .6Z

N ,41 1 ,<>1. '< ?1>,? <'<78 5 64Eg E 7 >. 5 1. '17 ;5. " " " >4 5 71. >4 >. ;1.7 >4 Q'<- .1 (* 8 '17 ;5. ' <6 ; ,<.<N $ 5 <. ?,411" E 71. ?1. 7.<>4 ?'1 5.6 ?'17 ;45 .16G=4 ,<7 ';M =4 68 6, 5 ?'1 -.<7.8 6, 5 ?'1 >.6 5 71.6 >=4 ?,55.<768 '4;4<6 >.6 >1, 76 64??1 / .6 ?'1 5. ?1.6.<7 >>;1.7 $ 3 .16,<<. <. ?.47 E 51. 1. ;4 " <-,=4.1 5.6 5, 6 ; .<71. ;6=4.55.6 5 " ?>. : 54 / > / . ,<. 6 5.6 5, 6 >>E.<>' .<7 '4@ ; >.-'<7 6. J<.416 >. -.<>1.8 .55.6 >>E.<>' .<7 ?'1 ;.5" / > / . '4@ ; 7,V.<6 > ';=4>1 1 ; .5" Q 'Q>47. =4. 5.6 Q46M 7 ; .6 E. J<.41 '5.6 >7'<7 4<. ?1,?1 >7> . , / ?5.@.8 ; , / ?1 .<'<7 .7 5. >1, 7 >. <, / / .1 >.6 Q4J.68 .7 5. >1, 7 >.Q4J.18 66. / O5. . " >>714 7 4< .7 '471. 6'<6 <>. / < 7. =4. ; ,<6. =4. / / .<7 5.6 Q4J.6 <. >, -.<7 ?'6 ?546 .71. 1. / O,416.6 =4. 5.6 ; >.-'<7 6. J<.4168 & < .<7.<> >. 5,<J4.6 14 / .4168 6, 7 > '? ?1,O'7 ,<86, 7> / ?1,O'7 ,<P

< 71.6 J1'<> <, / O1. >. / . / O1.6 6. E,<7 < 6;1 1. 641 S"5 65. >. 5" ?'1?5. + '451.6 >. / '<>.<7 1'Q,41<. / .<78 $

?1.6 =4.5=4.6 >.E'768 66. / O5>. >>;1E;7. 'G Q,41<.1'.?7 " 5" ?1, ; : ' <. 5.J 65'741.

*N .16,<<. < .67 ?546 =4. / , 6,4 / 6 '4@ >. .1.76 >. 66. / O5. . ' 6 Q. ?1, 6.<71.1 >'<6 $ 6.6 -4.6.<54 ?1>6.<7'<7 4<. ; : ,6. >. Q467 ; . <-'M 1 'O5. . .67 =4. 5.6 ,EE ; .16 == ,<7 -.16. ;4? E <'<; . ?1 / 7 -. '< 71.6,1 ?4O5 ;8 =4 6,<7 -.1 7' ' O5. / .<7 >.6 ,EE ; .16 1,V'4@8 ?4 6=4. 5.6 6. J<.416 < '-' .<7 641 .4@ =4 .5. >1, 7 >. ?1>6.<7'5 ,<8 .7 =4 56 >7' .<7 ?,41-46 ?'1 5. 1, 8 =4. ; .6 ,EE ; .168 > 6 Q.8 ?,41 5.6=4.56 5 6 >5E.-. >.6 > EE ;457>6 >'<6 5.6 O 51.'4@>. 5" 5 =4 >'7 ,<8 6, .?7 E,1 / .55. / .<7 .@ ; .?7. 6 >. 1'Q,41<. / .<7

N 66. / O5. . >>; >.1" ; .6 =4.67 ,<6 ?'1 7 .55. / .<7 Q,16=4 ,< 54 E.1" 5. 1'??,17 >. ; .6 5 =4 M >'7 ,<68 Q. & % & >,<. =4 , ?'66. ,1>1. > 7 Q,41

66. / O5>. ?'66. " ,1>1. >4 Q,41

6,V 3 ! '-.O ;<'1J. -,6 ; , / 7.6 1.4< 6 >.6 >, / ' <.68 >. 5" / '1 <.8 >. E <'<; .68 >. '5 .<'7 ,<>.6 >, / ' <.6 <'7 ><'4@ .7 > 'J1 ;45741.8 >. -,46 ?1.6.<7.1 5. ?5'< > 4<. <,4 -.55. '>1' < 651'5 , E,1.67 .1. '1 5" 5. >? 5 6.? 7. / :1.8 -,46 <,46 ' -.O 71' ; . 5.6 .5. / .<76 >. ; . 71' - ' 58 .<>. ;5'1'<7 =4 .< / '7 O1. > .'4@ .7 E,1>76 5" ; ,<6.1-'7 ,< .7 '> / < 67'7 ,< '??'17 .<>1' .<7 '4@ ; ,1?6 =4 6.1' .<7 .7'O5 6 " ; .7 .EE.7 =4 6.1' 7 E @> >.6 1.J .6 ?,41 5" -.<7. >. ; .6 >, / ' <.68 .7 =4. 5.6 ' ;7 ,<6 .7 ; ,<7.67'7 ,<6 =4.5; ,<=4.6 6.1' .<7 ?,17..6 '4@ 71 O4<'4@ >. > 671 ;76 <6 8 -,46 '-.O E @. ;6 O'6.6 ?1 <; ?'5.6 >. <,71. 71'-' 5 8 .7'O5 66. / ;<7 > 4<. '> / < 671'7 ,< E,1.67 .1. ?'17 ;45 .1.8 .75" 6> ?'-'7 ,< >. '> / < 671'7 ,< ; ,<6.1-'7, 1. .7 >. 5" Q41 > ;7 ,<8 < .67 ?'6 :.6, < >. -,46 ?1,4-.6 = <>..66 7. > 4<. '> / < 671'7 ,< ?'17 ;45 .1. ?,41 5" ; ,<6.1-'7 ,<>. 71, 6 / 55 ,<6> '1?.<76 >.O, 68 ?1,Z >4 6'<7 '<<4.55. / ;<7 C / 55 ,<6 >. 1.-.<48 1. -.<4 =4. 5.6 ' / .5 ,1'7 ,<6 =4 6;1,<7 5" 64 7. > '1. J / . =4. -,46 '55.O >7'O5 1 ?,17.1,<7 2 / 55 ,<6 .6 E,1>76 ; >.-'<7 >, / '< '5;6 ,4 .; ;5. 6 '67 =4.6 .7? V.<7 >.-.< 1' ' <6 .<71. '?' <6 >.8 5" ?'O,<c

4<' ,02X7 / ? ,17'<7>.'1.-.<4'?405 ;8 4<.'1.66,41;.' ?,41'5" / '1<.' <E< / .<7 ?1. ; .46.8 .7=4 ' '41" ' ' -'<7'J.'?,5 7 =4.'>.'1.<>1.' .<51.5 ;<'>.'<, 1.' / 'M 1 <.' <>.?.<>'<7>.6 <'7 ,<6 .71'<J.1.6%

% <.' > 6;466 ,<' '??1,E,<> .' " ;,<-' 1 ;4'-,6 ;, ' 54 7>6 =4 4<' ;,1?6 ,4' '>/ < 671'7 ,<' ;.<71'5 >.-' 7 >71.' 5" 0'6.'>.' ;.77.' '>/ < 671'7 ,<8 7'47 ?,41'641' -. 55.1' 5.6 '>/ < 671'7 ,<6 E,1.67 1.6 6.;,<>' 1.6 4.' ?,41' ;, / 0 <.1' >'<6 ;.77.' '>/ < 671'7 ,<' 5.6 <7>1.76 >.6 >. ?'17. / .<768 . ' .@' / <.1'5.6 ?1,0.76 > ' / > ,1'7 ,<8 .7 .<' ?1>6.<7.1'5.6 1>6457'76" 5" 5.M J 65'741.% 1, 6 ;5'66.6 >.' ?1.?,6.6 . / ?5,V.6 >'<6 7.6 >>?'17. / .<768 6,46 5" 41-. 55'<.'>.' '>/ < 6 ' 71'7 ,<' ;.<71'5.8 <,46,<7 ?'17'<.;.66' 1.6 ?,41'5" ;,<6.1-'7 ,<'>.6 E,1>768 6'-, 1N >.6 ;,<6.1-'7;4168 ' >.6 <6?.;7.4168 .7 >.6 J'1>.68 =4 '6.' 641-. 55.1,<7 J1'>4.57. / .<78 .7 E.1,<5 5.416'- 6 7.68 5.6 ?1. / .16 7,46 5.6 '<68 5.6 '471.6 =:'=4.' / , 685.6 %>.1< .16 ,4-<.55. / .<7% ,6 ; , / 7.6 -,46 ?1,?,6.<78 >'<6 5" 64 7.' >.'5.416 ?5'<68 > 5E.1.<7.6 1.J .6 ?1,?1.6 " ?1>-.< 1'7,47.6 5.6 E1'4>.6 >'<6 5.6 '>04> ;'7 ,<6%' .4@ ?1>?,6.6 1.6?,<6'05>68 >71'<J.16 4<' '471.8 E.1,<7;,<.411. / / .<7 7.6,?>1'5 ,<6 >4' / '15;5'J.I > EE>1.<7.6 '471.6 ?1>;'47 ,<6 6.1,<7 ?1 6.6 ?,41'5.' 1>;, . / .<7 ,4'5" 1>1 >;'7 ,<'>.6 ;,4?.6%

.67,41<>.6 '<<4.55.6 ' E' 7.6 ?'1'5.6 '>/ < 671' ' 7.416 J><.1'4@8. / ?>;:.1,<7 7,47.';,<< -.<;.'.<71.' 5.6 '>/ < 671'7.416 ?'17 ;45 .168 ?'1'5.6 1 6=4.6 =4.' ;, 11' .<7 ;.4@ ; ' > >71>' 641?1 6 >'<6 4<' / , / .<7 <'77.<>4%

,46 < '-,<6 ?'6 ; / ' =4.'5.6 ;,1?6 '>/ 7 671'7 E6 >]6.< >51.;:'1J>6>.;.7&.%'>/ < 671'7 ,<% #.'< .67 =<.' ?'1'4<.'641-. 55'<;.'.@71>/ . / .<7 ';7 -.'=4 ,< ?.47 / ' <7.< 15 .@';7 7<>.'> E'6.1- ;.I';.'< .67=4.' ?'1'>.6 ;,<<' 66'<;.6 141'5.6 .7 ?'1'>.6 <,7 ,<6 5,M ;'5.6 ';= 6.6 ?'1' .@?>1 .<;.' =4 ,<' ?'1- .<7 ">.6 ' / >5 ,1'5 ,<68 .7 ;.'< .67=4.'?'1'>.6 ,?.1'7 ,<6 5,< # .]'.7?>< 05.6 =4 ,<' ?1>- .<7 5.6 '046 .75" E1'4>.' <6 5.6 ;,4?.6 .7>'<6'5.6 '>04> ;'7 ,<68 ,4'=4 ,<' .<' ,07 .<7 5" 1.?'1'7 ,<% ,46 '-,<6 ?.<6>' ;.?.<' >'<7 =4.' ;6 ;,<6.1-'7.4168 .<' / >/ .'7. / ?6 =4 5;' <6714 1' .<7 '>/ < 671'7 ,<' ;.<71'5.' >4' 1.6457'7 >.'5.416 - 6 7.68 >.-' .<7 '466' .<' <6714 1.'5.6 #,1?6 '>/ < 671'7 E68 .7=4.' ;.<7 ;' >.-' .<7 '-, 1'5" E' ' ;457.'>.E. 1.8 =4'<>' 56 5.04J.1,<7 ;,<-.<'07.8 >.6 - 6 7.6 ?,41'-.1 E .1'5.6 ;, / ?7.6 1.<>46 ?'1'5.6;,<' 6.1-'7.4168 .7 >.<,<;.1'5.6 '<468 6, 5" '>/ < 671' ' 7 ,<;.<71'5.8 6, 5'4'1, 8 6, 5'<' ;,1?6 5.J 65'7 E8 .7;% $ % 6,<' .<71.' >'<6 =4.5=4.6 >.7' 56 457>1 .416 641'5.6 > EE>1.<76 5. / .<76 >.'6,<' ?1,0.7%

#.'?1,0.78 / 6.<'>.5 0.1'7 ,<8 66. / 05..'.< >>' .1 .'64;;.66 -. / .<7 5.6 '17 ;5.6 64 -'<76N

D ' " / ' ' ' ' & '!

W 17% F% .6 E,1E76 .7 0, 6 >.?.<>'<76 >4' ; >.-'<7 >, / ' <.'>.'5" ;,41,<<.' .7 >.6 ; >.-'<7 '?'<'J.68 ;.4@ ; >.-'<7 ?,66.>;6 ?'1'5.6 0.<.E ; .168 .J1?6 .7 ., 7 / 4% <'47. ' .;;5.6 '65=4.68 6.;45 .16 .7 1.J45 .168 .7J.<.1'5;' / .<5 7,46 5.6 0, 6 =4' 6, ,7 ,4 ?,411, 7 E' 1.'?'17 .'>4' >, / ' <.'<'7 ,<'58 6.1,<7 0).7> 4<.''>/ < 671'7 ,<'?'1' 7 ;45 .1.%

W % .6 0, 6 <'7 ,<'4@8 ; >.-'<7 '5 .<.6 7 5 71.' >.' ;,<;.66 ,<I'.<J'J. / .<78 464E14 78 ,4' '471.'5 71.'1.-,;'M 05.8 6.1,<7 6,4 / 6 "5" / / .''>/ < 671'7 ,<%

% .6 0, 6 ?,66.>.6 .<'J14.1 .8 J1' 1 .8 6.J1' 1 .8 7 .16 .7>'<J.18 <> - 6 .<71.'5" <'7 ,<' .7>.6 ;, / / 4<'4' 7.6 ,4' >.6 ?'17 ;45 .16% V6.1,<7 ?'1. 55. / .<7 6,4 / 68

7 5 % .6 0, 6 '??'17.<'<7 '4@ ;, / / 4<' 47.6 > :'0 ' 7' 76 6.1,<7 6,4 / 6 "5'>7.''>/ < 671'7 ,<8 64 -'<7,.'=4' 6.1">.7.1 / <.%

W % ' .< 6.1">.' / . / .'>.6 0, 6 ?,66.>.6 ?'1'5.6 / ' ' 6,<6 > .>4;'7 ,< .7>..0'1 7.8 ?'1'5.6 .7'05 66. / .,76 >.' / ' < / ,17.' .71'<J.168 .7 ?'1' ,1>1.'>.' '57.%

7' % .6 0, 6 '??'17.<'<7 '4@ ?'17 ;45 .16 ;.66.1,47 >V .7 .'6,4 / 68 .7 ;:'=4.' ?1,?1 . ' 1.'6.1" E 01.'>.'5.6

'>/ < 671.1'.7> .0 > 6?,6.1' ' '-.< 1';, / / .'0,<54'6. /W 05.1'%'

' %

7 & '>"G '! '

' 17% F%'5'V '41'8 6,46 5.6 ,1>1.6 >4'1, 8 4<.''>/ M < 671'7 ,<';.<51'5.8 6,46 5.'5 71.'>.';,<6.1-'7 ,<' J.<.1'5.' >.6 E,1.76I'6.6 / . / 01.6 6.1,<7 '4'<, / 01.'>.' ; <=8 .7 '4' 1,<7 5.'5 71.'>.';, / / 66' 1;6 >.'5" ;,<6.1-'7 ,<' J <>1'5.%

W % .6 ;, / / 66' 1;6 >.'5" ;,<6.1-'7 ,<' <'J1, 7 =4 .<' -.174 >.'>.5 0.1'7 ,<'?1 6.'.<';4 < / 4<8 '5" ?541' ' 5 7.'>.6 64EE1'J.68 .7 7 .<>1,<7 1.J 671.' >.'5.416 >.5 0.1'M 7 ,<6 8 =4 '6.1,<76 J<..6?'15.6 / . / 01.6 ?1.6.<76 0.0'=4.' 6.'<;.%

' W % 56 <, / / .1,<75.41'?1.6 >.<7'<<4.55. / .<78 .5 5. / . / .' / . / 01.'<.'?,411" .71.'1.. 4'=4 '?1#6 4<' '< > <' 7.1-'55;%

W % 'V '41" 4< 6.;1.7' 1.'77';:.'0 5";,<6.1-'7 ,<8 5.=4.5 6.1" ;:'1J.'>.'5.< 1 .6 1.J 671.6 >.6 >.5 0.1'7 ,<68 >.'6 J<.1'5.6 .@?.> 7 ,<68 .7>4' >.?,7 >.6 ?'? .168 6,46 5.6 ?1.;'47 ,<6 =?'6.1,<7 E4J..6 ;,<-.<'05.6%

W % 'V '41'8 6,46 5.6 ,1>1.6 >.'5";,<6.1-'7 ,<'J.<.M 1'7.8 4<' <, / 01.'>.';,<6.1-'7.416 ?1,?,15 ,<<.'0 .7;<' >4.' .7 0 5" > 67'<;.' 1.5'7 -.'>.6 5,1.768 >'<6 5.6 >.?'15.' <.<'76 ,0 56 6.1,<7 . / ?5,V.6%

& ' '6.1" . '05 8 6,46 ;:'=4.';,<6.1-'7.418 4<' <, / M 01.'64E 6'<7> <6?.;7.4168 >.7.1 / <.'641'5.6

W % '6.1" .7'05 8 6,46 ;:'=4.' <6?.;7.418 5.'<, / 01.' >.'J'1>.6 <#;.66' 1.'0 5";,<6.1-'7 ,<>.6 0, 6%

W % .'<, / 01.'.7 5"1.?'17 7 ,<' >.6 ?1.?,6.6 >.'5" 3 '(.0+ $ *'J.<.1'7.'6.1,<7 E@.6 ?'1'4<' >.;1.7 ?'17 ;4' $(.('+ # 5.6 .0'<J. / .<76 =4 '?,411,<7 .71.' #+$ " >'<6 5" 64 7.8 '?106 +0 $.'?1 6 '- 6 >.6;, / / 66' 1;6%

W "% < '75.<>'<7 5.'0,1<'J.' J.<.1'5 >.6 0, 6 .7 >.6 ;,4?.6 .<'>.?.<>'<78 5%V '41" >'<6 ;:'=4.'> - 6 ,<E, ' 1.67 01.' <<, / 01.'64EE 6'<7> '1?.<7.416 '77';.6 '4 6.1M -;.'>.'5";,<6.1-'7 ,<%

W "% 'V '41" '4?106 >.6 .,<6.1-'5.416 4<.' ,4'? 46 .416 ?5';.6 > . 9- .68%5.6=4.56 71'-' 55.1,<7 6,46 5.416 ,1>1.6 ?,41' ;=4.1 1'5.6 ;,<<' 66'<;.6 ?1,?1.6 0 .71.''>/ 6 '4@ ./ ?5, 6% '<, / 01.'.<'6.1">.7.1 / <.'?'1'5";.,6.1-'7 ,<' J.<.1'7.% $ $

" % ,16=4 4<' .50-.''41" 71, 6 '<6 > ';7 - 7.8 .7 0J.' =4 '6.1" ; '?106 E @.8 5 ?,411" 54 '#71.'>. -1.' <.' ; , / M / 66 ,<'>.64??5.'<78 .<' -.174'>.'5'=4.55.' '6.1" 646;.?M 7 05.'>.'1. / ?5 1 .6 E,<;5 ,<6 >.6 <6?.;7.4168 5,16= 5 6.1" >. .J4.'0 ;.7 .EE.7%

" " 8 .6 ?1.?,6.6 >.'5" 1.J .'>.<.1.J 671. / .<7 >'<6 ;:'=4.%> 671 ;7 6.1,<7 ;:'1J.6 >4'1.;,4-1. / .<7 >.6 ?1, ' >4 768 ?,41'.<E' 1.'5.'-.16. / .<78 ' <6 '=4.'>.6 '471.6 >.' < .16 >.'5.416 1.;;57.%

$ " % .6 ;,1?6 '>/ < 6 1'7 E6 1. / ?5 1,<7 5.6 E,<;7 ,<6 >.'641-. 55'<;.'.7 '471.6 =4' '>.50J4..6% '

75 KK %

; ' ' ' ' ' ')

C 17% GG ,<6 5.6 'J.<76 >.' '>/ < 671'5 ,<' E,1.65 .1.' >.-1,<7 .71.' 0J.6 >.' - <J7 ;<= '<6 ';;, / ?5 68 .71.' <' 6714 76 >.6 5, 6 ;,<;.1<'<7 5.'E' 7 >.'5.41 . / ?5, 8 .5 '-, 1' 5.6 ;,<<' 66'<;.6 E,1.67 01.6 <0..66' 1.6%

'55% .6 ;0 / / 66' 1.6 >.'5" #,<6.1-'7 ,<' J.<01'5.6.M 1,<7 <, / / .6?'1'5.'1,7I' 56 6.1,<7 ;0, 6 68 ?,41';.77.'E, 68 ?'1 / ' 5.6 ?.16,<<.6 'V'<7 5.' ?546 >.' ;,<<' 66'<;.'>'<6 1' / < 651'7 ,<'>.6 E,1.76% ' '-.< 1' 56 6.1,<7 ?1 6 ?'1 / ' 5.6 ;,<6.1-'7.416I .78 0 ;, / ?7.1' >4' h' '<- .1' (*(%8 ?'1 / ' ;.4@ =4('41,<7 '4' / , =6 ; <= '< ' > .@.1; ;.'.< ;.77.'=4'5 .%

" % ";,<6.1-'7 ,<'J.<01'5.'<, / / .1" 6,< 6.;1.7' 1.' .7 5.6 . / ?5,V.6 >.6 041.'4@%

" % .6 ;, 56.1-'7.416 6.1,<7 <, / / .6 ?'1'5.'1, 8 .<71.' 71, 6 640.56 =4 '54 '6.1,<7 ?1.6.<706 ?'1'5";,<6.1-'7 ,<' J. ' <01'5.8 .7=4 8 ?>41';.77.'E, 6 .50776=4 '4' F'0'<- .1' (*(8 6.1,<7 ?1 6 ?'1 / ' .6 640.76 5.6 ?546 .@?01 / .<7.6 >'<6 5" / '7 01.' E,1.67 01.% ?106 ;.77.' 0?,=4.' 5 <.'?,411" 051.' ?106.<7.8 ?,41'5.6 ?5';.6>.';,<6.1-'7.41I'=4.'>.6 <6?.;M 7.416 'V'<7 '4' / ,<6 ;<= '<6 > .@.1; ;.'.<;.55.@ 4'E 70%

" % ";,<6.1-'7 ,<' J0 01'5.'<, / / .1" 0 7,47.6 5.6 '471.6 ?5';.68 6'4E ;'=4 '6.1" 67'74.' 1.5'7 -. / .<7 '4@ J'1>.6 >06 0, 6 1, .<7 ,<<.6 '4@ 5 71.6 "'.7 " %

" % ;, / ?7.1' >4' F'0'<- .1' (*(8 5.6 <6?.;7.416 <.' ?,411,<7 071.'<, / / 06 =4.'?'1 / '5. " 050-.6 'V'<7 '4' / , <6

[illegible]

@

5<<J?'1'5.'>1.;7, 1.'>. .?'17. / .<78'641' '-56'>4'
>1.;7, 1.'>4'>671 ;7% '64 1'8'?,41'5.41'E,1/ 'M
7 ,<'.7'5''<, / <'7 ,<'>.6 ,EE ; .168'5.6' / / .6'1.J .6'
=4.'?,41';.55.6'>.6' '451.6' ., / ?'J / .6'>.' J'1>.6'
<'7 , <'5 ; 6%%

$ .6' ,EE ; .16' .7' ;'-'5 .16'>.' ;.6' ;, / ?'J< .6'6.'
1,<7'7.<46'>'1, 1';:';4<'4<';: .-'5%W

7 8

-E*'! '> 3 '1 3'>.'
1 2

$ 178'5.7% .6' E,<;E ,<6'>.6' ; 7,V;<6' 6.1-'<7' .<'
=<'5 7.'>.' J'1>.6'<'7 ,<'5.6' ,<7'>.'1.7'05 1' ,1>1.'
.7'>.'<' <7.<1' ,0. 66'<;.''4@'5, 68' .,<E,1 / . / .<7'
=77@>>;Y56%

Y 8' .6' , 7,V.<6' .7'5.416' ; :.E68'1.=< 6' '4' <, / '>.'
5''5, 8'?.'6;' ?.1 / .771,<7'?'6'>.'Q4J.1'6'5.6'1.=4 6 M
7 ,<6' ,<7' &:' 71.'E'Q7.68' .7'6.1,<7'7.<46'>.'5.6' .@.;4'
7.1'?1?- 6, 1.1, .<7' '<6'>.5 0.1'7 ,<I' / ' 6'5.6' ; :.E6'
?,411,777' ;@ J.1' 5'' 1. / 6.' > 4<.' 1.=4 6 7 ,<' ?'1'
..1 78'?,41' '6641.1'5''1.6?,<6'0 5 7.'>.6'1.= &Q1'<76%

$ % '<6' 1 <7.1 .41'>.6' - 55.68'?,41'5.'1.5'05 6'
6. / .<7>.' , >1.'?405 ;8' 5.6'71,4?.6'>.'5 J<.'<'J '
1,<7'=4 .<' ;'6> <6<E5 '<;.'>.'5'' J'1>.'6,5>. .8'6 '
V'.<'8';5>.'5'' J'1>.<'7 ,<'5.% '<6'5.6' ,' / ?'J<.68'
5.6'J'1>.6'<'7 ,<'5.6'<'J 1; <7'=4.'?,41'6,47.<1' ,<'
?,41'64??5 .1'5'' J.<>'1 / .1 .'<'7 ,<'5.' .7'5.6'71,4M
?.6'>.5' J<.6%

$ 8' ,47.'>.5 051'5 ?<'?1 6.'?'1'5.6'J'1>.6'<'M
7 ,<'5.6' 641'5.6' 'EE' 1.6'>.' 7'78'>4'>.?'17. / .<78'
>4' > 671 ;78'>.' 5'' ;, / / 4<.8' / / .'>.' 5'' J'1>.'
<'7 ,<'5.8' 7 1.@;.?5 ,<' >.6' 'EE' 1.6' .@?1.66. / .<7'
-.<-,V..6' '4' ;,<6. 5'>.'> 6; ?5 <.'=4 ' 6.1'' &7'05'
; '?1.6'8 .67' 7 <.' '77. <7.' '' 5'' 5 0.17.'?405 =4.'8' .7'
<'>.5 7' ;,<71.5'' ;,<67 747 ,<8'>,<7'5''1.6?,<6'0 5 7.'
6.1'' .<;,414.'?'1' ;.4@'=4 ' '41,<7' ?1,-,=4.' '6'
6. / 05..8' .7'?'1' ;.4@'=4 '1'41,<7' ?1 6 >. .%

W % .6' ; 7,V.<6' <.'?,411,<7'<' ?1.<>1.'5.6' '7'
/ .68'<Q'6.'1'66. / 05.1' .<' .7'5'>.' J'1>.6'<'7 ,<'5.68'
6'<6' ,1>1.'>.6' ; :.E6' / >> '76' ,4' / / .> '768'<' ; .4@'
; ,1>,<<.1'6'<6' '4;4<.'1. =4 6 5 ,<'5.J'5.' ' 5''7.7;'
>.'5'' 71,4?.%

W % ,411,<7' ;.?.<>' :7'5.6' ; :.E68'6'<6'1.=4 6 M
7 ,<'?'17 ;45 .1.8'E' 1.'7,47.6Q.6'>6?,6 7 ,<6' .7'>,<'
<.1' 7,<68'5.6' ,1>1.6'1.5'7 E6' ,4' 6.1- ;.' ,1> <' 1.' .7'
Q,41<'5 .18' '4@' ?'71,4 55.6'>.' 6E51.7.' .7' '4@' .@.1 '
; ..6%

W % <' ;'6'>.'E5'J1'<7'>.07' ,4'>.' ;5' / .41'?4M
05 =4.8'7,47' H1'<;' 68'6'<6' .@;.?7 ,<8'>, 7'6.; ,416' ''
;.4@'=4 '6.<7' '77'=4 6'>'<6'5.416' ?.16,<<.6' ,4'>'<6'
5. / 6' ?1,?1 .7.6% .6' ;,4?'05.6' 6.1,<7' 6' 6 6' 6'<6'
=4 5'6, 5'0.6, <'>.'1.=4 6 7 ,<%

$ 55% '<6'5.' ;'6'>.'5'' 1.=4 6 7 ,<' ?.1 / '<.<7.8'
=4 ' '41'' 5 .4' '4@' .?,=4.6'> '5'1 / .' .7'>.' 71,405.8'
5.6' ; :.E6' >,<<.1,<7'5.6' ,1>1.6'<>;.66' 1.6' ?,41'=4.'
5.6' ; 7,V.<6' 6.'7 .<<.<7' ?1 76' '' 4<'6.1- ;.' .EE.;7 E%
.6'?'71,4 55.6'6.1,<7'1.<E,1.>.6' .E' / 457 ?5 >.6%

N$ "% '<6' 5.6' ;'6'>.'1.=4 6 7 ,<6' ?'17 ;45 .1;6'
'V'<7'?,41' ,0Q.7>.'1>?1 / .1'5.6' <;416 ,<6' .@71' ,E'
> <' 1.6'>4'01 J'<>'J.8' ,4'5.6' '771,4?. / .<76' 6.> '
7 .4@' ;,<71.'5'' 641.75'>.6'?.16,<<.6' .5'>.6'?1,?1 . '
7.6%5'' ?.1;.?7 ,<'>.6' ; ,<71 047 ,<6' ,4'5'' ; 1;45'7 ,<'
>.6'64 6 67'<.;68'5.6' ; :.E6' ?,411,<7' ,1>,<<.18'6; ,<'
5.6' ,; ;'6 ,<68' ,4'>.6'>.7' ;<. / .8<76'7 1.6'>.6' ; , / ?'M
J< .68' ,4'5.' / ,4-. / .<7' .7' ';7 ,<'>.6' ; , / ?'J< .6'
.<7 .1.6%

$ "% .6' J'1>.6'<'7 ,<'4@8'5.J'5. / .<7' 1.=4 68'
> 66 ?.1,<7'7,47.6'> / .<7.6' ?,?45' 1.6' .7' '571,4?6 '
<.<76' 6.> 7 .4@I' 56'6' 6 1,<5' .7'5 -1.1,<7' '5''Q46M
7 ;'5.6' ; ,4?'05.6'> .@;.6' .7' - ,5.<;.68' ?1 6' .<'E5' '
J1'<7>.5 7,='5'' ;5' / .41'?405 =4.I' 56'. / ?5, .1,<7'
5'' E,1;.' >.6' '1 / .6'>'<6%5.6' ;'6' ,@? / .6' ?'1'5''5, '
/ '17 '5.8'6Q' .55.' .67'?H, ; ' / >.I' >'<6'&5.4@' ,<' 56'<.'
?, 1;' .<7'?'6'6,47.< 1' '471. / .<7'5.'?,67.'>.'5''>.M

E.<6.'>4=4.5' 56'6 ,<E' ; :'1J.68' .7'5,16=4;'>.6' - ,M
5.<;.6' .7' - ,5.6'>.'E' 7' 6.1,<7' . / ?5,V..6' ;,<71.'.4@8'
;,<E, / > / .<7' '4@' > 6?,6 7 ,<6' >.' 5'' 5,' / '17 '5.8'
.7' '4@' '17 ;5.6' " " 8' " " 8' " " 558' " " 55' .7" "5''
>.'5''5, '641'5'' 1.=4 6 7 ,<' .&' ';7 ,<'>.'5''E,1;.'?4'
$05 =4.%

$ " % .6' ; ,1?6'>.' 5'' J'1>.'<'7 ,<'5.' '41,<78' .''
7,<6' 5 .4@8'5.'?'6'641'5'' J.<>' / .1 .'<'7 ,<'5.' .7'5'
71,4?.'>.'5 J<.8'5,16=4 56'6.'71,4- .1,<5' .<' ; ,<;418'
1.<;.'>.'6.1- ;.' ''-.;' .55.6% .' ; , / 1''<>. / .<78'>'/'
5.6E55.6,4 .6; .1. / ,< .6; - 5.6%'??'17 .<>1'' ,.5 '
>.6' ,EE ; .16'>.6'71, 6' ; ,1?6'=4 ' '41'' 5''64?.1 ,1 7.'>'
J1'>.8',48'>'<6' .' / .'J1'>.8'5''64?.1 ,1 7.'>.' 'J.'
'6'5,16=4 '6 'J 1''> ' .7 ,<' / 5 7' 1.8'5.6' ; ,1?6'1.4'
< 6' 6.1,<7' ; , / / '<>>6'?'15 ,E1 ; .1' 64?. 1 .41>.' I
71,4?.'>.'5 J<.' ,4'>.'5'' J.<>'1 / .1 .'<'7 ,<'5.%

W@<8' '<V '' %?, <7' > <-'6 ,<' >4' 7.11 7, 1'
E1'<;' 688'5.6' ; 7,V.<6' ';7 E6' .7'5.416' .<E'<76' .<' .7''
>.' J%'1>. <'7 ,<'5.' <.'?,411,<7' 5 1.' ; ,<71' <76' >'
/ '1; :.1' '' 5'' J4.11.'=4.' 641' 4<'>.;1.7' . / '<.'>'
; ,1?6'5. J 65'7 E8

$ "555% ,16=4.'5.6' J'1>.6'<'7 ,<'5.6' >J'5. / .<'
1.=4 6.6'6,17 1,<7>.'5.416' E,V.16' ?,41' '55.1' ; ,<71'
1.<<. / 5.@7.1 .418' . 5.6'6.1,<7'?'V>.6'?'1'5.'71>6, '
?405 ;8' .7'?'66.1,<7'6,46'5.6' ,1>1.6' >4'1, %

$ " % .6' J'1>.6'<'7 ,<'5.6' / '1; :'<7' .<'; ,1?6'<'
6.1,<7' ?, <7' <> - >4.55. / .<7' <; ,1?,1..6'>'<6' ;'
71,4?.6'>.'5 J<.8' / ' 6' .55.6' / '1; : .1,<7'7,4Q,4'
'-.;'5.41'>1'?.'48' 'V' 7' ''5.41'7.7.'5.6' ,EE ; .16'>'
5.41' ; :, @8'6 46'5.8; , / / '<>. / .<7' >4' ; :.E' 64?.'
1 .418

W " 8' 4;4<' ,E5 , .7Z' >.6' J'1>.6'<'7 ,<'5.6'<'
?,411'8'>'<6'5.'6.1- ;.' ,1> <' 1.8' E' 1.'> 671 04;'
>.6' ;'17,4; :.6' '4@' ; 7,V.<6' '1 / .68'6' ;.'< .67' .<' ;I'
>.'1.=4 6 7 ,<' ?1>; 6.8' '?. <.'>.'>. / .41.1'1.6?,7'
6'05.'>.6' .-><. / .<76%

W " % ,<6'5.6'> / '<.:.68'?.<>'<7'5.6' / , 6'>'
-1 c8' / ' 8'Q4 <8'6#?7. / 01.' .7' ,;7,01.8' ,4'?.<>''
5.6' / , 6'>.' '<<..'=4 '6.1,<7'>.7.1 / <.6'?'1'5.6';'
/ < 671'7 ,<6' ,4'>1.;7, 1.6'>.'>.?'17. / .<78'5.6' ;'
7,V.<6'6.'1'66. / 05.1,<7'?'1' ; , / / 4<.8' ,EZ' & '<6'5'
- 55.6'4 >.6646'>.'=4'71.' / 55.' / .68'?'1'6.;7 ,<'
?,41'5 1.' .@.1;.6'64 -'<7' <6714 ;7 ,<' '11.7..'' ;'
.EE.78' .7'=4 ' '' .7;'> 671 04..'>'<6'5.6'>.?'17. / .<7'

$F ,46'5.6'?1. / .16'> / '<.:.6'>.6' / / .6' / ,'
56'6.'1'66. / 05.1,<78'?'1'0'7' 55,<%'>'<6'5.' ; :.E 5 .'
>,' ; '<7,<8'?,4E'V' '??1.<>1.' .<6. / 05.'>.6' / ''
; 7.6' .7' - , 47 ,<6' / 5 7' 1.68' .7'7 1.1' '' 5'' ; 05.% '
'> / < 671'7 ,<6'>.'>.?'17. / .<7' >>7.1 / <.1,<7' '-&
; ;,<? / .'5''>. ?.<6.'>.' ; .6'1'66. / 05. / .<76' .7' .@.'
; ; .6% ' 6.1'>,<<.' ; : '=4.'E, 68' '4' / . 55.41'7 1.4'
4<' ?1 @' > : ,<<.41' >,?7' 5'' -'5.41' < .@;.>.1'' ?Q
9'5 -1.68' .7'>,?7'5.6'E,<>6'6.1,<7'E' 56'?'1' ; , / ?'J< G
?,41'0'<<..' .<7 .1.%

W " 55% .6' ; 7,V.<6' ';7 E6' =4 ' 6.'?1. 6.<7.1,<7'
4<.' '66. / 05. ' >.' ; , / / 4<.'8' '66. / 05.. ' ?1 / ' 1'
'66. / 0 ..' .5.;7,1'5.8' ,4'7,47.' '471.' '66. / 0 >.'?,5'
7 &Q4.8' '-.;' >;6' '1 / .6'>.' = .5=4.' .6?.;.'=4 .55 '
6, .<78'6.1,<7'-.17 6'>.'6.'1.5 1.1'?'1 >.-.16'5.'?1'
6 >.<7' .7' '471.6 ,EE ; .168' .7'7,47.'>&Z5 0.1'7 ,<'6.1''
<67'<7' <7.11, / ?4.'Q46=4 '' ;.'=4 56'6, .<7'6,17

W " 8' .6' E46 56' .7' / ,46=4.76'>.' 6.1- ;.' .7' '
%641?546'>.' '1 / . / .<7'>.5 -1.6'>;6' '16.<'4@'>.' c''
<'7 ,<8.7'<74<;' ?1,?1 .7.'?405 =4.85.'<, / 01.' .<'
6.1'' ; ,<67'7S' ?'1' ; : '= .' / 4< ; ?'5 7 I' .7'5.6' ; '
5,V.<6' =4 ' .< 6.1,<7'>.?,6 7' 1.6'6.1,<7'7.<46'>. '
E' 1.'5'' 1.?1.6.<7'7 ,<'7,<68'5.6'71, 6' / , 68' .<'0,<'
.7'78' .7'7,47.6'5.6'E, 6'=4.'5'' / 4E7 ; ?'5 7''5.'1.=4.1'
1'8' ,4'> .<'?'V.1'5'' -'5.418

$ " "% .6' >1'?.' @'>.' 0'7' 55,<6'>. ` .41.1,<7'
>>?,6>6' ; :.0'5.' ; , / / '<>'<7' .<' ; :.E%

W " "% .'6.1 / .<7'E.>&Q1'7 E'6.1'' 1.<, - .5>' ; :'= .'
'<< .8'>'<6'5.' ; .E 5 .4'>4'> 671 ;78'5.' Q4 5.78'Q,41'
'<< -.16' 1.'>.'5'' >.1'7 ,<' J><>1'5.%

$ " " % '<.'6.1'' E' 5' ' '-.< 1' '4;4<.'E.>.1'5 ,<
5'17 ;45 .1.I' .7'7,47' '#59' >.' ;.'J.:1.'7.67' '.;5'1 '4<
'77.<7'7' ' 5 7 '>7'1,V'' / .' .7'' 5''E.>.1'7 ,<' .,<
7 747 ,<<.55.'>.'7,46' 5.6' H1'<;' %Y

'!

$ 17% 5D1% .1>1.' .7' 5.' 1'<J' >.6' O'7' 5,<68' >.6
, <?'<J< .6' >.' ;: '=4.'O'7' 55,<Y'>.6' ?.5,7,<68' 6.;
,<6' .7' .6;,7 '>.6'>.' .: '=4.';, / ?'<J< .8' >7'<7%1.J57.6'
5'1' 5.'6,17' 7,46' 5.6' '<68' ' 6' =4 5' .67' > 7' .<' '17
5.' " '>.'5'' 6.;7 ,<' 8' ,1>1.%>4' 6.1- ;.'6.1'' >>
\1< <.'6<1' ;.77.' O'6.W7,47.6' 5.6' E, 6' =4 5' E' 5>1''
'66. / O5.1' .7' / .771.' .<' / '1;:.' >.6' O'7' 55,<6%>.'
'1>.'<'7 ,<'5.% %
$ % .6' O'7' 55, :>' 6.1,<7' E,4<>6' >G<<' < / O1.'
J'5' > .6;,4'>.6' 7 1..6'>.' ;:';4<.'>.6%;, / ?'<J< .6%
$ % .'7,41' ;, / / .<;.1''7,4Q,416' 1' 5'' B .' .6
'4'>.' >.'5'' 7.' ;, / ?'<J< .'>4' 8 F' O'7' 55,<7' .5'
/ 7 <4.1'' ?'1'5'' 1.'.6;,4'>.' >.'5'' C.' ;, / ?'<J< .8'
6=4 ''5''>.1< .1.' .6;,4'>.'>.'5''>.1< .1.';, / ?'<J< .'
4' >.1< .1' O'7' 55,<I' .7' 7,47.6' ;.6% .6;,4'>.6' ;, /
,6.1,<7' :4 7' ;, / ?'<J< .68' =4 ' E,1 / .1,<7' 4<' O'
5 55,<% % % %
$ -% 5E'47' 47 '6.;,<>'O'7' 55,<8' 5.'7,41>.'6.1-M
;.'6.1''1.?1 6' >'<6' 5.' / >7<.',1>7.8'' .6;,4'>.', 5'
.'?1.;.>.<7' 7,41' >4' 6.1- ;.'6.' .1'' ' 1 7.% 8'
$ % #:.=4.'O'7' 55,<' '1<6 'E,1 / .'6.1''> - 6.'>.'5''
> / .' / '< .1.'<U_ .'5.6' O'7' 55,<6' ?1 / 7 E.'>.6' J'1
.6'<'7 ,<'5.68' .7' 641' 5.' ? .>' >4' 7'4@' / ,V.<' =4'<7'
4' <, / O1.'>.6' :, / / .6' I' 'e< 6.1'' >.' / . / .'>.6'
Q <?'<J< .6%
$ % 'V'41'W?'1 / '7.6OE ; .16>.;:'=4.'J1'>.8'
<' 1'<J'>.'6.1- ;.'1.J5>' ?'1' 5.' 6,178' .7' '>Q4>':7'
.<.1'5' .<' 7 .<>1''<,7.%
$ % .6' ,E5 ; .16' >.';:'=4.'J1'>.' . ? 7' '??.
6 '4' ;, / / '<>. / .<7' >.6' ;, / ?'<J< .68' O'7' 55,<6'
7' >.7';:. / .<768' 64 -'<75.'1'<J'>,<7' 5' - .<7' > >71.'
'15.% % 8
$ 555% ' '% %' &% ,' '>>7';:. / .<78' ?'1';, / ?'
I< .6' .7' O'7' 55,<68' 5.' / E1<.'<, / O1.'> E5 ; .16' =4.'
'<6' ,1J'< 6'7 ,<' ?1 / 7 - .%
G\ "% .6' / > / .6' 1.J .6' 6.1,<7' 64 - .6' >'<6' #:''
4.';'<7,<8' ?,41' 5.6' ?.7 76' >.7';:. / .<76I' 5.6' .6'
,4'>.6' 6.1,<7' 7 1..6' '' 7O41' >.'1>5.'>.'#:'=4.';, /
'J< .'>4' O'7' 5 ,<8' >.'5'% / '< # .'=4' - .<7' > .71.'
@?5 =4..%
$ "% 5' .67' <>;.66' 1.'>.'1'66. / O5.1'>.4@' ,4' 71, 6'
, / ?'<J< .68' .55.6' 6.1,<7' E,1 / >.6' ?'1' > '471.6' .6'
,<'>.6' ;, / / '<>. .6' ?'1. 55. / .<7' '' 7,41'>.' 1 5.8'
<';, / / .<J'<7' '4'?, <7' ,U'5.'?1.;.>.<7' 7,41'>.'6.1M
- ;.'6.'6.1'' '11 7>%
W" % .6' ;, / ?'<J< .6' '<6 'E,1 / >.6' 6.1,<7' ;, /
/ '<>..6' ?'1' 5.' / > / .'<, / O1.'> ,EE ; .16' >.7.1 / <.'
?,41' ,1J'< 6'7 ,<' ?1 / 7 - .8' .7' ?1 6' ''7,41'>.' >5.G'
'4@' 7.1 / .6' >.' '17 ;5.' %
W" % <';'6'> <-'6 ,<' ,4' > '7'1 / .'640 7.'>'<6'
4<.';, / / 4<.8' 7.6' ; 7,V.<6' / '1;:.1,<7' ?'1';, / ?'M
J< .68' ?.5,7,<68' 6.;7 ,<6' ,4' .6;,4'>.68' 7.56=4 56'
,47' .7.' ?1 / 7 - . / .<7' E,1 / .68' 6,46' 5.6' ,1>1 [' >.'
5.416' ,'?7' <.6%8' 5 .47.<'<76_' 6,46 5 .47.<' 7 P' 6.1'
J.<768' ;'?,1'4@' ,4' '<; .<68' 641' 5'' ?1. / .1.'1.=4 6 M
7 ,<' =4 'E.41' 6.1'' E' 7.' ?'1' 5.';,1?6' / 4< ; ?'5%
% W" % .6' ?'71,4 55.68' 6, 5' ,1> <' 1.68' 6, 7' .@ '
71',1> <'51.68' 6.'E.1,<78' >'<6' 5.6' - 55.6' 8' 6.5,E5' 5.'
/ / .'7,41'>.'1>E.8' ?'1'>. / .6;,4'>.6' 4' ?'1' .6M
;,4'>.6' 7 1. .6' >.6' >'- .16.6' ;, / ?'<J< .68' .<' 1.?1.<'<7'
7,4Q,416' 5.'1'<J>.'6.1- ;.' '4' ?, <7' ,:'5.'
6 .67'11>7.%G' 8 %
O' * W '-'
QP.' ' ' ' 3 ' ' '1 G' '
& A
$ 17% 5.1I' #.4@' =4 6.1,<7>55 6' ?,4E' #, / / '<>.18'
>'<6' =4.5=4.' J1'>.' =4.' ;.'6, 5' 8' 6.' ., / ?,17.1,<7

;, / / .'>.6' ; 7,V.<6' =4 ' ;, / / '<>.<7' ''>.6' ; 7,V.<6%
$ % &EE ';4<' 4.' ..4@' =4 'E,<7' 5.'6.1- ;.'>.'5''J'1>.'
:'7 ,:'5.8' 1.<71'<78' ' 5<67'<7' ,:';:'=4.'6.1- ;.' .67'
E < 8' >'<6' 5'' ;5'66.'J. <.1'5.'>. '; 7,V.<68' <.'6.7'' 64 '
Q.7' '4@' / 6' >=' > 6; ?5 <.' =4.' ?.<>'<7' 5'' >41>.'>.'
6,<' ';7 - 7V% %
W 55% .';:.E' / .> '7' ,4' / / >> '78' =4.5' =4.'6, 7'
6,<' J1'>.8' < ,1>,<<.1''>.'1'66. / O5. / 7.<7' =4.'5,16 '
=4 5' '41'' 57>' 1.=4 6' J'5. / .<7Z' / ' 6' 5.6' ; 7,V.<6'
.'1. 4< 1,<7' '' ,1>1.' >.' 5.41' ;:.E8' 6'<6' '4;4<' 1.M
7'1>8' 6'4E' 5'' 1.6?,<6'O 5 7.'>.' ;.54 ; %
$ I' 5' '11 -' 7' < '< / , <6' =4.' =4.5=4.6 <6
>.6' ; 7,V.<6' :6;1 768' > 671 O >6' ?'1';, / ?'<J< .8' <.'
6.' ?1. 6.<7'66.<7' < ' 4+.' .4@ / / .68' <' 1' >.6' 6,5 '
>'76 ; 7,V.<6' >.' 5'' / > / .' ;, / ?'<J< .'8 4@' 1>1.6'
>,<<.6' ?'1' 5.6' ;:.E6' / 7.> '76' , ' / / O> '768' ;.4@ ; '
<.'?,4E1,<7' 46.1' > '4; <' / ,V.<' >.'E,1;.8' / ' 6' 6.4 '
5. / .<7' 5.6' >.E.1.1' '4@' ?E5 ; .16' / 4< ; ?'4V8' = 5 ' 5.6'
6, / .771,<7' :5'' 7'@.' >.'1. / ?5';. / .7'78G;, / / .' 5'
.67' > 7' ; >.6646%
W % '<7' =4.'5.6' ; 5OV.<6' 6.<7' .:' .7'7' >.'6.1- ;.8'
76' 6, 7' 7.7 / 6> ,O. 1' '4@' ,1>1.6' >.'5.416' ;:.E6%
$ % #. @=4 ' / ' =4.1' .<78' , 7' :' H;O. 66':;;8
6, 7' :4' 1.6?.;7' >:' ' 5'' ?.16,17<;'>.6' ;:.E68' 6, 7' '4@'
1 J5.6' >4' 6.1- ;.8' .1,<7' ?4< 6' >.6' ?. <.6' >.' > 6; '
?5 <.% % %
$ % .6' ?. <.6' >. > 6; ?5 <.'6.1,<7' 5.6' 1'7, .6
?,41' 5.6' ,E5 ; .168' 6,46 ,EE ; .16' .7' 6,5>'768' 6'<6' '< '
;4<.'> 67 <;7 ,<8' 8 $ $
$ % ''6 / ?5.'>.6,O. 66'7 ;.'6.1'' ? < .'>.6' O1 '
$ '=4'<.'?,411,<7' .@#.>.1'>.4@' Q,416%
W "% ' .55.' .67' ';;, / ?'<J< .'> 4 ' / '<=4.'>.'
1.6?.;7' 94' > 4<.' <Q41.' .<-.16' 5.6' ,E5 ; .16' ,4' 6,46G'
,EE ; .168' 5'' ?. <.'6.1''>.6 '11.76' ?.<>'<7' 71, 6' Q,4168'
,4' 5'' ?<6,<' ?.<>'<7' - <J7 =4'51.' :.41.6%
-'$ "% ' <Q41.' .67' J1' - .8' 5.';, 5?'O5;' 6.1'' ?4< '
> .:4 7Q,416> '11.7,4' >.=4'71.'Q,416>.' ?1 6,<I
$ "5% #.54 ' =4'71,4O5.1'' 5.'6.1- ;.'?'1' >.6' ;,4 '
6. 56' > <64O,14 <'7 ,<' 6.1'' .,<>' / <.' :' 6.?7' Q,416'
>.'?1 6,<%
$ " % #.4@' =4 ' <.'6.'6,4 / .771,<7' ?'6' '5'' ?. <.'
?1,<,<; .'6.1,<7' <,7 6' 641' 7.' 7'O5.'4' >.6' J'1>.6'
<'7 ,<'5.6' G.7' ?'1' 64 7.'646?.<>46' >.' .@.1; ;.'>.6'
>1, 76' >.' ; 7,V.<' ';7 E8' Q46=4 '' ;.' =4 56' - .<<.<7' .@G'
?1 / E.1' 5.41' 1.?.<7 1' .7' 64O 1' 5'' ?. <.' / ?'66.'Q' .7'
<.'< / , <6' ;.4@' =4 ' 6.1,<7' ,4 / 6' '' 5 '7'@.'6.1,<7'
7.<46' >.'5'' ?'V.1%
$ "555% 5' 6.1'' ;1. >8' ?,41';:'=4.' O' > 55,<8' 4<'
;,<6. 5' Q>.'> 6; ?5 <.8' ;=4.5' 6.1'';, / ?,6.'>4' ;, / G'
/ '<>'<7' .<' ;:.E8' >.6' >.4@' ;'? 7' <.6' 5.6' ?546' J.68'
>4' ?546' J.'>.6' 5 .47.<'<76I' >.6' >.4@' ?546' J>6' >.6'
6,46 .47.<'<768' >4' ?546' J>' >.6' 6.1J.<768' >.6' >.4@'
?546')J>6' >.6' ;'?,1'4@' .7' >.6' =4'71.' E46 5 .16' 5. '
?546' J.6' >'<6' ;:';4<.'>.6' ;, / ?'<J< .68' 5.6=4.55;68'
?'1' 5,47' >.' =4'71.8' 5. 'E,41< 1,<7' '57. / '7 - . / .<7'
>.'6 @' / , 6' .<' 6 @' / , 6% #.';,<6. 5' 6 '66. / O5.1'' ?'1'
,1>1.'>4' ;, / / '<>'<7' .<' ;:.E8' 7,47.6' 5.6' E, 6' =4 5'
6.1''<.;.66' 1.% .';, / / '<>'<7' 5.' ?1>6 >.1'%
$ " % #.';,<6. 5' .67' 5'' 6.45.' '66. / O5..' &% ,'5'
=4.55.' 5.6' J'1>.6' <'7 ,<'5.6' ?,411,<7' ;@.1;;18' .<'
;.77.'=4'5 7.8' 5.'>1, 7' >.'>.5 O. .18' .7' .55.6' <.'?,41M
1,<7' 3' >' O#1.1' =4.' 641' 5.6' ,OQ.76' >.'5'' > 6; ?5 <.'
<7;1 . 1.% % %
W" % #.4@' =4 ';1, 1,<7' '-, 1' ''6.'?5' <>1.'> 4<.'
?<< 7 ,4' >.' > 6; ?5 <.' ?,411,<7I' '?1.6' '-, 1' ,O# 8'
?,17.1' 5.41' ?5' <7.' '' ;.';,<6. 58' =4 ' <.'?,<11'8' .<'
'4;4<';'68' ?1,<,<;.1';.<71.' ;.4@' =4 ' '41,<7' 7,N
'4.<<.6' ?. <.6' ?546' E,17.6' =4.';.55.6' =4 ' 6,<7 7'
O 5.6' >'<6' 5'' ?1 ' .<7.'6.;7 ,<% 5' ?,411''>.7.1 / <;'
5'' ?. <.' '' <E5 J.1' '' 471' 64?.1 .41' =4 '.<' '41'' / '5'
' ?1,?,6 <E5 J.'4<.' ''6,<' <E.1 .4< ' $
' W" % ,47>#5 78' 7'<7< 5 7' 1.= .; - 58' =4 < ;'
1 7.1' 7' >.' ?546' J1'<>.6' ?. <.68<.'6.1'' ?546' 1. ?1 <'
?'1' 5.6' 5, 6' >.'5'' > 6; ?5 <.8' / ' 6' 1.E571.1'' 6,46' 5'' ;

J <.1'5.'>.6' ; 7,V.<68';7'6.1''>>E.1>''4'Q4J.'>.'?' @8'
6, 7'?,41'X71.'?4< '4E' '??.58'>.6'?. <.6>.'?,5 ;.8'
6, 5'?,41' .71.'1.<-,V.' '4'71 04<'5' ;1 / <.58'6 5'V' "
5 .4%

W" % ,16= 7'V' '41''1'66. / 056K .<7>.'J'1>.6'
<'7 ,<'5.6'?,41' / '1; : .1' : ,16'>.'5.416 > 671 ;76'1.6 '
?.;7 E68' .55.6'6.1,<7'6,4 / 6.6''4@'5, 6>.;1>7..6'?,41'
'5. / 5 7' 1.%G

, !'&*

W' 17% ;1% .6' ; : .E6' .7' ,5 ; .1.'>.'5. J ,<8' ; , / '
< '<>'<76'>.' 0'7' 5,<8' ; '? 7' <.6' .7' ,55 ; .16'>.6'
; , / ?'J< .68'6.1,<7'1.6?,<6'05.6' " 5''<'7 ,<'>.' ' '
'046'=4 56'?,41 ,<7'E' 1.'>.'E''E,1;.'?405 =4.8' .7'>.'
7,45.' - ,5 ,4'>.6' '17 ;5.6'>4'?1.6.<7'>.;1.78'=4 56'
'41,<7' ; , / / 6.8''47,16>.' ,4'7,5.\; .%
' % .6''>/ < 671'7 ,<6' .7'> 1.;7, 1.6'>.'>>?'17. '
/ .<7' - . 55.1,<78' ?'1' .4@ / . / .6' .7' ?'1'5.6' '> / M
< 671'7 ,<6' .7' > 1.;7, 1.6'>.'> 671 ;78'641' .@.;47 ,<'
>4'?1.6.<7'>.;1.78' .7'6.1,<7'7.<468'6,46'5.41'1. ,< '
6'0> 7.8'>.'>,<<.1' ; ,<<' 66'< .''4' ; ,1?6'5. J 65'7 E'
>.' 7,46' 5.6' E' 76'>.' ; ,<71' - .<7 ,<' =4 ' 6.1' .<7'>.'
<'741.' %' ; ,< ?1, / .771.' 5'' 6>1.7.' ,4'5'' 71'<=4 55 7.'
>.6' ; 7,V.<68'6'<6' ?1.Q4> ; .'>.' . / ?5, ' ?1, - 6, 1.'
>.'5''E,1; .'?405 =4.8'>'<6'7,46'5.6' ;'6' , 5' ; .57.' / . '
641.'6.1' 7'<>;.66' 1.''4'1. 7'0 66. <.<7'>.' ,1>1.%Y

"

& ' ' ' ' (' ' $ (,' /7W(' 9.+0 '4+.' % G%
(. +$*' ' +.$'/'3)(U' + ,(./. (' +$* +35 ('/'0$'!+!0$"
3((' +$*,! $*$5 (/'*K' / ((,'36(U', " (" +.36+*-"
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! $ 4.($(.'3+6$(.' - (' 3(,' 0.+9(' ,$ ('+8+*,'4 '+ '4 1
) $3'/ (''(3 *-'5 $' 4+.+,'+ .+''+*" - ,(' (' ($ (' ' .,7 3('
5 $' ('#+$,'-%+*,+*,'4 "4.('* $(./ 3 (','5 ('3($!3$'$*-$5 ('
(''5 +$ ("-(",(..(''5 (' *'- $,'(4 8(.'+ '4$'(7 '(''(*!'
- $,'/ '5'4($*, .('+'#.3'5 (/' ' ., ' ('4.$2' -(' +' , $' (5 ('
3 ,(' *' ' - (' ,(..(' - ' -('4$'(' ' !
(,(.' ' (U4 $5 (' +$*'$' ; &' ('(3 *-' 3+6$(.'3,+*,'4 "
0 $*(; ' ("3$.3 *',+*3("*3' ('4(. (,,+*,'4+f' - ('#+$.('
,("+0+*3("-("#.+$"-$'4(*-$(2' -("9.+0 .("- ' ,. $'$(('
3+6$(.'5 $' - $,',.+$ (.' - ' ' ' - (' +.' - ('#+$.('
(". ,('/ ("3 **(" (,' + ,.(") (,"+0(3' +' ,(..(''((('
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4 ',(7+ ''$, ,'$," .(3(0. *,'#.+*3' - (' 4 .'3('(3 *-' 3+6$(./'
'(',' 3 4.$" +.,' - (') - ,$.'6%4(' - (' #.+$" (" +* #+31
, .(' ' :
("4(.' **('5 $' , *,'4+' ' '3.$,'4+$5. *,'36+5 ('3+!'
6$(. $0'E' ' ' %
('4(,$,',.+$,('4 .'3 *' . $.('+0(3')(+ 3 *4' - (3 * $('
(''*5+*' #+3, .(" (,' (" +$' *" - (' 3+ 4+9*(/ F' $0
'4(,$,' - (('(') $'/'4 .'#+$.('3 *',. $.(' (" ,$ " - '
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< ' ' ,+ ,' (*0 8(.' 4+.'36+5 ('3+6$(.'G' " - (' 4 "
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8'3 4.$" * ') $,('4 .' (" ('*#(. (.
($'5 $' - ('$.(. *,' *' '4 '$3 ." - (' 3('' +.,$3 ('/ '('*,'
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M ' $*,(.(+ 2/4. #(''(.'-%+.36$,(3, .(. .+ (/ .+*-('
(' (. (/ #+) .9' +$*,!@ * .(/ *K' BBPI ']

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)4 - .%>.6'8 ' ' 'F
- ' '5 ' , + 4Q% ' 8 ' '
6' - .6'>4' ' !

- ' % & . 4E% 5'' UG' 1.?1>67<7'7 ,<' > E 4 '
'?1>; .>>.'>.' ')@ ' &
. / ' <'5'')G'1.?1.6.<7'7 ,<'>.' (2 ' ,4' ' < A'

<> K ' 1 ' ' 14.'>.' ; : .5 .4% +' 4Q% 5'' 1.?1 6.'
>.6' F 2 '& ' ; , / #> .' .<' U' ';7.68' 64 - .' >.6'
8 ' / > . .< ' ' ;7.6%
#1;1.>8' G ' ' . ' 71'J > .' ' % # :>< .1%
K 7 ' K ' '1 ' ; >.-'<7' >.' ,<6 .41%
+ 4Q% '@ ' ' ' F 1 '< ' ,?>1'E1'' '
J' 68'
.EE5' <' ,>, 6 '8'??>1''E1'<J' 6%' G %
<'77.<>'<7'5'' 1.?1.6.<7'7 ,<'>.' '8 LL '68
,? 1'' 7'5 .<% %
- ' '4' '5' 6 '
' ,V'5% +' 4Q% 5'' C 1.?1 ` .<7'5 ,<') #
3' ,?>1''<,4-.'4'.4' 8';7.6%
3 ' %'4 '5' 6 ,V'5% + 4Q% G ' 5'
V' .<7.<>1'' 5.' ,6<.8' % ,6.-55.' .7' 8' .E.-1.%
- ' ' 3 ' ' 3 ' &'
4Q% , 1 ' 9 8' ; , / > .' '-.;'4<' > - .17 66. / .<7'E'
'8 ' I' 5.6'6'47.416% <' ; , / / .<; ,1''
?'1' ')@ (')@ ' ' - ' ?'<5, / / .' U'
J1'<>.6' / '; : <.6%
. 5) " ' '4'0,45.-'1>'>4' . / ?5.% + 4Q% 5'' p'
1.?1> <5'77,<'>4' ' ' . ' ' ? .;.' U 6?.;7';5.8'
64 - .'>4' F & ' '8 ' ' - .'>.6'> - .15 66. / .<568'
?1>;9>..6'>.' ' ' ,?>1'' ;0 4 =4.%
- ' H J 56' ; ,4 34 ' ' 3 % + 4P% G, #
' ' ,4' ' '8 ' ' '64 - '>4'
'$ ' ,?.1'%
- d('14.' ' <7 :E'17 <% + 4Q% ' A'
& ' '$ 1 ' ' '<3 5''), & ' 3 '
.7' '% ' : ' ' '
<'77.<>'<7'5'' 1.?1>6.<7'7 ,<'>.' '$ ' & A'

- ' ' ' ') ' '+' 4Q% 5'' CG' 1.?1E '
6.<7'7 ,<'> E>.E.' ' @ V ' ; , / >> .' / 5..'> '1 .75.68'
?1.;>>>.'>.' ' ; , / > .' .<' ' ';7.6%
'1> 8' 5'' F' 1.?1>6.<7'5 ,4'>.' ')@ ' ' '
,? 1'%
8 ' ' 'dl 1. / 1.65,J.68' ,1; : .671.' .7'J'5.1 .8
' 5 -%I' 6. ; ,<>.6'5,J.6' .7' 5,J.6' >.' E' ;.'>.6' 71, 6 / .6I
C' 5 -%)'6%I' 71, 6 EN / .''5,J.68' '5 -% '6%I' ?'1=4.78' %U6%I'
=4'71 / .68' '5 -% + '>1.66.18'?,41'5''5, ;'7 ,<'>.6'5,J.68
U' % K1 .58'14.'>.' ,4-, 68'<p' %
+ ' ' 5 '14.>4' ' 58<p' *% + 5.65,4 '
- .17'7,<6'5.6Q,4168'046=4 U'7. E7' : .41.'=4 5'?5' 7'U' %5.6'
'0,4<>6'> V' 1.67.1%

' ' ' ' B> K K

$2'4.($(." ,"BHTB' ' (" +8(."' *,'F' +' (,,.(' !'

G ' ' & ' & ' '9 ' ' '

/67.1>' / % % % % U' 'f U f #'>@% % % % ')' % *'6
' / 0,41J% % % C) ' f U ' ! >4;6' % % % % % % %
,<>1.6% % % % ' CC %f U f - ,4 / .' % % % % ' C ' c
'>1 >%% % % % % % % ' *' % V,<8' , %%%%%%%%%%%%%% f ?

' 'WI'

;7 ,<6'>.6' <>.6'>.'C ' 5 -% % % % % % % ' % ?MW_ '*(' '
/ ?14<7'> , ;7,01.>.' '5 -% %%%%%%%%%%%%%%%%%%%%%%%% I'¯ U9
+'>.'>>;% ()C8'=4 578' >.' E <' % % C' c8' 'Q8' 8 f8' ' f
' C ' ?
+'>.' C ' / 55 ,<68'>>;% ()U' % % % % % ' (' f8') 8(' 'c' 0
+' '<60455' % % % % %%%%%%%%%%%%%%%% % E 0 0
+' ,17 .6' .< - 'J .18%%%%%%%%%%%%%%U ' f 0
;7% <,4-8'>.6' <> 6%' C C8 8 C8 8 C8 8' U8
9'8 (8U9
#' 66.>.6;'))
. / ; ' 66. %%%%%%%%%%%%%%%%% %%' * 8 8' UU
34 77%'>.6' .'4@ >.' '1 6' % % % % ' 9 8' 8' 8' U8' 8'
+\>.) ' / 55 ,<68>' , ' ()*% %%%%%%%%%%%%%%%%%%%%% : 1
#' 66.'?471 ,7 =4.' %%%%%%%%%%%%%%%%%%%%%%%%%%% ' ' (
6641% ; .<71.' .6' <J%% I' % % 8 U8 'f\ U' :' 8' 9
+'U' - . % % % 8 %%%%%%%%%%%%%%%%%%%%%%%%% 9(8' (98' ((8(9

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641ʻ .ʻ1'??17ʻ>. %ʻ ,EE >'58ʻ5.ʻ>.;1.7ʻ 64 -'<7ʻ .67ʻ1.<>4N

ʻ &ʻ 66./0..ʻ<'7 ,<'5;8ʻ'?106ʻ'-, 1ʻ.<7.'>4ʻ5.ʻ1'??,17ʻ >.ʻ6.6ʻ;, / 7.6>.ʻQ4> ;'741.ʻ.7ʻ;.<71'5ʻ>.5 =4 >'7 ,<8ʻ=4ʻ 54ʻ 4ʻ71.<>4ʻ;, /?7.% >4ʻ1>64 '7>.6ʻ,?.1'7 ,<6ʻ>4ʻ ;, / ʻ 1, 66'1.ʻ>4ʻ1, 8ʻ>E1.;7.41ʻ J.<.1'5ʻ>.6ʻ5 =4 >'7 ,<68ʻ>. ʻ ;1. ;ʻ=4.8ʻ;,<E,1/ <.<7ʻ'4>7ʻ1 6457'78ʻ5ʻ6.1'"?'V 8ʻ?'1ʻ 5ʻ" ;' 6.ʻ>.ʻ .@71',1><' 1.8ʻ5" 6, / /.ʻ>.ʻ *ʻ / 55 ,<6ʻ C 8 *ʻ5 -1.65ʻ 6,468ʻ ʻ .EE.7>.ʻ=4, ʻ5.6ʻ1.;,<<' 66'<ʻ 8ʻ;.6ʻ>.E<7 -.6ʻ>.ʻ5 =4 >'7 ,<6.1,<7 .@?.> ..6ʻ'4@,E5 ; .16ʻ 5 =4 >.68ʻ.<6'7 6E4 6'<7ʻ?'1.4@ʻ'4@E,14'5 7.6ʻ?1.6;1 7.6?'1ʻ 5.6ʻ?1.;.>.<76ʻ> ;1.76%6

+ʻW 66./05..ʻ<'5 ,<'5.8ʻ'?1 6ʻ'-, 1ʻ.<7.<>4ʻ5.ʻ1'?M ?,17ʻ>.ʻ6.6ʻ;, / 7.6ʻ;.<71'S>.ʻ5 =4 >'7 ,< .7>.ʻQ4> ;'741.8ʻ >.;197.ʻ=4.ʻ5.ʻ ;, / / 66'1.ʻ>4ʻ1, 8ʻ>1.;7.41ʻJ.<.1'5ʻ>.ʻ5" 5 =4 >'7 ,<8ʻ e67ʻ'47,1 6.ʻ ʻ>. -1.1ʻ'4ʻ6 .841ʻ .;,45.45@8ʻ 4.6,1 .1ʻ>.ʻ5" ;' 66.ʻ>.ʻ1.@71',1> ,' 1.8ʻ.7 .= ;.77.ʻ =4'M 57.ʻ;.'1J.ʻ>.6ʻ>,<6ʻ ?'71 ,7 =4.68ʻ7,47.6ʻ1.;,<<' 66'<;.6ʻ >.ʻ;.';4<ʻ>.6ʻ ,EE ;.6ʻ5 =4 >.6ʻ?'1ʻ5.ʻ>>;1.7ʻ>.ʻ;.ʻQ,418ʻ.7ʻ >,<<..6ʻ6'<6ʻ1.671 ;7 ,<8ʻ,4ʻ6.45./.<7ʻ>.ʻ;,4?41.6ʻ ʻ1.M J'1>ʻ>.ʻ;.4@ʻ=4ʻ<'41,<7ʻ.7.ʻ>,< 6ʻ=4 .<ʻ?'17 .8ʻ641ʻ5" 6 /?5.ʻ>.> '1J.ʻ>4ʻ6 .41ʻ .;,47.45@8ʻ ʻ5" ;.'1J.ʻ?'1ʻ54ʻ >.ʻ1'??,17.1ʻ4<ʻ;.15 E ;'7>.<,< ,??,6 7 ,<ʻ641;.'=4.ʻ7 1ʻ 745'1.8ʻ>'<6ʻ5.ʻ;'6ʻ, ʻ5.ʻ7 745'1.ʻ<.ʻ1'??,17.1ʻ 7ʻ?'6ʻ54 ʻ / . / .ʻ;.ʻ;.17 E ;'78ʻ'4=4.5ʻ;'6ʻ5.ʻ;,<6.1-'7.,1ʻ>.6ʻ:V?, ʻ 70.=4.6ʻ6.1'" 7.<4ʻ>.ʻ>. -1.18ʻ6'<6ʻE1'%68ʻ'<6 .41ʻ .;,4M 7.45@8ʻ '4>7ʻ<, / 8ʻ7,<6ʻ;.175 ;'56ʻ>.<,< ,Q?,] 7 ,<ʻ,4ʻ .6 1ʻ 7ʻ> ,??,6 5 ,<ʻ1.=4 6ʻ.7ʻ<.;.66ʻ1.6%

7ʻ .6ʻ5 745'1.6ʻ=4ʻ'41,<7ʻE' 7ʻ1.6.1-..@?1.66.>.6ʻE1' 6ʻ >.ʻ ?1,- 6 ,<6ʻ .7ʻ'471.6ʻ ';;.66, 1.6ʻ.3ʻ1.;.-1,<7ʻ5.ʻ1./ ʻ 0,416./.<7% Y

+ \ 66./05..ʻ<'5 ,<'5.8ʻ'?106ʻ'-, 1ʻ.<7.<>4ʻ5.ʻ1'?ʻ ʻ?,17ʻ>.6ʻ;, / 7.6ʻ;.<71'5ʻ>.ʻ5 =4 >'7 ,< .7ʻ>.ʻQ4> ;'741.8ʻ =4ʻ54ʻ ,<7ʻ1.<>4ʻ;, /?7.ʻ>.6ʻ1.;5'/'7 ,<6ʻE'7.6ʻ?'1ʻ5.ʻ 6 .41ʻ .6?.11 .168ʻ1.5'7 -. / .<7ʻ ʻ5"5 =4 >'7 ,<ʻ>.ʻ ,EE ;.ʻ >.ʻ5 .47.<'<7ʻ J.<.1'5ʻ'4ʻ 0' 55 'J.ʻ> 10.;8ʻ>,<7ʻ 5ʻ 5ʻ7ʻ ?,41-48ʻ>.;105.ʻ=4 5ʻ6.1" 5 =4 > 641ʻ5.ʻ?ʻ.>ʻ>.ʻ6,< .-'M 54'7 ,<8ʻ ' 7.ʻ?'1ʻ';7;ʻ>4ʻC)ʻQ'<- .1ʻ ZC8ʻ6'<6ʻ'-, 1.J'1>ʻ ʻ5" 1.;7 E ;'7 ,<ʻ>.-'54'7 ,<ʻ?'1ʻ54ʻE' 7.ʻ5.ʻCU / ʻʻ (((8ʻ 6,46ʻ5">.>4;7 ,<ʻ>.ʻC 8 ʻ5 -% =4 5ʻ"1.?4.6.< ((98ʻ5,16ʻ >.5" ;1.'7 ,<ʻ>4ʻ 0' 55 'J.ʻ>.K.1<'Vʻ .4ʻ#,<6.=4.<;.8ʻ =4 5ʻ1.;.-1"5" 6, / /.ʻ>.ʻUU8 ʻ5 -%8ʻ1.67'<7ʻ>.ʻ 6,< .-'M 54'7 ,<8ʻ.7ʻ5.6ʻ';;.66, 1.68ʻ;,4E,1/. / .,7ʻ'4@ʻ ?1.;.>.<76ʻ >.;1.76% \

+ʻ ʻ 66./05..ʻ<'5 ,<'5.8ʻ'?1 6ʻ'-, 1ʻ.<7.<>4ʻ5.ʻ1'?M ?,17ʻ>.6ʻ;, / 7.6ʻ>.ʻQ4> ;'741.ʻ.7ʻ;.<71'5ʻ>.ʻ5 =4 >'7 ,<8ʻ =4ʻ54ʻ,<7ʻ1.<>4ʻ;, /?7.ʻ>.5"? 5 7ʻ,<>.66 .416ʻ#'0.<'-.8ʻ .,, 1.8ʻ .11.78ʻ ,4-.10 .8ʻ ,4J4.68ʻ ;=4'178ʻ:.1 7 .16ʻ '1;'>.8.7ʻ .5 .5,<7.<' 8ʻ7.<>'<7ʻ ʻ;.=4;5.6,EE ;.6>.ʻ 6.;1.7'1.6ʻ>4ʻ1, 8ʻ'4> ;<; .16ʻ.7ʻ;,,71 5.416ʻ.<5" ;.'<ʻ ;.55.1 .ʻ ?1#6ʻ5.ʻ ?'15. / .<7ʻ>.ʻK,1>.'4@8ʻ>,<7ʻ 56ʻ .ʻ<7ʻ ?,41-<68ʻ6, .<7ʻ5 =4 >.6ʻ641ʻ5.ʻ?ʻ.>ʻ>.ʻ5.416ʻ;.<71'76ʻ> ';ʻ =4 6 7 ,<8ʻ>.;1 7.ʻ=4.ʻ5"5 =4 >'7 ,<ʻ=4ʻ" .7.ʻE' 7.ʻ>.ʻ5.416ʻ ,EE ;.68ʻ?'1ʻ5.ʻ>.;1.7ʻ>.ʻ;.ʻQ,418ʻ641ʻ5.ʻ? .>ʻ>.ʻ5"E<'<;.8ʻ ;,<E,1/./ .<7ʻ ʻ '17 ;5.ʻ ʻ>4ʻ>.;1.7>7ʻC 6.?7./01.8ʻ'41" 6,< .5E.78ʻ.7ʻ=4.ʻ641ʻ5ʻ>7.ʻ?.7 7 ,< 5ʻ< Vʻ"?'6ʻ5 .4ʻ ʻ>. ʻ 0.1.18W

+W 6G/0 ..ʻ<'5 ,<'5.8ʻ'?1 6ʻ'-, 1ʻ.<7.<>4ʻ5.ʻ1'?M ?,17ʻ>.6ʻ;, / 7.6ʻ>.ʻQ4> ;'741.ʻ .7ʻ;.<71'5ʻ>.ʻ5 =4 >'7 ,<8ʻ > ;1 5ʻ=4.ʻ ,55 ;.ʻ>.ʻ?1, ;41.41'4ʻ; >.-'<7ʻ?'15. / .<7ʻ>.ʻ '1 68ʻ>,<7ʻ5.ʻ6 .41ʻ 4;'<7.ʻ.7'7ʻ?,41-48ʻ6.1"5 =4 > ʻ641ʻ 5.ʻ?.>ʻ>.ʻ 8 ʻ5 -%8ʻ?1 @ʻ?,17.ʻ>'<6ʻ5.ʻ;,<71'7ʻ>.ʻ;=4 ʻ 6 ,<>.ʻ6,< ,EE ;.8ʻ./>'7.ʻ>4ʻ9ʻ'-1 5ʻ ((Iʻ .76?1ʻ5">.ʻ / '<>.ʻ?'1ʻ54ʻE' 7.8ʻ> 'Q,47.1ʻ'4ʻ?1 @ʻ>.6,<;,<71'7ʻ>';ʻ =4 6 7 ,<5"6, / /.ʻ>.ʻ C 8 ʻ5 -%8ʻ?1 <; ?'5ʻ>4ʻ;,<71'7ʻ>.ʻ ;,<67 747 ,<ʻ>4ʻ /E /.ʻQ,418ʻ>.;1.5.ʻ=4 5ʻ< Vʻ"5 .4ʻ ʻ>. ʻ 0ʻ#1.18ʻY

+$$ʻ 66./05..ʻ<'7 ,<'5.8ʻ'?1E6ʻ'-, 1ʻ.<7.<>4ʻ6.6ʻ;, ʻ / 7.6ʻ>.ʻQ4> ;'741.ʻ .7ʻ;.<71'5ʻ>.ʻ5 =4 >'7 ,<8ʻ=4ʻ 54ʻ ,<7ʻ 1.<>4ʻ;, /?7.ʻ>.ʻ5"1.;5'/'7 ,<ʻ>4ʻ6 .41ʻK'55,78ʻ; >.-'<7ʻ ?1, ;41.41ʻ'4ʻ#0 7.5.7ʻ>.ʻ '1 68ʻ7.<>'<7ʻ ʻ,07.<1ʻ4<.ʻ <ʻ >. / <7>ʻ 641ʻ5"6, / /.ʻ>.ʻ 89 ʻ5 -1.68ʻ?1 <; ?'5ʻ?,17.

>'<65.ʻ#,<71'7ʻ>.ʻ;,<67 747 ,<ʻ?'1ʻ54ʻ;,<6.<7ʻ ʻ6,< -.<ʻ >.<18ʻ5.ʻ /#/.ʻQ,41ʻ>4ʻ;,<71'7ʻ> ';=4 6 7 ,<ʻ>.ʻ6.< ,EE ;.8ʻ 8ʻ > ;1 7.ʻ=4 5ʻ< Vʻ"?'6ʻ5 .4ʻ ʻ>. 0#1.1ʻ641ʻ5'>5.ʻ1#>' / ' ʻ 5 ,<%Y 8 ʻ

ʻ ' *ʻ ʻ ! ʻ ' -.0ʻ> ` 1>7.ʻ6, @'757.ʻ'17 ;5.6ʻ 1.5'7 -. / .<7ʻ' 1>.;0'1J.6ʻ.7ʻ'4@ʻ/ ,>. 1'7 ,6ʻ>'<6ʻ 5.6ʻ;,<71 047 ,<6ʻ?405 =4.6% ,16=4.ʻ5.ʻ;, / 7ʻ>.ʻ ;,<71 047 ,<6ʻ -,46ʻ"E' 5ʻ5"1.5<.ʻ>.ʻ..ʻ>>.1.78ʻ4<ʻ 6.45ʻ>.ʻ ;.6ʻ '17 ;5.6ʻ" .7.ʻ'Q,41<.8ʻ?'1;.ʻ=4 ,<'" -,454ʻ=4.ʻ5.6ʻ?1,?1 7' 1.6ʻE,1' <6ʻ ?466.<7ʻ6.ʻE' 1.ʻ 1.?1. 6.<7.1ʻ>'<6ʻ5.6ʻ'66./05 .6ʻ>.6ʻ;, / / 4<.>8ʻ5,16ʻ =4 5ʻ6 'J 1"ʻ>.ʻ > 6;466 ,<6ʻ1.5'7 -.6ʻ"1 / ?>78ʻ ʻ 1.-'54'7 ,<ʻ>;6ʻ?1,?1 .7.68ʻ.7;% ?1.6ʻ'-, 1ʻ>.ʻ<,4M -.'4ʻ .@' / <.ʻ;.7ʻ'17 ;5.8ʻ;,<;411./<Q.<7ʻ'-.;ʻ5.ʻ ;, / 7.ʻ>.ʻ;,<67 747 ,<8ʻ<,46ʻ'-,<6ʻ1. / '1=4ʻ=4.ʻ ;.77.ʻ> E7 ;457.ʻ.7'7ʻ1. 6,54.ʻ?'1ʻ4<ʻ'17 ;5.ʻ%>4ʻ>.M ;1.7ʻ>.ʻ ,1J'<6'7 ,<ʻ>.6ʻ / 4< ; ?'5 7 68ʻ'17 ;5.ʻ=4ʻ '751 04.ʻ;.6ʻ ,?.1'7 ,<68%<,<ʻ?'6ʻ '4@ʻ;, <' 4<;68ʻ / ' 6ʻ'4@ʻ;,<6. 56ʻJ.< 1'4@ʻ>.6ʻ;, / / 4<.6% '?1.6ʻ ..7ʻ'17 ;5.8ʻ5ʻ.67ʻ.- >.<7ʻ=4.ʻ5.6ʻ?1,?1 .7' 1.6ʻE,1' <6ʻ < ,<7ʻ?'6ʻ0.6, <ʻ>.ʻ6.ʻE' 1.ʻ1.?1 6.<7.1% 56ʻ,<7ʻ>.6ʻ 1. ;5'/'7 ,<6ʻ"E' 1.8ʻ 56ʻ6 '>1.66.<7ʻ'4@ʻ;,1?6ʻ'> ? ʻ < 671'5 E6ʻ 67 74. 6ʻ?,41ʻ1.<>1.ʻQ467 ;.ʻU 7,46% ,71.ʻ ;,1< 7.ʻ -,46ʻ ?1,?,6.ʻ .<ʻ ;,<6.=4.<;.ʻ>.ʻ>>;1 7.1ʻ '17 ;5.ʻ'Q,41<.8ʻ'<6ʻ=< 5ʻ64 7N

W 66./05..ʻ<'7 ,<'5.ʻ> ;1 7.ʻ=4.ʻ ʻ>1.;7,Q1.6ʻ>.ʻ > ?'17. / .<768ʻ641ʻ "- 6ʻ>.ʻ;.4@ʻ>.ʻ> 671 ;78ʻ?, 11,<7ʻ,1ʻ >,<<.1ʻ5" 5.- .ʻ>4<ʻ?5'<ʻ>4ʻ7.1157, 1.ʻ.7 5 9-'54'7 ?<ʻ>4ʻ 1.-.<4ʻ>4<.ʻ;, / /4<'47#8ʻ5,16=4.ʻ;.75.ʻ>. / '<>.ʻ'41" 5ʻE' 7.?'15.ʻ;,<6. 5ʻJ#< 1'5ʻ>.5";, / /4<.8ʻ/#/.ʻ'- 7 % =4 5ʻ6, 5ʻE,1/.ʻ'4;4<.ʻ>. / '<>.%Y

?1.6ʻ4<.ʻ ;J:1.ʻ> 6;466 ,<8ʻ;.7ʻ'17 ;5.ʻ.67ʻ'>,?7>% +ʻ 41ʻ5" ?1,?,6 7 ,<ʻ>.ʻ % 4?,<78ʻ'<ʻ<, / ʻ>'" ;, / 7.ʻ>.6ʻE<'<;.68ʻ5.ʻ>. ;1.5ʻ64 -'<7ʻ.67ʻ1.<>4ʻI

ʻ 66./05..ʻ<'7 ʻ5.ʻ>.;1 7.ʻ=4 .<.@.;47 ,<ʻ>.ʻ '1ʻ 7;5.ʻ "ʻ>4ʻ>.;1.7>4ʻ ʻ>.ʻ;.ʻ/ , 68ʻ5"; '66.ʻ>.5 .@71' ,1ʻ ><' 1.ʻE.1" ʻ5" /4< ; ?'5 7.ʻ>.ʻ '1 6ʻ4<.ʻ'-'<#.>.ʻ 8 5 -1.6ʻ?'1ʻ/, 68ʻ=4ʻ6.1,<71.61 74#.6ʻ ʻ5ʻ>7.ʻ;' 66.ʻ 641ʻ5.ʻ?10><7ʻ>.ʻ5"?.1;.?7 ,<ʻ>.6ʻ6,46ʻ?,41ʻ5 -1.ʻ'>>7 ,<G <.76ʻ'4@%;,<71 047 ,<6ʻ /<; 1.ʻ .7ʻ / ,05 1.ʻ>.ʻ (* % " ?1./5 1.ʻ6, / /.ʻ>.ʻ 8 ʻ5 -1;6ʻ6.1"-.16 ʻ>'55 ʻ5";' 66.ʻ >.ʻ " /4< ; ?'5 7 ʻ'466 7,7ʻ'?1 6ʻ5" ?405 ;'7 ,<ʻ>4ʻ?1 6.<7ʻ >.;1.71ʻ5" 6.;,<>.ʻ6, / /.ʻ>.ʻ 8 ʻ5 -% '4ʻ dG6.?7. / M 01.8ʻ.7'<6ʻ>.ʻ64 5.ʻ5.ʻ hʻ>.ʻ;.'=4.ʻ/, 6% "6, / /.ʻ?1,ʻ -.<'<7ʻ>.6>7.6ʻ'-'<;.6ʻ<.ʻ ?,411" 71.ʻ./?5,V .ʻ=4ʻ ʻ ?'V. / .<7ʻ>;6ʻ> ?.<6.6ʻ/4< ; ?'5.6ʻ>.6ʻ6@ʻ>.1< .16ʻ/ , 6ʻ >.ʻ '<<..ʻ?1 6.<7.8ʻ641ʻ>.6ʻ 7'76ʻ>.ʻ>671 047 ,<ʻ'??1,4ʻ - 68ʻ/ , 6ʻ?'1ʻ/, 68ʻ?'1ʻ5.ʻ>1.;7, 1.ʻ>4ʻ> ?'17. / .<7%

% ʻN ,06.1-'7 ,< =4.ʻQ ' 'E' 7.ʻ0 .1ʻ" 66./05. .ʻ" .7.ʻ1'??,17. ʻ'4ʻ;, / 7 ʻ>.6ʻE<'<;.68ʻ =4ʻ" 1.;,<<4ʻ5" <.;.66 7.ʻ>'>,?7.1ʻ5"?1,?,6 7 ,<ʻ =4.ʻQ '-'6ʻE' 7.ʻ>'0,1>8ʻ;.55.ʻ>.ʻ ;, / ?1.<,1.ʻ>'<6ʻ 5.ʻ;,5:?7.ʻJ.<.1'5ʻ=4.ʻ-,46ʻ>. / '<>.0ʻ"5" 71 6,1.1 .ʻ <'7 ,<'5.ʻ5.ʻ;, / ?7.ʻ=4.ʻ-,46ʻ"5' 66 ʻ % .; .1%

' 6ʻ;.ʻ;, / ?7.ʻ<.ʻ?.47ʻ6.1- 1ʻ=4.ʻ>'<6ʻ5"E,1/.ʻ >'<6ʻ'=4.55.ʻ 5ʻ" 7.ʻ1.<>4ʻN;, / /.ʻ;, / /.<;.1ʻ'4ʻ E;1ʻ/'7 ()*Q46=4 '4ʻ5.7ʻ/ ʻ (* 8ʻ5ʻE'47>,E5;=4.ʻ 5.ʻ;, / ?7.ʻ=4.ʻ-,46ʻ.@ J.0ʻ>.ʻ5"71.6,1.1 .ʻ<'5 ,<'5.8ʻ '4ʻ5 .4ʻ>.ʻ;, / /.<;.1ʻ'4ʻ 5W.ʻQ'<- .1ʻ (* 8ʻ;, / M / .<;.ʻ'4ʻ5.1ʻ / ' ()*Iʻ;7ʻ;,<6.=4.EE .<7ʻ 5ʻVʻ" 5<.ʻ5 J.1.ʻ / ,>E ;'7 ,< "E' 1.ʻ'4ʻ> ;1.7ʻ=4.ʻ% <ʻ '-.0ʻ1.<>4ʻ'-'<7 ;1ʻ67 1ʻ5" ;, /?7'0 5 7 %

"?1,?,6 7 ,<ʻ>.ʻ % ʻ5,4.E.67ʻ'>,?7..

+ʻ 41ʻ ʻ1'??,17ʻ>.ʻ % .014<8ʻ5.ʻ> ;1.7ʻ64 -'<7 .67ʻ1.<>4Nʻ %ʻ

ʻ 66./05 .ʻ<'7 ,<'5.ʻ> ;1 7.ʻ;.ʻ=4ʻ64 7N

W 17% Gʻ .6ʻ1.<7.6ʻ;,<67 74 ;6ʻ641ʻ5.ʻ ;#1J 8 ,<ʻ5.ʻ <, /ʻ>.66V<>;6ʻ>.6ʻ> ;ʻ 6.68ʻ/ ' 6ʻ>,<7ʻ5.6ʻ'?'7'4@ʻ6.1,<7ʻ ?1,4- 6'??'17.<1ʻ6, 5ʻ'>.6ʻ?'15 ;45 .1686, 7ʻ >.6ʻ ;, .68ʻ ;,55 J.68ʻE'0 =4.68ʻ ?'7'4@ ;7ʻ?'4-1.6ʻ>.6ʻ?'1, 66.6G ;,<5<4.1,<7ʻ>.ʻE' 1.ʻ?'17.ʻ>.ʻ5">.77.ʻ>.ʻ 5'7%

>55% ,415.ʻ;, 67'7.18ʻ5.6ʻ;,<71'76ʻ?'66 6 6,46ʻ5.ʻ<,<5ʻ >.6ʻ6V<> ;6ʻ 6.1,<7ʻ1.?1 6.<7 6ʻ'4ʻ>1.;7,1.ʻ>.6ʻ > 6M 71 ;76ʻ1.6?.;E6ʻ, ʻ 56ʻ1.6>'.<78ʻ5.6=4.56ʻ-.15 .1,<7=4.5ʻ 6,<7ʻ5.6ʻ?1,?15 7' 1?6ʻ>;6>56ʻ;'?Q5'4@ 8ʻ7'<7ʻ641ʻ5.6ʻ & A

Q51. 6 == ,37>#7.< 1'2.6 6V<>7.6 =4.'641'5.6 >, ;4 / .<76 .7 / ,7 / ' 66. , ; .6 =4 '>,7- ;<7 1.E.6 / ' <6 >.6 ? '157.' 77 . ' 1.66E .68

W <% .6 > 1. ;7, 1.6 >.' > 671 ;7 1. / .771, <7 P.' ?1,. /6 ' -.10'5 >#7' 5>>.5.<1' ,?>1'7 , , ' '4 > 1. ;7, 1.'>4 >#?'17.G / .<58 =4 ' '?1#6 ' - , 1 .6' / < 5' 5.' E.1' ?'66.1' ' ,'> 1. ; ' 7, 1.'J#<#1'5 >.'5" 5 =4 >'7 ,<8 G

; 8 .'> 1. ;7, 1.'J#<#1'5 5.'-#1 E .1" O 6,<7, 418 .78 641 5.' 1'??,17>4 . ,EE 7> ; .<71'5 >.' 5 =4 >'7 ,<8 c 6.1'8 ' ?'1 5.' ; ,1?6 5.J 65'7 E8 67'74> ; .' =455 '??'17 .<>1'%

WG 8 .6 ; '? 7'4@ =4 ' 6.1,<7 1. ; ,< 46 #71.'>.'5" <'741.' >.' ..4@ . ?1 / >6 >'<6 '17 ;5.' G 6.1,<7 ; ,<67 74>6.< ; ,<% 71'76 6>?'1>6 .75<> - >4.56 '4 ?1,E 7>.6 ->1 7'0 .6 ?1,?1 >G 7' 1.68 ,40 .< 76 6#1,<71>4< 6 ?'1 . ,@0 > '471.6 ; '? M 7'4@ >.' 1.<7.6 641 7'78 6 56 .4 ,478 .4 1. / ?5 66'<7 5.6 E,1 / .6 ?1.6;Y57.6A?'1'5" ; ,<6 7,5 ,<7 >'<6 5.'?1. / .1 ; '68 56 ?.'?' .1,47 =4 4< >1, 7 > .<1.J 671. / .<7 >.' C '6,46%

W 5% >'< / , <68 6'5.6> 76 ; '? 7'4@ <.' 6d.5.-' . P7 ?'6 O = 6, / / .'>.' -%8 .7 =4.'5.6 ?1,?1 >5' 1.6<.'?466. ,7' ?'6 5.6 1>4< 1 O > '471.6 ; '? 7'4@ >.' 1.<7.6 ?,41'5.6 1. ; ,<G 67 74.18 5.6> 76 ; '? 7' @ 6.1,<7 1. / 0,416>6% 8

%K' 7 N 4 / 5 .4 >.'5" >.6714;7 ,< >.' 7,<6 5.6 ?1 - 5>J.6 .7>.' 7, 47.65.6 > 67 < ;7 ,<68 4< .' ; ,1M ?,1'7 ,< ; .01.8.7 =4 ' "1.<>4 >.6 6.1- ; .6 ?405 ;68 ; ,<<4.' 6,46 5.'<, / ' > ; '>. / .'1,V'5.'>> . <741.' .7 ;45?741.8 ?1.7.<>'Q, 4 1' # #,1.'>4 >1, 7 .@;546 E > .@?,6.1 ?405 =4. / .<7 5.6 ,4-1' .6 >.' 6.6 / . / ' 01.6 >'<6 4<.'>.6 6'55.6 >.' ; .' '5' 68 =4.' - ,71.'>. ' ;1.7>4 C9 < ' '>.1< .1' " ; ,<6' ;1.' '4@ >7'05 66. / .<76 > .5 5 6714;7 ,< ?405 =4.' .7 O 5" 1>4< ,< >.6 / ,<4 ' / .<76 >.6 6; .< ; .6 .7>.6 '176%

#.' < .7' 7?'6 '66.0 =4.Q46=4 0 . 'Q,41 ; '>> ' E< .8 '10 71.'4< =4.'>.' 7,<6 5.6 7'5.<76 .7 >56?.<6' ' 71 ; .' >.6 1.?47'7 ,<68 .E57 .@.1.>4<. '47,1 ' '10 ' 71' 1.'641 >.6 '176 =4 ' <.' - - .<7 =4.'> ,? < ,<8 .7 =4 <.' ?1,6?>1.<7 =4.' ?'1 5" 5 0.17.% 5' ; . ' 5" ' 6,41; . '>.' 7.47.6 5.6 E'-.416 .5 >.' 7,46 5.6 / ,V.<6 > .< . ,41'J. / .<78 ; .77.' ; ,1?,1'7 ,< .< " E' 7 5.'?' ' 71 / ,5<.'?'17 ;45 .1'>.' 6.6 / . / 01.68 " 4< 7.5 ?, <7 =4.' ; .77.' ;5'66.' ?1 - .J . .' > '17 67.6 6 .7' 7 E' 7 5" 5, '>.'<.' 6,4EE1 18 >'<6 5" 6'55.'> .@?,6 7 ,< >4 ,4M -1.8 =4 ' >.V' 7 <'741.55.7<.47 6 ,4-1 1' " 7,46 5.6 7'5.<768 '4;4< '471.' ; ,< ;411.<7 =4.' ; .4@ '<@=4.56 < 7 '7 -.' ' ; '>. / =4.' ; ,<E>1' 75" ?'5.<7.>4 7'5.<7 '>4 J. < .% ' V' " =4.5=4.6 '<< . .6 =4.'5.6 '17 67.0 <,< ?1 - 5.J .66.1>< J .1.<7'4 # ,5?. .I <.'5.771.' >.' ; ' ; : .75.41 .< <7.1> 7 46'J.% 6<.'E41.<7 ? 6 5 46 : .41.4@ >'<6%5.6'471.6 . / ?5' ; . / .<76I 7, 4 ' Q,<16 5.'> 1. ;7.41 J.<.1'5 >.6 007 / .<56.7 5.6 ?1 - ' 5.J .6 ?,41-41.<7 " . . ' =4.' 5.6 6'5,<6 5.41 E466.<7 E.1 / . 6% # .65 ' <6 ' =4 ,< " -4 6 .5. - .1'>'<6 5.'7. / ?5.' >.6 '176 4<.' 6,17.' >.' <,05.66.' .7 4<.' ;5'66.'>.' ?1 ' - 5>J .68 7'<> 6=4.'5.6 '17 67.6 <,< 5 71. 68 6. / 05'05.6 " >.61,541 .16 ,06 ;4168 E41.<7 1>>4 76 O E' 1.' 4<.' .@?,6 7 ,< 0'<'5.'>.'>.4@ : .41.6 ?'1' '<8 >'<6 4<.' ?5' ; .' ?405 =4.8 ,4- .17.' " 7,47.6 5.6 <7. / ? 1 .6>.' ' 18 # .7 .7'7 > ' - 5 66. / .<7 " >419 Q46=4 '4 / ,M / .<7 , 5 5.6 ?1. / .16 1' ,4- . / .<76 >.'5" 1. - ,547 ,< 5.41 ,<7 ?.1 / 6 > .@?,6.1 >'<6 4<.' 6'55.' >.' - .<7.' =4 '5.41 " .7.'5,4. .'>'<6 5" 14 .'>.' # .1V%

55 .7' 7 > EE ; 5.' =4.' 5.6 : , / / .6 =4 ' ; ,<6' ;1.<7 .416 7'5.<76 " 71' ; .1'5.6 J1'<>6 .- .< . / .<76 >.' : 6 ' 7, 1.'E466.<7 <6.<6 05.6" 5" - , @?4 66'<7.'>.'5" 5 ' 0.17.% 56 ,<7 54 >'<6 5" ; ,<67 747 ,< E1'< ; ' 6.' =4 5 < V '? 468G?,41'4;4<.'?'17 .>.5" <'7 ,<8 < '?,4E '4;4< <> - >48 '4;4< ?1 - 5.J.8 < ' .@ ; .?7 ,< '4@ >1, 76 ; , / / ,<6 >.6 H1'< ; ' 68 =4 5 < V " ?546 <'Q4 ' 1'<>.6%< ' ; ,1?,1'7 ,<6 >.'?1,E.66 ,<8'176 .7 / .7 .16%

" *, ' 0 ,.(-(3.(, -* WG +,/ 5 $3 *'+3.(**('4+.,$('- ' 0.('+ 2'(,+) $''((*,"-($*',. 3! ,$ * 4) $5 ((,'+ 2 * (*," -(" +.,'/ (,$ " *,D ('4(%.(-(" '533(" + 4.(" -(c'( ) ((*+,$ *+ (/

466 5 7 71, 6 ?.7 7 ,<6 - ,46 ,<7 .7.' '>1.66. .61 *(4+.' -(" +.,$',(" * * $,.('/ * * 4.$0$$(9$('/

=4 '6, ; 7.<7 >.' - ,46 5" ; ,<E 1 / '7 ,< >.G- ,6 ?1 < ' ; ?.68 '> / 66 ,< .J'5.' >.' 7,46 5.6 '17 67.6 '4 ; ,< ' ; ,416%?,41 .@?,6 7 ,< >.6 7'05. '4@8 .7 '471.6 ,4 ' -1'J.6 > '17 >'<6 5.6 6'5,<6 >4 ,4-1.% $

" 6. ; ,<>.'?.7 7 ,< .67 ; .55.'>.' ?546 .416 '17 67.68 / . / 01.6 >.5 ; '>. / ;'>.' . <741.8 =4 % <> J<. 6 >.' ; .' =4.'5.6 ?1.7.<7 ,<6 >.6 ?1 - .J .6 ; : .1; : ; <5 .<M ; ,1.' " 641- -1.' " - ,6 > . ;1.76 ; ,<67 747 ,<<.56%>. ' / '<>.<7 =4.' '1.4.'6, 5 ,4- .17.' " 7,46 5.6 '17 67.6 <> 67 < ;7. / .<7%

" 71, 6 . / .' ?.7 7 ,< E' 7 5 ,<<. 1' " 4< '471.' / . / 01.' >.' ; '>. / .8 " ; .' ?. <71.' ; .5 ;01.' =4 ' 6 , ; ;4?.'>'<6 ; .' / , / .<7>.' 71'<6 / .771.' " 5" ?,67. ' 1 7.' 1 / / ,17.55.' 6.'< ; .' >4 Q.4 >.' ?'4 / .% .' -1' ' 7'5.<7 < . ;1' <7?'6 5" ; ,< ;411.< ; .% ' - ,46 >>< ,< ; .' 54 / > / .' '046 >,<7 ; .' =4 ,< '??.55.' ,1J4. 55.46. ' / .47 5.'?.4?5.'>.6 '17 67.6 6.' ?5' <7%

W .6 '17 67.6 <,< ?1 - 5#J #6 1#;5' / .<78 - ,46 > 7 58 5" ; ,<6.=4.< ; .' .7 '??5 ; '7 ,4 >.6 ?1 < ; ?.6 ; ,<67 747 , ,<.568 : ,<6.=4.< ; ' = , ' >, 7 5.6 7' 1.'Q, 4 1' >.6 ' - '<5'J.6 1.645 ' 5'<7 > 4<.' .@?,6 7 ,< ; , / / 4<.% ! .?. ,>'<7 ; '>#/ ; '>.' . <741.' 6 , ; ;4?.' .< ; ,1.'>.6 / ,V.<6 > #54>.1 .6 ; ,<6.M =4.< ; .6 >.' - ,6 5, 6I .78 / '5J1# 5" ?#<41 .' >.6 ,4-1'J.6 E' 56 ?'1 6.6 / . / 01.6 >'<6 5.' ; ,416 >.' ; = ' >.4@ >.1< .1.6 '<<#.68 / '5J1.' 5.' - >.' <. - 7'05.' =4 ' .< 1.64 .1' 7 >'<6 ; .' 6'5,<8 .55.' " 1.6,54 > ' ; ; '?'1.1 7,47.6 5.6 ?5' ; .6 .< 1.' ?1,>4 6'<7 >.' <,4- .'4 >.6 ,4-1'J.6 >.QO -46 >'<6 5.6 ?1>' ; .>.<7.6 .@?,6 7 ,<68 ?,41 6.' / #<'J.1 4<.' .67E.' ; '> / ' ?,66 0 5 7.'>.'?'15'J.1 . / ?5' ; . / .<7'- .'5.6 '17 67.6 <,< ?1 - .J .6% ' '>.QO' ,<,<.O ?405 =4. / .<75" 1.?4J<'< ; .' =4.' Q '-'6 O / '66, ; .1 O ; .6 -4.6 ?'17 ;45 01.68 .7Q.' E,1 / .'>.6 -7.4@ ?,41 =4.'7 ,<6 5.6 '17 67.66, .<7 .J'5. / .<7 '> / 6 >'<6 .@?,6 7 ,< =4 '>, 7 ' - , 1 5 .4 ; .77.' '<<. .%Y

,47 1. ;5' / .' >,<.' '66, ; '7 ,< >.6 '17 67.6 '4@ 0 .<E' 76 >.'5" 5 0.17> .7 >.' >J'5 7>'>.6 >1, 76% .6 71,E.' ?.7 7 ,<6 ,<7 .7>'1.<- ,V. .6 " - ,6 ; , / 7.6 >.' ; ,<67 747 ,< .7>.6 >, / ' <.6% +

.41 ,? < ,< .67 E' ; 5.' " ?1.66.<7 1I 56 ,<7 ?.<67E =4.'5" , 5 5 < V " ?546 >.' ?1 - 5.J.8 ; , / / .<7 ?,41 ' 1' 7 ,< .< <- ,=4.1Z .7 =4.8 =4'<> /E / .' - ,71.' ; ,<67 747 ,< .< 5' 66.1' 7 .@ 67.1 =4.5=4.6 4<68 5.6 '176 <.'>, - .<7 ; ,<<' 71.'=4.'5.6 ?1 - 5e .6 >. ;1.7.6 ?'1'5" <'741.%

.'?1, .>>> .@;546 E >.' ; '>. / .' ?,41 .@?, ' 6 7 ,< >.6 7'05. '4@ .67 '4@ '17 67.6 ; .' =4.'5" ; .<641.' .7' 7 '4@ J.<6 >.'5.771.68 4<.' .<71' - .' ,> .46.%

.J'5 7.'>.6 >1, 768 =4 'E' 7 5" 0'6.'>.'5" ; ,<67 74M 7 ,<8 " ?.1 / 6 " 7,47 ; 7,V.< > .@?,6.1'6 " ?.<6..I ; .77.'>J'5 7>'5.J'5.'>, 7 ?.1 / .771.' O 7,47'17 67.'> .@M ?,6.1'6,< ,4-1'J.I 6,< 7'05.'48 . .67 6'= .<6 ; .I 6,< .@?,6 7 ,< ?405 =4.8 . .67 5" ?.1 / 66 ,< > / <1 / .1% .' 6'5,< >4 ,4-1.' .67 5" ?1.66.' ?,41'5.6 7'05.'4@8 ?, 1-4 =4 ,< 1.6?. .7.' 5.6 / , .416 .7 ,1>1.' ?405 ;%

<J5.7.11.8 ?546 6'J.8 '> / .7 '4@ .@?,6 7 ,<6 ?405 =4.68 / > / .'>'<6 5.'6'5,< 1,V'5 >.' ,<>1.68 5.6 ,4-1'J.6 <> 67 < ;7. / .<7 >.' 7,46 5.6 '17 67.68 '<M J5' 6 ,4 .71'<J.16% " ?'71 .'>.6 '176 .67?'17,47, 4 55 V " >.6 0, / / .6 .7 >.6 '66. / 05; ;6 > J<.6 >.'5.6 '??1> ; .1%

; ;1' J<.0 ?'6 .< '> / .77'<7 7,46 5.6 '17 67.6 ' ; .77.' .@?,6 7 ,< ?405 =4.8 >.'?1.Q4J.1'5" >.6714;7 ,< >.' ; '>> / .% ' ; , / 7.' >.' ; ,<67 747 ,< - " - ,46 ?1.6.<7.1 < ; .66' / < .<7 4< ?5'<'> ,1J'< 6'7 ,< ?,41 7,47.6 5.6 ; '>. / .6 >.6 6 ; .< ; .6 .7 >.6 '1768 .7 5.6 ; , / 7.6 <.' - .45.<7 '4Q,41> :4 ' - ,46 1 .< E' 1.' ?1. ' Q4J. 1'641 ; .77.' ,1J'< 6'7 ,<%

06.1- .O > ' 5 .416 =4.'5.6 E, < ;7 ,<6 >.' ; '>. ' 1, .'6.<7 .<6. J<. / .<7>.'5" ?. <741.' .7>.'5" 6;45?M 741.8 .7 5.'Q4J. / .<7 ?,41 >> ; .1< .15.6 ?1 @%

1'<.'5.41 7.O ?'6 ; .6 E, < ;7 ,<6I " E' ;457.'>.' .@?,6 7 ,< < .67 ?'6 4<.' ?'17 .' >.' <67 747 ,< ' ; ; '>> / =4.I ; .65 4< 6 / ?5.'46'J.' '046 E= .' - ,46 ?,4- .08 =4.' - ,46 >.- .O 1.<>1.' <47 5.' .< ,4-1'<7 5" 5 ; .' " 7,465.6 '17 67.6%%

'1 9 / ,V.< - , 46 '55. O1 , 1 6 , 17 1 >.6 1>>4 7 ` .6 ?546 , O6 ; 416 4< . E , 45. > 5 , / / .6 '' 7'5.<78 .7 >.6 , 4-1'J ; 6 ?1. ; .4@ =<. ; 6 ?1 - 5.J .6 5; \ J4' .<7 >.6 1.J'1>6 ?4O5 ; 6% $

O . ? , =4.>.1.@? , 6 7 , < .67 ?1 , ; : ' <.8 , <6 < J< , 1.O ?'6 ; , / O .< 5.6 , 1'J.6 >. 5' 5 O.17> <' 6 6'<7. 6.<7 ?.4 E' - , 1'O5.6 '4@ ?' 6 O5.6 71' - '4@ >.6 '176% , 46 - , 46 E5'77.1 .O ?.47 51. .< - ' < >. >. - , 1 '4@ 6.456 .EE , 176 >.6 '17 67.6 ?1 - 5.J .6 4< . ; , 55. ; M 7 , <8 5 <. .@? , 6 7 , < '466Q ; , / ?5.7. =4. ; .55. >.6 '< . .6?1. ; . >; <7.6% >Q'8 ? , 41> 66 < / .1 5' ?. O41 . >.6 , 4-1'J.68 .7 1. <?5 1 5.6 ?5' ; .6 - >.6 >4 6'5 , <8 56 , <7 1.6 , 54 >. 1.?1 , >4 1. >.6 7'O5. '4@ >.Q' ; 4<\ <468 ?547>7 =4. >. ; . >.1 4<. ?'17 . >4 7.11' < '' >.6 ?. <71.6 =4 <. 6 , <7 ?'6 / <. ' ; '>. / ; .<6%

A , <8 / .66 .4168 - , 46 <. 6 , 4EE1 1.O ?'6 ; .77. > , 4O5. <Q41. E' 7. '' . J'5 7> > ; 6 >1 , 76 >.6 ; 7 , V.<6 .7 : 5' : .17. 8 / .1. >.6 '176% < >.714 6'<7 7 , 47.6 5.6 E4 7 5.6 > 67 < ; 7 , <6 =4 6 , 5' .7 7 .7 ; 5'66' .47 5.6 : , / M <.6 ?'1 5' - '< 7. ?546 =4. ?'1 5. 7'5.<78 - , 46 1.< >1.O 4< 6.1- ; . 6 J<'7>'4@ '176 .7 ''4< J1'<> < , / O1'' %>. ; 7 , V.<6 71 , ? 5 , <J7. / ?6 .5 , J<.6 > 4<. '1.<. =4 56 ?.4- .<7 1.<>1. ; . .O1.% <. Q41'<>. 1 , V'5. E' 6' 76.45. 5.6 : , <. 416>4 6'5 , < =4'<> 5. 1 , 6.4 .< > 6? , 6' 7I / ' 6 Q , 41> : 4 =4. 5. , -1. .67 '' 5' > 6? , 6 7 , < >. 5' '<'7 , < .7 >4 1 , 8 ; G.67 '' 5' 5 O.17. '' , -1 1 ; . 7. / ?5. >.6 '176 '' 7 , 46 5.6 ; 7 , V.<6 =4 5.6 ; 4 - .<7%

, / O .< > ' - '<7'J.6 - , <7 1>6457.1 >. - , 71. >. ; M 6 , <8 =4 , =4. 6 / ?5. / .<7 ?1 , - 6 , 1.S < , 4-1'<7 '' 7 , 46 5.6 7'5.<76 ; .77. ; '11 .1. / / .<6.8 =4 < '' .7. Q46=4 U ?1. 6.<7 =4 4K ; : ' / ? ; 5 , 6 .@ ; 546 - . / .<7 1.6.1- . '4@ ; , / O'76 6 <J45 .16 >. 5' - '< 7. .7 >.6 5 71.68 - , 46 E , <>.O 4<. <67 747 , < > , <7 5.6 .EE.7. 6 ; 1 , <5 <'??1. ; 'O5.6 ? , 41 1> / 45'7 , < .7 ? , 41 5. '?1 , J1.6 >. 5' ?. <741. .7 >. 5' 6 ; 45?741. 'd - , 46 ?1.?'1.O 5.6 / , V.<6 6 <'741.56 >.6 .< ; , 41'J. / .<76 ?4O5 ; 68 71 , ? : , / .6 46=4 ''?1.6.<7 ?'1 5.6 E , 1 / .6 .@ ; 546 - .6 =4 5.6 > 6?.<6' .<7% 56 >. - .<>1 , <7 5. ?1 @ >4 ?546 O. '4 3 , < ; , 416 =4. 5' 5 O.17. ' 7 Q' / ' 6 , 4- .17 '4@ 7'5.<76 .7 '< J>< .% , O5 .O ?'6 6417 , 47 =4. '1 6 , 5 >71. 5' ?'71 . >.6 '1768 .7 =4. 5.6 '176 <. ?1 , 6 ?E.1.<7 =4. ?'1 5' 5 O.17>% % , ; 5. ?1 , Q.7 >. >. ; 1.7%

66. / O5. <'5 , <'5.8 '?176 ' - , 1 .<7.<>4 5. 1'?? , 17 >.6 ; , / 7#6 >. ; , <67 747 , < >.6 > , / ' <.6I

$ # , <6 >.1'<7=4.8 ?'1 '' ; , <67 747 , < >. ; 1 ; 5>.8 < V '' ?546 ? , 41 '4 ; 4<. ?'17 . >. 5' '<'7 , <8 < ? , 41 '4 ; 4< <> - >48 '4 ; 4< ?1 - 5.J. < .@ ; .?7 , < '4@ >1 , 76 ; , / / 4<6 >. 7 , 46 5.6H1'<Z' 6Q =4 5 < V '' ?546 <'Q41'<>.8 < ; , 1? , 1'M 7 , < >. ?1 , E.66 , <68 '176 .7 / .7 .16I

76 , ; , <E , 1 / '<7'4@ > 6? , 6 7 , <6 >4 >. ; 1.7 >4 C9 / 'P >.1< .1I =4 ; , <6'.1. 5. 7 , <-1. O 5' 1.4< , < >.6 / , <4M / .<76 >.6 6 ; .< ; .6 .7 >.6 '176I

% '' . ; 1.7 , ?1 , - 6 , 1.1 , , <78 .7 , < '77.<>'<7 =4 P D '67'M 74. 6411 5.6 > - .16 .7'O 66. / .<76 >. 1 <6714 ; 7 , < .7 >. . >4 ; '7 , < <'7 , <'5.8 ; . =4 64 7N

17% F% , 465.6 '17 67.68 E1'<Z' 6 , 4 . 1'<J.168 / . / a1.6 , 4 < , < >. ; '>. / . >. . <741. .7 ; 45?741.8 6. 1.<7 .J'5. / .<7 '> / 6 .@? , 6.1 5. 716 , 4-1'J.6 >'<6 5.?'1G 5 . >55 , 4-1. >.67 <>. ; . 7 , OQ.78

W % .@? , 6 7 , < <. ; , / / .< ; .1'' ; .77. '<<>. =4. 5.) 6.?5.< O1.%

$ % . > 1. ; 7 , 1. >4 >>?'17. / .<7>. '1 6 E.1'' > 1 J.1 .7 641- . 55.18 6 , 46 5.6 , 1>1.6 >4 / < 6 1. >. <7>1 .41 5'> 7..@? , 6 7 , <8 =4'<7 , 1>1.8 '41.6?. .7> '4@ / , .4168 ; 7 =4'<7 .1 , ?5' ; . / .<7 =4 ? , 11 '' >71. <>. .66' 1.%W

% O N . ; 1 , 6 =4. 5. 6'5 , < . / ?5 , V> Q46=4 ; .@? , 6 7 , < >.6 7'O5. '4@ >. ; '>. / . >. . < 7 1. .7'<7 / >7'O5 66. / .<5 <'7 , <'58 , < .67 / ' 71. >. < .< ' ; ; , 1>.1 5' Q , 4 66'< ; . =4 '4@ '17 67.6 =4 , <7 > , <<> >.6 ?1. - .6 @5. 7'5.<78 'E < =4. ; . 6'5 , < <. 6 , 5 ?'6 1. / ?5 >. 'O'1O , 4 5 'J.6%

% # , 4K N . 6.<6 =4. 5. 'O.6 , < >. 5' 5 O.17> .67 4< O.6 , < ? , 41 5.6 '176% ' 68 >'<6 ; . / , / .<7 I

; 8 5 6 > . - . 4< J1'<> ?1. ; 6 .<71. ; '> / . >'' . <741. .7 5.6 '471.6 '17 67.6% 546 .416 / >1' , 1.6 - , 4'' , <7 .7> ?1. 6.<7.6% 4 6= . - , 46 < ' - .O ?'6 5. 7. / ?6 >. - , 46 .< , ; ; 4?.18 5 <. ?.47 71. =4.67 , < .< ; . / , / .<7 =4. > 4< ?1 , - 6 , 1.8 .7 ; . ?1 , - 6 , 1. 8> , 7 >71. >. 5' 66.1 5.6 ; : , 6.6 >'<6 >7'7 , > .55.6 6 , <7% $

% O '' % ' >. / '<>> 5'' ?'1 , 5. ? , 41 '??4V.1 5. ?1 , Q.7 >. >>.1.7 =4 - , 46 ; 6^ ?1>6.<7. I / . 6. / O5. =4 5 1.<E.< : . >.6 > 6? , 6 M 7 , <6 ; , <E , 1 / .6 - 4.68 .7 >.6 ?1 < ; ?.6 6. / O5' O5.6 '' ; .4@ =4 <<7 6.1- >. O'6. '' - , 6 71' - '4@% < .EE.78 / .66 .4168 66. / O5.. <'7 , <'5. '8 >'<6 7 , 47.6 5.6 ; 1 ; , <67'< ; .6% 6.<7 5'' <>. .66 7. > 'O , 5 1 7 , 47 ; . =4 ? , 4- ' 7 / .751. 4<. 6 , 17. >. J>< . , < '' ' ; 7 - > >4 ; , / / .1 ; .8 , < '' 1 <>4671 .8 , 4 '4 5 O1. .@.1# .. >. 7 , 47.6 5.6 E' ; 457>6 <> - >4.55.6I .55. '' .< 7 , 47 7. / ?6 >. 714 7 7 , 46 ; .6 , O67' ; 5.6I ; , / / .<7 6. 1.E4 6.1' 7 .55. '' ' ; ; , 1>.1 '<@ '176 ; .77. 1 , / . 5 O.17> ?1 , 7. ; 7E ; . Z .6 .<71' - .6 =4 56 .?1 , 4- .<7<4 6.<7 . - >.1' / .<5 '4@ >. - .5 , ??. / .<76 >.6 7'5.<768 .7 ? , 17.<7 4<. '57. <7. / '< E.67. 7 5' ?1 6?.1 7. <'7 , % <'5.8 641 5' =4.55. 5.6 '176 , <7 4<. <E5=.< ; . 6 ?4 6 6'<7.%

8 '??4 >4 ?1 , Q.7 >. >>.1.7 ; 7 / , < , ? < , < ?'15 ; 45 .1.% Q '??.55. 6417 , 47 4< 7.1' , J<'J. =4 - , 46 '' .7. ; 7>8 .7=4 / >1 7. > >71. ?156 .< ; , <6 >. 1'7 , < I . .67 ; .54 >. ; .7 ; . / / . ; . .O1.8 =4 '' , O 7.<4 1' - '<7'J. > >71. >'<6 5'' ; 5'66. >.6 '17 67.6 ?1 M - 5.J .68 .7=4 < .<6.<7 ?'6 / , <6 5. ?1 @ >. >J'5 7> >.6 >1 , 76I W. ; .7 '17 67. ' ; '>. / ; .<8 =4 / .7 .< ; . / , / .<7 5. ; , / O5. '' 6' J5 , 1. .< ; , <6' ; 1'<7 6 , < ? < ; . '4 '' 7 , 47 ; . =4 '' 6.1- '4 6 ; ; .6 >. 5' 1.- , M 547 , <8 7 , 47 .. =4 '' ; , <71 O4> '' 5' 5 O.17> >. 6 , < ?'V6% '??.55. 5. 7. / , J<'J.>. % ' - >8=4 > 78.5 ' - . ; 54 7 , 46 ; .4@=4 ' / .<55.6 '176 .7 1. ; <. ; : . <7 ; .4@=4 5.6 ; 457 - .<78 =4 5 .@ 67. >.6 7'5.<76 : , 16 >.6' ; '>> / .6I =4 5 .@765. 4< J1'<> < , / O1. > '1 7 67.6 '4@= .56 E < '' / '<=4. =4. ; .77. > / 45'7 , < =4 6 '#= / .17 ?'1 5' ; .<641. , 4 5.6.5 , J.6 >4 ?4O5 ; 8I ? , 41 >.- .< >.6 : , / / .6 71>6 > 67 <J4>6% 5 / . ?' 1' 7 > , <. ; , <- .<'O5. .7 Q467. >. 67 / 45.1 .6 : , 1< / .6 / , >.67.68 > .< ; , 41'J.1 5.6 : , / / .6 7 / ; 5.68 .< 5.41 E' ; 5 7'<7 5.%6 / , V.<6 >. 1. ; . - , 1 5.6 64EE1'J.6 >4 ?4O5 ; 8 =4 6 , <7 5'' 1> ; , / ?.<6. 5' ?546E5'57. 6. '4@ '17 67.6 E1'< ; ' 6% I

. ?1. , ? <'<7 - , 46 '' ?'15> >. 5' =4.67 , < >.6 +3+! > ; / .6I Q. 6.<6 ; , / / . 54 7 , 47. / ? , 17'< ; . >. ; .77. ?'17 . >. 1 <6714 ; 7 , < ?4O5 =4.I Q.6.<6 =4 .55. .@ J.1'' >'<61 66. / O5. . 4<.> 6 ; 466 , < '??1 , E , <> .I '466 8 =4 , =4. Q. ?1.64 / .< >71. ?'6 'O6 , 54 / .47 >. 6 , < - 6 641 # .77. =4.67 , <8 ; . < .67= . ?'1 ; . =7 5' ?1 , ? , 6 7 , < =4 - , 46 .67 E' 7. <. 5' ?1.Q4J. ? , <78 =4. Q '??4 . 5. ?1 , Q.7 >. >> ; 1.78 .7 =4. Q. ?1 . % 5. ?1>6 >.<7>. 5. / .771. '4@ - , @%

+ %5. ?1>6 >.<7 E' 5 5. ; 741. > 4<. 5.771. ?'1 5' 4.55. 5. - ; . ; , <645 >. H1'< ; '4?1.6 >.6 7'76 < 6> / >1 =4. .<- , . 5' ?1.67'5 , < >.6 , <6.1 / .<7 .7 4< > , < ?'71 , 7 =4.7 . 8C 5 - %

+ .6 / < 671.6 %6 , <7 <71 , >4 76 >'<6 66. / O5>.% %5. ?1.6 >=?7 ' ; ; , 1>. 5' ?'1 , 5. '4 / < 671. >. 5'' Q467 ; .8

EEE% & # .67 '' 1. J1.78 1' ; 66 . 7168 =4. Q. / . - , 6 , O5 J. >. - , 46 >.< , < ; .1 >.6 , ; .7>6 =4 , <7 .7> 47 5. 8 =4 ?.4- .<7 >71. .< ; , 1. 5 , 16 =4 .55.6 6.1.<7.1 / .1 , <7 >'<6 5.6 : , / .6 =4. 5' 1' M 6 , <8 5' 5 , 8 5.6 ?1 < ; ?.6 >.6 J , 4- .1<. / .<76 5.41 ?1.6 ; 1 - . <7I Q. - .4@ ?'17.1 >. =7 .5=4.6 , ; .7>6 >; 6 / 6 >. 5' # , <67 747 , <8 =4 >> / .1 5. <7 7 , 46 5.6 Q , 416 5. ?546 O. '4 5 71. .< '77'=4'<7 5' ; , 65 747 , <8 =4 56 E , <7 ?1 , E.66 , < >. >.E.<>1.% ' ' / ; 751 ; 6 , <6Z - , 6 V.<@ >.6 E' 56 5 $ <. 6 , <7 ?'6 ; 1 / <'568 / ' 6

5 $4(O(* , +O $. - (, % *(' , (' 3 *'(%5 (*3(' (* +$ %!

6'<7 ;1, 1.' '4'?.4?5.' .5'Q' ;.6 , ; >7 6 .5 .6 / / .6
=4G.55.6 6 ,<7 4<'?,4-, 1'?,5 7 =4.1'>.' ;.' J.<1.'6,45
5.6'11 7.6'>.' :' , ; .7>'>.6 <7 6'>.' 5'' # ,<67 747 ,<8
> 15. '<68 =4 ' >. / '<>.<7 4<.'?5' ;.' / '1=4..'>'<6
<7.1 .41'>,' 71 04<'5'>.' 5'' : '47.' ; ,41' <'7 ,<'5.'
?1, - 6, 1.1';.5<'?'1'5.=4.5'.55.' <- 7.' ;.' / / .'71 M
04<'5' '' ,<40.1'4<'6.;,<>'6.;1.7' 1.' <7.1?1.7.'>.6
<E,1 / '7 ,<6 E' 7.6 '4'<, / '>.' ; .55.'>.' 77. '48 ?'1'
>.6 # , / / 66' 1.6% G G

'6 ; .67 ' - . ;'?546'>.' ; : 'J1 <' =4.'Q.' - ' 6 / .771.'
6,46 'V. @ >.6% ' ;7.6 .0; .66 - . / .<7 ; ,<?'05.68
>.6 E'176 >.' ?,4-, 1' '10 71' 1.8 =4 '41' .<7 .?,4'
- '<7.' '<; .<'>.6?,7 6 / .%

, ; '4<'?1, ;E.6 - .10'5'>4'71 04<'5'> 50V8 ?1.;.>>'
> 4<.'5.771.'>4'?1.6 >.<7>.' ;.'71 04<'5N

W '' ,<4.41>.-,46 .<-,V.18 ; , / / .'Q .<64 6 ; : '1J.'
?'1'5.'71 04<'58 ,<.' ; . ? .'>4'?1, ; .6 - .10'5'=4 5' ''>1.66>'
, ' '>4' ; ,41'<78 '1' '6,<'>.' .< .-.< .<7 =4' ' '' 5>E' 78
''E,1; ' '1 / . .8 ?'1' ; .17' <6 / . / 01.6'>.'5'' ,; .7.>.6 / 6
>.' '5'' # ,<67 747 ,<8 '>.' ; .77.' - 55.8 > 4<.'?1, ; .>41.'?,41'
E' 7> '66'66 <'78 ; , / / .<; .'0 5''1.=4#7.'>.' ' ' ; ;46'7.41'
?405 ;8 ; ,<51.' 8 ! '<.7 .7 6.6 ; , / ?5 ; .6% '0467 ; .'6.'
71,4-'<7 ,471'J#.' .7 5.'>.?>7?405 ;' ,5>8 < ,46 ,6 ,<6 .6G
?>1;1'>.' 66. / 0 . .'<'7 ,<'5.'=4 .5 .'?1.<>1''5.6 / ,V.<6
<#; ,66' 1.6 ?,41'=4.' ; .' ;1 / .'<.'1.65.'?'6 / ?4< 8 6'<6
=4, '5''0467 ; .'<.'6.1''?546 =4 4<'Q.4' .7 4<' E'<7> / .1' 6.6
/ < 6 1.68 ,05 J.6'>.' ; .>.1' 75''E,1; .8 6.1,<7 5.'Q,4.5'>.6
?'66 ,<6'>.6 Q467 ; '05.6% Y

8 A

#.Q,41> :4' 04 55.75(* 8 0 : .41.>.'>.4 7>.'5 '?106'
/ > 8'>'<6 5'' ;0' / 01.'>4' ; ,<6. 5>4'71 04<'5'>4 > 671 ;7
> 50V8 .7'<7 '66. / 05.6 % . '< .11.'K,<<.78 ?1.6 M
>.<78 '< ,4 6 ! ,466.1'<>8 ,4 6 K,46=4.78 H1'4E, 6
H'16' ;8 Q4J.68 .7 <7, <.' '17.58 ?1. / .1' 64??5.'47>.'
Q4J.8 .;1 - '<7 % .11. ! '01 .5 #1'<.78 ; , / / 6 '4J1.E'
E.8 > / .<7 '66.1EE5.<7.8 '' ; , / ?'14 % H1'<; , 6 K,47,<8
' ; ;46'5.41?405 ;?1.6 5.>771 04<'58 =4' ''> 7=4.' % '4G
1.E8 ; >. - '<7 - ; '1.'>.'5'' ?'1, 66.'>.' ' 47. '15 '<<.8
'V'<7 ?,17.'?5' <7.'?,41'E' 5'> '66'66 <'7 ; .<71.' % #'<.78
/ '1;5 '<>'?,7: ; ' 1.'>.' ; .77.' - 55.8 .7 6.6 ; , / ?5 ; .68 5 E7
.<64 5.'6,<'>.6 67. / .<78 0 5'' 64 7.'>,=4.5' ? ; , / ?'1'<7
E47 ,05 J.8 ?'1'5.'>.-, 1'=4.54' / ?,6'57 7 / .5 ' J.8'>.'E' 1;'
?1, ;#>.1 0 4<.' <E,1 / '7 ,< ; .<71.'5.>7 % #'<.7 .7 6.6
; , / ?5 ; .61 =4.'5.6 ' ; ;46.6 '5'1 / .6; ,<-,=401.<7 0 6,<'>.
71, / ?.' 4<.' '66. / 0 . .'>.6 / 6'>.' 5'' # ,<67 747 ,<8 =4'
.<-,V'8 0 ,<0.' 0.41.6'>.' 5'' <4 7>.1< 01.8 .<- 1,<71, 6
; .' 60, / / .68>,<7?'17 .'>7 '7.<'1 / .68 ; : .05.>7 % K,4M
7,<8 =4 8 ; ,4; .' ; '>'<6 6,< 5 78 E47 ,05 J.' >.6.' 5. - .18E 7
,4-1 1'5'' ?,17.'>.'6'' / '6,<8 =4 ,< 71'-' 55' 7 0 ,<E,<'
; .11'>.6;.<>7>'<6 5'' ; 41' ,0 5 E47 '6 8 <64 .' 7 ; . ''<M
>4 7 J<, / < .46. / .<7 0 5'' / '6,< ; , / / 4<.8 ,0 5'' , '
; .7.'>.6 / 6'>.' 5'' #,<67 747 ,< ' '7 '66. / 0 . .1 =4.'
; .17' <6 / . / 01.6'>.' ; .77.' ; .7.'54' >. / '<>01.<7 / ?0'
1 .46. / .<7 5''1. / 6.'>.'5'' ?1, ; .>41.' ; ,<51.' % #'<.7% .'
; , / ?'1'<7 'V'<7 10?,<>4' =4.' ; .77.' ?1, ; .>41.' . '7 '4'
J1.EE.'>4'71 04<'58 5'' , ; . 0 ?1 7 5.'?'17 '> ,<-,V.1'?1.<M
>1.' % K,46=4.78 646>7Q4J.'>4'71 04<'58 =4' ' - ' 5?1.;.>.'
0 <E,1 / ' ,<%

S % K,46=4.7 '' >7 =4 .<- 1,< 5.6 ,<0.' 0.41.6'>.'5'' <4 7
>. / 01.8 4<.'71,4?.' <, / 01.46.'>.' J.<6 '1 / 06 6.'71'<6'
?,1701.<7; : .0 4 '4 / , / .<7 ,0 5 ?55' 7 .' / .771.'>'<6 6,<
5 78 ,05 J01.<7>.'>.6; .<>1.'>'<6 5'' 14.8 .< 0 ,<<.7>.'
<4 7 .7 .< / 45.6'>.' ;0' / 01.8 .7>.'5.6 64 -1.'0 5'' / '6,<
; , / / 4<.8 ,08 '?106 0 .<'>.6 1.?1, ;5 .67 56 54'>. / '<'
>01.<7 5''1. / 6.'>.'5'' ?1, ; .>41.'>.' % #'<.78 .' ; , / ?'M
1'<7 5.41' 'V'<7 10?,<>4 =4.' ; .77.' ?1, .0>41.'< 07' 7?, <7
.< 6,<?,4-, 18 .7 =4 .55.' 07' 7>. - .16'5.' J1.EE.8 5'' ,; 070
; , / / 7 4<.'71,4?.'>.' J.<6 '1 / 06 ?,41' 6.'1.<>1.' ;0.0
5.' J1.E .1' >4' 71 04<'58 ?,41' ?1.<>1.' ; .77.' ?1, .0>41.1
=4.8 5.' J10EE .1' 'V'<7 0 0 . / / .<08 5 54' E47.<Q, <7> '55;1'
;0.1; .1'5'>7.'?1, ; .>41.8 '?106 =4, ' 5.6> 56 % K,46M
=4.7 .7 K,47,< .41.<7 5'' 5 0.170 >.'6.'1.7 1.1% ' ; , / ?'14
% '5'1.78 J1.E5 .1' >''71 04<'58 =4' '' > 7=4.8 >'<6 5''
<< 7>.1< 01.8 - .16 : .41.'>.' / <4 78 >.6 J.<6 '1 / .6 6;'
?106.< 01.<7 '4 >.-'<7>.'5''?,17.'>.'6'' / '6,<8 .7 E1'?'
?01.<7 0 ; ,4?6 1.>,40506 5.' ; , / ?'1'<7 5.41' 'V'<7>.'
/ '<>0'>.'5'' E.<071.' ''>. : ,16 ; .'=4 56 - ,45' .<7>.'54 8

56 / '1.?,<, 1. / '=4 '5' ' 7 =4 '6.'1.<44' ''5'' / '6,<
; , / / 4<. 8 .7 =4 5 3' '??,1707 5'' ?1, .0>41.' ; , / / .<; .'
?'1' % '41.58 .7 ; ,<7 ,40.'?'1' ' ; ;46'5.41'?405 ;' ; ,<51.'
'' ' #'<.7% ' ; , / ?'1'<7 5.41' 'V'<7 10?,<>4 =4.' ; .77.'
?1, .0>41.8 >'<65'=4.55. .'6 .41K'10068 ; , / / 6 '4 J1.EE.8
' - ' 5 070 . / ?5,V08 . ' 7> '<6 5.'>0?>7 ?405 ;8 ; .77.'1.?,<6.'
<.'6'7 6E57 ?, <7 ; .77.'?,?45' ; .8 =4' .@ J. ''=4 '5 >.6; .<>78
6'<6 =4, ' ,< '55' 7 .<E,<; .1'5'' ?,17.'>.'5'' / ' 6,<1 .7 ; , / M
/ .' . '6.' / .77' 7 .< / .641.'> .7E. ;74.1'6.6 / .<' ; .68 5.'
; , / ?'1'<7 / 7 6,< ; '0 7 .7 #47 ,4-1 11 =4.'5'' ; ,0,17.8 6'<6
54 '>,<<.1'5.7. / ?6'>.' / .771.'6.6 0'68 6.'6' 6 7>.'54 8 5.'
; ,<>4 6 '0 5' / ' 6,< ; , / / 4<.8 ,0 5'' ; .70 54 '>,<<''
4<.' .6; ,17.' ?,41' ' ; ; , / ?'J4.1' ;0.0 % K'10068 ,0 56 E4'
1.<7 64 - 6 ?'1'4<.'71,4?.'<, / 01.46.1 ; .' ; , / / 6 E47 E,1;0
>.'6.'5. - .1'>.6,< 5 7 ?,41'6.'1.<>1.' '4' J1.EE.'>4'71 04<'58
?,41' 5 -1.15'' ?1, .0>41.% 67 ; , / ?'14 8 K'10068 =4 ''
85 7 =4.'5'' <4 7>.1< 01.8 .<- 1,< / <4 78 % '5'1.7 ' .'
; , / ?'J<0%>.'<, / 01.'>.'?.16,<<.6 '1 / 0.68 6.'1.<>7 ;0.0
54 1 &07 ,< .71,4-'' ; ,4 ; :0>'<6 6,< 5 71 =4 '?106 ' - , 1'
E' 7 5. - .18 ,< '6, / / ''>.' 1. / .771.'5'' ?1, .0>41.' E'7.'
; ,<51.' % #'<.71 % '5'1.7 <'>7 / 0 / '=4 5 E'55' 7 5''
1. / .771.'0 ; .4@ =4' ' ; ' ; / ?'J<' .<71 .< ; ,<60=4;<; ;8
5 6.'1.<>7 '4' J1.EE.8 ' .' ; / ?'J<0>.' ; .77.'?.?45' ; .8 .7
1. / 7 5'>7.'?1, .0>41.8 ; ,<6 67'<7 .< 5''?5' '7.8 4<.' ; .?.
>.'>06 65. / .<78 4<.' '66 J<'7 ,< 0 70 / , <68 .7 4<.' <E,1M
/ '7 ,< ; ,<7.<'<7 5.6'>.?,6 7 ,<6>.' > @ 70 / , <68 0 % H''
0108 '< ; .< ?1, ;41.41'>4'1, 8 4<'>.6 '71,4?06%'

7>.7 ,47 ; .=4.>.6646'070>1.6605.'?106.<7-.10'5'=4,'
5.6>76 % K,46=4.78 K,47,<8 '5'1.7 .5 K'1006 ,<7 'E5 1'
/ 0 -0 5'05.8 ?,41'6.1- 1'.7 - '5, 1' ' <6 '=4 5 '??'17 .<>1'1
.7 ,<7 5.6>76 ?106 >.<7 .7 Q4J.68 ' ; ;46'7.41'?405 ;8 .75.6'
> 56 '5'1.7 .5 K'10068 6 J<0' - . ;'5.>7 ! 1'<.78 ; , / / 6 '4
J1.EE.8

, ; '4<.'5.771.'>.' ' ; ;46'7.41'?405 ;''4?1.6'>''
71 04<'5'>.'#'.<N

W ,46'' - .0 4 =4.'>.6 / '5E' 7.4168 '4'<, / 01.'
>.'6, @'<7.8 'V'<7 '' 5.41'7 7.'>.6 ?1,7.67'<768 >.'
71< 6 1.<78 ?.<>'<7 5''<4 7>4' '>.' ; .' / , 68 5''67'74.'
>.' ,4 6 '' 8 .5. - . .'641' 5'' ' ; . ,V'5.'>.'<,71.'
- 55.% .'5.<>. / ' <' U 5.' 71 04<'5 6 '66. / 05'' .7 '1'
1 7''=4.'Q.'?,4164 -1' 6'5.6'47.416'>.' ; .'>.5 7 ?4M
05 ;N'>.'64 7.'Q.'>,<<' ' / ,<'1. =4 6 7, 1.%7.<>'<5''
71'<6?,17 > 4<' ; , / / 66' 1.' 641' .' 5 .48 .7Q .< E 6
>1.66.1'?1, ; .6 - .10'5' .<' ?1. 6.<; .'>4' ; , / / 66' 1.'
>4'1, % .'6,< ;37.8 5'' / 4< ; ?'5 7V8 =4 '?1 7641'.55.'
>.' E' 1.' .<5. - .1' 5.6 / . / 01.6 / 47 5.6'>.'#.77.'67'M
74.8 .<' >1.66'' 0J'5. / .<7 ?1, ; .6 - .10'58 ?,17'<7
=4 5' / .'6.1' 7 .<-,V0' ?,41' - '5, 1' > <,<; '7 ,<
.7'E' 1.'5.6'?, 164 7.6 .<' ; ,<6.=4.<; .% .<'E46 <'
E,1 / 08 .58 .' 8 Q 0;1 - 6 '4@' ,EE ; .16 / 4< ; ?'4@
=4 8 5.'98 / .'E51.<7 .<-, '>.' ; .'?1, ; .6 - .10'5' - .;'
4<.' 5.771.' ; ,<7.<'<7 4<.' <,4-.55.'1. =4 6 7 ,<' >.'
?,4164 -1.% .'(8Q.'>,<<' ' / ,<'1>=4 6 7, 1.'7.<>'<7
77 <E,11' .18 .7 / 6 ' ;5.' '4' J1.EE.'>.'5''>.<,< ; '7 ,<1
5.6')' .7 *8Q.' E 6 .<7.<>1.'>,40.'7. / , <68 .7 >.6 ; .'
/ , / .<7 5.6 ; : '1J.6 .7' .<0'64EE 6'<7.6 ?,41'>. ;1. '
7.1'>.'?1 6.'>.' ; ,1?6'=4 '71.'>.6 ; : .E6'>.' ; .7 '771,4 '
?. <.<7% .'6, 1' / / .'5. ;540' .<'E47 <6714 71 / ' 6
; , / / .' ; .77.' - , .'>.'E' 7 ' - ' 5 H H ?1,Q.7. .8 ; ,<6. 5'
5. .' .7 ; , / < 6.'?'1'?'17 .'>.'6.6 / . / 01.68 5 .<-,V''
4<.'>5?47'7 ,<'7 / <574.46.8 641'5.6'<.4E 0.41.6 .7
>. / .'>4' 6, 18 ;0.0 .'?1.6 >.<7>4'71 04<'58 ?,41'
54 '>. / '<>.1'>.'1. / .771.'5'' ?1, ; .>41.8 6,46'?. <.'
>.' - , 1'1.<,4 .5.1'641' 6''757.'5.6 6; .<.6'> : ,11.7 1'
>,<7 5.'6,4-.< 1' E' 7 E . / 1% .'?1.6 >.<7>. / '<>''
- <J7 =4'71.'0.41.6'?,41' '6 . / E 5.1' .7 ; ,<6457.1'5''
' , / ?'J< .%

W .' 547 >' 8 4<.'6. ; ,<>.'>.?47'7 ,<' - <7 '4
71 04<'5'>. / '<>.1'5'' 1.?,<6.' 1 .55.' E47 <71,>4 7.'
.< ;0' / 01.8 '4'5. - .1'>.' '4> .< ; .8 .75.'?1.6 >.<7
> 7 =4 . 8 ?,41' .- 7.1'>.'<,4- .'4@'71,405.68 ?,41'5.'
0 .<'>.' 5'' ?' @ .7>.' 5'' 71'<=4 55 7.' ?405 =4.8 5''
; , / ?'J< .' - ,45' 7 0 .<' ; .66.1'7,47.6 ?, 164 7.61
=4 .55.''55' 7 .<'>1.66.1'?1, >6 - .10'5.7.<' <6714 1.'
5.' ; : .E'>.'5''Q467 ; .% .' ;540'>. - ' 7 5 1.'6'7 6E' 71
/ ' 68 ; , / / .' 5 6 .67 . / ?'1>'>.' '47,1 7.8 .7 =4.5.

?,4-, 1'.@.;47 7.67?1.6=4.'<4 % ' ,.?47'' '.'<,4M
-.'48F-.16' 5.' ?1.6 >.<78'5.'Q.4>' U8 641'5.6' <.4E'
:;47.6'>4'6, 1I'5.6'? .;.6'E7 1.<7 1. / 6.68' .5'8O1E ..6'
>'<6' '66./O5..'>4' ;54O5'V ?5'7 ' <' >,<7'5.'7. / ?6'
>4'>.6?,7 6 /.'<.'E,41< 7?'6'> .@. / ?5.% #.77.';,<'
>.6;.<>'<;.'< '' ?'6' '66, - 5' ' <.' >.' ;# ?'17 8'
=4' / ' <7.?'<7 1. 7.7 J,4-.1<.'7,478' <.;,<<'77'
<'5, 68<'?, -,1% .<>'<7'5'' <4 78'5.6' / '5E' 7.4168'
>.J'J.6'>.6' . 6'> 4<.'?1,;.>41.' ;1 / <.55.8' '664M
1.6'>.'1 / ?4< 7.8'6.'6,<7 ??17.6' .<'E,45.';:.O' /, '
#1>;.6'4@' :,<<.7.6';7,V.:6'=4'6.'6.<7':1/.6?,41'
5.6'1.?,B66.18' ;<'64 6' =4 57.'?,41' / .6' - 51.6';'6'
6..6% @./?5.'O .<6;'<>'5.4@8' .7 =4'7.<>' ''<.'<'
7 1'5'' ?,17 ,<' > '47,1 7>' =4' / .67 ;,<5 >.'>'<6'5''
?'17 .'5'' ?546' <7.1.66'<7.'>4' / 67.1.%

W '';14'=4 5' .7 7>.' / ,<'>.-, 1'>.'-,46' <E,1M
/ .18'<,<'?,41'<'.771.'4<'7.11'.''7 @-.@'7 ,<6'>.';.6'
,; .7;6' =4'<.';,<<' 66.<7 ?'6' / >/.' d' 7,1 7.'>.'
66.1'O5..'<'7 ,<'5.8' / ' 6'6.45. / .<7 ?,41' ,46'
1.<>1.' ;, / ?5.'>.' / '';,<>4 7.% ''-7' <.'-, .'>.'
E' 7=4'1.<E.1/ ' 7 1, 6'>.O76'?4O5 ;6N 7,5''>.6714;M
7 ,<' > 4<' / ,<4 / .<7 =4.'5.6' >.;1.76' '-' .<7 / 6'
6,46'5''6' -.J'1>.'>.Q''5, I' D4<'771,4?. / .<7 ''
/ ' <'1/.;I' G 4<.'1.O.55 ,<'E' 7.''4<.'?'71,4 55.8'
=4 ,<' '' E,1;;.' >.'1. / .771.' >.4@' >.6' / '5E' 7.416'
=4 .55.' '-' 5' '11.7.6% ''>4'1. / '1=4.1' ;7 ?O4164 '
-1.I'H'11>7.'>.'5'';, / ?'J< .8'5''>. ,<; '7 ,<' >.'5''
/ 4< ; ?'5 7.' / .<'41' .?7 / ?,6.'5'' 5, 8'6'Q '-' 6'
?4' ,4O5 .1'5.6'>.-, 16'>4'< < 67.1.'=4.'Q.'1. / ?5 6%Y
''5.771.'64 -'<7.' .67 >4' > 1.;7, 1.' >4' >.?'17.'
/ .<7 >.6' K,4;:.6 >4 : 1.N

K' *('+- $*$',.+,$ *' +'5 $' *'*('4(*'.(4. 36('
5 *'-(O ((*,''+*'') .*(''+ 2' $' +*(%(''-'
4 O $.'3 *',$, +* /'5 $'*+'3(''-' - (*'#+$.(' +' .(!
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' ('/ 5 (' -(' '$ 4 ('' 4+.,$3 $(.'' *+ .+$(*,' 4+''
' 44 .,3('' ' '' (' -('4 ,$' (' -(' + 3$(*' . $*$('
''+O *'' 6 **(.' -(' O ''+-.(''(.'3 $?$(' ('
. (' - *(' -.(''('4 .,+(' +' * ,.(' -$.(3, $.(' 4+.'
-(2%- 4 , ''-' 3)'4+#.$,$5 (' -(' +.'($ (' ('
3+ *$('/ -(''$* .('/ -('' (*+3('' 3 4+% $('/
O $(', ,'3(' 5 (' O '',$% O(.(U -+*''3(,'-3.$,'$*1
3 *',$, ,$ **(

$' ,46'<.'>.-,<6'?'6'-,46'> 66 / 45.1'=4.'5.'?546'
'1>.<7 ?'71 ,7 6 / .'<.'?.47 6.'E' 1.' ''>.6''71,; 7.6'>.'
;.' J.<1.I'5.6'71'-'<@8' 5.6'>>6'J1. / .<768' 5.6'>'<M
J.16'<.'6,<7 1 .<' '' <,6'V.4@N'<,46' .<'E' 6,<6'5.'6'M
;1E;.' ''5'' ?'71 .' I' / ' 6' 5 ,<<.418' 5'' ?1,O 7.8' 5.'
?'71 ,7 6 / .' / .;,<<4'E 7;'5, / < .8' . .67 4<.':4 / M
5 '7 ,<' =4.'<,46'<.' ?,411 ,<6'>.-,1.1' ?546' 5,4J '
7. / ?6% $

Q *(' +$*'3 4+) (' (,'3+36 (' * '' 4 .' $,;
O 3'* ,.('3.$ (' ''+O *''.-'$',-'+O(3' #(. (,-'
' , '' ('' #+3,$(2D * ''+O *'' .(4 ''-' +O(3'6 .!'
.(.' (''4.$*3$4('' - ' .(4) $3+*$' (/ ('' (2(('' -('
+*+.36$(7 * ''+O *''-(* *3(' +))(' $O('/$*',$!'
9+,(.-('' (2(#('' 4 4 +$.(''(,'4.(-$3+*,'$*3 *',$, !'
,$ **(

W 'OO>' -.8' >.;1.7>'>.'?1 6.'>.';,,1?68' '' E4' ''
'16. 55.' I' 5' V' '' ?1>6.<7>' <,71.' '>/ < 671'7 ,<'
;, / /.'5.'1.;.?7';5.'>.' '1 67,;1'7 .% .'J1.EE .1>.'
.7'4@' '-' 5' .@ J.' *'5 -%> 4<' ;7,V;<' ?,41' .@71' 7'
> 4<.' >.5 O>1'7 ,<' I' ?,41'5.' O,<:.41' >4' ?.4?5.8'
<,46' '-, 6' E' 7' ,1>,<<.1'5'' 1.67 747 ,<' >.' ;.' 641'
.@ J>% 'OO>' -.' ''E' 7'>.';.7 ';7.'>.'Q467 ;.'5.'64'
Q.7'> 4<'5 O.55.';.<71.'<,71.'> 1..7? 1.I'<,46' ''-,<6'
>.<,<;>' 'OO.' -.I'<,46' '-,<6'1.<>4' ?4O5 ;6' 5.6'
/ ,7 E6' >.'<,71.'>><,<; '7 ,<% .6'>.?47.6'>.' 1,1'
-.<;.85.' / < 671.>.5'%Q465 ;. .7';.54'>.' <7.1 .4188'
1'> / < 651'7 ,<' >4' >.?'17. / .<7 >.6' K,4;:.6 >4'
K5 <.8' 7,<6'5.6'> 671 ;76'>.';.'>>?'17. / .<78' 7,47.6'
5.6';, / / 4<.6'>.'<,71.'> 671 ;78' ,47 ;,<7 / '5.6' / ,M
7 E6' .7'5.6'?1 <; ?.6'>.'<,71.';,<>4 7.%

G .' / > / , 1.'>.' % d'OO.' -.8'6,<6'5.'<, / '>.6'
,EE ; .16' / 7 < ; ?'<@' >.' .7'4@8' < '' ?'6' E' 7' .EE .5'
;,4?'O5.'=7 ,<' .<''77.<>' 7I' ,<'<,46' ''E' 7>><,<'
;.1' '5,16'?'1' ..6' / > / .6' ?.16, <.68' '<' ;54O'>.' '1M
6. 55.8'<,<'?54]'?,41'7,47';.'=4''-' 5'E' 7'-' <. / .<'
,OQ.7 >.6';5' / .416'>.' 'OO>' -.8' / ' 6'?,41'41'
'-6'>,<<>8' 5'V ''6.?7 / , 68' .,<71.'5.' .41' K.15 <'
'> / < 671'7.41'>4'> 671 ;78' .7'5.6' ,EE ; .16'>.' .7'4@%
:E <8' .<'>. ;. / O1.' (* 85.' #41 >4'5 .4'6.'?1.6.<'
''<,71.'>1.;7, 1.''-.,'; <=4'<7.' :'O 7'<76I' 5'<,468'
?1. 6.<7'' 4<'1'. , 1.' >'<6'5.=4.5' 5'.@?,6,1=4.'>.6'
?'15 .45 .16' 'V' 7' '' 5.41'7.5.' 5.' <' 1.' .5' ,EE ; .16'
/ 4< ; ?'4@'>.' .7'4@8' .7 % K.15 <8' >7' .<7 -.<46'
6 . / ?'1.1'>.'E,1;.'>.'6,<' 6'5,<8' ?,41'V' >7'O5 1'4<'
;54O% # <=4'<7.' :'O 7'<76' '77.67.1.<7'5.'E' 7I' 7,<6'
<,46'> 1.<7 =4.'5.' ?546' J1'<>' >;6,1>1.' 7' 7' '' .M
7'4@8'6' <,46' * 8'?,17 ,<6'?1, / ?7. / .<7 1. / .>.% ''
71'<=4 55 5>' ? O5 =4.' .@ J.' 7' 4<.' >>7.1 / <'7 ,<'
?1, / ?7.I' <,46'>,<< <=6' '-6' 7,47 >.' 64 7.'?,41'
/ ?1,4-.1'5'';,<>4 7.'>.6' ,EE ; .16' / << ;=P'4@' .7>.'
% K.15 <8' ?,41'5.41' <: O.1'>.'6 . / ?'1.1' ?'1'5''
E,1;.'>.6'?1,?1 .7.6'>.6'?'17 ;45 .168' .7'>.;5'1.1'=4.'
7,47.6'5.6'?1,?1 .7 6' .7'5.6' ?#16,<<. '>7' .1 7 6,46'5''
6'4-.J'1>,'>.' 5'' 5, % .'>.?'17. / .<7 ?1 7'5.' / 9 / .'
Q,41'4<' '11J7.'=4'1.7'O5 7'5'' ?' @'' .7'4@%

& (' #3(.'' *$3$4+ 2/ *$' ' ''(.,$*/ *(' ' -!'
,+$(*,' + +$'' 4 +$*,'' -('3(,,('$ 4.)+,$ *7 $$'' * +!'
O+$(*' + +$'' .(3 + ('3(*,.(' +33 '+,$ *'9.+O(' - *,'
$ '' (,+$(*,') (,' (4,' $'' +4.('' +O $.'3+ *$-'
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,.$)**+ 2/ +$'' +' *' 3) / * '' - * *((.'3 ('
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6 .'' -' -$',.$3,/ 4 .' (,(.' - ' -(3 .+9((*,' (,'
(. $ -+*''#' (' -(''+- $*$',.+(*.'7 '' ('4 !'
.''5 (' * '' 4 +$*,(' 6(' '(. *,' 4+'' O+ ('/ 5 ('
* ''(. *'' *(' # $''4 . ,('' +' +).$ - *+.!'
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+..#$ (.' ('' (23$'/ *('3 4,('4 '/ ('$(.'/ '' '
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-.(/ +O(3'$ 4+,$(*3(/ (' (*,' 6'$' * *''('(.+'
4(. $''-(' * ''--36+.9(.' - *'#+.-(+$$+ ''$'+33+!'
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D '' O '' (*O 8 *'' 3$! 4$*,D +' 3 4$(' - *('
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+' *',$, ,$ */ - $2'K

G ' O ', ' ' ' ' ' O, *
' ' A A: ' ' A
' ', ' ' 'G ' 'F

I' .66 .4;68' ,?< ,<'?<O5 =4.>.?4 6'5,<J7. / ?6'6 #5 1.'
'-.;'E,1;.';.<71.'-,46' I' ; .67 .55.'=4'?,17.'71#6 6,4-.<7 '
<, 1.'71 O4<.'5.6'?5' <7.6'>.6' <E,1 4<.6I'?'1/ ';.6'?5' <M
7.68';.55.6>.6' '<7 ?,5 7 =4.6' ;7 >.5'' / 4<;?'5 7.'>.' .M
7'4@'<,46' ,<7 6417,47-1. / .<7 <7.1.66#6% .<4 / #1'7 ,<'
>.6' / '4@' .7 >.6' / .<';.6' =4.'5.41' ,<7 ` 6'>.6' .<<. / 6

C

5 $ "%$,+$(,' --' 0 ,#(' +44 $'(,' -(' 3($ - ' -$.33,($.(' - '
-(4+.,((*,' -(" " 3)('!- ! 6G*(< 4. 0 5 (*,' * ,.('
',(' $$ $9*+,$ $?' $/ ('$(.'$ (',!3('4+.'< 44.("$ */
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$*9.+," #+''(*,' '(.0$.' + , .$,-' 5 $ - .'(',, "#$-(')' --D'
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L$+" ($$# $.' -+*" +*,.(' - *' 3 $,-

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9 0 $.(' 36+.9(/ 3(''(.+$,' *(' $ $,$ $,-7 3+.'5 $ $(2' 5 ('
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4 " -,.(' +' 0$3,$ (' -(" +)$,$(27 '+' 0 $2'(.+' .('4((,-(/%
' -3)+*,5 $',8.+**$'(3.('($! - (+) (5 $.(*!'
9 ,$.+7 * " --3+. *' ')' +'#+3(' - ' -('(,' -('?+' ,(..(7
5 (''$ 0 +' *(.(*.(U -+*" (" $ $,(" -(' +' 3 *',$, ,$ */
* ' (" 4.-,")' +' -(#(*-.(/ - ''$ *'!* "#+$." ("
4 " 9.+*-" '+3.$#$3('7 * " -(3+. *" + ' 3 * .+$.(' 5 ('
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-.(''(' 4) $5 (' -+*" , (' --4+.,((*,/ (,' * "$*0$Q!
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(' ',$3('(2(4 +$.('Q
%' ' ' ' ' ' 'Q '-' 6'71,4-.'>'<6'
5.6 / ,V.<6' ,1> <' 1.6' >4' J,4-.1<. / .<7 >.6'1. / . '
>.6' " >.'?'1. 56' .@;.68'Q .<' '4-' 6 .?'1J< '5.' " ;Q5 "
66. / 05..'<'7 ,<'5.I' <' 6'7,46'5.6'?,4-, 16'J7,. 68'
.<71'-.6' >'<6'5.41' / ,4-. / .<78' 5.6' 71 04<'4@' .7'5.6'
;,1?6' '> / < 671'7 E6>.;,41'J.68' - 5 68 <7 / >. 6' ?'1'
4<.'64 7.'>.' .6?1 7 =4.' / '< E.67.<7 =4.5=7 .6\ .6'
>,' ;.6' ,; >7>68' 6,55 ; 7.<7 '77.<7 ,<'>.' 66. / 07..'
<'7 ,<'5.% ' / ?,17.' =4.' 5" / '> <.'>4' J,4-.1<.M
/ .<7 / '1;:.' .<5 <8' '4' / , / .<7 ,4' 5" ; ,<67 747 ,<'
.67 ';:.-..I' =4.'5.6' 71 04<'4@' ?4 66.<7Q<J.18' =4.'
5.6' '>/ < 671'7 ,<6' ?4 66.<7 '>/ < 671.1I' .7' 5' .67'
/ ?,66 05.' =4.';.' 0 .<' 6 ,?.1.8' 6 ' >.6' ' ,; '7 ,<6'
> <> - >468' =4 ' <.' ?.4-.<7 .7' <.' >, -.<7 '-, 1'
=4 <.'E,1;.'> ,?< ,<' <E < / .<5' 47 5.8' 6 1 J.<7.<'
;,1?6'?, 7 =4.6' .7' .,<67 74.68' 6 >7'05 66.<7<,<G6.4 '
5. / .<7 5.6' 641-. 55'<76' .7'5.6' ;.<6.416>.6'Q4J.68' >.6%
'>/ < 671'7 ,<68< ' 6' .<;,1.'5.41664?>1 .416.75.416'
/ ' 71.6% .'>, 6' > 1.' " 66. / 05..'<'7 ,<'5.' =4.'5.'
1.1<.>.' .67E' ; 5.I' =4 4<.'0,<<.' <6714;7 ,<' .67?.40'
>71.'6;45.' 67 EE 6'<7.% '' -4' ?'1'1' " ; ,11.6?,<>'<;.'
=4 5' 64EE 1. 7 >.' 1'??;5.1' " ; .6' ,; .7 6' ' -1' 6'
?1 <; ?.68' ?,41' 5.6' V1' / .<.1' ?'1'5"1' 6,<' .7 '6 '
;.<>'<7 >.' 5" 5, % ' '1.<>4' ; , / ?7.' >.6' E' 76' =4.'
Q.' <.' ?,4-' 6' ?546' > 66 / 45.1I' / .6' ?1 <; ?.6' 6,<7
'66.0' ;,<<46' ?,%41' =4 ,<' <.' / .'6,4?=,<<.'?'6' > '7 '
7'=- .1' 5.6' ' / 6' >.' 5" 5 0'17.% '57'=4.' 5.6' .<<. / 6'
>.' ,1>1.8' 5.6' .<<. / 6' >.'5" ?' @8' 5.6' .<<. / 6' >>'5"
5, ' .7 >.' 5" ; ,<67 747 ,<8' =4 ' 71, / ?.<7 .7 . J'1.<5'
> .@;.5 .<76' ; 7,V.<6% <.' 5, ' =4 ' ?1.- .< 1' 7 5.6'
.'156' .7 5.6' .@;.6' >.6' ,; .7.6' >.6' / 6' >.'5" # ,<M
67 747 ,<' 5.6 '41' 7 0 .<7,7.?41 .6% #'1' =4 V E.1' .<7
,16' 5.6' '17 6'<6' >.' 71,405.68' 6 56' 6'-' .<7 =4 56'
?.4-.<7 >71.'?4< 68' =4.'5"Q467 ;.' ?.<7 5.6' V' 7. '

>1.Z' =4 V E.1' .<7 56' 6 ' 5" 6'J.66.' >.' 66. / 05.'
<7.1> 6' 7 7,47.' E,1 / .' >.5 0.1'7 -.' " ;.6' '66,; 'M
7 ,<6' =4 ' < ,<7 > '471.6' ?,4-, 16' =4.' ;.54 ' > 4< < '
> - >4Z' .' <.' ?,466.' ?'6' ?546' 5, <' 5.6' 1.E5.@ ,<6%
66. / 05..'<'7 ,<'5.' 71,4-.1" 5.' 1. / .>.% .'>, 6'
/ .'0,1<.1' " .@ ; ,7.1' '-.;' 0.5.8' '-.;' ; ,41'J.8' .7Q.'
5.' E.1' %
41' 5"1.=4 7.'>.'5" ,; .7.'>.6' / 6' >.' 5" #,<M
67 747 ,<8' 5" :'47.' ; ,41'<'7 ,<'5.' '-' 5' ';;01>#' >.4@'
?5' ;.6' >'<65.'71 04<'58' .5'4' / 5 .4' <. / .'>.6'Q4J.68'
" >.4@' / . / 01.6' >.?47.6' ?'1' ; .77.' ,; .7.' ?,41' 4'
6?.;7.1' 5.6' ,?.1'7 ,<6' >4' 71 04<'5% <6514 7 >.' ;.'
E' 78' Q '' ..1 7 '4' 71 04<'5' =4.'Q ;5' 6'641?1 6' =4 5' ;47'
?1 6' ;.7 '11>7.' 6'<6' / .<' <E,1 / .1'Q 6" 1.?, 6.' " .5.'
5"1.-,;'7 ,<' >.'6,<' '11.7.% 6 E

%

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5 (', ,(" (" 0$3, $.(" -(' +' $) (.$(' (' ('' 4 "9 .$(2' (0(!'
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.(4.('(*,(" ' .' *(#)+'!.($(#" 5 $' -$0$'(*' +' 3($3' (*'
+ ,+*,'-(')+*-("3$.3 +$.(" (,' 6 .$U *,+ ('' +' ',+, (' -(' +'
$)(.,('3 . **(' *' ' .* (,7 -(")+'!.($(#" (, -(" .(4.(1
'(*,+,$ *" + (9 .$5 (" -(' +'3 *',$, ,$ *' -(3 .(*,' '+')+'(/
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3 $$3 . '+' .(,+)$%$''((*,'-(' +' $)(.,(
(' * (*,/ - ',$*-' +' '(.0$.' -(' 4 $*,' -(' 3(*,.(' + '
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4$(-" -(' 6+ ,(.' +#,$6$,(3, .(' (', -(D +' 3 4 '$,$ *' -('
').(/ - *,' (') *'9 ',(",+ (*," *',3 ** "4+.' -("
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4.(" (') .(+ ' -(' ' (" 3 . $''+$.(" -(A$% *'( ),((' %

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3&' & \ 0/ . (' -(' $36($(' V' ' ' 8 A'
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2 / ,?#1" E1'55.' 6% M
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B%' .(4.('(*,+,$ *' F & ' 'G (' 4.-((--(' -3"
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C $0' E' ' ,,. $'$- (' 9('/$' $0/ BI' ' 7' 4+.5 (,/ B B F'77'
5 ,.$- ('/ B' $0 V ++.(''(./D4 .' +' 3+,$ *'-(" 9('/
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'717 . .5>-.6 .E ' @ 'E 17;:568 <; '5'' 1. d
J'1>.;, / /.'4<.>76?,6 5 ,''=4 4<6.;,<>'>>;1.7?,<11''1>
-,=4.18 >.'5'' / > / .' / ' >1.'=4.' ;.5, ; ' 1>-,=4.'5.6 >>\
;1.76 ?1.;.>.<76 ' .,<5 ' , ; . ' 1 66. / O5 ' <'7 ,<'56
.67 ?1.6=<.' . 75>1. / .<7 >>514 7. <'?.'7 '466' ;.<;.-, 1
=4.5=4.6 '=4 >74>.'' 641' 5'' >.67 <'7 ,< ><<.'E5,77.' '<G
J5' 6.' ' =4' '<7. ; <= -' 66.' @ '66. / O5>.' ;,5,< '5.
6 '66. / O5.7''>. / ' < ?,41' ?1.<>1.' 4'' ?'17 ,V.O
=4.55.'.67 / ''?,6 7 ,< .'<.'?4 6 ;, / / .<7.1'5.'>>;1.5 / ,<
>.-, 1 .67 >.' 1.@>;,5.1 / ' 6 Q ' / .1' 6 / .4@ 1>?'<>1>
Q46=4 ''5''>. / >1.'J,4 7.'>.' / ,< 6'<J =4.'>.'-.16.1' ;.54'
>.' / .6 ;,<;7,V.<6 .6 J.<6 >.';,45.<1'-,<7 ?1> .<>1.'=4.8
?'1 4<.' ;,<6.=4.<;.<.;.66' 1.'>4 >>;1.78 6 6,<7 '> / 66
.6 '' 7,<6 5.6 . / ?5, 6 ! .75.' '66 / 5'7 ,<?'17' 5.''4@ ;5
7,V.<6 '';74.56 >.'5'' ;,5,< .8 >.'J.<6 =4'',<7 .<;,1.'>.6 ! A
1.6 .7 >.6 ?'1.<76 .6;5'-.68 ?.47 '<>'<5 1'5'' 640,1><'7 ,<
.6 / ,V.<6 >.- .<>1,>7 <;,<5.67'O5. / .<7 71'?'E' O5.6 ?'1
5'' 1.4< ,<>.'7,<6 5.6 O5'<;6 . ,'4<6.45 ?'17 .' ;1' <6 =4,
;.'>. ;1.78 6 5'<.67 1>-,=4>8 < , ; ; '6 ,<<.' .EE46 ,<>4 6'<J
>.' ?546 .416 / 55 .16 >.' ;7,V.<68 .7 =4.';.4@ / > / .'>,<75.
>>;1;7 '' .4 ?,41 ,O0.7 >.'E'-,1 6.1'5.6 <7>1> ' <.<>.- .<
<.<7 5.6 - ;7 / .68 .7;6

, f ''5.;741.'>.';.77.'5.771;' / .'>, :<.'
,;;'6 ,< >#'1. / '1=4.1' =4.' 5.6 ,EE ; .168 5.6 ;, / M
/ '<>'<76 c ,41 5.'1, '>'<6 ;.77.' ;,5,< .8 'E5 ; : .<7
?405 = . / .<7 5'' ;,;'1>.'O5'<; : .8 .7 =4.';.77.'5.771.'
/ .' ?'1'57 '4 / , <6 646?.;7.7. 4 1.67.8 7 V '' ; <=
/ , 6 =4.'-,46 '-.O >.;1.7.' .<-, '>.' ; , / / 66' 1.6
>'<6 5.6 ;,5,< .68 .7 ;.6 ; , / / 66' 1.6 <.6 ,<7 ?'6 .<M
;,1.' ?'17 6 ,' >. / '<>.'=4 5 6, 7 .<E <>,<<>'>.6
,1>1;6 ?,41 .'>.?'17 >.' ; . ; ,1' / 66' 1.6

A 6 ! %!&! ')) !' :)*!(C!'
!'$ &! !&! ' !'$ A !'C!' ! ', : ' !'&!'
!' , ' ' !' ! '3 # 'U &&! ') ')! ') +# !'
+#' % ' !' ! ! ' ' !') ! A #? !'
' , ' !F# !' ! ! ' ')!' #C! L!' '+#!' 'D F
*! !' ! ' #' * &&!' !' &!' ! '
) #(! '+#'&F !' !' ,< !' ' # ' $F=! !&! '
)# !

3 'A !'$ 'C#4'C, ') F ! ') #' !'
#' ! ' $$) ! ' !' '& !A ' &,! !< ! 4<
! !' !' ! A ! ' ! ' #: ! ' !')! !'%)' !'
< '4. O(#'+#!' !')!' C#!' ! ' $$) ! '>' ' ! '
)! #' '%!)' ')) !':)*!

,1.'48 ; >.-'<7 ' <7 1V8 >. / '<>.'5''?'M
1,5. ' 1' 1 ' '
< J1'<>'<, / O1.'>.' / . / O1.6 >.'1.@71 / .'J'4M
; : .'>. / '<>.' ,1>1.'>4 Q,418

' 'N .' V,46 <7.1?.55.' >.'> 1.'?,41 '
=4, ' -,46 >. / '<>.O ,1>1.'>4 Q,41

GGGN '1;.'=4.'5'' 5.771.'=4 '-,46 '' 54.' .67
5''1.?.7 7 ,<'>.'7,47.6 5. '> '71 0.6 =4 ' -,46 ,<7 .7.'
>.0 7..6 ?'1'5.6 ;,5,<68 ?'1;.'=4.'5.6 ;,5,<6 ?'1' 6 '
6.<7 6 .<7.<>1.'?,41 E' 1.'1>71' ;7.1' ;.'>.;1.7

' ; D 'N ' .67 'EE1.4@ =4 ,<-,46 ' 7E' 7 5.;M
741.'>.' ;.77.'? .;.8 7'<> 6 =4 ,<'.<';';:.'7'<7 > '4 '
71.6

' ' K 6 K 1f 66. / O5>.'E.1'' ; .'=4 .55.'Q4
1'' ; ,<-.<'O7.1 / ' 6 ' .67 >4 '>.-, 1 >4 ?1.6 >.<7
.@?5 =4.1'5.6 ;,<-.<'<;.6 >.6 ; : ,6.
'<Q4 <' 6 '' E' 7 4<.'?1,?,6 7 ,< ,1.'4
>. / '<>.' '' 1.?,<>1.' '' '<Q4 <' 68 '' <E,1 / .1
66. / O5..'>.'E' 56 / ?,17'<76 .'<.'?4 6 54 '1.E4M
6.1'5''?'1,5.

A 8 / - * ' 66. / O ..'<.'?.47 >.55O.1.1
641'5'' ?E..'=4 ' '' .7.'54.'=4.'641' 4<'1'??,17 >4 ; ,M
$,('# .67 >,<.''4 ; , / 7.'=4. ,1.'4 >, 7 ?1.M
6.<7.1'6.6 1.<6. J<. / .<76

&'N .' >. / '<>.'=4 ,< 1.<>.' ; , / ? .' .:'
/ / .'7. / ?6 ' 66. / O5..'>.6 / .641.6 4 ' ,<7 >E5
.71.' ?1 6.6 ?,41 '6641.1'1.@.;47 ,<'>4 >.;1.7 >4 '
/ ' 8 ?'1; .'=4.8 6 5 6.'71,4-.'=4 ,< <.4' ' 7 ?1 6 '4 '
;4<.. .7 =4.';.?.<>'<7 ,<Q.77.'5''E'47.'641'5.'>.;1.78
5 167 ..17' 4 4.'5.' / < 671.'>, 7 .71.'1.6?,<6'O5.

17 :5 K :6 :7 7 ,<6 .7 E8 - ,46 : '-;O &5'6 5''
1,5. 55.=67 ' ,1.'4
1';V ; ,<7 <4.
5.' 1.6 >.<7 / .7 '4''' - , @ 5'' >. / '<>.'>4 1.<M
-, ' '4 ; , / 7.
#.'1.<-, ' .67 >.;1.7.
.J<'4558 1' ;V8 . [0.558 K,.>.1.18.7; 8 >.'
/ '<>.<7 5'' ?'1,5.
5.'?1.6 >.<7 / .7 '4@ @ <.' / ,7 ,< >.'?'66.1
,1>1.'>4 Q,41
66. / O ..'>.; >.'>.'?'66.1 '' ,1>1.'>4 Q,41
G 'S ' 6 .<;,1.' E'47 5 6 . 1?5 =<.1S '
=4.5 ; , / 7.' ' 7 ,< .<7.<>4 1.<-,V.1 ; .77.' 5.771.Z
67 ; .'4 ; , / 7.' ; ,5,< '58 <E54.<;.'?'1 5.'?'17 '>.6
;,5,<6 O5'<;6 Z
8 ' ' ' ('& ' ' : ' ; , / 7>
>.6 1.; : .1; : .68
'N .'?1 .' 66. / O ..'>.6.' / .751.'
' ,1>1. .'>0 6 1.?1.6.<7.1' 5'' ; 1;,<67'<;.' 7.55.'
=< .55.'6.'?'66. ,1.'4''-' 5'5''?'1,5.8 1' ;V8
=4 ' '' ?1 6'5'' ?'1,5.8 <.' ''?'6 ' 'E' 7 ;.'1 ') '
?4 ? ,?1 =4.' ,1.'4 E>7 .<7.<>4 . [0.55
?1.7.<>'=< 5 ' 5'' ?'1,5.' .7 =4 5 ?'15.1'' <'5J1.5.'
?1.6 >.<7 'c''>6;466 ,< 6 ,<-1.8 ; .67 '' ,1.'4
'?'15.1' 5.'?1. / .1
66. / O7..'>.; >.'>.'?'66.1 '' , >1.'>4 Q,41
,1.'4 =4 77.'5''71 O4<.
5 '>.?47.' ' A- A !, & &' '
.'>. / '<>.' '?'15.1 641 4<'E' 7
' '2 ,46 <'-.O ?'6'5''?'1,5.
8 ' . ' ' '>. / '<>.' '' ?'15.1 641 4< E' 7
5 'N .'E' 7 =4.'Q.'-,4 ' 6 .<,<;.1' '
66. / O5..8 ; .67 =4 5 V '' > '471.6 ? .;.6 =4 ' ' ; '
.? / ?'J<' .<7 ;.55.6 =4 ,< -,46 '' 54.6 I ; .67 4<.'
7';7 =4.' '>1, 7.'=4.'>.'<.'-,46 5.6 .<-,V.1 =4.'5.6
4<.6 '?1:6 5.6 '471.6 .'E' 7 .67 =4 '?1E.6 5'' 5.771.'
,EE ; .55.' >.' K5'<;:.5'<>.8 5 .< .67 '11 ->'4<G
406#=4.<7.'=4 ' '<<, ;.'=4.' K5'<;:.5'<>.'.67
'5 .'54 / 9 / .'>'<6 '66. / O5..' ;,5,< '5.8 >,<7 5''
?1. / 1.'5.771.' <'<<,<;.' =4.'5'' ;,<-,;'7 ,<'8 .7
=4 ,3 V '' / X / .'?1 6 >.6 / .641.6 ?,41 646?. >1.'
.@.;47 ,< >.'-,71.'>#;1.7 < < ''?'6'54 5.6 >.4@
? .;.6 '5'' E, 6 ?,41'-,46 ' / .<.1' <6.<6 O5. / . 7 ''
<.'71'<6';7 ,<;7 ' 5'' 1.-,;'7 ,< >.'-,71.'>.;1.7
<E' 7;.'=4 ,< ?.47 ?,41 =4.' ;.'>>.1.7 <.' , 5 ?'6
.@.;47. .?4 6 ; <= / , 6 -,46 '-.O >>.1>7> .<-, '
>.6 ; , / / 66' 1.68 .7 5.6 ; , / / 66' 1.6 <.'6,<7 ?'6 .<M
;,1.' ?'17 6 ,46 '-.O -,454 =4.' 5'' <,4-.55.' ,EE '
; .55.'>.';.'>>;1.7 ?'1-5<7 >'<6 5.6 ;,5,< .6 '-'<7 5.6
5.771.6 ?'17 ;4B 1.6 : 0 .<8 / '5J1.'-,6 ,1>1.6,<'
'' 7.<. / .<7 64'1.7'1>.1' .<-, '>.';.'>.;1.78 =4 5 ''
7.'?1.;>>>'>.'?546 .416 6. / ' <.6 ?'1' 5.6 > '71 O.6
>.6 ;,5,<6 '<6;.' / , / .<7 ,4'5'' 7.11.416.'1.?'<>'
>'<6 5.6 ;,5,< .68 5 E'47 6 '-, 1 6 ' -,46 < '-.O ?'6
>'<6 5.' ,4-.'4 ,<>.' ' ; , / O'771.'5.6 / / .6 .<'
: . / 6 =4.'-,46 '-.O -' <;46 .< 41,?. .'>6 ; .6
->1 5.6 =4.'1 .<'<.' / .'E.1'' 7' 1.8 .5 =4 .Q '??4 .1' '
>.'7,47.6 / .6 E,1; .6 ?:V6 =4.6 .7 / ,1'5.68 ?'1; .'=4.'
Q.'5.6 ;1, 6 47 5.6 '4 6'547 >.' / '' ?'71 .
'&;Q >.-'<7 > 7 ' A F 3E' N '
,< '-' 5 -,454 / .<7.<>1.' > 'O,1>8 ,< '41' 7 . 7
?'17 .'>.6>;5' 1; 66. / .<76 =4.'Q.64 6,O5 J>>.'>,<'
1 .1 .< 1.?,<6.' ' K.J<'457 .' -,4 ' 6 'Q,47.18
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6; / O5..';,5,< '5.'.67 ; ,<-,=4.' '' ; ,J'<.8 <,<'?'6
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51.'J, ,57.'>,' ,71.'6'<J?,<1'5.' < ' <5 ,<>.'5'' ; ,<65 74'
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7,<6 6, / / .6 0,1<>6 046=' '?1.6.<78 >'<6 5'' ;1' <7.' > <\
.11, /?1.' '71'1'4@8 ''>/ 1.1'5'' 6'J.66.'>.'-,6> ;1.56
7 '5.6 E' 1.' .@ ;47.1'>.'5,47<, 1.'?,4-, 18
,46 '55.0 .<E<?1,K.<;.1 641'<,71.'6,17I<,46<.' ;5 .1'
5 ,<6?'6 '-,46>/,4-,1?'1'5.'1>;7>.'7,<6 5.6 6';1 E ; .6
c4.' <,46 '- <6 E' 56 >.?4 6 5''1 -,547 ,<N 5.6 '75.67'5 ?<6'
5,<,1'E,5.6 =4.' 5'' ; , / /4<.'>' '1 6 <,46 ''>,<< .6>.'
5,6 6.1- ; .6 6,<7 0, <7.6 '4@ '471.6 5 71.6 =4.' <,46 '5'
.<6 / .771.' 641'-, 1.' 041.'4 ,46 '-,46 E' 5 ; '=4.' <,46
5.- ,<6 .<6.1-'<7 5''?'71 ..75'' .'46.'>.'5''5 0.17 ' J<.0
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4<. < < 46 <<566'<7 '<,6 E1 1.6>'1 / .6>.'5'' J.<>'1'
<.1 .'<'5 ,<'5.8 -,46 E.1.0 5.'0,<:.41'>.'71, 6 ; ,<7=4'71.'
07,V.776=4.'5.'?546 ?41'?' 1,7 6 / .' <6? 1.8=4 '4;4<>'<'
I.1'4 '.EE1'V 68 .7 ?,41 =4'5''0467; .'=4.'-,46 5.<1' '41.0
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34'<7'' /,58 7,47..6 01'-.6 ; 7,V.<6 6,<7 / .6 E1 1.6 N
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'<78 .6? 1'<;.'=4.0 '41''>.'5.41'5' 66.E 5.'0,<7 .41'-..'
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,41'J.8 >,<7 0 '5>,<<5''?1.4-.' .<?,17'<78 5.' (04 55.7
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Y / .< ;1, 6 1.6?,<6'0 . .1 / .77.08 5.'?1 6>.4 8 704 ;<
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' & .75.'0'55.7 >.'& ')
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'.7>.' '% ' : ' ' ' ' '
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>.') ' / 55 ,<6 '-.,' 0455.7 <68 1' 8I ' G
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;78 <,4 2 3 5'>.6 C)8 98 ' ' QQ
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Ď WPG F ʿ WFʿ . ' ʿ BHTB/ + ʿ < (ʿ ʿ ʿ ʿ

3 %

ʿG ʿ ʿ ʿ + ʿ ,17.ʿ- .<7 >.ʿ 1...-, 15" <,41.55.ʿ;.17' <.ʿ> 4< -.<.7<.<7 =4.ʿ1 .< <'G ʿ5 ?4 E' 1.ʿ?1.-, 18 .7 =4 ʿ Q.75.ʿ 5" ; ,<67.1'' 7 ,<?'1 / ʿ 7,46 5.6 / 4645 / '<6% '.ʿ71 04 '1'0.8 E,1 / '<7 ;,,=4'<7.ʿ1, 55.ʿ; , / 0'75'<768 6 .67. / ?'1 .8 > 7 ,<8 >.ʿ .;=4.\.< ?5 >5,4]ʿ5." 1.6,168 .7 " >>?,6>ʿ5.ʿ60>1 EE8 =4 .55.ʿ " 1. / ?5' ;.ʿ?'1 7 <ʿ>.ʿ 6;6 ;:.E6% ";'1'-'<.ʿ =4 ʿ?'1 7 7,46 5.6 '46 >.ʿ #,<67'<7 M <,?5.8 .7 :ʿ5'=4.55.ʿ6.ʿ1.4< 66.<764;;.66 - . / .<7 5.6 71,4M ?.6 >.ʿ?.5.1 <6 ?'< 6 >.ʿ7,46 5.6 ?, <76 >4 / ,<>.ʿ / 4645ʿ EE5'<8 6 .67 '11.7>..< V1 .8 ,6'<7 ?,4164 1.ʿ6" 1,47.% ʿ" >.Q:ʿ.7.ʿ7.<4 ?5 65.416 ʿ641 ;.7 ,0Q;7 >.ʿ5" ?546 :'47.ʿ / ?,17'<;.8 .75 ,<ʿ'77.<>ʿ'1.;ʿ <=4 .74>.ʿ>;6 >.7' 56 45 1 .416 641;.7 >51'<J.ʿ.-.<. / .47%

! %

ʿ: 8 ʿ ʿ ' ,>7 (* % +ʿ ʿ ʿ 0@ ʿ=4ʿ ".7;ʿ1. / 6 5.— ', :78 :ʿ6.?7 : ,41.6 .7 >. / ʿ>4 6, 18 ?'15" ;:'<;.55.1 .ʿ>. 'V.<;.8 ʿ % .V ' / 8 ;, ; / ʿ / 66' 1.8 .< '06.<;.>4 ?1 <; ?'5 ;, / / 66' 1.5.ʿ?1 <;.ʿ >.ʿ " ,41 '@ 68 .7 =4 ʿ" >ʿ>.@?>>ʿ>ʿ.ʿ / 7 ;.41.6 .7 >. / .8 5.ʿ6, 1 >4 / > / .ʿQ,418 ?'1 4<.ʿ.67'E;77.8 ʿ. / ʿ ?.1.41%

.6 ; ,<6. 5.168 ' / 0'66'>.416.7,<-,V>6 >.6 > ,;7.4168 ?1 <; .6 .7 7'76 '66. / 05>6 .< > >7;8 ,47 5 ,<4.41 >.;, / ʿ / 4< =4.1'4 ?1 <;.ʿ#:'15.6 <6.5 / .ʿ>.ʿ " ,41 '@ 68 ; , / / 66' 1.ʿ?1 <; ?'5 >.ʿ . / ?.1.418 ';;1>> 7> 7 5" > >7.8 ;.ʿ=4 '64 7N ʿ>>;1.7 >.ʿ; , / / 66 ,<'>1.66>ʿ ʿ / ?1.'66. / 05>ʿ.< > >7.ʿ?'1 " '0.67>ʿ / ?>1 '5.8 5.ʿC9 '-1 5 (* 8 .7 ?,<>ʿ :ʿ5" > ;7'541.ʿ5.ʿ ʿ>4 / > / .ʿ / , 68 'V'<7 >7.ʿ / 6 .< ?1,M ?,6 7 ,<.7 >>5 0>1'7 ,<?'1 5.6 71, 6;,55>J.6>.ʿ / ?1.8 .7 5" > >5.ʿV 'V'<7 1.;,<<48 '-.;ʿ4< <7.1>7 -1' / .<7 ?'71 ,ʿ 5 =4.8 5.6 <, / 01.4@ >, / / 'J.6 .7?1>04>5;.68 '466 <046 ʿ 7.6 =4.ʿ;,<71' 1.6 '4@ 71' 5>68 ?,17>6 '4@ 7'76 > / ?1.ʿ .75. 16 'V'<56;'46.ʿ?'1 5.6 >>;1.76 >.5" 6, > 6'<7 66.<ʿ 05>.ʿ<'7 ,4'5.8 >.ʿ / > / .ʿ=4 :ʿ5.416 ?1 1 5>J.68 1.-.4468 5 0.1 .68 >1,556 .7 ?1.1,J'7 -.68 ,< .67;,<-.<4 4<'< / ;ʿ / .<7>.6 / .641.664 -'<5.6 N

1ʿ % % % 6.1'51>6 04 / 05. / .<7 1. / .1; >.8 ?'1 / ʿ ?1.ʿ.<;,1?68 >.ʿ;ʿ=< .55.ʿ" 0 .<1 ,<54 . / ?5,V.1 6,< <M 7.1-.<7 ,<?'7.1<.55.ʿ'4?1>6>. % % #% .7 ?,17.1 ʿ5" ;,<<' 66'<;.>.ʿ / ?1.ʿ5" 1>?,<6.ʿ>4>7 1, % G ʿ'??.15 64EE 6' / / .<7 ?'1 5" 1>?,<6.ʿ>.ʿ '>7.ʿ '' Q.67>8 5'=4.55.8 ʿ >7, / .1,.<7 J><>1'5 >.ʿ7,46 5.6 7'76 1.6?.;7 E6 >.ʿ / ?1.8 " >7>;,<;4.8 '4 / >?1 6 >.6 ;,<M -.<7 ,<68 .<5'<J<.ʿE1'<;' 6.8 ; / 0 ,< 5" H1'<;.ʿ.67 >5, ʿ J >.>.ʿ1>7'05 1 5.6 7'76 >'<6 5.416 >1, 768 .7 > ,E 1 1 4< >.>, / / 'J. / .<7 ';;.?7'05.ʿ.< :, / / .6 .7 .< 5.11 7, 1.% < ;,<6>=4.<;.N % G ʿ" >7>1>6,54 >.ʿ<.ʿ0' / ' 6 6.ʿ>>?'17 1 >.6 ;,<-.<M 7 ,<6 .7 71' 5>6 >.ʿ?' @ 6406 67'7 8 <, / / > / .<7 >;6 71' 5>6 >.ʿ .67?0'5 .8 >.ʿ / >14.8 >.ʿ V6 [8 >.ʿK'>.ʿ.7 >.ʿ .<<.1 0 .< :4 ;,<71' 1.8 > <607.1 E.1 / . / .<7 641 5.41 ,06.1-'7 ,< .@';7.% ,41>,<<.1;.?.<>'<7 5" H1'<;.ʿ4<.ʿ ?1;4-.ʿ;,K-'<;'<7.ʿ>.ʿ ' / ,<1 >.ʿ5" ?' @ >.ʿ5" ?'17 >.ʿ / ?1.J.1 / '< =4.8 ,< .67 > '0,1> 44'< / . / .<7 ;,>ʿ -.<4 =4.ʿI

% % % 6.1" 1.6?.;7 - . / .<7 1.=4 6.?'1 / ?1.ʿ.< ;,1?6 > '>1.66.1 4<.ʿ6.;,<>.ʿ5.571.ʿ71>6 6.1 .46.ʿ ʿ % 8 % #% 8 5'<7 .< 6,< <, / ʿ=4 .<;.54 >.ʿ / ?1.8 'E< >.ʿ 1.6.1-.1 5.6 >1, 76 >4> 7 / ?1.8 .7 '47'<7 =4.ʿ?,66 05.ʿ .<J'J.1 5.ʿ ʿ 1>6 #:1>5 .<ʿ ʿ.<.ʿ; , / ?,6 7 ,<% #, / / .ʿ >'< / [<65.6; 1; <67'<;.6,<7 7.55. / .<7 5.ʿ?546 >>6'671.4@8 .67>.-.<4 ?1 6,<<7.1 ?405 ;8 .7 ?'1 ;,< =4.<7>>?,4 5>ʿ >.ʿ7,45.ʿ6,<' ,7,1 7>.7 >.ʿ6,<?,<-, 1 64?1. / .ʿ.@ ;45 E8 ,< " Q4J>ʿ=4.8 ?,41 5.ʿ / , / .<78 ;.75.ʿ / .641.ʿ6.1' 7 :,16 >.ʿ6'76,< % I =4 .55.ʿ6.1' 7 / / .ʿ <'??5 ;':5.ʿ'466ʿ5,<J

7. / ?6 =4.ʿ .@.1; ;.ʿ>4> 7 ?,4 ,1 .@ ;45 E6.ʿ71,4-;1' 7 .<71.ʿ5.6 / '<6 >.ʿ5" 6, > 6'<7 66. / 05>.ʿ4'7 ,<'5.% < .67 >,<.65 / ?5. / .<7 ;,<-.<< =4.N G ʿ6.1'. / 1. / .<7'0'<>'<< ʿ5'6'J.66..7'4@54 ʿʿ / 1.6>.ʿ% % % 6 8 =4'<>ʿ.7 ʿ=4.5 ?, <7 4<.ʿ<.4-.55.ʿ .<71. / 6.ʿ' < #'5..7.EE ;ʿ;.ʿ?,411' 7 71.ʿ'?75 ;'05.ʿ'4?1 6 >.ʿ % E% % #% I =4.8 >.ʿ?546 N G ,46 5.6?4 66'<76 7'76 >.ʿ / ?1.ʿJ;1 / '< =,.8 <, / / / .<7 5.6 ?1 <; .6 ;:'1J.6 >.ʿ5" J'1'<7 .ʿ>471' 5 ʿ>.ʿ .67?0'5 .8 6.1' .<5 <-7.6?'1 5.416 / , 671.6 1 6 >'<7 ʿ " >5 7.ʿ6 <7 1.66.1 ʿ5" 0,<<.ʿ;'46.ʿ.7 ʿ '??4V.1% (p \ % % 6.1" 71 6 :4 / 0 ; / .<7 64?? .8 '4 <, / ʿ>.ʿ / ?1.ʿ.< ;,1?68 >.6, / <.18 6'<6 >.5' 8 % 5.6 ?1 <;.6 ;.4-,=4'?7 >.ʿ7,46 5.6 ;.1;5.6 >.ʿ?1.<>1.ʿ5.6 / .641.6 ;'<-.<'05.6 '4 ?1, / ?7 1 '7'05 66. / .5 7>.ʿ7 ,1>1.ʿ;,<67 7 ʿ 7 ,<<.5ʿ>.6 ;.1; . 8 .7 > 4< 5'7 1.6?.;7'05.ʿ> ' '= .% 7 >.> E.<6.% p < " 5" ;,< ',;ʿ>' / ʿ% % % =4 .55.ʿ-,4>1" 0 .<8 >.ʿ7. / ?6 .< 7. / ?68 >,<<.1 ;,<<' 66'<;.ʿʿ / ?1.ʿ'6ʿ 6. / 05 ʿ.< > 7.ʿ>4 64; 6 >.ʿ6,< .<71. / 6.ʿ'4?7 6 >.ʿ % % % #% 8 6.5,< 5.6; 1;,<67'<;.6.7 5" / '4 1.ʿ>,<7 .55;ʿ '41" Q4J ?1,?,6 >.ʿ ʿ E' 1.ʿ-'5, 18 '5 < =4.ʿ5" > 8 .< ;,<6.=4.<;.ʿ>.ʿ;.6 1.<6. J<. / .<768 ?4 66.ʿ?1.<>1.ʿ>.6 / .641.6457 1 .41.6?,41 '77. <>1. .047 =4 ,<6.ʿ?1,?,6.% *G 34, =4.8 >'<6 5" ?54?'17 >.6 ;.1;5.6 >.ʿ / ?1.ʿ J.1 / '< =4.8 ,<' 7 ?1 -.<4 ?'1 4<.ʿ;.<641.ʿ;5' 1 ʿ5" ;, / / 4<;'7 ,<>.6 B-1.6 .7 .;1 E6 6.> 7 .4@8 ,<ʿ" ;.?.<ʿ >'<78 ?,41 '5E.1 / 1 >'-'<7'J.ʿ5" 1'<=4 5 7;ʿ?400=4..7 >,<<.1 ?546 >. 6. / 05.ʿ'4@ / .641.6 J.< 1'5.68 Q4J ʿ ʿ ?1,?,6 >.ʿ64?75 .1 71 6 04 / 05. / .<7 % % 8 > ,1>,<<.10 7,46 5.6 ; - =4' E6 >.6 ;.1;5.6 >.ʿ?1.<>1.ʿ>'<65.416 ;.1% ;5.6 1.6?.;7 E6 5, 7.6 5.6 / .641.6 ;,<-.<'05.6 ?,41 5" ; <ʿ 6;'5 ,<>.6>76 ;1768 '55. / '<>6 ,4 71'<J.168;7 5" ?44 ʿ 7 ,<>.6 ?.16,<<.6 . / ?5,V .6 ʿ5.6 > 6 1 04.1% " ;, / / 66 ,< / ?.1 '5.ʿ .67 > / .<5 1.=4 6.ʿ?'1 7,<6 5.6 ;,<6. 5.168 ' / 0'66'>.416 .7 .<-,V 6 >;6 5.;5.4168 ?1 <;.6 ;7 \'76 >.ʿ / ?1.ʿ'66. / 05 6 ,<>5 7.8 >.ʿE' 1.ʿ ?'1-.< 1 ;ʿ=4.ʿ>.66 6 ʿ5" ;,<<4 66'<;.ʿ>;ʿ % % % 8 ?,41 =4 5 54ʿ?5' 6.ʿ>.ʿ5.ʿ1'7 5 .1% ' 60,<<.8 5.ʿ ' ' ,07 (* %

(ʿ (F +

L K %

ʿ (ʿ ʿ 4 ʿ +ʿ < - .<7>.ʿ?405 .1 >'<ʿ ;.ʿ / , / .<7 4<.ʿ> ? ;0.ʿ ʿ>'7.ʿ>4 ʿ>.ʿ;.ʿ / , 6I .55.ʿ'<ʿ <,<.ʿ4<.ʿ<,4-.55.ʿ ,1J .ʿ>.ʿ5" ?'17 >.ʿ % % %.<ʿ -.16 5.6 7'76 >.ʿK1'0'<78 =4 ʿ>, -.<7 6 66. / 05.1 .CC8 .7 7.1 / <.1 5,47.65.6 ' E' 1.6 1 6457'<7 >.ʿ5" 1 ,;75 ,<8 ;, / / .ʿ <>. / <7.68 >.7 .68 .7;% '1 4<.ʿ'471.ʿ>.? ;0.ʿ>4 8 5" ?1. / 1.8 '>1.66 .ʿ'4@ 7'768 " 5 ;, / / 4= =4 .ʿ< / 'J 671'5>.;,57.ʿ-55.8 '-.ʿ <Q,<;7 ,<>.ʿ< E' 1.ʿ?'17 '4@ / . / 01.6 =4ʿ;, / <,6.<7 5.ʿ ;,<6.ʿ5>.ʿ-55.I ʿ=4,S5.ʿ / 'J 671'5 6 .67 ;,<E,1 / ʿ?'1 0,6 1.6,547 ,<.<>'5.ʿ>4 9% % '00 ʿ ,4 68 -.<'<7 >.ʿ '1 68 < " ?'6 E' 7 4< 7,<J 6 Q,41 ; % B447 =4 5 '\7?'14 646?.;7 '4@ / J1'<56 &;'1 56 6,<7 > - 6.6 .<71.ʿ4@P8 ,<=4.ʿ6" / 66 ,<' 7 5ʿE';5.ʿ '1. / ?5 1% ʿ1.?1 6 " 1,47.ʿ>.ʿH1'<;.% ʿ .6 H1'<=' 6 / J1'<76 >,<<.<7.<;,1.ʿ'5" H1'<;.ʿ71, 6 6. / '4.ʿ>.ʿ1 ?7% % > 17, 68 % >.ʿ!4 ;.ʿ.7 % >.ʿ#'ʿ 5,<<.ʿ6,<7?'17 6 5.ʿ ʿ?,41 .<<.% ʿ?'1' 7 =4 5 V " > M -6 ,<?'1 / ʿ5.6 ;,<77. 1 -,547 ,<<' 1.6% .ʿ?.7 7 <, / 01.ʿ >.ʿ;4@ =4ʿ6 0,41<.<7ʿ.7 =4ʿ ʿ> 6.<7 ?547,7 ;ʿ / ? 6 ʿ 70% <.ʿ?'1 .<7 =4.ʿ> <-'6 ,<% % 5.ʿ?1 <;.ʿ>.ʿ J<.ʿ'8 > 7 ,<8 ,55.17 ʿ=<.5=4.6 4<6 > .< 1.ʿ.4@ 4< >.6.6 ;'67.56 ?,41 5,J. / .<78 % % .1;V > 1J.<7.'4 .67 '55 ʿ ʿ ,<>1.6% <,EE ; .1 E1'<;' 6 . / 1 ʿV .67 '55 ʿ'466ʿ?,41 ;;.7.1 >.6 ;.-'4@ =4ʿ>, -.<7 6.1-1 ʿ;ʿ=4.ʿ5.6 / J1'<76 '??. ,47 5.6 ;' / ?6 E1'<;' 6 > 5:ʿ.7% >.ʿ ,<68 .7;8%%%%

?5 %

ʿ@ ʿ< ʿ2 ʿ ʿ% ʿ ʿ (,ʿ+ʿ < 67

G ^< ' '.

9*

[illegible]

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,! ,.ˢ (ˢ .+,?4 ,J,ˢ -(ˢ ˢ +=$*ˢ (ˢˢ --3.3,ˢˢ ' $.-,$,ˢˢ ' ˢ ,.($$-$$',ˢ K

ˢ 6617<05..ˢ<'7 ,<'5.8ˢ,45ˢ6,<. 7 5ˢ>.6ˢ' J<075ˢ & ;1`7J=4 5ˢ6. ˢ?1,;.>'E7% ˢ :'7 ,7 >< ?'? .E ?,41ˢ ,4-.'4@'66 J<'76>.ˢ ˢ5 18ˢ ^46=4 ˢ5ˢ ;,<;411.<;ˢ> 4<.ˢ ,/ /.ˢ>.ˢ ˢ/ 55 ,468ˢ5.=4.5ˢ1.65.1ˢ> ?,6 ˢ'4@.;;0 #6-ˢ .7ˢ< .< 6.1ˢ1.5 1>=4.ˢ641ˢ4<> .1.7 6?.; '5>.ˢ 66./05.> 4'5 ,<'5.%'

% 66./05>.ˢ<'75,<' .8ˢ,4ˢ6.];,/ 7>6>.6ˢ <'<..6ˢ .7>.6ˢ'66 J<'76)>>;1 7.ˢ=4 .55.ˢ'47,1 6.ˢ6,<'1;: - 67.ˢ1.ˢ / .771.'4@;,/ / 66' 1.6;0'1J 6ˢ>.ˢ>1 J.1ˢ .7641-; 55.1ˢ5ˢ E'01 ;'7R,ˢ>.6ˢ'66 J<'76ˢ5.6ˢ'<; .<<.6ˢ&?1/ .6ˢ>4ˢ?'? .1ˢ>.6ˢ '66 J<'76ˢ> .5□□ 5 -% .7 '4>.66,468ˢ046=4 0 5 -%8ˢ?,41ˢ %=4.ˢ5.41ˢE'0 ;'7 ,< 6, 5ˢ;,<7 <<>.ˢ641ˢ5.6ˢ / / .6ˢE,1/.6 ˢP□;1 5.ˢ .< ,471.ˢ =4>ˢ5.ˢ?'? .1ˢ=4ˢˢ 7.ˢE'01=4 ˢ641ˢ >.ˢ<>41.55.6ˢE,1/.68ˢ> 6?,6>.6ˢˢ=4'710ˢU5ˢE,4 5 .8ˢ.5ˢ=4ˢ . 6 .8ˢ6, 5ˢ'4@ 7<'<45';741.6ˢ>.ˢ& ,417' E5 .7>4ˢ '1' 68ˢ 6, 5ˢ '1 68ˢ6.1ˢ1.E,<>4ˢ>'<6ˢ5.ˢ# -.6>.6>5.6ˢ/'7<E';G 71 1.6ˢ.< ?1.6.<;ˢ>.6ˢ;,</ 66'1.6>.ˢ 66.E07..ˢ<'7>G <'5;ˢ.7ˢ>.ˢ ..54ˢ>4ˢE, 5.6=4.56ˢ.ˢ >1.66.1,<7ˢ;,Yc,<7.\ˢ / .<7ˢ?1,;.6 1.10'58ˢ=4 56ˢE.1, ˢ?' 6.18ˢ' <6ˢ5 (ˢ5.6>7.6ˢ 4,4-.55.6ˢE,1/.6ˢ>6?,6>.6ˢU=,' 1.775ˢ1.4 75.7 '4@'1;: G -;6ˢ<'5 ,<'5.6ˢ

<7'5ˢ5.;741.ˢ>4<.ˢ5. 71.ˢ>4ˢ>51.;7, 1.ˢ>4ˢ>.?'17#ˢ / .<7ˢ>.ˢ 6ˢ#,16.8ˢ=> '<<,<;ˢ=4.ˢ6@#.<76ˢ0,5 / ;6ˢ>.ˢ J'1>.6ˢ<'5 ,<'5.6P'J 66'<7ˢ6,46ˢ5.6ˢ.1>1.6ˢ>.ˢ 7 ',50ˢ.7 641ˢ5ˢ1.=4ˢ6ˢ7,<>.6ˢ;,/ / 66' 1.6ˢ?.15.416ˢ>.6ˢ?,4-,16ˢ >.ˢ 66./07..ˢ,'7 ,<'5.8ˢ,<71.7405ˢU K'67ˢ5ˢ71'<=4 5ˢ 7.? 05=4.8ˢ=4.ˢ <554.<;ˢ>.6ˢ?1>71.6'-' 7 71,405..% +ˢ !<.ˢ5. 71.ˢ>4ˢ>1.;7, 1.ˢ>.ˢ>671 ;7ˢ>.ˢ '<5 ! 1,<6ˢ '5<,<;ˢ=4 ˢ;<71. ,1>1.ˢ646?.<>ˢ5ˢE,1/'5 ,0ˢ>4ˢ;,1M >,<ˢ>.ˢ71,4?.6ˢ.6?ˢJ<,5.68ˢ=4ˢ'-'5 :?'<>4ˢ '5'1/.ˢ '<,<;>.ˢ?'1ˢ5.6ˢ77,4-.55.ˢ?1#;>.07.6%ˢ +ˢ <>.ˢ %5.6ˢ6.;1>7'1.6ˢE'7 .;741U>4 ˢ54./ ,71.ˢ >'<6ˢ5.=4.5ˢ#E5<671.ˢ>.ˢ5ˢJ4.11.ˢ.@?,6.ˢ5.6ˢ> K;0 7.6ˢ =4ˢ1.7'1>.<7ˢ1,1J'<6'7 ,<>.5ˢJ.<>'1/.1 .ˢ<'7 ,<'5.ˢ .7>./ '<>.ˢ4<>.;1.ˢ.@?5;' E.764?? .EE5.'5' 1.>.ˢ5'7,ˢ 1.5'7 -.ˢU;.57.ˢ,1J'<6'7 ,<%

''3ˢ)$((ˢ .- * (ˢ(ˢ.(*0 $-(((ˢ + $.(ˢ+ 3 ,*$-ˢ $, $.($

ˢ/ ˢ /ˢ ˢ A- * 0, & 3ˢˢ A(ˢ-(+*-(ˢ $*$4.(''$ *-(ˢ+ˢ$',(ˢ-(ˢ @$3$(.ˢ.$,*%!D (ˢ (ˢ*(ˢ'(.+ˢ4+ˢ'+*ˢ *ˢ9.+*-ˢ'3+*-+(,ˢ+#$!D 9(+*ˢ4 .ˢ(ˢ4+''(/ +$ˢ ,$(ˢ4 .ˢ +0(*$./5 ,*ˢ .(..+ˢ -(ˢ9(*ˢ -(ˢ3$*5 +*,(ˢ+**((ˢ -(ˢ'(.0$3(ˢ(,ˢ -(24(%.$3*3(ˢ -,.(ˢ4 +3(%ˢ+ !-(''- ˢ-((''(ˢ9(*ˢ 5 $ * *,ˢ4+ˢ'(.0$ 3$*5ˢ+*'7

ˢ4 ,.+ˢ.(# . (.ˢ+ˢ $',(ˢ+3, ((ˢ'$ ((ˢ4.-!ˢ '3,(ˢ-(ˢ$*#.+3,$ *ˢ+ˢ+ˢ $/ ˢ *ˢ+ ,+ˢ+ˢ $ˢ +35$.$ˢ *(ˢ ,$(ˢ(ˢ(24(%.$(*3(ˢ4 .ˢ +0($$$.ˢ-(ˢZ+ˢ,*+D *$(.(ˢ- *,ˢ'(2(3 ,(*,ˢ0 ˢ-(3.(,'7 A(ˢ4. 4 '(ˢ(ˢ(*ˢ 3 *'(5 (*3(ˢ(ˢ4. (,ˢ-(ˢ-(3.(ˢ' $0+*,;

W 66./ .ˢ<'7 ,<'5.ˢ>#; 7.ˢ=4>ˢ5.ˢ6<671.ˢ>.ˢ5ˢ J4.1E.ˢ&01ˢ /?1 <.18ˢ6,46=4<' 4.ˢ1'7'5ˢ4,7<4'7E1ˢ J1'>.ˢ?'1ˢJ1'>.ˢ .7?'1ˢ> - 6 ,< .5ˢ>.?'17./ .<78ˢ>.ˢ7046ˢ 5.6ˢ,EK; .16ˢ<,/ /#6ˢ?,41ˢ5ˢJ.<>'1/.1 .ˢ<'7 ,<'5.P>'?1 ˢ 5ˢ<,4-.55.ˢ,1J'<6'7 ,<8ˢ.5ˢ=4U ;>7.ˢ>4ˢ<,/ˢ>.;ˢ;0'=<.ˢ ,EE>.1ˢ 5ˢE.1ˢ / .47 ,<>.ˢ6,< 'J.8ˢ>4ˢ7./ 76 >.ˢ6,<6.1M -;.ˢ.7>.ˢ6,<J1'>.ˢ>'<6% '<; .<<.ˢ /'1.;0'466#.ˢ ,4 >'<6ˢ '1/ .8ˢ.7 .7'7 =4 56ˢ.'01&' .<7 '-'47 7.'1ˢ<,/ M <'7 ,<%Y

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ˢ &ˢ ,ˢ (ˢ6+)$,+*,ˢ-ˢ* .ˢ-(ˢ . 4ˢ 3 *' (*ˢ *(ˢ.(% .+*-(ˢ5 +*,$,(ˢ- (+,$!-(!0$(!-(ˢ9(*$(0.(/ ,$.((ˢ-(ˢ@ +*-(ˢ (ˢ*$', .)0+$, -+) .-ˢ' (-(. (ˢ-(%'$.ˢ-(ˢ* 9 3$+ ,'#.+*3+$ˢ 5 $ -(+*-+$(*,ˢ *ˢ(*,.(4 ,4 .ˢ3(ˢ3 (.3(ˢ $$#$*$ '),$*.(*ˢ+4(. $'$ *ˢ-(*,.(4 '(.+ˢ' 1 9*(ˢ4 .ˢ-(2 +**((ˢ +ˢ#((ˢ9 *$$#+ ˢ(3D ((/5 $ +0+$ˢ3.+$*,ˢ5 (ˢ3(ˢ(*,.(4 ,ˢ*(ˢ* $'$'! '(*,ˢ+ /3 (.3(ˢ-(ˢ(+ 2!-(!0$(ˢ-ˢ. 8+ (/# ,ˢ +4.(ˢ (ˢ-(2 +** (', .3 (ˢ-(ˢ3 * (,,$ˢ5,(ˢ(ˢ(.ˢ (24 .,+,$ *ˢ)$(*ˢ $*ˢ-% ,.(ˢ-$,+,, (/' (,+$,ˢ+- 3 $$,.+$.(ˢ+33. (ˢ4+.ˢ3(,,((*,.(4.$,(ˢ ($.(4 ,ˢ-ˢ ˢ'' 9*(# ,3 *'(.0(ˢ*(+)ˢ$-) .(*ˢ-$*+*3(.,(ˢ*(ˢ-$##$.(*,(*,ˢ'' +,ˢ8+ (ˢ ($ˢ$ˢ;6-ˢ-+*ˢ((f 4 .,ˢ ˢ0(+*ˢ'9(*.(ˢ-(ˢ-$*$,ˢ ,ˢ**(D +9(ˢ ˢ $ ˢ-+9.$3 , .((,ˢ-((.3(/ (,ˢ -(ˢ +.$*(/* ,$ˢ0 ˢ+ 3 ,ˢ$*3 *8 ,$(6, ˢ3 ,$'(.0(. 3(,(*,.(4 ,ˢ'(,$ˢ(*3 *'(5 (*3(ˢ ,ˢ 4. (,-(ˢ- 3.(,5 $4.('3.$ˢ(ˢ4.(3+ ,$ *ˢ* 3(D '+,.(ˢ4 .ˢ4. 0$$$.ˢ, (ˢ+) -+*.(+4 .ˢ+ˢ4 . (,-3ˢ- -,ˢ- *,ˢ% ''(D) (.- **(.+ .*((*,ˢF-(+$*

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& (ˢ3+ *$('!0 *,+$.(ˢ3 *,.)ˢ+ˢ4.()$ ˢ-$4ˢ#*,D ,$ **+$.(ˢ4)$3ˢ(,3 *,.(ˢ+ˢ-.. $, .-((.ˢ$*,(*,$ *ˢ -+ ˢ (2(.3$ (ˢ-(ˢ(+.ˢ# (,$ *ˢ4(0(*,,.(- *3((ˢ 4 .'0(ˢ4+.3(2ˢ5 $(ˢ*'*,ˢ)(ˢ'd

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% 3 7 8 ' A- A/), & 3' .'>.' /'<;5.'=4.' 5.' ?1>,?<'<7-.<55.' 0 .< > =4;1' 5" ;,1?,1'7 ,<>,<7 5 .67 5.' ;:.E%

%77,K ? aK N .' / . f -']6'506E' 1.' < 7.1?.55'5 .' >4' ?1>,?<'<7% 34'<>0 '5>7 0.'?'15' 6>.' ..?@J4.' 5"=4.67 ,< ?7.1.66.8 ; .67 ' >1.'>.'5'J><>1'57>>.6 ;' 7,V.<6N ;.'6,<7P;]>1, 76>.'5"<'7 ,<=4.'0.'1>;5' /.' ;,<' 71.'4<'17 ;5.'=4' /.'?'1'E7 5.6 '57'=4.1% ,>6'>,<.'=4.' % '<>1>?'1' 66' 7 '.;,1>.1'5.'>1, 7>4<.';.<641.'6'54\ '7' 1.' .75 5-.' 641' 5.6 ';5.6%>'>/ 4 671'7 ,<f 6' '17 ;5.' 1; /?0 66' 7 ;.7 ,00.78 '5,16 ,<?, 11' 7>1.'=4.<,466, /' .6>' ;,1>f =' 6 7<.'5.'1.1'?5 7?'6%

34;67 ;'=4.'5" 5 0.17.'> . " .1;.1'5" ;.<641.'Z & < /41% /41.%P " ?4 66'<;.'>.6 ;;<<7>6 6>7,<> .55.'046=4 '?'1' .1''<66'5,<J7. /?6 =4 56 -.45.<7 .7 0 77.'5' 66.1' ?'15.1' ?.16,<<.Z .'>6 =4.' ;.75.' ;.<641.'641'5.6 ';5.6>'>/ <6' 71'7 ,<<.'?,411"?'6 6 .@.1; .1'6'<6 =4.8 .<-.174 >.' '1' 7>.'=4'-.46 .67 ?1,?,6.8 ,<<.'?4 66.'?,4164 -1.'5.';.<' 6.41;?< /.' ;'5, /<'7.<1% %' .@.41?5.8 << < ,671.8 ?'15'<7 7,40,416 >.' ?'71 ?706 / .' .7 >?1>1.'?405 ;8 ?.<7 4.571.' 4<.'<>J J?<.' ;?4?'05.'>'<6 .@.;47 ,4 >.6 5, " % 1.5'7 -.6 5" 'E.<6.'>4 1,0'4 / .8 .:71.5.<1'>.6 <7.55.' J1';.66.;1.7.6 '-.;'5.6 .? .0<6>4 >.0,16% .'>. /'<>.'6' 5.'>1, 7>4 ;7,V.<'6.'1 4 1'' " >1.' 71 /?>;65. / .<58 1.6 1.6?.;5<.46. / .<7N % 5.' / <671.' " <>J5 J.'>.'?,17.1' 7.5 ;,1?6>.'71,4?.6 641'5."E1,<5 01.6f 4<'41' 5 5'?'6 5" >1, 7>.'>1.8 6 5 < "5.' ;41'J.f '?.1; 6>'<6 6? ;<1' >4 5.4<?5'<'>.' ;,<6?1'7 ,< ;,<71" 5.'6'547 ?405 ;'I0 <' -5.' /.6 ,<;7,V.<6>5.' 411. 55.1% & < /41 /41.% .6 1 04<.6'??5'4> 66.<7%P

,>4<'471.' .@. /?5.% 3< J><>1'5 ?1>?,6>'05">.E.<6.' >.'<,6E1,<7>1.6 " .@>;7 >4<?5'<'>,<7 5.' >6457'7>.-' 7 >1.'>.'5 -1.1'5"<'7 ,< 07,<6 5.6 E5.'4@>.' ?J4.11.'>,G / .67 =4.' .7 .@5>1 .41.8 .'64??,6.'=4.'0 .' .7'>.6 <> ;.6 ;.17' <6>.;.' ;1 / .8 ;, /7<.'7,470, /7<.'>.'0,<<.'E, ' .7 ;5' 1-,V'<7 " ?<.< '-, 1f0.'<.?,411''>,<.'?'6 ?1,-, ' =4.1'5" 641-. 55'<;.' ?405 =4.'641'4<7.5 ; / / .'6'<6>1.' ?4<' ;, / / .' ;'5, /<'7.41' .'>6 =4.8 ?'1'5"<'741.'>.6 ; ,6.68 1 <5.<5 ,<>,'E' 1;5.' /'5 5,4;.'>.'6'?1>6 0 '.' 7 ,< />/ .8 =4 5 V " 4<.' ;,<<.@ >'6'>-> .<7.' ,<71.'5.' ;1 / .' ;,<6, / />'.75G /7.< ,<>4' ;1<5.8 =4 ,<<.'?,411" >><,<;.1' 4< >>557 >'>1<<671'7 ,< 6'<6 1 6=4.1' >>71? ?,4164 -' ;. / / .' ;'5, /<'7.41'>.6 <7.<7 ,<68

=4, ' 6.17 ;.77.'>67<;7 ,<8 =4 5 .67 6 '>5.'>>54>.1' >'<6 6,<46'J.' .<71.'4<>.07 ;, / / 6 .7 <7.<7 ,<0 6' ;.' < .67 0 J.<.1'5" ; .<641.'641'7,46 5.6 ?, <76Z

8 % #,<6457,<6 .@?.1 .<;.N 641' ;.<7 ';;46'7 ,<6 <7.<7>.6G ?'1' 66. /05>.'<'7 ,<'5.' .5.W/>/.' ;.<71.'>.6 ; 7,V.<6% =4'71. - J7>@ <.416,<51.67>.66'<6?1.4-.6% ' %K,<55> ;37 >7>>> ,<;>;, / / .'4< 0, / / .' />>5'<7 >.6 ?1,0.56 ;,<71.'5" ?'51 .8 5.' ;7,V.<,;5' 1-,V'<7 .70>>=4';<; 7 >.;,4-.17 5.6 <> ;.6 6'<6 .<>.;,4-1 1'.<;,1.'5.6 ?1.4-.6 041>=4.68 <; 5 ?'6 ?'66>?,41';'5, /<'7.41 Z & ,671 M 04<.6'??5'4>566.<5%P ,41' '??4V.1'5" ->17>>.' ;.77.' ,0M 6.1-'7 ,<8 0.'1'??.55.1'' .<J,4. / .<7 J><>1'5 .@; 7> .< E'-.41'>4 ?'71 ,76 / .' .7>4 >5.'>.' ;.7 ,K; .18 5.6> ,J.6 =4'54' ,47 .7>?1,>J4.6 ?'1' <51 J4.8 .75.6 1. / .1; .1' / ..76 />/,6 641?1 605" 6'J.66.'>.5 66. /05>,<' 0 '7;8 & <'??5'<> 58P ,16=4.'5.6 ;'<;.6>.' =4 5>6 <7 5.55;' / .<7 <;.15' <.6 .<E'-.41'>.' 4<.7>.' '471.'6V6>/ .8 0;' >. /'<>.8 6 5 '47 ?1 -.1'5"6,; .5>>. '-'<7'J.'64?1><.' ><<.';.<641.' 555 / 5>.'641' 5.6 0<;7 ,<<'1.6 ?405 ;6% .' >. /'<>.'=4.'5"1>>';7 ,4 ?546 ?1>;6#>.' '1,.0.E,4' ;'45>6, 5?1>E>0 ..'0 ;.55.%>4 ;, / 5>%

F' 87D<N ' < .67 ?'6>,45.4@=4.8 >'<'4<?'V6 ,> ,<-.<7>.6 / ;.4168 5" ;'5, /< .'>,07>71.' ?,4164 -.% .' ;, / 5> " ;.?.<>'<7 E' 5 4<.'>67<;7 ,< .<71.'5.6 &,<.5 ,4' '1.6 ?40 ;6 .7 5.' 6 /?5.6 ;0,V.<6% ' ,<;'5, /<.'<< 0, / / .' ?1 ->8 '4;4< <7>1>7 ?405 ;<" ?4 >71.' 5.'047>4' ;'5, /<'7.418 .7 5>, 7>71.' ?4<'6>->1. /;<7% '6 5'%<>G ;166 5>>.'641-. 5 .1'5.'\E,<;7,<<'1.6 .@J.'=4 5< V'7?'6 ,?>.'>'<J.1'0 5.6'57'=4.1% # .67?,41; .5"=4 .;'6,4 / .7E 7'<5 5.416 '; .60 5" ;.<641.' 5 < V "=4.' J>1, 741.' '5.416 <7.<5 ,<6=4 .<<.'?< 66.'?'6 -,5,<5' 1.< .<7 ;'7, /<.1% '<6 4? ?'V6 .# 5" ;'5, /<.'6.1' 7 ,4-.17. / .?5 ?.1 ?6.5' 5<V'41' 7?, <7>.?<,<?405 =4.'N ,<1.<>1' 7 <>E' 1>1.<76 7,<6 5.6 </50E6 =4' ?.<-.?7 5" E'1.8 1;>,45.18 .7 0 .<7>7 5.6';;46'7 ,<6>.'7,47 J.<1.'6.1' .<7 6'<, /01.4G

6.68 .7 ?'1'50 />/.' .<3'41' 7 6'?.<>.'E, 8= .8 6'5.' E,<.7 ,<<'1.'<.7' 7 ?'6 J4 >>'?'16" ?1,0 7>8 5 <.?,4 -' 1' 7 ?'6>71.'1.?1 ?.'?'1 3 B 0,<8 '>6 ';5 ,<>.'5" ;Y 641.' .7 >.'5" ;'5, /<.'<' ">; '??>0 ?. 6,<<.% ,46'-17 >7>'<6 5.'?1. / .1''17 ;5.8 =4.'0.' ;1, 6 <47 5.'>.'1'??, ' 7.1%%%& <>. /'<>.' > 'B.1 '<@ -, @8f ,> 5.'->1 5'06.' 6.<6>4 ;, / 5>' 0 7,47 ;.' =4' .67 ;.< 41.' .67 ?.1 / 60 J, 7,47.' ,?< ,<0'6'1>>.8 =4, =4.'1.;,<<<.'E'466.8 <.' ?.47>1.' ?<< .f '5" ;'5, /<.'-,5,<7' 1.'>, 7>71.'?4< .%

">6;466 ,<.67&>1 />.%

% ;,41.7E' 55.;741.'>4 ?'1'J1'?5 .%

% 'K#'N .'>. /'<>.'=4 ,<V0, J<.' ' / .<>.7<.<5 >;' % '1, ;5 .E04,'45>8=4' .,<6 67.'0>1.'=4.'5.'>1, 7>.' 6 .@?5 =4.1'641'7,46 5.6 ';7.6 > \'4>6>.6 ?,4-, 16 ?405 ;6 '??'15 .<7 07,<6 5.6; 7,V.<68

% % ',K'. '6 ,46'V.@'6641>' ;.5E.5 E .17>'>'<6 5.'?G>' / .1'5 71.'>.' -,71.';7.' ;,<67 747 ,<<.58 B .1' .<; ,1.'1'46 '-.0>7 =4.'<45 ;, /5<.'<.' ?,4-' 7>1.'1.;57.1;0> ?,41' 1' 6,<>.6>,1 76=4 07'41' 7E' 7 /?1 <.1'6 1'=4.7=4.' /'\ 7>1.'=4.';.'6, 5% 5 .67 =4.67 ,< ;'> .@?1 / .1'5.6 6.<;6 1.671 ;7 ,<6=4'?.4-.<51>?1 / .1'5.6'046% ,46'5.6'-,<6 5 / 7>.6 '4@ ;'5, /<;6 -,5,<7' 1. 8 .75,47 ..=45 < .67 ?'6 ..5" .67>'<6 5" 5 0.17.' J>4>1'7.'>>00 .0?1 / ..%

F' K 1N <6'5=4 ,1><'1. / .<75.6 /5<6 1.6 ,<5 ,<.' J1'<>.' ,?< ,<>.4@ />/.6f 7 .67 ?,66 05.'=4.'5.' ?405 ;'?.<6.'>E>1. / .<7% .'>. /'<>.'6' ;.6.1,' ;'5, /<.1' 4< /<671.'=4.>.'>1Z =4 5 .67 <6 7%

% 6@7.6 .?1,?,6.8 ?'1' / .?>. <.K78>.' '1,;, /-' / .<;.1' .?'1'J1'?7.'?=1';.6 / ,76f = " .4641.'5"?547' B / 7>.' .67 ?.1 / 6.'> ,?7 0,EE5 ..' /4> 6 .45, ?< .6 -,G 7? 7' 1.68 .7;%

'- 'f '' 66. /0>.'< .67 ?'605.66>.'7 .'7 5 /?.1G E.;7 ,< 1>.55.' >.' ;.77.' 1>>';7 ." 8 .55.' ?.47 '>/. 1.'c ;'18 '4E,<>8 . .67 '-6>4 ;, / 7>8

66. /05>.'>,?7.' ' / .<>. / .<7>. % '55.6%

.'>.4@>/.'?'1'J1'?:.'>.'1'1 ;5.' G'. 7 >>;1>7> .< ..67.1 / .66

" " ..<6<1.'6=1'7 ,<6 5.6 '.7.6 >.6 ?,<@, 16 ..<6 4>6% .67 ?.1 / 6.'' /'765,";'5, /< .6 -,5,<7' 1.6 ., ,71.'5"?1,0 7> >.6 E,?.7 ,<<'1.6 ?405 ;6 .7 ;,<71.'5" >1, <1.' >.'5.416 <7.<7 ,<68 >'<6 .@.1; #.'>.'5.416 E 4.7 6<68 ?,411,<7 >71.'?,4164 - .6?'1' ;. @=4' .<6,<7 .00.7% G

% ;,41.7 E' 7 ;;7?1.'>'&1, 6>/.'?J1?J1'?0.'>.' 'E' 7 >.' F8

" .6 .'5. << .6% ,= <041.6 .,<71.'=<.5=4.6 ?.16, '<.6 =4.' ;.'6, 78 1.5'7 -.6 '4@';7 ,<6>.'5.41' . .?1 ->.8 6. ,<7 ?4< .6 641'5.41'?,4164 7.%' $

#.'?'1'J1'?:.' .67>.;1>5>%

% ;,41.'E' 7 5.;741.'>.' .15 ;5.' %

W 17% % 45<.'?.47>71.' 4J>8 6, 7 ?'1'E" -, .'; -5.8 6, 5 ?'1'5" -,5.' ;1 / <. 5.8 ?,41'E 76>.,<76 /?1 / 6 ,< ?405 .68 6'<6 =4 5' 757>'1.;,<<4 .5 %5'15'?'1'4<041V'7 p' 6 5 V " >> 7 >'<6 >;1 7>>4,<.>f J7 6'5" ?.16,<<,' ?,4164 - .'< .67 .,4?'05.% Y %

'- 'N .';, / 5> "?.<6>=4 >.-'5E1.71'<.0.1' 5.'6.;,<> ?'1'J1'?:.'>.' ;.7 '17 ;5.8 =4'6.'71,4-.'>'<6 1 /?1 1<>%

'17 ;5.' ' .67> ;1 5>%

' & '7 A('4+''(+ 2' - +$")' 2(.'-$ " '"3+"-(;)-$3+ $ 6'4.$' (('- ' . $/

% ' 17% - 8 4< / ,6 '?1>6 <- 7'7 ,<>4 .,1?655J 6G 5'7 E8 5.'1,' < " ?'6 ?1>5.' ;.'6.1 / .<78 ,4 6 8 '?106 '7, 1' ?1>>8 56.'1>71' ;7.8 5 6.1" ;.< >'-, 1'0> =4>501,V'<7>%Y

#.7 '17 ;5.' .67'>, ?55%

% ;,41.7E' 75.;741.'>.8 '17 ;5.' %

' % 7.'1, 8 >7'<7 6,17'>4 1,V'</ .8 <V1.<71' 7?'" >'<6 5.'>55' '>.'>.4@ /, 6 '?1>6 <- 7'7 ,<=4'54' .< 6.M 1' 7 ' 7.?'1'4<.'?1, ;5' /'7 ,<>4; ,1?>5>J 65'5 1% 56.1' 7 ;.<6> '-, 1'0> =4>5"1,V'45>8 Y

' 0E% ? .<'1 '<6 5" ?,67 ,< ,0 5.' ; /570 64??,6.'c= 1,V'4 / .8 5.6 / .641.6 5.6 ?546 ?1, /?7.6 >, -;<7>71.'?1 M 6.6%f ,<?.'?.<7'5,16 64?? ,6.6 '41, '>.6 <7.<7 ,<6?' ;B' =4.6% '<6 5.'>.5"'>.'>.4@ / , 6 5 ?,411"?'1, ,41 17,45.6 5.6;,416>.' 41,?.' .7 5.-.1'4<.''1 / 5.% .'>. /'<>.'=4 5

' $,'-$,;,' $' (. $/' (,+*,'> . $'-+'. 8+ (')3'.(*,.(' ^$+f' -+*" (' -GB+$ 1 ' ' (' & '=

' ...''8 ',%%&2%4 ,'& ' &&% '$%'$!'U ' !B

' & ''A(' 4.$(' ('($-'-(' 0 $.')$(*'* " -$.(' $$'3 4,(.'-(' 5 (' .'3 ..+' (' -GB+$7 (' 4(+'(' 5 (' 3(' - $,' + .(' - ' .'-(' F+' 4. 3+ +,$ +'-+*" (' $(-(" ',+*3("- '3 .4" $' + $,

" 34 . (3 ;' (' -+*9(.'-('()+*9(.'-('. $' (' 4+.+% ''$'9.+*-'5 J$''(. $,') $$'-('-$.('5 (' ('--+$'#$2-'4+.' 33 $-'4 ..+'G,.('4. *9 '4+.' ('3 .4" -9$'+,$ ' &

' @ /' ' '- ' 8* & 3''A('' $" $*'-(' . $.('5 (,('. $'+$,' %$*,(*, *'-('.(# '(.' ("+0+*,+9('5 (' ,$$'4.$'(*,(' +'3 *',$, ,$ *'-'. 8+ (7 +$"$'$#+ ,' ' 4.(0 $.7 (,''$'(,+$,'4 '') ('5 ('(" (*$$($" ('-$,(. $D' % *+''(,')'+ ,(.''(' (,,.('6 ."-('0 "#. *,,(.('/'+' $$(' -("#+3,$(2/'$''(.+$,'-+*9(.(2'-(' $'+33 .-(.' *''$' *9' --+$'A('-(+*-('5 ('0 '-,(+.$(U/'3 ('-. $,'$*)-D' .(*,'+*'3 .4"3 *',$, +*,/ +,($3 ,-'-('4.(*-.(', '4.(1 3+ ,$ *"5 %$' 9(.+' (3(''+$.("(*'3("3$.3 *',+*33'

' +$+(*;' ('.+$' **((*,''%+44 $5 ('(9+,((*,'+ 2' (9$'+, .('

' & & '7 '8'+' *' 9.+*-'$*, ,')' *('4 $*,'+)+*!' - *(.'+ 2',(9% +, .(" ('-. $,'-('#$2(.',(" --+$''BB'(.+$,' 4 '') ('5 (/'-+*" ("3$.3 *',+*3("- 3,('/'(("#$''(*,' *$+'3(,,('#$2+,$ *7 (,'((','($'#+0 .'-'. $(*,.(' ('3 .4" -9$'+,$#'5 ('* "0 "4. 4 '*" ('--+$-('-(2' $'' BB'#+ ,' *('+,$, -('' #$ '+*,('4 .'5 D$'*('' $'4+"# .3('-(' $('.(*,.(.'5 $' +',),('- *('+.)(' +*" ('3+" Q$'$'3*' + .+$,' (0(' *(/ 3('*(''(.+$(*,4+"0 " -)(.(,'/ +$" +' # .3(/'5 $'4.(0+ -.+$(*,' *'4(, +.$(.'+'4. 4 '$,$ *'-(' ' .$(.'+0(3'3(('- 3 ,('(,'-$.(',$ $' ('. $'*('.(*,.(' 4+"-+*" ('-) +$'#$2)'4+.' ('3 .4" -9$'+,$#/& ' V ':

+*,'+ '4 0 $.'3 *',$, +*,/ $'3 *3(*,.('(*' $''($' , ,' ('+ ,'-(' +'36 '('4) $5 (7 $'*('4(,'(.('(*.+0 ' (*'+ (*(' +,,$).(/ (,'$' +' ('-.9.)'- + .$-'*(3(''+$.(' 4 .'4.(*-.(,(('4.(3+ ,$ *'5 $' 9('3 *0(*+) (

' '+,+';' "+0('.)4 *-' ')'(.0+,$ * -(' ' (*+ ,7' +$"$,' (',/ .(+,$0((*,'+ 2' (9$'+, .('/ *('5 (',$ *7 (%(',-(''+0 $.''$/ 4(*-+*,' (',(4"-('' *' +)'(*3(/ ('. $'+ .+' (".),$("- '9 0(.*((*,' $'3 -+$,' +0$"- '3 $,-/' ('--+$'*('4 ..+$,'-$.(',. 4'.)- $,

' & ',' *'4.$*3$4(/ ('('#+$,'-('$+'' .,$('- '. N *(' ('' '4(*-'4+"-(':''# *3,$ *'7 +$'/- ' (*,'-('+' 4. 3+ +,$ *'- '3 .4" (9$'+,$#/ ('4 0 $.'(2-3 ,$# - $,' ,.('' '4(-,'-+*"'(" +$*'

#' 2+U+' '#+ ,' ('-$.(

' & & ',' *'+ ,(.+'3(,,('-$'4 '$,$ *;

+.,' '(','-)3.),-'+$*'$'5 %$'' $,7

Q .,' ' $' ('. $/-,+*,' .,$- '. 8+ (/'$$'8'.(*,.+$,' 4+"+4.)' $*0$,+$ *'5 $' $' (*''(.+$,'#+$,('4+.' *('4. 3+1 +,$ *'- '3 .4" ,(9$'+,$#/ (,'-+*" ('-(+$'5 %$'#$2(.+/ +$"5 $'*('4 ..+'R .(' $*-.('-('-(2' $''/'$' (.+$,' 33*'-+0 $.+)-$5)+. 8+ ,-' K

' ((. ,' 5 "+0(U' +*--6$(.' ($*$'$.(-(+' +.$*('4 .'0 ".(*-.('3 4 ('-(' %(2-3 $ *'-('0 ,.(' -(3.(,-' -' +$' $5 (' ++-(/ ''%(','.(*-''. .!(!' ()+ 4'+' ''( ),(('7 +$"0 $.('-$'3 ''$ *'' (',',(((*,' 4. *9-('5 $'+'(-'$ 4 '') ('-(' ($$(*-..' !3',' +$*!' ,(*+*,'$3$7 0 (U!0 ' $'+33 .-(.' +'4+. (c

''( ) -3'----('5 (' (' $ $',.('-(' +' +.$*(''(.+'(*!' $(*-

%

3 - ,' ' ' -'$ " 'V' (*-.(-$' * & ',.+9--$3' 8!' 5 (/' 0('- *'* 0(+'-$0(.,$''((*,'

- e ' ' ' ' ' V' ' 9 ' ,.+9--$(' ' 0('-' 'F ' ' ,

+- "% 'V' ' +' PXD' .(4.-'(*,+$ ' 0@ A' 2 ' ' '<3 ' & ' 4.-3--' 0, '

&&' '. ('-(' $3)($(V! '(' ' (*' *' '')@ ' ' (*' *'+3,(7,('A (-(3$$ & ' / (*' P'+3,('

(+$*' +'B%D' .(4.-'(*,+,$ *'-(' '8 ' ' ' ' V $ + 36('G ''. ',.+9--$('-(' ' 6-+$(.

&&' ' ' ' 8 & '3$!-(0+*,'-(' *'$(.' V ' +'BID' .(4.-'(*,+,$ *'-(' 2 ' '#.+ 3+$$ (*' P'+3,('

'+,,(-+*,' + m'.(4.-'(*,+,$ *'-(' 8 $ ' 4-.+'$,+ $(*

& &' ' &' ' + ' + $$$$' 8+ V ' - *(/,.+9--$('-+*" +5 (((+$,' 0+' + *-('.(4$.+' ('. ('-(' (4) .3/('' ' .+*$ $' 3($'- *,$ () '/'' 0('-("8

'&' ' !'3$!-(0+*,'-(" .+*-" +*'(.' ' ' '3 --$3'+0.(' *'-$0(.$''((*' &''+ ,(.'7,(", ' '8 ' '8 '4+*, $ (' +0(3' '(" +9.- (*,'7 ' ' & ' , (1 ' &'1 A' '4+*, $ (' +36$*('/'+0(3' *'-$0(.,$''((*,

! #$ % ' + ') (0+.-' - ' (4('V' ' ' '' 0'-(' '$ '1 ' ' '$ -('F ' 4-.+'(*' W'++3,('

- ' ' ' " ' ' V * " V ' " ' '@ ' ' 4-.+'(*' W'+3,('/'4.-(-(' -(" 'G ' '-("G 1 '

- ' 4 ' $) / . (' +$*,! +.,$*'V' ' $ F ' ' , 'G & 3' ' ' A ' .' 9--$((*' P'+3,('/'' 0('- ': ' 'D 2

'+,,(-+*,' +'B_'.(4.('(*,+,$ *'-(' '$ ' & '

&'&' '& &' '$,'V ' +'PD'.(4.-'($,+,$ *' ,), 9 ' '@ V '3 --$(' -$-(' - +.$(,('/'4.' (---('-(' @ ' 'F

) '& ' (& '. ('- ' +$/ *'K'BT V BB'(',' Q 0(.',, " (" .'/ '5)' - ('6(.3'5 $'4 +$,')' ' $ +) *-"-8' (',(.

.!:$ (7)' ' /(7 ()' '(' +& (#'(#- ,,('

$2'4.($(." $" BHTB' @ ' ("4+8("' ,'+' + (,.(' ' , ' ' '@ ' 'GI' ' '

+-$2' -*(' *-.('' WW'B'$) L $0 .*(+-.$-'Q BT')'B'' 8 */' , ' ' ' 'WP'

;7 ,<6'>.6' <>.6'>.'C '5 -% % % C *C' 8%* 8'*(8'C# / ?14<5'> ;5 ,01.' >. '5 -%% $ U +'>.'>>;% ()C% 34 7'8 >.'E< % $ ' 8' 'G 'U % '^? +'>.' C' / 55%8 >>;% ( ) U %%%%%' (' 8' 8 Q8' Q8' 5 % +'>.') ' / 55' '-.'045 [illegible] G $' 'Z +'6'<6 0455.7 <6% [illegible] +' ,10 .<- 'J.1' % [illegible] ;7% <,77-% 7, ' <>.6% 8' % C 98' 8 8' C8 8' C8' 'U # 66.' > .6 ; [illegible]) C8') 8' C8 8' C . / ;' 66. [illegible] 34 7 ' >.6' '4@>.' '1 68 [illegible])8' 8' / ?14<7 >.'<,-8' ()(8' 0'U ?% [illegible] ' 'd G: + >.) ' / 55%-> ',E775 ()* [illegible] \ $ G #' 66 ?071 ,7 =4. 6641% ;,<71.7,' <;' % % U 8' UU8' U(8' U)8' U(8' U98' U 8' U'

M'B4 ' ' ' \19 +0 ' ++ +1' +0

! b ʿ ʿ,W ʿ 5 EE5 55 ʿ

_ʿ WPH/ - ʿ WGʿ F &2ʿ BHTB ʿ V! A V ʿ !Iʿ

ʿG ʿ ʿ ʿ) ʿ+ʿ ,ʿ J1'<>ʿ 156 1ʿ< .<7
?'6?<6 7 <6714 ʿ5"; ,41ʿ>.5"1.71' .ʿ>.">.<@ / < 671.6
/?.B'4@>4ʿ ; ,J1 6>.ʿ ;: 67, [8=<.5.ʿ1. 66 . .<>ʿ .47
,1>1.ʿ> <-5;1ʿ ' /0'66'>.41ʿ> 6?'J<.ʿ " 4<.ʿ ; .<E.1.<; .
?'175;45 '1.ʿ&, ʿ >41" ; <= 0.41. " N ; / / ʿ 55ʿ< .47 ?'6
>.ʿ64 7.8 ,< ?1.64 / .ʿ=4 .55.ʿ<.ʿE' 7 . / ?5,01>.ʿ =4 ʿ6.<>.1ʿ
5.6 <7.<7 ,<6>.ʿ ; ;57.ʿ ; ,418>,<7 ,< ' -ʿ 7 ; , ,65' / < .<7
1.0. ʿ5.6 ,31.6046=4. [illegible]

.?.4?.ʿ .7 .6.<<. / 6>4ʿJ1'<>ʿ - 6 1ʿ / 41 / 41.<75 '4
7. / .<7 ; ,<51.ʿ 5.ʿ J,4 .1<. / .<5 ʿ 5" J4.11.ʿ ; ,<7 <4' 78
.55.ʿ .< 1'7<.1' 7 <E' 55 05. <.<7 5" ?.17.ʿ >.ʿ 7,47 ; / ? 1.8
=< .67 .<7 .1. / .<7 >?4 6>

< < " ?, <7 >.ʿ <,4-.B.6>" ; '? '< ?' .0'8 <'>.ʿ6"
E5, 7. +ʿ .6 '1 / '7.416 1466.6 ' ,<7 >.ʿ<,4-.ʿ4ʿ>'<6 1ʿ
; : ?.5

ʿ (ʿ(ʿ ʿ !ʿ +ʿ .ʿ ʿ>.ʿ. .ʿ / , 6 '66; / 05. .ʿ
>.6>.?47.6 J ..6>.ʿ5"?'17 .ʿ ,1 .<7'7." ,4-.176,<6V<,>.ʿ
0 <6 8 .< 7:4'< .8 ?,41ʿ> 5 0>-.1641ʿ5.ʿ?1,0.7>.ʿ10ʿ
J5.<5.<5. ; .5>6 '67 =4. ʿV " > >1>6 ,54 =4.ʿ7,465.67<. / G
01.6 >.ʿ ; .77.ʿ ;1,V'4;.ʿE.1' .<7 '<'1,ʿ .5 ʿ5" 1>?405 =4.ʿ5.ʿ
6.1 / .<7 >.ʿ E >>5 7>ʿ .7 > ,0> 66'<; ʿ ʿ5" ; ,<67 747 ,< >.6ʿ
.7 ʿ / ' 8 .7 =4 56 <.ʿ >>?.<>1' .<7 0 ' -.< 1ʿ > '<;4<.ʿ
?4 66'<; .ʿ >71'<J>1. 56 6.ʿ6,4< .771,<78 ?,41ʿ5.ʿ6? 1 7<.58
'< ?'51 '1;0.ʿ >.ʿ #'1,J1,>8 46=4 ʿ ; ʿ=4.ʿ 5" 1.?405 =4.ʿ
' 7 >>7.1EE5 <> 4< / ,>.ʿ >.ʿ > 6; ?5 <.ʿ ?,41ʿ5" ; , / / 4< ,<
& 1 ʿ>.6?'17 ,6 ,1 .<5'5.61ʿ 7,46 5.6 / . / 01.6>.ʿ ; .ʿ6VM
<,>.ʿ 5 ?1>7>ʿ5.ʿ6.1 / .<7

.6 ?1, - <; .6 >.ʿ ʿ <.ʿ .7 >.ʿ5" ,5:V<5.ʿ0,4 66.<7
' ;74.55. / .<7 >.ʿ5" ?546 ?'1E' 7.ʿ 71'<=4 55 5>1ʿ ; ." =47 E' ; ʿ
5 7.1" 5.ʿ 1.7'41ʿ> 4<6 ?'17 .ʿ>.6 71,4?.6 >'<6 5" J1'<7E.ʿ
,5,J<.8

ʿ$ ʿ6C ʿ ʿ .6 6.'56 ' / 0'66'>.416 >.ʿ
.< 6.ʿ .7>.ʿ '?5.6 ,<7>>ʿ <- 7>6 '4@E>7.6 > 65.15 '1V8
V5,1>ʿ 5J < .678 >E7 ,< '1'??.5>8 .7>, 7=4 77.1ʿ .<<.ʿ
5.ʿ ʿ>.ʿ .ʿ / , 6
.ʿ6 .41ʿ K5'<;0'1>6 .67 > .->0 .18 .7 " ?5'<> >'<6 5.6
' 16 ' -.;ʿ5.ʿ?546 : .41.4@ 64; .>6 .6 ?'V6'<6>.ʿ .<>1, 7
,>ʿ ʿ>.6..<>4 ,<7 1.#,<>4 7 0 .<<.ʿ .77 715, / ?: .8
ʿ +ʿ "?' @ .<71.ʿ7" ; ,4E>.ʿ .<<.ʿ .7 5" ,17. 8
57, / '<.ʿ " >7>6 J<>.ʿ 2ʿ ; : 67, ['5.ʿ U >.ʿ ; .ʿ / , 6 ?1>6
5.6 ; ,<> 7 ,<6 >4 71' 7>8 5.6 ;0,6.6 6, ,71. / 6.6 2ʿ ?.< ?1>6
>'<6 5.ʿ / > / .ʿ> '5ʿ,>ʿ .55.J >7' .<7 ' - ' '7 5" J4.11.

@ ʿ68 ʿ ʿ !ʿ ʿ 2G!ʿ Z)
: ʿ(2

",ʿ <.ʿ 64 6 ?, <7 ʿ 3 ʿ ʿ ʿ ʿ >ʿ
.7 6 .< '5 '<7 J,41 / '<>.1ʿ ' -'1 ; .ʿ
>.ʿ , / . 5.ʿ / .ʿ6'56 . / 0'1=4.ʿ7,47 0,<<. / .<7 ?,41ʿ '55.1ʿ
?.45 >71.ʿ046=4 0 .<<. ʿ '6? .; 7 -'1 .ʿ>.6 ; 7.6 .7 >.6
> -.16 5'76 =4.ʿ0' J<.ʿ ; .ʿJ1'<> E5.4-.8 0 '41' 6 0.'4; ,4?
2ʿ > 1. '466 ʿ ʿ 0 .< 50 >.ʿ =4?ʿ ?: 5,6,?: .1 05 5"
E>,>'5 7>ʿ ,G.@ 67' 7 ?, <7 J4'<>ʿ5.ʿ J1' -.ʿ?'V6'<'>.ʿ5" E'05.ʿ
" E' 7 K-,V'J. <1. ; ,<<' 7 ; ʿ?'17,47 5" J1 7E" >.ʿ ; .ʿ
/ ,<651.ʿ641ʿ >E'7 >.Y - .6 .7 >.6 .' / ?'J<.68 .7 641ʿ5.ʿ
.ʿ1' .7>1.ʿ>.6 0'0 7'<76 1ʿ .7 5" 64?.167 7 ,< .7 5.ʿ>.6?,5 6 / .8
=4ʿ / '1. : .<7 0 6" 64 7.8 7,4; : .<7 0 / .ʿ >4ʿ -,V'J.41ʿ> 4<.
* 1,E4<>.ʿ ? > 3<'<>ʿ .ʿ ʿ -,V'J.41ʿ - .<7 >.ʿ =4 77.1ʿ 5"
1'<. .ʿ '4ʿ / , / .<7 ' ,74.5 ʿ =4 ʿ .67 'EE..7>ʿ 0 .< '471.G
/ .47ʿ # . 7 43 ?'V6'< >.ʿ ʿ]. , .jʿ=4 5 E04>1' 7 6,1ʿ ..6
: , >658 8
W ' ʿ?'66>ʿ ?746 .416 0, 416 6'<6 .<7.<>1.ʿ?'15.1ʿ>.ʿ
5" L' ; . ʿ / .ʿ 6. / 05' 7 < > 1.ʿ?546 '-.ʿ>.6 0, / / .68 ʿ
5" -4.ʿ>.ʿ '5 60,<<.8 0.ʿ / V 64 6 1.71,4-. / 'J <.6 / .<
. / ?1.66. / .<7 0 1.?1.<>1.ʿ 7.ʿ E55 >.6 <,4-.55.6 >.?4 6 / .<
>>2 '17> 56' ; . 7 " > '0,1>ʿE'554 1.<,<; .1 0 / .ʿ ?1, ; 41.1ʿ
>.6 J'@.77.6 E1'<?' 6.6 5.6 ?'? .16 '55. / '<>6 <.ʿ / ,<7
'??1 6 =4.ʿ5" / ,5 >ʿ>.ʿ .ʿ=4.ʿ0.ʿ6 '-' 6 >>00 ' 6 0 ' ʿ .4
-.; , ,416 0 >.6 6,41; .6 ?546 67 1. ʿ?,41ʿ / <E,1 / .1ʿ>.6 >>W

Wʿ ^< ʿ .

7.1 / .<'7 ,<6 >.ʿ5" 0 / .<6.ʿ > >7.ʿ =<5 6.ʿ .<7 ; !1,V.ʿ
=4 5 < .67 ?'6 E' ; 5.ʿ> .< 6' -, 1ʿ 17. 5,<J 0 >.66468 =4'<>ʿ
,< - .47 5.ʿ -1' >5' 6 50 8 0 V ' ʿ / 6 .ʿ6, < =4.ʿ - ,46 / ,ʿ
; ,<<' 66.@1ʿ .5 7,47 ; .ʿ=4.ʿ0 .< ' ʿ1.7 1>8 . .67 =4.ʿ6' / .>ʿ
7,<6 5.6 ; ,55>J.6 6.ʿ .<7 '66. / 05.6 0 <.<E0.41.6 >4ʿ / '7 <8
.7 =4 56 <.ʿ6.ʿ6,<7 6>?'1>6 =4 0 =4'71.ʿ : .41.6 >4ʿ6 / 1 ʿ
V 1>J<.ʿ4< ?1,E,<>6. ;1.7 .6 6. ;1>7' 1.6 . / ?5,V>6 6,<7
?1.6=4.ʿ 7,46 J'1>6 0 4. H .@ - ,46 > ,<.ʿ '4@5,<J
' ;7.68 '4@5,<J6 .@51' 76 > ,<& 6.ʿ?'1.<7 =4.5=4.6 J'0.77.6
ʿ ' ʿ=4 4<.ʿ ; .6.ʿ / ?,17'<7.ʿ0 -,46 / '1=4.1 "H1'<;ʿ
"0.6, < > 4<.ʿ - J4.41ʿ=4ʿ5" ?><>71.ʿ 7,47 .<5 >; , <
>.ʿ / .641.6E' 05.68 ?, <7 >.ʿ LL ʿ .ʿ ?1 <; ʿ
>.ʿK'>. ,41 J.ʿ " E' 5 '11' ;0.1ʿ <.ʿ ' E ; 7.ʿ >.6 ?1 <; .ʿ
1. ;147.4168 >;1 7. .< '55. / '<>ʿ .7.< E1'<. ' 61ʿ .55.ʿ ; , / ʿ
/ .<. ' 7 ' <6ʿN 7ʿ <@ 01' -.6 / 5 ' 1.6 .7 0.4K.6 J.<
W E1'<. ' 6 =4ʿ1.6 .<7 .<; ,1.ʿ >> .6 .7 ' 7<.47 4,71.ʿ0,ʿ
W 1, ʿ ,4 6 " Y

.ʿ@ 8 ʿ\ʿ ʿ+ʿ7 .ʿ1,ʿ>, 71.1.< 1ʿ>.ʿ5" 5>65ʿ
.C(>.ʿ / , 6 .ʿS$ʿ0'7' 55,< >.6 0466'1>6 > 0.< ;65 >ʿ
1.7,41ʿ ' -.ʿ 6,< ; , / / '<>'<78 ' <6ʿ =4.ʿ 5.6 5.47.<'<7ʿ
J><.1'4@ ; , / 7.6 >. 1405 .7 K 1,6 6.>7ʿ .7 ' ; 6,<8
6. .1>7' 1.ʿ>.ʿ >J'7 ,< 01 7'<< =4.8 .67 ?'17ʿ ?,41ʿ ,<>1.6
"?' @ .678 > 7 ,<8 ; ,<;54.ʿ .<71.ʿ5" 466 .ʿ .7 5" ,17.
.6 0'6.6 >.ʿ ; .77.ʿ ?' ; E ; '7 ,< 6,<7 =4.ʿ W5.ʿ < .67.1 E 1
/ .1' >.6,1 / ' 6 5" E1,< >1.ʿ .<71.ʿ5.6 . / ?1.61466.ʿ .5ʿ,7M
7, / '< I =4.ʿ5" <' - J'7 ,< >.ʿ5" 1 - >1.ʿ1.65.1" E 01.ʿ '4ʿ
>.4@?'17 .61 =4.ʿ ;0' ;4<.ʿ > .55.6 ?,411" .< E,17 E .1ʿ5.ʿ
0,1>6 >.ʿ 6,< ; 7>8 .7 V ; ,<6714 1.ʿ7.56 4-1'J.6 =4 ;5:
04J.1" <> ,66'1.6 ?,41ʿ6" 6 1.7.1ʿ .0' ,[.7 7,47 .ʿ
7.11 7, 1.ʿ .<71.ʿ 5.ʿ K4J .7 5.ʿ < .67.18 ?'V6 >7.<>4ʿ .5
E.17 5.8 1.67.1" ; >=4. / / .<7 0 5" 466 .8 6'<6 =4 56,5
=4.67 ,< > .< E' 1.ʿ 4< >>6.17 <'>.ʿ1'6.1ʿ ;0' ,11 - .0
6,<7 5.6 ?1.5 / <' 1.6 6 J >68 '6641. 7 , ,8 ?'1ʿ5.6 / < 671.ʿ
? >< ?,5 ,7 ' 1.6 >.6 ; ,416 '55 >.68 .7 =4. ʿ >.ʿ <>6'0
- .<7 >.ʿ ?,17.1ʿ 0 ,<>1.61ʿ +ʿ / ?>1'71 ; .ʿ ; ,<6.<7 ʿ
4< '11, 65 ; .8 >>6 =4.ʿ5.ʿ !1'<>ʿ . J<.41ʿ'41" ʿ; ; .?7>5.ʿ
; ,<> 7 ,<6 >.ʿ?' @=4.ʿ6.6 '55 >6 - . <.<7>.ʿ54ʿ / >< 'J.1
<.ʿ ;1. 7 ?, <7 ; ʿ =4.ʿ5.6 >.1< .16 ' - '<5'J.6 1.7<ʿ
?,17>6 641ʿ 5.6 41;6 ' .<7 >7>ʿ '466ʿ ; ,<6 >.1'05.6 =0.ʿ .ʿ
466 .ʿ -,4545.ʿE' 1.ʿ .1, 1. .6 ,1.6 ,<7 / ,<51>8 > 7ʿ
,<8 4<.ʿ E.1 / .7ʿ .7 ,<7 ; ,<6>11>ʿ >'<6 5.41ʿ 1. 1' 7.ʿ4<
,1>1.ʿ =4ʿ ,<7 >7.ʿ >J'5. / .<7 '> / 1>6 >.6 4 6.6 .4@ʿ
/ > / .6 " , .ʿ E' 7 / ,47.1ʿ5.41ʿ ?.17.ʿ1>.55.ʿ =, 0 = <0.ʿ
; .<76 0, / / .61 <ʿ0,47.ʿ=4.ʿE" - ;7, 1.ʿ .671.6 >.ʿ <> . ; 6.
.ʿ;5 '<J. / .<7 >.ʿ / < 67>1.ʿ " 7,47 ; .ʿ'<J.8 ,4ʿ >4ʿ
/ , <6 5" 1.71' 7.ʿ>.ʿ 5. . , / .ʿ>. B.1700.1J " 5' 66>ʿ5.ʿ
; : ' / ? E01.ʿ '<@ ,?>1'7 ,<6 7,47 0 E' 7 ; ,<71'> ;7, 1>6 0
'<; .< 6V6 > / .8 .7 '4@=4.55.6 >.ʿ B.1700.1J 74 / > / .ʿ
.#5ʿ>5>E,1;>ʿ>.ʿ1. - .< 1ʿ6 5ʿE0 71.67>ʿ .< ?5' ; # .ʿ / < 671.ʿ
6 .67 1.7 1>ʿ .< , / >1'< . ʿ ; ,<6.1-.ʿ5.6 5 71.6 .7 5.6 E,<, ʿ
7 ,<6 > 0, / / .ʿ ?405 ;8 =4ʿ54ʿ ,<7 ; ,<-.<4 ʿ '<<,<; ; ʿ
=4 5 " 5.ʿ?1,0.5 >> ;1 1.ʿ ; 67, 1.ʿ>.ʿ H1>>>1.ʿ , ; ʿ5"
5.571.ʿ=4.ʿ5.ʿ1, ʿ - ,<7 >.ʿ54ʿ>;1 1.N
W .ʿ -.11' ʿ -.ʿ ?5' 6 1ʿ=4.ʿ - ,46 ; ,<7 <4 .0 0ʿ ;41'7.55;ʿ
>.ʿ '>> / .8 ' <6ʿ =4.ʿ5">1.ʿ ;7 ,< >.ʿ5" ;45741.ʿ >.ʿ5"
6,5.ʿ>4ʿ ?'V6 # , / / .ʿ0ʿ < J<,1.ʿ?'6 =4.ʿ - ,46 - ,46 ?1, ʿ
?,6.0 >>.1 1.ʿ 0 67, 1.ʿ >4ʿE.4ʿ1, 8 0.ʿ - .11' ʿ ' -.ʿ ?5' 6 1ʿ
=4.ʿ - ,46 V . / ?5,V .0 -,6 0.41.6 >.ʿ5, 18 .5 0.ʿ>,<<.1' ʿ
5.6 ,1>1.6 <>. .66' 1.6 '4@'1; : - .6 ?,41ʿ #.77.ʿ <7>1.66'<7.ʿ
0 67, 1. .<.0 - , ,6 7,40,416 '66<1>ʿ>.ʿ / " ?'1E' 7.ʿ' / >ʿ
.7 .65 / .
E7#: '15, . ,0,<1J8 5.ʿ9 04 55.7 (E 5Y

! 8

.ʿ ʿ+ʿ .ʿ5,1>ʿ !1.<- 55.ʿ " >,<<> 8 5.ʿ)ʿ ' ,E558
'<@ ' / 0'66'>.416 >51'<J.168 5" <,7 E ; '7 ,< , K; .55.ʿ>.ʿ
'11'<J. / .<7 >>E < 7 E =4ʿ 7.1 / <.ʿ5.6 > E>1.<>6 > .->6
.<71.ʿ5" !1'<>. K1.7'J<.ʿ .7 5" 466 . < " >J'5. / .<7
>,<<>ʿ>.6 ,1>1.6 ?,41ʿ71'<6 / .771.ʿ '4@' / 0'66'>.416 01 ʿ
7'<< =4.6 >'<6 5.6 ; ,416 >71'<J>1.6 5" / > / .ʿ<,7 E ; '7 ,<

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- ʿ ʿ ʿ)ʿ < ʿ +ʿ 1, 6 007 = . 56 >51'<J.16 ,47
G I

>. / . / .<7 > '1=4 '>'<6 ,< ?,17 ?1`6 > 1'< 7,47.6
6,17.6>.?1, - 6 ,<6>.J4.11.8;, / 42.;'<,<]8 ?,4>1.68 .7;%8
6'<6 =4.' .6;'>1.' .6?'J<,5.8 =4 ' ;1, 6.' - 6 - 6 >.' ; .57.
?5' ; .8 ' 7 ?4 . / ? ;7,% .6 >J.'>.' ; .>. E,1 .1.66. 6.
?,466.'7,<0,416 '- .' - J4.41% ;' <,4- .'4 >.V > J.18
=4 ,< ;1,V' 7 1>6 ?,15>.< E'- ,41 >.'5 6?'J<.8 / '< E.67.
'40441>0' '>.6>6?,6 7 ,<6 '06,54 / .<7 ; <71' 1.68 .7 ,7E
;1' <7 =7 5 <.64 - .'5.67<> / .6 ?1 <; ?.6 =4.%6,<?1>>>..6
6.41% %
.6 E >J'7.6 >.' " '0.67> #'7: ,5 =4.' ' A 0
' .5 '' >9 ' >.'U ' ; '<,<6l 5.6 01 J'<5 <6 E"
*& ' '$ (' >.' U8 .5 5" E5# .' '8$ ' >.'C 8
6,<7 6,17 6 >4 H.11,58 5.' C) >4 / , 6 >.1< .18 .7 ,<7
,, 55>5. / > <.0,41 5" #,1,J<.% .'1.J / .<7>.' >,<8
;< J'1< 6,< >'<6 ;.>.' - 55.8 6 .65 .? 0'1=4> 641; .6 0 7
a .<768 G=4 6.'> 6?,6#<7 U / .7 1.' U " - , 5.'?,41 ' <71 >
0'67 .<%
'?'1' 7 =4.'5.6 >.4@ - ' 66.'4@ =4 '6,<7 .< '1 / . / .<7
'< H.11,5 6,<7 >.6 <>6 ?,41 #,170'J><.8 ,U 56 >, - .<7
?,17. ; 6 @ #.<76 0, / < .6 >.' / '1 <.' .7 >.6 / 4< 7 ,<6>.
J4.11.% 4<>.6 >.4@ >, 7 7,4; : .1 U #'>@%
3 2 *% '&! ' ! ' , ' 4 '%4% #B '& ,' - '&
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B ' ' ' 'M' < "5'<;> U '16.<'58 5.
*'>.' ; .' / , 68 4<.'E1>J'7.'>.'<,4- .55.' ; ,<6714;7 ,<8 >.6
7 <>.'U '57.1 1.<E,1, .1 .6;'>1.'>.' % 5.'?1, ;41'7.41 / ,%
<>.- ' 7 5'<; .1 > / > / .0 ,18 ?,41 5" / > / .'>.67 <'7 ,<8
4? ;477.18 >,<7 5" =4 55.'6 .67 71, 4 - >.' / / 'J>.%
.'6><'7 '<, / < >8 5.C9 04 55.7 >.1< .18 % , ; ; .' '<G
H.1 / ,'1>6 >.<7 >.'5" 1>?,05 =4.'U ,<>1.68 ?,41 1.7<
?5' ; .1 % 1'0 ,' ' - .00'1 8 >,<7 5" / 66 ,< .@? 1.''?1>6
71, 6 '<60 $ \
'*% 0 ' ' 473 '\+ 1, '- .<7 >.'< , / / .1 U
- <J7 6.?7 >.6 % @'<7. 71, 6 >->>5 >6 - ';'<76 >'<6 ; .'
1,V'4 / .% .' ; : , @>. '640.76 '>7>4< - . 55. / .<5 '??5'4>%
' ! ' '& '$%4 ' ' , ! '& ' &, 4 '(% ' 'B!)
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! $ 'A % & '%B! &% '// ! ': &! %A
$ ' ,% ' $ 4&' 0 5
' ; ,41 ;65 U #'67.55' / '1.8 > ,U 5.' 1, ' E' 7 >.'?.7 76
- ,V'J.6 > ' < . 4; .'7U 6; : '% ,<7.'5" : / 55.'1,V'5.
0,4 7 >.'5" / 7 55.41.'6'<7>%

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" J'1>.' <'7 ,<'5.'6,5>>.'>. - '<7 >71.' <; .66' / / .<7
E,1 / >.' .<71,4?.'>.'5 J<.8 ,4 .< J.<>'1 / .1 .'<'7 ,<'5.8
5.' ; ,1?6 / 4< ; ?'5 ' - .15 7 % 5.6 ; '? 7' <.6 >.6 ; ,< ?'G
J< .6 >.'J1.<'> .168 >.' ; .55.6 >4 ; .<71.8 >.6 ; : '66.416 l
>.6 ; '< << .168 >.'5" .' - '5.1 .8 ; 7 5.6'> 4>5<76 >4 0'M
7' 55,< >.6 ?,1768 > '11E77.1 ,7 6,5>.1 5.6 ; , / ?7.6 >.6 6,46G
, 5 ; .16 .7 6,5>'768 ' <67 =4.'>.'7 ,46 5.6 E ,41< 66.4168 ?,41
5.416406 67'<; .8 'E5< =4 '4 p '6.?5. / 01.'?1, .0' < 5 < V
' 7 '4;4<.'1.=4 6 7 ,< U ; ,7 #J'1>8 >.'5" ?'17 >.'5" 71,4?.
,4> .6 E,41< 66.416 ' > [<>.' '4 #, / / '<>'<7 J.<.1'5 >.
7.< 1 5'% / '< U .@. ;47 ,<>4 ?1.6.<7 '11#7.8 =4 '6.1" / \
?1 / .' .7 'EE ; : .% \ %
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' (
B ' ' '

<' " .7.' - .<>4 U1: 7.5 >, - 55.'>.' '1 68 . 6598 (8)8
* .7C ' ' ,U7 ?1.6.<7 / , 68 ? ,41 5" 6, / / .>.' CU8C '7 1%
>.'>, / ' <.6 <'7 ,<'4@8 ; ,<6 65'<7 .< >,40.' / '6,< ' .7
>.?; <>'< ; .68 >.4@7.11' <6 .7 4<0'1> <8 5.'7,47 6 74.'>'<6
<7.1 .41 >.' '1 68 .7 >,<7 5.6 .67 / '7 ,<6' - ' .<7 ;7.'?,1G
.6 U C %) ' -%

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J' (,+!)#) (, (' 7 ! 7 ! , '

8 , &'9 ' , * ' :

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! ' ' '& % ' ! , , '(! , , B$ '%' &

D'APRÈS UN DESSIN DU TEMPS.

Typ. Henri Plon.

Action héroïque et vertueuse de Louis Gillet.

,$ *'(,-' $*,-. ;-(' ('$A.$;' $$,+$.#$ ++*9' .+.!'
((' '(;'3+$.'5 (' ('4.($(.' -+*9(.'- *'4(4('
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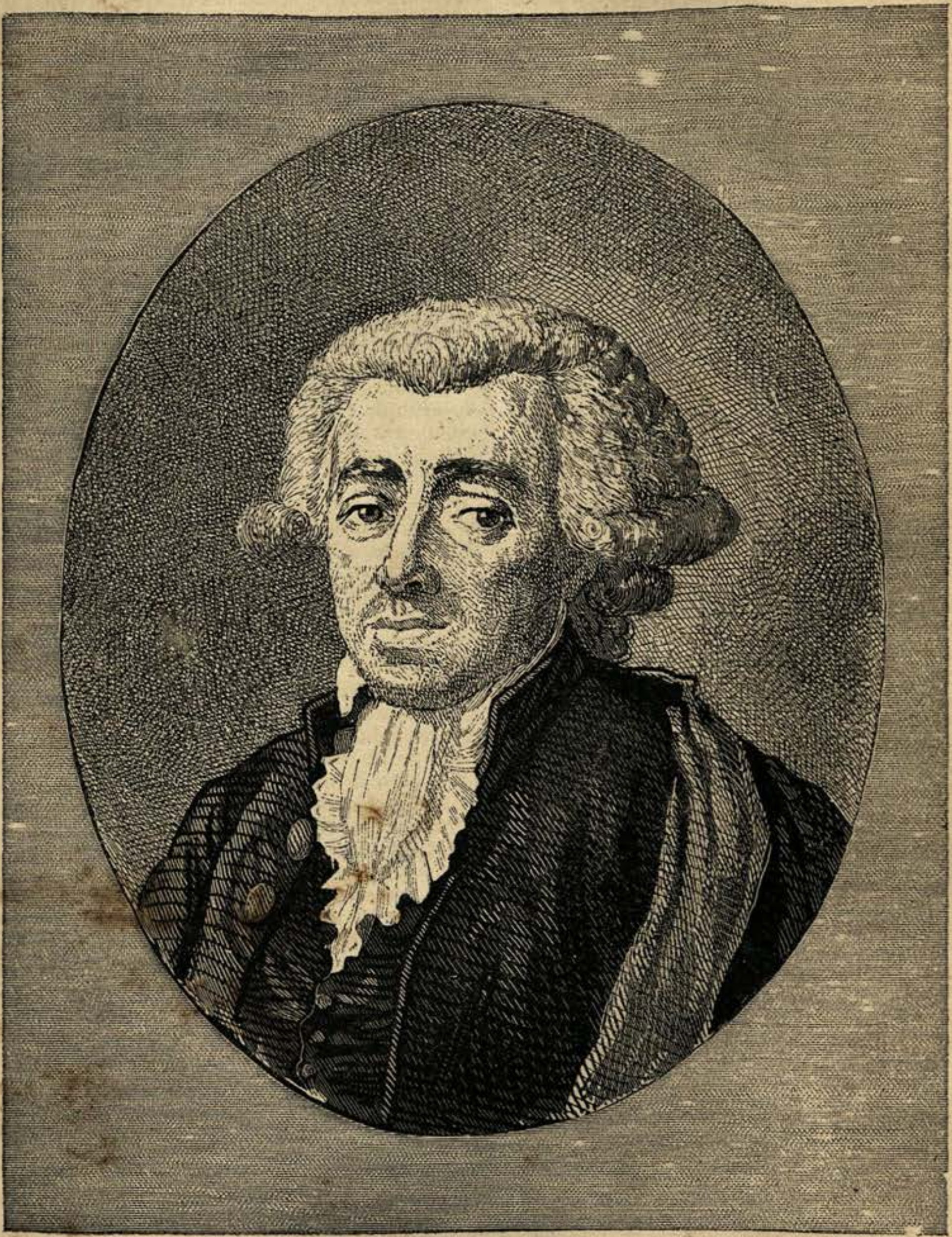
5 *' *(''+ .+$,'+- (,,.(' -+*" +3,('3 *',$, ,$ *!'
,(' ' (' (*("9(*" - *,' *'3 4 '(.+$,'3(,,(' $!'
.3(''(.+$(*,'36 $'$"$*#+$ $) ((*,'4+. 7 (" 3$!-(1
0+*,'9+.-(" - '3 .4'/ (,'-+*" +'3+',('5 *'+44(+$,'
4.0 -9$((/ BB' '($+$(*,'$*$,$-" -(') **('6(.(' -+*"
+' - 3,.$*(' - ' . 8+ $' (' (" 4.- 9-" -(' +' *+$'!'
'+*3(/ (' --'$.' - +0+$$.(./ +0(.'$ *' 4 ' -9+ $,(/
(.'#(.+$(*,')$(*$,') $(.' (." -(0 $." (*0(." +'
*+,$ */ 4 .'*(' '+,+36(.'5 + ' *+.5 (
(,(' ,. 4(/ +$*'$ -$'4 '-(/ '(.+$,' +4-4$*$(.('
-("36(#" -(0 ,.(' +. ((' -(' $9*(' ."+ $ (*!'
,-('4+.'-("'*.* -.+$.(" -('$*- (('4(3(/ (' '(1
.+$,' ('9(. ('$*-4 $'+) (' - ' *+.36$' ((' -3 3$'
$*#+$ $) (' -('0 ,.(A$)(.,-'3$0$ (' (,'4 $,$5 (
(,(' $*',$, ,$ *',3(' '(' (,'36(0+ (.('5 $(' '(.+$,'
-3 (' - ' '4+-+''$*+9(/ --4 ' -,(.*(' -("$ '$ *'
*)$ $+$.(' ' +'3 3+.-(') +*36('(.+$,')$(*# ,' (',+1
$' +*' -('3(,('3 .4 .+,$ *'#+*,+',$5 (' '4(,!'
*' .-4 *-.('5 (' ('3+*-+ (' -(" .9$(" (,' (" (0 1
,$ *" -("4 $9*+.-" *(' '(.(* 0((.+$(*,'4+"' "
* "8(2c
+44((!0 ' +##$9 +*,' ' 0(*$.' -('3('3+,+1
',. 46(" .-((*,(' '(,'5 (("+ $" -(' +' $)(.,-'*(*'
4(.-(*,' + +$" +' - $.(A
A$*0 5 ('$3$' ('3 .+9(' 6-. 5 (5 ('0 "+0(,'
,.' . ' '(. (,'-'A(' -(' + (7 .'5 ('
0 " -#$(U $*#(',(" -('3+* *'/ -(' .,$(." (,' -(' K
)+$ **(,(' / .$(U!. " 0 $-'3(' .! +' $*' $!'
M, $ * -(' +*$''+$.("2' ' '2'3) (0+ / 4 .'(*, !'
.(.'(,. *(' - ' *+.5 ((,'('+*3, +$.(' -(" $'c
BB (' ' ,('-(' - **(.' *(' 9+.-('+ ' . $/ $' * (',
+ 3 * -(' * "5 $ 6('0 (' + !-(0+*,'-('3(,('(5 $1
,+) (' 4. 4 '$,$ *'7 +$" +' *+,$ *' #.+* +$'(* (' - $,'
--$-9 (.'3(-. $,+' 4(.' **(
O$(*'*(''(.+'4 "4. 4.(' +' +$*,(*$.' 6+. *$(/
$,-'- $,-.-,/ -('0(('(,'- $*,(*,$ *'(*,.(, " ("
--4+.,((*,'/ 5 5 -(' (" #+$.('3 *3 .$.'(* 3 !'
*/ (,'2 , ' -(. (/ +' 6 **(.' -('9+.-(.' (.'
4.($(.'# *3,$ **+$.(' (' 8(*''($$'4 ..+$,'* "
4.('(.0(.' -(' ,' '8',-*$(' .-4*) $3+$*' '#---.+,$#'
$*(' .(+,$ *'+* $(((,'4-.$ -$5 (' (*,.(' (' ("--4+.!'
,3.+ *," (,' +'3+4$,+ (7 (*,.(' (*+.5 (' (,' (" 3$!'
8(*'/ (,($*-.+$,'+' + +$" ('9(. (' -("$0+ $,-'/ ("
-0'$ *"3+ '-('%$+.' $*,-.-,' ' ("4.(. 9+,$0(' ' M
' *(' '($%+' 4+" 4 " -$'4(-$(2 4 .' (.' $ - $*!'
-(*$*$'(.' ' +' $',('3$0$ (' ("9+.-(" *+,$ *+ (" 5 $/
, ' +' ./ '(. *'(4 8-(" +' +'9+.-(/5 (' -(' ' $!'
4(*-$(.' *(',. 4(' - *' (' .-9$ (/ +'3 4 '$,$ *'
(, ("4.$*3$4('4 ..+$(*,'4 .,(.' *$).+9(+ '4(4 (
+*,'6 +'3 *#$+*3(/ $'#+*,/ 4 ' -(3$-(.' +' 4.-!'
#-.(*3(/ '('4+3('' " -(2'685$,6('("5 $'4(0(*,'
'(' .-' -.('4+. *' -$ (H$$(' (.' $' '(' .+ $(.+'2'
+' *',$, ,$ *'(,'(*' +44.(3$(.+' (" +0+*,+9('/ '
)$(*$$'' (*' -- +.3#+' (**($
+*" 3 4.($('3+"$' * 8' +'4+" -(' - *,('5 $'
* +33 .-('+'3 *#$+*3(+' -("3$, 8(*"U(-"5 $''(' --!'

D'APRÈS UNE GRAVURE DU TEMPS.



Typ. Henri Plon.

Réimpression de l'Ancien Moniteur. — T. IX, page 477.

Pierre Hébrard, député de Saint-Flour à l'Assemblée constituante.

-,<.1,<7 -,5,<7' 1. / .<7 '' 6'' >>E.<6.E '<6 5.' 6. '
E >;'68 5'.67 ' 6.'7 .'? .66;<5 1 5.'>'<J.1'>.' /;7'
1.'>'<6 6;6 / ' <6 5.6 .5. / .<76 > 4<.' J4.11.' ; - 5.G
.5 >.6 J.1 / .6 >.' ; ,114?7 ,< =4' ?,411' .<7 54' '6'
6.1V 1' '1 / ..'>.'5 J,.%
% <;,<6.=4.<;.'>.6 ?1<! ?.68 Q.' -,46 ?1,?,6.'5.'
?1,Q.7>.'>.;1.7 64 -'<7 I 8
W 17% S$ % .'1,' '41'' 4<.' J'1>.' '4?1.6 >> W'' ?.1'
6,' .8 = > '?,411'' !71.';, / /'<>!.'?,41' '4;4< 6.1- ;.'
?405 ;% $
% ! '7.'J'1>.'6.1'' ;, /?,6!.'>.'=4'1'<5. >.54 ;, / '
?'J< .6 >.' J'1>.6 <'# ,<'5.67
W <.'>.' ; .6 ; , /?'J< .6 6.1'' E,41< .'?'1'5'' J'1>.'
<'7 ,<'5.'>4 >!?'17. / .<7 ,4 5.'1,' E.1'' 6'' 1.6 >.<;.%
& % .6 =4'1'<5.' .7 4<.' ; , /?'J< .6 1.67'<7.6 6.1,<7
E,,1< .6 '<<7 .55. / .<7 .7 '57;1<'7 -; / .<7 ?'1'5.6 =4' 1;'
-<J7 >;4'>!?'17. / ,<76 >4 1,Q<< / .%
1 %#.77.' J'1>.6.1'5<>.7<< 6 !.'5' 7> ' -,V'J.' =4.'>4%
6.Q,41 .7 1.7,41 8 64 -'<7 .7'4@ =4' 6.1' !J !8 6415.'E,,>6
>.'5'' 5 65.' ; - 5.%
% % '' 6,5>.'>.' ; .5 .'71,4?.'2 ; ; .-'5 6.1'' ?'V!.G?.< 8
>'<76,< 6.1- ;.8 641 5.'E,,>6 >.'5'' 5 65.' ; - 5.%
' W % .6 , K; .16 >.' !7'7 / 'Q,1 <!;.66'1.6 ! ;.75.'
71,4?.'6.1,<7 '4 ;0, @>4 1, 8 =4' 5.6 1.<,4-.55.1'' 7,46 5.6
'<6 I / ' 6 56 <.'?,411,<7 !71.' ;5 , 6 6 =4.'>'<6 5.'<, / '
01.'>.6 ,3 . .16 .< .@.1; ;.'>'<6 5'' J'1>.' '7 ,<'5.'>4
1,V'4 / .%Y
% 'N ,4 ' -,46 1'??.5.0 5.'71'<6?,17
J.<.1'5 =4 .@; 5'' >'<' 66. / 05..'5'' 5.771.'?'1'5' '
=4.55.'5.'1, ' -,46 .@?1 / ' 76,< -,.4 641 d.7'05 66.'
<.<7>.']'' / ' 6,< / 5 7' 1.% .6 ?1,?,6 7 ,<6 >4 1,'
,<7 .7;'>,?7>.68 > '0,1>'?'1'; ;5' <'7 ,<8 .<64 7.>
14<'< / 7.% B .67 ;.17' < =4.'5.'1,'>, 7 '-, 1 < '
7 '7 - .'641 7,<6 5.6 ,0Q.76 / 5 7' 1.6% ,<7.<>6 >.Q''
E' 1.' '47,41'>.' / ?'5'' ; ,<;546 ,< =4.'Q.' -,45' 6 <'
> 1;'>.' ;.77.' ,06.1-'7 ,<I ; ;67 =4 '6, 5 >. ;1>7.'
641 5. ; ;' / ?8 .7 ?'1'' ; ;5' / '7 ,<8 =4 4<.'>.?47'M
7 ,< 6, 7 ; ;'1J..'> '55.1' ?1 .1 5.'1,' >#1.?1.<>1.'
." .1; ;.'>.'6.6 E,<;5 ,>6%%%8
< < ''?'6 > 7 !.5'' '47,41'>.' -,46 8Q .7'
1.?,<>6%
>% % !. ' ' ' ,46 >. / '<>,<6 ''
<,46 Q467 5 .1'>.'5 / ?47'7 ,< =4.'<,46 E' 7 % 6\'
7,41 / .5% G1
' ; 'N '<6 =4.55.6 ; 1; ,<67'<; .6 -,46
?1,?,6. 7 ,<>.'1.7'05 1 5.6 J'1>.6 > ' 1, Z '<6 4<
/ , / .<7>.' ;1 6.'.7>.'1.-,547 ,<I.7 6 5 .67 -1' '=4.'
; .' ; ,1?6 >.' 71,4?.6 <.'6.1' 7 ?'6 E4<.67.'>'<6 4<
/ , / .<7 ; 'E / .8 5 .67 -1' ' =4 5 ?.47 ?1,7. J.1'>. '
?1,Q.76 ; .<71.' ,1>1.'?405 ;8 >'<64< 7. / ?6 > ,1'J.'
17>.' ; ,<6?1'7 ,<8 41=4, 'E'47 5 =4.'Q.6, 65 05 J.%
'' -,46 1'??.5.1>.6 ; 1; ,<67' ; ;.6 =4.'7, 47 E / , >.'
; ,<<'77S%%%%% .'=4.55.' / '< .1.'6.1' 7 ; , / ?,6.' ; .'
; ,1?6Z <.'6.1' 7 ; ' ?'6 >.'5'' / '< .1.'=4' ; ,<- .< 8
>1' 7 ;'?546 ''5'' .,41 Z '<6 =4.55.' .5' 6.' ;1,V.0'
-,46 =4 ,<?1.<>1' 7 5.6 ; , / / .6 =4'V 6.1' .<7'>'
/ 6Z .1' 7 ; ; ' ?'1 / ' ; .4@ >,<7 '77' ; ; . / .<7 2 5''
; ,<67 747 ,< .67 ; ,<<4Z ; , / 7.' ;1,B -,46 1'664'
1.1 .< > 6'<7 =4 56 <.'6.1,<7 ?1 6 =4.'?'1 / '5.6 ?.1'
6,<<.6 ' ;74.55. / .<7 .< ' ;7 - 7.'>.'6.1- ;.'>'<6 5.6
71,4?.6 >.'5 J<.8 ,4 '>'<6 5'' J'1>.'<'7 ,<'5.I / ' 6
=4' 5 .'6' 5 ; , / 0 .< 5 6.1' 7E' ; 5.'>.'71, -.1'>'<6
5.6 71,4?.6 >.'5 J<.'> @ :4 7 ; .<76 : , / <.6 ?1>76 ''
6.7>.-,<.1' '' 4<.' ,@ <71. 1.-,547 ,<Z ' .67>,<.' ;5' 1'
=4.'5.'>'<J.1'.67 5.' / > / .'=4.'6 5 .7' 7 ?,66 05.'>.'
5.6; ; , 6 1'?'17,47% .' ;1, 6 =4 .< ; .' / , / .<7<,46
<.'>.-4<6 <,46 , ; ;4?.1' .< '4>5 <.' / '< .1.'>.'5''
J'1>.'>4 1, I =4 .55.'1.67.' ; ,<E . ' '' 5'' - J 5'<; .' .7
'4 ?'51 ,7 6 / .'>.6 ; , / / .6 '1 / >6N -, 5'' 5'' / .641.'
=4' ; ,<- .<7 '4@ ; @,<67'<..6% & .6 71 5\4<.6 '?'
?5'4> 66.<7%P
' 1 2 .' ; , / / .<; .'?'1' ,06.1-.1' =5 .5''
?1,?,6 7 ,< >4 ?1>,?<'<7 5.<>1' 7 '' 5' 66.1' .< '1'
1 .1.'5''>!; 6 ,<> 4<.'>.6 ?1<; ?'5.6 =4.67 ,<6 !,<Y
6 747 ,<'.55.6% ,06.1-..<64 .F

6 7> 4< / , / .<7 >.' 1.; ,<<' 71.' =4.' 5.' 1, ' .6
1.?1.6.<7'<7 >4 ?.4?5.8 ?.16,<<.' <.' ; ,<7.65.1
=4 5 .67 4< ?,4-4 18 4< ?,4-, 1 6' ;1.8 ?546 47 5
= 4< ; ,<6. 5 .@. .47 E8 ,4 7,47.' '471.8 .6?...>.'>.'
5.J'7 ,< >.' H'45,1 7.' <'7 ,<'5.' .@. ;47 - .8 .78 6,4
; .'1'??,178 5 >, 7 ' -, 1 4<.' J'1>.' ?'17 ; 5 .1.I ;''
5.' ; ,1?6 7>J 65'7 E 54 / > / .'8 4 ' !J'7758 7' >1,'
55 / 7>% 471.'5'' <>; .66 7> > ;EE ? ; ..1 =4.' .'17
<' 7 7.1>7 2 6.' .1- 1 >.6 71,4?.6 >.'5 J<.8 5 E'7
; ,<6 >.1.E =4.'5.6 ?1 <; .6 Q467.68 .<<. / '>.6 '046
,<7 .7> >.' 7,47 7. / ?6 5.6 ?546 .@?,6>68 .7 : 6
5, 1.'<, ' ,5 1.' 4<.'E,45.'>.'?1. .6 >; ' ; .77.' 66.7
7 ,<N
% H !7.'4 .<71.'>'<6 4< J1'<> <, / 01.'>.'>.7' 56 : 7
7,1 =4.68 .7 ; ,<.547 ' ; .'=4.'5'' J'1>.'>4 1, '6, 5 ?,17!.'
71, 6 <= .'0, / / .6%
'' ; !') & ' !' ,)) !$ # O
!= !' ,* !# ' != ! ' !<A'C!') '
+#!'C!' !') ! 'C & ' ' # !'))# !)!' %!'
)! C ! ' ! ! (B#, ' !' # '#'
!' !'<# ! (# ' = ! (! ' *# ! (! '
!# (C,> ! ! A & 'C!' !' # ' ! ' !' >)
&!' ,# != !' & !
' ! = ' ' ' ' $ ' : ' '
)! !' & !' & !' # ' !' !' +#!' ' !!'
' ,# !' ! ' +#! ' !' # !' ! ! ' '
!) ' !' ', # !' ' ! :! ') & ! ' '
:C! ' !<) ; ' . ' & ' &!!' # ' !'
' ! !' & !' # !&! +#!'Y % !' +#!' &
: !' ! ! !') & !Y .)! !' & ' ! '
! !' >!!' # ' ' !' ! % !Y ,1 !&: !' '
, : ' ! ' # ' % ' # ' ' !& !' !')! [+#!'
g g ((
C' (" ' 4! !' & ! !' !' ! ' '+#! '
! ' !+#% +#!' ' ' $ # ' !; E ' & ' & !' #)
)) # ! !' # ' ', % :!!&! ' %!!' !' ! !' '
', & !'Y ((
% '1.-.55 !1,' <6 67.'?, ,1'=4.'5'' =4.67 ,<6.<7 ?,6!'
'<6 '=4.' - .<'>.'5.'?1,?,6.1' % K.'40'1<' 6%
% 6< 'I .' ; , / 7> <.'?1,?,6.'?'6 =4
5'' / ' 6,<>4 1, 'E'66.?'17 .'>.' '1 / !.8 / ' 6 6.45.'
/ .<7=4.'5.6 J1'>.6V 6, .<7 5.6 / . / .6 ' 5 E'47 >,<
?,6.1' '<6' 5'' =4.67 ,<N 5'' J'1>.' >4 1, ' '41'' 4'
'-'<; . / .=Q / 5 7' 1.'641 .55. / ! / .8 .7 <.'?,411
;<71. G>'<6 5.6 1>J / .<76 >.' '1 / >.%
'4# 2 3D;' !' ' #') & !' !')
4 # HD! ' H CA' 'H
' 2 '# @(',' *('5 *(',$4, ! $ $*+$.S (
5 $ (' 4+.+,' -(0 $.,-,.(' +$LR $ % .$,'3(('' 5'
* '' ' *,' ' $$ '(%7 (%(' 3($ (' -('+0 $.' '$ ('
4 ..+ 3 +*-(.' +. (((*' 4(.' **(' $ ((,+$
+ 4$*$ * -(' ' ( ), \/ "!4(*'(%5 (' +'9+.-(' -<
. $-(0.+$, ,.($,+$, (%D' %
(% , 'A ' ' !'$ # ' '+#!' !' ' # !' ! '
' & ' !<- $) ! ' # ' ! C ! !' '
', &!!'L!' !& !' +#!')! !' D S '
&! !&! !-! L,)!'
' 0 " ' 2 ' ; 4! ' ! 'C# !A & ' '
' ! ') %! ! ' ' !-) ! ' +#, !?!' !' $! '
' ' !' ', & !' R ' &# &# !(\' 1 -! ' % '
!) ! !' +#,! !' # ! ' # ' ! ! & !(! ' +#,! '
!' # ' !' !& >4!' ' #)# ' ! %)!' #:)(C
!' ' ' , # !#%! ' %! ' !) !' ! ' +# '
,$ -('
'% A 'J 1# '% ' !(E !' !- ! ' '
'4# 2 3D;' 2 # ' ! ') >! ' ' !' ' != '
! ' !' !& ! ' & = ' !' ' 'L!' !& '
+#!' !' ! %)!' '$ ' # ! ' !' #' ' '$! ' '
= &! ' !' ', &!!(' # ' !' !' E
(2 " ' ' " ' ' !) ' +#!'C!' '
!' Q Q
\ .'1,' '41'8 <>!?.<>'E5 / .<7 >.5'' J'1>.'>0,'1 .7'
=4'54 ,6.1'' E,41< .'?41'5.6 .57,V,<6 J'1>.6<'7 ,<'5.N >&
,D '+ F *$ " *+$$ + +

5'' 5 65.' ; - 5.% #;4@ =4 ' ; , / ?,6.1,<7 5'' J'1>.' >4 1, ' ,45.1,<7 .@;5,6 - . / .<7 >6<6 7,<6 5.6 J1'>.6 641 8.4@' / <.68 6'<6?,4-, 1 .<>1.'7 1 6?,41 .,71.1>'<6 '1/ .' >.'5 J<.%Y

.'?'1'J1'?:.' (',' -/-3.-,-

% 0,,1.7E' 7 5.;741.' >'' 6.;,<>'?'1'J1'?:.'N W '' J'1>.' >4 1, '6.1''?1 6.'>'<6 '1 <>.'>.'5 J<.8 .7 ?'1/ '5.6 ; 7,V.<6 .< ';7 - 7V >.'6.1- ;.'>'<6 5'' J'1>.'<'7 ,<'5.% \

' B 'N .'>. / '<>.'=4.' ; .77.' J'1>.'<.'?4]6.' E' 1.'6,<'6.1- ; .'=W.'?'1'6. <.671.%

' 'N 7.5'' 1.J'1>.' 1J'<6'7 ,<'>. ' 7' 55>.8 =4 ' - ,46 6.1'' ?1.6. 7>;'?'1'5.' ; , / 7.' / 5 ' 7' 1.%

' ; 5 ' '5 =3 ' . 7N .'>.' / '<>.'=< ' '' / , <68 ?,41 .<71.1>'<6 5'' J'1>.' >4 $1, 8 5 E' 55.' J71.' ; 7,V.<E1'<J' 6%

% 5.@'<>1.' ' / .7:' :'466.'5.6 #?.45.6

'8 ''' ' ,<6'5.6 ; 7,V.<6>, - .<7 1.' <6;1 76 641 5.6 1.J 671.6 >.6 J'1>.6'<'7 ,<'5.6I ' <6 ' : ' 7.<7 ,<'>4 ; , / 7.8 =4 ' '' 6'<6>,47.' .<' ?,41 K47 >.' ; , / ?,6.1 5'' J'1>.' >4 1, ' >.' ; 7,V.<6?'71 ,7.68 6. ' 1' 7 / '<=4 .' ?'1 5'' > 6?,6 7 ,<'>.' 6,E7 '17 ;5.% .' >. / '<>.'=4 5 V 6, 7 > 7N W '1/ ' 5.6 ; 7,V.<6 <M 6;1 76>.?/6 4<' '<'641 5.6 1.J 671.6 >.6 J'1>.6'<'7 ,M <'5.6%$'

' ; 'N .'>. / '<>.'6 8 ?'1 .@. / ?5.8 5,16 ' =4 ,<'6.1''?'1-.<4 '4 J1'>.'> ,E ; .1 J.<.1'5 >'<6 5'' / ' 6,<'44 1, 8 ,<' ?,411'' .<71.1>'<6 '1/ ..' '-.;' 5.' / > / .' J1'>.%

' . 0 ' 'N 3 4'<>' ; '6.1''?'1-.<4 ' 5 J1'>.'> , 5; .1 J.<.1'5 >'<6 5'' / ' 6,<'>4 1, 8 5 <V ''?'6 >.'>,47.'=4 ,<'5.'; ,<6.1-.1''>'<6 '1/>.% ' & <'1,41/41.'>'<6>-.16.6?'17 .6>.'5'' 6'55;%P <F <.' ; : .1; : .' =4 '' ' - 5 1 7,47 ; .' =4 ' '??1, ; : .' >.'5'' ?.16,<<.'>4 1, % .'>. / '<>.'6 8 '?1Y'5.6?1.;'4M 7 ,<6?1 6.68 5?.<7 1.67.1>.6 <=4 .74>.6 '' 4<'6.45 :, / / .'>.'0,<<.'E, %

.'6.;,<>'?'1'J1'?:.'.67>>.1>7.' ' <6 '=4 5 64 7 7 ' ' '' J'1>.' >4 1, '6.1''?1 6.'>'<6 '1/ ..'>.'5 J<.' .7 ?'1/ '5.6; [V.<6 .<';7 - 7.'>.'6.1- ; .'>.?4 6 4<''<'>'<6 5'' J'1>.'<'7 ,<'5.%Y

C ' - 'N <'' >.Q'' 'J 7>'>'<6 ; .77.' 66. / ' 05>.'5'' =4.67 ,<'>.' 6'- , 1 6 '5.6 / .1,01.6>.'5'' E'M / <.' 1.J<'<7.' ?,4-' .?7 Q,4 1 >.6 >1, 76 >.' ; M 7,V.<68 .7 -,46 '-.071,4-..'66.0 / ?,17'<7.'?,41 5''1.<-,V.1 ' H.@' / .<'>.'-,6 ; , / 7>6% .@;546 ,<' >.6 >1, 76 ?,5 7 =4.6 ?,41 5'' E' / 55.'1,V'5.'.67 E,<' >..'641 <7>1 7 >.' ; ,<6.1-.1 5'' ?41.7.'>4 J,4-.1' <. / .<7 1.?1>6.<7'7 E .7 5'' > 67 <;7 ,<'>.6?,7 - , 16% 5.'' ?,5 7 =4. / .<7 >.6>1, 76> EE>1.<76>4 1.67.'>.6 ; 7,V.<6I 5.'?,4-, 1 .@>;47 E .67 6,<'?'71 / , <.8 .7 .@;546 ,<' =4.'<,46 '5 .<6 8V,46 ?1,?,6.1 .67 4<.' ; ,<6.=4.<; .' <>40 7'05.' >.' #.6 / > / .6 ?1 <; ?.6 ?,5 7 =4.6% <'>. / '<>.'6 '5'' <'7 ,<' ''5.'>1, 7>.'54 ' % / ?,6.1 ; .77.' ?1 - '7 ,<% 4 8 ?'1 5'' / J / .' 1' 6,<' =4 .55.' '' .4 5.'>1, 7 > V ?5' ; .1 5'' 64067 747 ,<' : .1> ' > 7' 1.' ''5'' ; ,41,<<.I / ' 6 ; , / <.' ; .'< .67 ?'6 .E ' E.7 > 4<.' >.J1'>'7 ,<8 5 .67 Q467.' >.' 1.<>1.' ; .57.' ?1 - '7 ,<' : ,<,1'05.'?'1'5'' ?'17 ; ?'7 ,<' '' 4<.'?1.M 1,J'7 - .' ?'17 ;45 >1.I .7 ; .' / ,V.<'<,46 '' ?'17 5.' / . 55. 1?,41 ; ,<6,5 >.1>4<.' / '< >1.' <>.6714;7 M 05.' '0,5 7 ,<'>.6 ?1 - 5.J.6 .<71.' 7,46 5.6 '471.6 ; 7,V.<6% '5'' E' / 55.'1,V'5.'Q, 7> 4<.'?1.1,J'7 - .' / ,7 ->.'641 4<'?1 <; ?.'?'17 ;45 .1 '??5 ; '05.' ''.55.' 6.45.8 -,46 <7.1.66.0 ' >>714 1.'7,47.'> 67 <;7 ,<' =4 ' <.' 6.1' 7 ?'6 E,<>..'641 5'' / > / .' 1' 6,<% .' < .@' / <.1' '?'6 5''?,6 7 ,<' ,7 '<,46 <,46 71,4-,<6% ' .67 ; .?.<>'<7 71>6 : .41.4@'=4.'5.6 / '@ / .6 ; ,<' 65 7 7 ,<<.55.6<.' ; ,<71'1 .<7 ?, <7 5'' ;1.'7 ,<'> 4<.' > 67 <;7 ,<'=4.' >>6 1.<7 >.6 : , / / .6<,6>J'4@'?'1 5'' <'741.8 .7 =4 8 ?,41 ,07.< 18 6 '??5 =4' .<7 '' %'1 / .1 ; ,<71.'5'' H1'4 ; .% ,46 6, / / .6.<71'->6 ?'1 5'' =4.67 ,<'?1>'5'05.'>>;1>7>.'64 B .'7 71.'>.'?1 <;.8

=4 5 -,46 '' >7>'?1,?,6>' > ' ; ; ,1>.1' ' @ / . / 01.6 72.' 5'' >V<'67 .% .47 >71.' <.' - ,46 ;1, 1.0 -,46 ?, <7 >.K< 7 - . / .<7 .<J'J. 6 ?'1 ; .'>. ;1.5N / ' 68 6 ' - ,46 5.' ?.<6.08 <,46 .6?>1,<6 =4.' - ,6 54 < .1.6 71,4-.' 1,<7 4<.' ,4 - .1741.'?546 : .41.46.'=4.' ; .55.'=4.'<,46 ' - , 6 E,<>..'?,41 ; : .1; : .1 4<.'> 67 < ;7 ,<' P,4,1 ' K=4.%

, ; ' '17 ;5.'=4.'<,46 - ,46 ?1,?,6,<6N

& .6 / . / 01.6>.'5'' E' / 55.'>4 1, 8 >7'<7 6.456 '??.5>6 '4<.' > J< 7> 0>E>> 7' 1.8 E,1 / .<7 4<.' ;5'66.'> 67 <J4>.' >.6 ; 7,V.<68 <.'?.4-.<7 .@.1; .1 '4;4< >.6 >1, 76 >. ; ' 7,V.< ';7 E8 .7 < ,<7 > '471.'>1, 7 ?,5 7 =4.' =4.' ; .54 '>.' 5'' 64; ; .66 ,< >1;<74.55.' '4 71><.'N 56 ?,17.1,<7 5.'5 71.' >.%%8%% Y

G ' /8 'N .'Q ' =4 4<' / ,7 '' > 1.' 641 5'' 6.; ,<>.' ?'17 .' >.' '17 ;5.' =4 ' - ,46 .67 ?1,?,6.N . .67=4.'-,46 '-.0'1.Q.7..'>1.;7. / .<7 5V '' ?.4'>.' Q,416%

3 4'<7 '' 5''=4'5 7>'>.' ; 7,V.<' ';7 E8 Q.'>. / '<>.'6 ' . .67 ,<'<,<'?,41 '-'<7'J. >.6?'1.<76>4 1, '=4 ,<' -,46 ?1,?,6.'>.' 5.6 .<' ?1 - .1% ' ; .65 ?,41 5.41 '-'<7'J.8 4<' '17 ;5.'>.' -,71.' ; ,<67 747 ,<' 6 V ,??,6.' E,1 / .55. / .<78 .7 ; .7 '17 ;5.'5.'- , ; N W ' < V '' ?546 ?,41 '<;4<.'?'17 .' >.'5'' <'7 ,<8 < '?,41 '4;4< < ' &5 - >48 '4;4<'?1 - 5>J.'<' .@; .?7 ,<' '4'>1, 7 ; , / ' <4<'>.'7,46 5.6 H1'<; 6%Y ' ; .' < .67 ?'6 ?,41 ' ' -'<7'J.' >.6 ?'1.<76>4 1, ' =4 ,<' -,46 ?1,?,6.'>.' 5.6 1'V.1>.' 5'' 5 67.'>.6 ; 7,V.<6 ';7 E68 Q.' 6,47 .<6 =4.' -,46 < '-.0 ?'6 5.'>1, 7 >.' ?1<<,<; .1 ; .77.'1'M > '7 ,<% ,46 '-.0 >.;5'1> ; 7,V.<6 E1'<J' 6 ; .4@ =4 ' 6.<7 <>6 .<'H1'<; .' > 4<'?.1.'E1'<; ' 6% 1 . .67 .<'H1'<; .8 .7 . .67 >.'?.1.6 E1'<=' 6 =4.F 6,<7 <.6 5.6 <> - >46 >,<7 ' 6 'J 7 >'<6 5.' ?1,Q.7 >.' -,6 ; ,M / 7V%

,46 '-.0 -,454 =7 '<' / ,V.<'>.' ; ,<> 7 ,<6 E' ' ; 5.6 ' 1. / ?5 1 7,47 <, < / .'>'<6 5.' / ,<>.' ?E57 >.' -.< 1 ; 7,V.<'E1'<E' 6I ,1'Q?'>. / '<>.'6 '5.6?'1.<76 >4 1, '6,<7>.6 : , / / .6%

,46 '-.0 > 7 =4.'5''=4'5 7>' >.' ; 7,V.<' E1'<; ' 6 <.'?,<-' 7 6.' ?.1>1.' =4.'?'1 4<.'1.<,<; '7 ,<' - , ' 5,<7' 1.8 ,4 ?'1 >.6 ; , >' / '<'7 ,<6 =4 ' 6<??,6.<7 4<' ;1 / .N 6 '>,<.'; .'< .67 ?'6 4<' ;1 / .' ??41 / , ' > >71.'<>'?'1.<7'>4 / ,<'1=4.8Q.'<.'?.4@'?.1>1.'5'' =4'5 7>'>.'; 7,V.<'E1'<=' 6 =4.'?'1 4<' ';7.' 5 01.'>.' / '' -,5,<7.%

7 =4 ,<'<.' / .'> 6.'?'6 =4.'Q.'6.1' ' ; 7,V.<'E1'<' I ' 68 / ' 6 =4.'Q.'<.'?,411' ' >71.' ; 7,V.<' ';7 EI ; '18 '-'<7> . / ?5,V.1 ; .' / 6>1'05.'6407.1E4J.8 5 E'4>1' 7 .@?5 =4.1 ; , / / .<7 ; .54 '' ?.47 >71.' ; 7,V.<'=4 8 >'<6 '7 ;4< ; '6 < ' '' '<;4<.' ; ,<> 7 ,<8 <.'?.<7 .< .@.1; .1 5.6>1, 76%

'E'4>1' 7 .@?5 =4.1 '4665 ?'1 =4.55.'0 0'11.1 .'5.' 64??5>'<7 5.'?546 >, J<>'>4 / ,<'1=4.'<.'?,411' 7 ?'6 >71.' / . / ,1.' >4 ; ,1?6 5.J 65'7 E8 7'<> 6 =4.'5.' 64??5>'<7%5.'?546 / / >> '7 > 4<' / . / 01.' >4 ; ,1?6 5.J 65'7 E?.<78 6,46 5.'5 71.'>.' / < 671.8.@.1; .1 7,47.' '47,1 7.'>4 / ,<'1=4.%

4 641?546 8Q.'<.'; 1, 6 ?'6 =4.'-,6 ; , / 7>6 .<7.<' >.<7 ?1 - .1'4;4<'?'1.<7 >4 1, '>.'5'' E' ;457.'> ,?7.1 .<71.'5''=4'5 7>'>.'; 7,V.<'E1'<; ' 6 .7 .@?.;7'7 - .8 6, 7 ?1,;<' <.8 6, 7 > , J<>.8 >4 71,<.%

.' ; <;546 >,<.' '' ; .'=4.' - 46 1.Q.7 .0 ?41. / .<7 .7 6 / ?5. / .<7 '17 ;5.'>.' - ,6 ; , / 7>6I / ' 68 >'<6 5.' ; '6 , 5 -,46 '>,?7.1 .08 Q.' >. ;5'1.'8=4.'Q.'>.' ?,6.1' '641 5.'041.'4 / ''1.<,<; '7 ,<'E,1 / .55.' ' @ >1, 76 >.' / . / 01.' >.' 5'' >V<'67 .' 1. J<'<7.8 ?,41 / .<7.< 1 '; .4@'>.' ; 7,V.<'E1'<; ' 6%

% > 1>'<6 >.6;.<>'>.'5'' 71 04<.' '< / 5 .4 >.6 '?' ?5'4> 66. / .<561>51>6>.'5'' J1'<>.' / 'Q,1 7>'>.'1 66. / G 0 >.' .7 >.671 04<.68

<.'J1'<>.''J 7'7 ,<1 J0.'>'<6 7,47.6 5.6?'17 .6 >.'5'' '55.% +'34.5=<.6 / <47.66.'?'66.<7% +' .6 '??5'4> 66.' / .<7''1.; , / / .<; .<7%

' " / ' ; ,1) & : ! !' ' !) ' & ,! !' !' !

[illegible]

V ʼ?,41ʼ>7.,4 11ʼ.71ʼ` , / ?.<6.1ʼ5" -.174ʼ =4.ʼ?,41ʼ1 ʼ
?1 / .1ʼ5.ʼ- ;,% < / '5 1.ʼJ1'-.ʼBE'477,47.6ʼ5.6ʼ54 / 1.6ʼ
>.ʼ1 - >.<;.ʼ5" ?546ʼE1'??'<7.ʼ 1,41ʼ . ,<>' / <.18ʼ '4ʼ5 .4ʼ
7 4.?,41'06,4>1..75.6' 6ʼ5ʼ '->. / .<7ʼ4< 6 / ?5.ʼ>, ,7.%
7ʼ=4,ʼ>.ʼ?546ʼJ1'-.8ʼ=4,ʼ>.ʼ?546ʼ / ?,17'<7ʼ=4.ʼ5"=4.6M
7 ,<ʼ>,<7ʼ c6ʼ'J7Z 34.67 ,<ʼ 4ʼ < .< 6.1" ?'6ʼ4<.ʼ6ʼ ,<ʼ
1.6?.;5.ʼ-,6ʼ> ;1.56ʼ ; ,<65 747 , <<.568ʼ,4ʼ6ʼ ,<< .<E1. <7ʼ
Q1'6ʼ7,<6ʼ5.6ʼ?1 <; ?.6ʼ>.ʼ '=4 7>% <E <Q ,6.ʼ-'<;.1ʼ=4.ʼ
E' 55 05.ʼ / ,V.< >.ʼ1.<>1.ʼ5" E'1' 55.ʼ1,V'5.ʼ7 / .ʼ;'67.ʼ
-.1 7'05. / .<7ʼ>'4J.1.46,8ʼ . .67 >G'>,?7.1ʼ5.ʼ > ;1.7ʼ=4"
,<ʼ-,46ʼ?1,?,6.% <. .78 .ʼ5" ?1 -'<7ʼ>4ʼ<,05.ʼ>1,07>.ʼ
6.1- 1ʼ6,<ʼ?'V68ʼ.<ʼ . ;'17' /ʼ> . 5.ʼ7,47. >>.ʼ>.ʼJ5, 1..7ʼ
>.ʼ0 .< ?405 ;8ʼ-,46ʼ5" >>-.4.b "5,46 5.6ʼ- ; .6ʼ?1,>4 76ʼ
?'1ʼ B41 J4.ʼ .7 , 6 -.5>% #.4ʼ=4 8ʼ?'1 / ʼ .4@8ʼ< '41,<7ʼ
'4;7<.ʼ <. .81' / ?.1,<7ʼ6.1- 5. / .<7ʼ'4ʼ? .>>4ʼ71> .8ʼ
.7,07 ,<>1,<7?,41ʼ.4@ .7 ?,415.416ʼ' / 6ʼ5.6ʼJ1';.6ʼ>4.6ʼ
'46.45ʼ / 17.% 56ʼ ;'0'5.1,<78ʼQ56ʼ <71 J4.1,<7ʼ>'<6ʼ 6G
6. / 05>.ʼ<'5 ,<'5.ʼ'-.;ʼ / ,<6ʼ>.ʼ ?14>.<;.ʼ =4.ʼ6 56ʼV
. ' .<7ʼ.4@ / ' / .68ʼ.7ʼ=' 56ʼ 466.<7ʼ?'1ʼ; ,<6.=4.<7ʼ,050ʼ
J.6> V / '< E.67.1ʼ?.16,<<.55. / .<7ʼ5.416ʼ,?< ,<6% #.4@8ʼ
'4ʼ; ,<71' 1.8ʼ=41ʼ6.1,<7ʼ< 6ʼ'-.;ʼ>4ʼ; ,41'J.ʼ .7ʼ>.6ʼ7'W
.<768ʼ;0.1.0.1,<7ʼ" 6.ʼE. 1.ʼ4< ?'17 8ʼ.78ʼ< 'V'<7ʼ1 .< "
'77.,>1.ʼ>.ʼ5" ?'71 .ʼ=4ʼ5.6ʼ "1.0.7>6ʼ>.ʼ6,<ʼ6. <8ʼ6 56ʼ?'1G
- . / .<7ʼ2ʼ';=4 11ʼ>4ʼ;1.> 78ʼ56ʼ4.ʼ . / ?5, .1,<7ʼ=4 "
6'7 6E4 1.ʼ4<.ʼ' / 0 7 ,<ʼ=4 8ʼ>'<6ʼ5.41ʼ?.6 7 ,<8ʼ<.ʼ?,411"
Q' / ' 6ʼ>71.ʼ<,05.ʼ .7ʼ?41.8ʼ.7 7,46ʼ6;1, `7ʼ'< / 6ʼ> '< 6.<M
7 / .<7ʼ; , / / 4<ʼ'5" 0' <.ʼ>.ʼ5";,<67 747 ,<ʼ=4ʼ5.6ʼ.@.547ʼ
>.ʼ&,478ʼ.>ʼ .ʼ>>6ʼ1ʼ>.ʼ5"1.<-.16..%

8(Uʼ+*ʼ3 *,.+$.(ʼ3(ʼ5+ $ʼ(',ʼ4 ''$) (ʼ-%(*ʼ+,,(*-.(ʼ'$ʼ ,D+ .ʼ-(ʼ +ʼ4+,.$(ʼ ("(*,+ (7 (,(Uʼ0 " .(9+.-"' .ʼ *ʼ<A(" .((, *" -(ʼ3(,$(ʼ.+3(ʼ5 (ʼ$ *ʼ0 "4. 4 '(ʼ-+0$!ʼ $.ʼ 4($*(ʼ' .,$ -(ʼ (*#+*3(/ʼ 7ʼ+ʼ-($ʼ(ʼ ('ʼ) *)(*.ʼ-(ʼ '+ 0(.ʼ +ʼ0$(ʼ2ʼ$. $"3$, 8(*"+*ʼ4-.$ʼ-(ʼ +ʼ'$(**+ʼ +ʼ0$ (ʼ -(ʼ (*-- (ʼ $ʼ+ʼ--((.*(ʼ *(ʼ5 . *4(ʼ3$0$5 (/ʼ +6(!ʼ .(2ʼ(*#+*,Z '(.+!3(ʼ,+ʼ4.($)$(ʼ(,ʼ +ʼ-(.*$-.(ʼ5 (ʼ,+ʼ.+3(ʼ),$(*-.+ʼ-(ʼ +ʼ*+ $ *,ʼ< *ʼ+44 + -$,? */ʼ ('$(.'/ 0 " '(*,Z.(Uʼ (" ($$'-5 (*3(" - ʼ --3.(,ʼ5 (ʼ $ʼ0 " 4. 4 '(7 +ʼ ',$3(ʼ(,ʼ +ʼ'*$*(ʼ4 $,$5 (ʼ,(ʼ.-4. 0(*,ʼ-9+!ʼ (($$,/ʼ " +0(Uʼ'+9((*,ʼ $,ʼ- +33 .-(.ʼ5ʼ $.$,$(.ʼ 4.-' 4,$# -("4.(. 9+,$0("4+.,$3 $-.('7 +$ʼ ("+ ,.(" ( )$%('-(+ʼ#+ $ (ʼ. 8+ (/ʼ '5 + -4 5 (-/ʼ4+.ʼ(.ʼ *+$''+$$3(/ʼ \ʼ4(0(*,ʼ +* (.ʼ+>ʼL(ʼ,.-*(/ʼ*(ʼ- $0(*,ʼ-$.(ʼ 5 (ʼ-(ʼ'$ 4 ("($ 8(*'ʼ) 3)$(+ʼ ʼ'(.+$,ʼ)(.(2ʼ 4 .ʼ(($ 5 $ʼ'(.+$,ʼ+44(-ʼ2ʼ ʼ4(',(ʼ.(- ,+) (ʼ-%+0 $.ʼ ʼ(**5 (,ʼ.(',4 $ʼ ("-(0 $."-(ʼ $ (*/ʼ(,ʼ- +0 $.ʼ(ʼ)(*!ʼ $$(% .ʼ/ ʼ-(#($+-.(ʼ'("3 4+,. ,('3 +,.(ʼ (" ' .4+,$ *" - ʼ4 @ &@0ʼ5 $ʼ(ʼ,ʼI B$ ',+*,ʼ- ('(.3(.ʼʼ +$$, "5 + ʼ3 *!ʼ ,.+$.(/ʼ '$ʼ((ʼ--(.(ʼ$$ ''+@/ʼ +ʼ*+,$ *ʼ*(ʼ4 ..+$,ʼ+,,(*-.(/ʼ 4 $%.'0(*$./ʼ-(ʼ(($ (ʼ $$"$ (ʼ- .+- (ʼ(=ʼ4. '(.$,(ʼ($0 (!ʼ (*,/ʼ5 (ʼ-('.-9(*,'( )$ $(U/ʼ-(" $"$)-($ (" (,ʼ-(5ʼ !,8.+*'ʼ< 0(+ ʼ@+44$+ , '((+,'? G

.ʼ#,<;546ʼ 7ʼ5" =4.67 ,<ʼ?1>'5'05.ʼ641ʼE.ʼ<,4-.ʼ'<ʼ?1,M Q.7ʼ?1#6.<7ʼ ʼ?'1ʼ .ʼ; , ' .>7.1>- 607<8ʼ.7ʼ'4ʼ / ' <7ʼ.<ʼ>4ʼ >>.1.7 ; ,<67 747 ,<<.5ʼ=4.ʼ-,46ʼ'-.0ʼ>.00ʼ6,7. / .55. / .<7ʼ > ;1.7>8ʼ& .6ʼ'??5'4> 66. / .<76ʼ-.., / / .E7..<7%P

<ʼ>. / '<>.ʼ ʼJ1'<>6ʼ ;1568ʼ>'<6ʼ> -.1J.6ʼ?'17 .6ʼ>.ʼ5" 6'55.8ʼ7 / ?1.66 ,<%>4ʼ> 6; ,416ʼ>.ʼ 8ʼ 55.1V%G+ %5.ʼ?1.6 M >.<7ʼ <.ʼ / .7ʼ?, <7ʼ1 / ?1.66 ,>ʼ '4@ @% QE.6ʼ ; 6ʼ

ʼ * +ʼ! V

ʼ]6. / 05U"ʼ.1>, ' , .ʼ 7 / ?1.66 , " >4ʼ > 6. ,4 6ʼ >" Q ;1V8

%5.ʼ?1.6 >.<7ʼa-.ʼ7"6>'<..ʼ `71, 6ʼ0;41;6%

3 + $(ʼ " % C '(+$*ʼ -,4 '/ʼ,.+9G-$(8.$!ʼ ,.$5 (/ʼ' 0(ʼ- $ʼ* 0(+ ʼ-$0(.,$''((*,

& &&ʼ &ʼ,'ʼ ,O #/V * ʼ + $ 8$ʼ -4 < ʼF ! & ʼ+0(4ʼ *ʼ-$'(., ''((*,/

&ʼ% ʼ+ , ,(" ʼ(,ʼ8 ʼ ʼ &Aʼ 9 ʼ $

- ʼ1 ʼ. (ʼ,-(ʼ $36 $(/!!! Aʼ5" 4. '(*,+,$ *ʼ-(ʼ ʼ8 ʼ4$(3(ʼ*+ $ *+ (ʼ *ʼ +3,ʼ ('/ʼ4.(3(--(ʼ-("- ʼ ʼ8, ʼ9

- . 9 ʼ .ʼ+ ʼ ʼ. >.-'<7ʼ>.ʼ ,<6 .418ʼ
+ 40%71ʼ ʼ; , / >> .Iʼ ʼ ., / ;6ʼ
> .8ʼ.7ʼ)9 ʼ,?.1' E,5 .8
<ʼ'77.<>'<7ʼ5" h'1.?1>6.47'7 ,<ʼ ʼ ʼ8 ʼ<
;?=1" ' .<8ʼ8

'4ʼ '5' 6ʼ
,V'58 % 40% 5" UG 1.?1>6.<5'5 ,<ʼ)' Aʼ
&ʼ,?>1"<,4-.'4ʼ.<ʼ ʼ';7.6%
%% . / ' <8ʼ6?.;7';5.ʼ>. / '<>68ʼ ʼ71'J.> .%

" '4ʼ '5' 6 ,V'5% +ʼ 40% G
V / ?: ,< .6ʼ> B'V>< .7>.ʼ ,6. 7 %+ 5.ʼ '.ʼ / 0.ʼ;.'<ʼ
5.1" 4<ʼ' 1ʼ>.ʼ # / '1,6'% +ʼ ?4-.1741.ʼ> R? Q.< ;8 +ʼ
% #' 55'1>ʼ.0'<7.1"4<ʼ' 1> >0. / '8 + 8ʼ .E.-1.7.1 / ʼ
<.1" ?'1ʼ4<.ʼ'; ,ʼ>.ʼ#'7.5ʼ& 'G ʼQ

- 3 eʼ 3 &ʼ
40% ʼ% ʼG ʼ ?1.;.>.ʼ>4ʼ 8 1 ʼ .7ʼ>.ʼ
'<' ! 5ʼ') ʼ *),Aʼ
ʼ?'<7, / / .8ʼ'-.;ʼ6.6ʼ'J1. / .<76Iʼ 5.6ʼ6'47.416ʼ
E.1,<7 > 5 E,.<76ʼ.@.1; ;.6Iʼ5.ʼ<,4-.'4ʼ?'6ʼ>.ʼ71, 6ʼ'<M
J5' 6%

. 5) "D" ʼ '4ʼ0,45.-'1>ʼ >=ʼ . / ?5.%+ 40%
% 7.;&88,?U ". <ʼ ';7.68ʼ?1,;.>.ʼ .7ʼ>_
& ʼ 7.1 / <>ʼ?'1ʼ ʼFA (
& ʼ?' / , / / .ʼ'-.;ʼ4<> -.17 66. / .<7%

- ʼH = 6ʼ; B 3 K ʼ " ʼ+ʼ. [ʼ! Aʼ
,4ʼ&"ʼ : ! 1 ʼ?'1ʼ ;ʼ
;,46 <ʼ ';=4.68

- e ʼ ʼ 14.ʼ ' <7ʼ '17 ,% + 40% ʼ
& ʼ $ 1 ʼ<3 5ʼ'), &ʼ *ʼ
& .7ʼ%
<ʼ'77.<>'<7ʼc" S $ʼ1.?1.6.<5'7 , " >.ʼ ʼ8 ʼ & Aʼ

- & 40% 5" Cʼ1.?1.6 ,<ʼ
5'7 ,< >.ʼ ')@ ,?>1" 0,45 ,<8ʼ?1 ;K> ʼ
>.ʼ'0F 1 *ʼ., <.> .ʼ."4<ʼ';7.%

.@ -< +ʼ; ,- +ʼ ʼ / +))!% ʼ
ʼ .;%+

$2.($(.')ʼ (* 8ʼ+ʼ % ('4+8(.'6,<7ʼ + (,,.3ʼ %

G Cʼ ʼ & *ʼ & ʼ ʼ 7ʼ ʼ ʼ

'(.-+$*/ʼ /ʼ /ʼ /ʼ /ʼ /ʼ P #'>@8ʼ % 6%
B' / 0,4 ʼ8ʼ8ʼ8ʼ8ʼ8ʼ% C 9ʼ $ (' / / ʼ $(ʼ
,<>1.6ʼ Cʼ 8ʼQ -,414;ʼ C9
'>1 >8 8 8 8 8ʼ C 8CD 7V,?8ʼ 8ʼ ?

I- & ʼWFʼ

;7 ,<6>.6ʼ5,>.6ʼ>.ʼC8 3ʼ5 -ʼ8ʼ%8ʼ% CC Cʼ C? 8ʼ *(ʼc
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/ ?1447ʼ>, .7,01.ʼ>.ʼ ʼ -%
+ʼ>.> ;8ʼ ()C8ʼ=4 77%>.ʼE < 8ʼ ʼ`ʼc8ʼC8ʼ 8ʼ 8ʼ ʼ?
+ >.5C ʼ / 55 ,<68ʼ>7.8ʼ (9U8ʼ ʼE8ʼ^
+6'<6ʼ0455.7 <6 8ʼ ʼE8ʼ E8ʼU 78ʼ
+ʼ ,17 .68ʼ.<ʼ- 'J.1ʼ 8ʼ8ʼ8ʼ ʼʼ =W
K455.7 <6
.;,<<' 66'<;.6ʼ>.ʼ0455;5 <6ʼ %%%%%%%%%%%%%%%%%%%%
;7% K,4-% > .54> .6%%%%%%%%%%%%%%%%%%%% 8ʼ C 8ʼU8ʼ YC8ʼ 8ʼU
#' 66.> .6;,<= 7.% D
. / ;' 66.ʼ fʼ U* 8ʼU8ʼC8ʼU8ʼ,
^3476ʼ>.6ʼ 6[@>.ʼ '16 8ʼ8ʼ)8ʼ 8ʼ 8ʼ 8ʼU)8 U98ʼ
/ ?1%>.ʼ) ʼ / 55 ,<68ʼ> 'YU7ʼ ()*ʼ8ʼ % 8ʼ ʼJ$$ (
#' 66.ʼ?'71 , 1=4.ʼ% %W
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! b ' K',,' ' 'K %

;'C)% ' 'C9 ' (* % V' <

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46 .416 1>J / .<76 ,<7 >7> / 6 641'5.' ? .> >. >7'7>.' $;' ?'J<.% 8
.6 5.571.6 >.' H <5'<>.' '??1.<<.<7 =4.8 ; ,<E,1 / > / .<5 '4@ ,1>1.6 >.' / ?>1'71 ; '>.' 466 .8 ,< > >1.1">.' <,4' -.5 .6 E,17 E ;'7 ,<6 641'5.6 E1,<7 >1.6 >.'5" H <5477>.' / 66 .[0c'.67=<. 5 ,< >.' ; ,<67 / 1.' 4< E,a ?1>6 >.' ; : [.< 64<>[%,<>' ;, / / .<;> 5.6 71' - '4@0\1>6 >.' '5 '5'%
'4'^' '1,' .671.- .<77 ;'5.' 8 641'5.' / > [E5' - '57E' '64 7.'?546 .416 1'<, ' 6 >.'> 67 <;7 ,<[% B% 6 .67 1.<>4.' '466 7>7 " B'J'%
; / / '<>'<7 .< ; : E>'<6 5"H <5'<>.'64>>, 6.8 'V'<7 -< '??1, : :'>.6 ,66.6 '<@ E1,<7 >1.6 1466.6 8 "E' 7 >.<G '0 ,1' 6'1>.G; :' / ? 5.6 ?,67.6 >.' <>6 E1,<7 >1.6 .7 V "?5';> >.' '1 7.1 .% +' .6 1>J / .:56 E / 5'<>' 6% >, 1.<7 6.' 7.77 1' ?1>76 " / '1;0.1' '< ?1. / .1' ,1>1.%

" 7 (' 8 !! ' 'Q' (^ 7 ' '>.' >G 7.160 ,41J =<.' 5.' 01 J'> .1' >.' .5V;'1?, [' V .67 '11 1>8 5.' ?' / 55.78 >77 #<0'<8 W- .'5" <.4-.55.' =4.'5.6 71,4?.6 >.' % 7% % 6.' 6,<7 1.<>4.6 / '5 1.66;6 >< E,17>.' 4>6>: ;G '5>8 > 67'<7> <'?'>.'=4'1'<7.' [.167.6[7"'466 '<<,<;> =<.'7,47.6 5.6 ?.4?5'>.6 =4' : '0 7.<75.' ! '4;'6.'6.'6,<7 / G 6.6 6,46 5" ?1,7.;7 ,< >.'5" 466 .%

&' 'W' , >7% G' <J5G=<'71.' / 55.' ; / / .6 >.' '1 / >.' =4' >.-' '>71.' ./?5.V>,' .< 1466.' 1.67.1,<7 ?1,- 67E 1. / .<76<1'5.' ? .>' >.' ; ' / ?'J<.%
' <>?1,4-'8 5.' C' 04 55.78 aV1:0 .7'<@ .<- 1,<6 8 4< =1'J.' ' ; ,/?'J:> >4<.'6 ?1,>J ,46.' =4'<5 7> >.' J1,66;' J1>5.8 =4.' 5.6 0 .<6>.'5" ; ' / ?'J<.' ,<7 >> .<7 >1. <.<7 :G ;0>[.7 '0 / >6[5.' >, / / 'J.' =4' ,< 1>6457.' .67 E>6 ; ,<G 6 >>1'05.% 8

'$ ' 'W' ^ 7 ' '6641.' '40, ,1> 1' ' =4>' 5.' >?'17 ' . / ?.1.41' .7 >.' 5 / ?>1'71 ; ' '5.41' E' / 55.8 / 41' 1'J4.8 .67 E@.' '4 C' >.' ; ' / , 6% ?1>6 5.' ; , 1,<<.' <.<78 7,47.'5" E' / ' / ?>1 '5.'6.'?1,?,6.' >.'6.' 1.<>1.'" 1.6>.% 8' %
<?'15.'7,40,416 >.' .<71.-4.'>.' . / ?.1.41'>.' 466 ;' I7>4'1, '>.' 1466.8 .7 ,< ?1>7.4> =<.55.' ' / " 5 .4 U .' 0< 77%
"?' @ .67 6 J<>.' % ; : 67, [[; ' J1'<> ,4-1'J.' " >> 7.1 / <>5.' C' >.' ; ' / , 6[4< ; ,411 .1 '11 -> 0 .1 >.' ; : 6G 7 [' " '??,1> ;.77.' <.4- .55.% .<'471.' ; .6.' >.' >>?>' ;0.6 >,<7 '5>7' 7 ?, 17;'41' < " .<; .1' 71'<6? 1> >'<6 5.' ?4G 05 ; 8 / ' 6 ,<6'41" <;.66' / / .<7 7,47.6 5.6 ; ,<> 7 ,<6 >.' ; .77.' ; <;'5 '7 ,<%
H'5 J4.' ?1,0'05. / .<7 >.'7,47.6 5.6 ?5' <7.6 =4 ,< 54S ?,15' 78 1.5'7 1. / .<7 '4@>;1 76 =4' ?'1' 66.<7 641' ' ! A' " ! ' % >' ' .<0, <7 '4@. .<6.416 >.' <.'5' 66.1' ?'66,1' '4;4< >;1 7 ?, 41' ,< . ,<71.' ; .77.' 1>- ,547 ,<%
?1 <; '>.' #0'17,1 <6 V .67 ; >.?4 6 =4.5=4.6 ,416% % % 54' ' ; ; ,1>> ?546 .416 .<71.7 .<6%

@ ' ' ' ' % +' ' . / < 6 1.' >< >4.>.' 17; / 0.1J 6 .67 ,??,6> U =4.5=4.6 '17 ;5.6 >4 ' , '-6 >.'5" >>7.8 >' ' ' 7 8 .<71.' '4 1.6 U ;;54' =4' ,1G >,<<.' >.' ?1.<>1.' >'<6 ; : =4.' .1;5.' >.6 / .641.6 >.' 1G J4.<1' ; .<71.'7.6>,1 76 6>>7 .<@8 .7; %%%%% .'1, < 651.' >.' B'G <,-1.' '1.<,4-.5> 6.6?1. / >1.6 ,06.1-'7 ,<68 .7V " '0,4 >' =4.' 5.' 1, ' 6,< / ' 71.8 <.' 6 ,??,6'<7 ?, <7 '< ' ?,41'5.' E,<>' \ ;1,V' 7 ; .?.?>'<7 =4.'5.6 ; 1; ,<67'<; .6 .@5' J;' .<7 =4.' ,< ?1 7 >.6 / .641.6 6?>; '5.6N ,4 5' -' '-' 5

6 >'<6 5.6 1>;5' / '7 ,<6 >.6 ; : .6.6 -'J<.6 .7 >.6 ;0 ,6.6 ?1>G ; 6.6 7 =4.' > ' 55.416 8 -4' >7'7 ' ;74; '>.6 'EE' 1.6 8 % <% 6 .< 1'??,15' 7U < ?14>.<; .'>.' . / ?.1.41 8 .7 '>, ?7'57 .<75>G 1. / .<7 ,? < ,< >'55.<>1.8 ?, 41' ; , / / .< ; .1' >.6 >> / '1G' ; : .6 457>1 .41.6 8 =4.'5.'1, '>.'H1'<; .>71.?1 6' ' ;5 - 7.>.' 6.6 E, ' ;5 ,<6 1,V'5.6% Y

L K %

')' '?W , ,>1% G' .6. / J1'<76 E,<76'<6 ; .66.% ' '=4.' .5 5" ;4<=4>7.' >4 1,V'4 / .' >.' H1'< ; ' >'<6 ;416 #,<-.16'7 ,<6% ' >.1< .1' .<71.7 .< .67 >.6 V ?1.<>1.'0 '7 71, 6 .> #6 8 # <>>8 # :'15;- 55. .7 B4< <J .% ' % >.' / ,<8 ; >.-'<7 ;0'<; .5 .1' >.' % > 15.'<68 .67 >'<6 ; .77.' - 55.% .6 ?5' 6'<76 ?1#5#<>;<7 =4 5 J4.77.' ; ' 5" >. / 66 ,< >.' % >.' ! '5,<<.8 ; ,<71 5.41' J#<>1'5 >.V 1 <' ;.6# / J1E 6% $
< 1. / '1=4.'5" - -;' / ?'7 .<;.'>.6 .6?1 76 8 .< '77.<>'<7 664.' >.' '66. / 0 #.' >.6 >7'76 >.' K1'0'<78 =<' >, 7 '- , 1' 5 .4 '?#6G> / ' < CC% .55.' .67 5" 6 74'7 ,< ' ;54. 5.' >.6 'EE' 1.6 8 =4 5' <V " ?.47G#7H.' 1 .< U .6?>1.1% <' 5 .4 U ;1' <>1.%

H # 8

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@ ' ' & ' ' ' '? ' ' MMMM

< .@.;47 ,< >.'5"5, '>4 C' ' ,U78 ?, 7' '7 ; .'=4'64 7N
' 17% F% ,46 5.6 '17 67 'E1'<=' 6 ,< .71'<J.168 / .' / ' 01.6 4 <,<>.' ' ;'># <.'>.' ?. <741.' .7 6;4 5?741.8 6.1,< '5; / .<7'> / 6 U .@?,6.1 5.416 ,4-1'J.6 >'<65" ?'1>.'>' ,4-1,' >.67 <#.'U ; .7 ,00.7%
' % .@?,6 7 ,< <.' ; , / / .?;.1" ; .77.' '<<>.' =4.' 5.' _ 6.?7. / 01.%
' B% .> 1. ;7, 1,8>77 >>?'17. / .<7>. '1 6E.1'> 1 J.' .7 641-. 57;18 6,46'5.6 ,1>1.6 >4 / < 671.' >.' <7>1 .4185" >7.' .@?, 6 7 ,<8 = '<7U ,1>1.8 '4 1.6?, ;7>U '4@ / ;;416 .7=4'<7U . / ?5' ; . / .<7=4' ? ,411" >1.' <. ; .66' 1.% \
' > 1. ;7J 1.8 ,06.1-'<7 ; , /0 .< 5 / ?,15.' > '6 41;1' ' ?1, / ?76 .@E,47 ,< >.'5"5, ' ,7 5"0,< 66'?.' .<75>1.'>4 0 ;<' E' 7=4.'5.6 '176 - .<<.<7>.' 1.' - , 1>.'1 66. /0 ; '<<5 , <'5.8 .<'77.<>'<7=4.' .6 1#J5. / .<76 >>E < 5 E6' .<7 ?4 >.M 7.1 / <.1'5.6 E,1 / .68 .6 46'J.6 .7 ,1>1.'>.' ; .77.' ?'< ;'6' <5#1.66'<7.' >.' 1 <6714;5 ,<%?405 ='.8 ' ?1, ;41.<1' J#<#' 1'5G6V<> ' ,<7.<>48 '11>7.' ; =4'64 7N
1' % '55.V1'<>G .1 J ,1>8 / . / 01.' >77 > 1. ;7, E.8 6.1" ; :'1J.'>.'5"; 1. ;7 ,4 .7 6411. 5'<;.'J.<' '7.' >.' .@?,6 G 5 ,<%
CG '6.1" '>0, <7 U % '55.V1'<> >1 J ,1> 6 @ ; , / / G 6'71.8 6'- , 1N % '0 ,48 .J1'<>8 :1 [8 ' - >8 <M ; .<7 .7 34'71. / .1.G3< <,V8
OR >'7.1' >40, 41' >.' 5"?405 ; '7 ,< >4 ?1>6 .<7 '11> >8 7,47 '17 67, =4' >#6 1.1" ,@?,6.1 6.6 ,4-1'J.6 E.1'8 >' / ' 1;6?' ; ' >, 71, 6 ,4168 ?'1- .< 1' <<.'<,7 ; ' >.' 6.6 ,4-1' ' J.6 =4' .< >.' ' 55.1" 5" / .6,1.' . " ';7.' .7'5.' 640.7 01 .-.' / <7 .@?5?=4>%
Up #.55.' <,7 ;'><,<; .1"5.6 ,4-1'J.6 ?'1' ,1>1.'>.'<<' / #1,68 >.' / '< .1.=4.'5.6 ?1. / .16<4 / #1,6 <> =4.<57;6 / ,1; '4@ '4@=4.56 '< 65.' >.<<.1" 5" ?1,E.1.<; .8 >'<6 5.' ; 6 01. .<>4;'>.' . / ?5' ; . / .<7 '66 J > 6.1' 7 <67E5 G 6' / ,'?,41'5,6 V '> / .771.'7 ,46%
#:'=4.' '17 67. / .771' '4 :'6>.' ; .77.'<,7 ;'6,< ?, / ' ,7 5.'5 .4 ?1#; 6 >.' 6" >. / .41.8 ?, 1'=4.' ,< ?< 66.'54' '>1.66;1'> 1. .7. / .<7 .6 '- 6 1.5'7 E6U .@?,6 '7, % 8
J<> K,;K H <; 8 5 K<,<< / [

' .6 <,7 ; .6 6.1,<7% '>1;66>.6 '< >>?'17. / 1'78 '< 041. '4>.' % ,4; : .7%

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.<>1.>'C9 ' ,U7 (* 8 U 4<.'5 ,<1.8 5 6.1" 01 5>>5 0>' 5.'>.'5" ;' 66;'>.' .@71' ,1> <' 1.8 14.' - .<<.8 5"6, / / .

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, ' ' /75B,<6 .< 66EJ<' 8 5.6=, .568c, <76 '77 C)' >>0U01>'
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>.6 5,768 -" / '1; : .1' ; ,<67' /< .<7 -.16 5" ?1,6 '
?.1 7.8 -,46 04J.1.Z 6'<6 >,47.' >.-, 1' ; ,<6';1.1'
= .5=4.6 4<6 >.6 >.1< .16 / , / .<76 >.' -,71.' - .?7'
05 =4.' " . / 01'66.1' 5.6 ?1 <; ?'5.6 1.66,41; ;6 7.' ' '
-'67.' .51 ; : .' 7.11 7, 1.8 =4 4 ' ?.4?5.' ' ;7 E .7 J '
< .4@ >, 7 >.6,1 / ' 6 / .771.' 4 < . / . ' .< -45.41%
.67 >'<6 ; .7 ,00.78 '47'<7 =4.' ?,41' 1.?,<>1.' ?'1'
>.6 E' 56 " / ?47'7 ,K >.6 .4<. < 6 >.' 5" 1.-,54M
7 ,< 8 =4' ?405 .<7 =4 .55.' " ;1.46.' 5.' 7, / 7 .' 4 >.'
,71.' <>4671 .8 =4.' - ,71.' ; , / 7. > ' J1 ;4 41.' .7 >.
; , / / .1; ' / " ;<'1J.' >.' - ,46 ?1.6.' 7.1' 4< 7'05.' 4
>.' 5" 6 74 '7 ,< >4 ; , / / .1; .' E1' 4 6 .' ()*8 ?1.%'
/ .1.' ' <<..' >.' 5' 5" 5 0.1 .%
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,40.,<6 >.1.1,<6 5.6 1.5'7 ,<6 ; , / / .1; '5.6 ;@'
7.1 .41.6 >.' 5" H1'<; .' 6,46 ; <= > - 6 ,<6 N D1.5'M
7 ,<6 .< 41,?.I 0D1.5'7 ,<6 '- .; ' <,6 5 .6 > / >'
1 =4.I D '1< . / .<76 ?,41' 5.6 <>.6 ,1 .<7 '5.6I
UD.@?5, 7'7 ,< >.6 ?>.: .6I D / ,4-. / .<7 >.' <,71.'
<'- J'7 ,< >'<6 5.6 / .16 > 1,?.' ;7 641' <,6 ;>7.6%
< - ,46 ?1.6.<7 '<7 64; .66 - . / .<7 5.6 ?1 <; ?'4@
>5. / . <56 =4' ; , / ?,6.<7 ; : '=4.' > - 6 ,<8 .5' .<1'?'
?1, ; '<7 5.6 >,;4 / .<76 ; , / / .1; '<@ 1'66. / 05.6
?,41' ()*' >.' ; .4@ 1. ;4. 55 6 .< ())8 >'?1.6 5.6
>.?,4 55. / .476 >.60,41<'4@>.6 >,4 '<.6E1,<7 .1.68
-,46 71,4-.1.0 >'<6 ; .' ?'1'55.5.' 5" / .641.' >4 ?546
,4 / , <6 >' ;5 - 7.' =4 " .?1,4->8 >'<6 '<<..' >.' 5"
1.-,547 ?<8; : '=4.8?'17 .' ?1 <; ?'5.' >.' H <>4671 ,'
E1' < ' 6.%

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,46 ; , <?1.<,<6 6,46 ; .77.' ?1. / .1.' ' '
<,< 6.45.< .<7 <,6 1.5'7 ,<6 '- .; ' 6?'J<.8 5.' ,1M
74J'58 57'5 .8 <J5.7.11%.8 .7 7,<6 5.6 ?.,?5.6 >4'
,1>8 / ' 6 .< ;.1.' ' -.' 5.6 7'76 #< 6 > / .1 =4.8
5.6 .-'<7 <6 ;7 5.6 <'7 ,<6 0'10'1.6=4.6% ,46 - ,46
1'??.5.0 =4.' .@.1; ; ' >4' ; , / / .1; ' " >.4@ 01' '
; : .6I <,6 ' ; : '768=4' ; ,<67 74.<7 5.6 / ?,15'5 ,<68 ;5
<,6-.<7.68 =4' ; , / ?,6.<7 5.6 .@?,17'7 ,<6% .' >, 6
- ,46 ,06,1-.1' =4.' 5.6 1.5'7 ,<6 ; , / / .1; '5.6 >.6
; >.-'<7 ?1,-<; .6 > 56' ; .8 >.' ,11' <.' .7 >.6
1, 6 -.; : .6 '-.' .71'<J.1' <.' E,<7 ?'6 ?'17 .' >,'
.<4 / .1'7 ,< =4' -" 6 -1.8 '77.<>4' =4 .55.6 ; , / '
/ 4< =4' .<7 .<; ,1.' 5 01. / .<7 '-.; 54' .< ()' ;7
()*8 '<<..6 / 6.6 .<?'1'55.5.8 >.' / '< .1.' =4 ,<
< '-' 7 '5,16 '4;4<6 / ,V.<6 / , ; '< =4.6 >.' .,<65'
7.1' .7.<>4.' >.' 5.41' ; , / / .1; .' .@7.1 .41% .' <.' '
7.1' ' >.'<6 5.6 ;'5.7 56 =4.' 5.6 6, / <.6 1,<>.68 '& " >,'
-.<>1.' ?546 E'; 5.6 7,46 5.6 1'??1, ; : . / .<76 .<71.' 5.J
>.4@ >?,=4.6 ., / ?'1.,6%
.6 / ?,17'7 ,<6 >.' H. 71'<J.1' .< H1'<; .8 =<'
/ ,<7' .<78 ,< ())8 C / 55 ,<6 8' 6 >5.-.<78 '
5" ' -.1 7.8 .< ()*8 " U ' / 55 ,<68 / ' 6 ; .67 ?'1'
4<.' ; 1; ,<67'<; .' '06,54 / .<7 .71'<J.1.' ' 5" 1.-,54M
7 ,<8 <% .EE.75 ' > 6.57.' >.6%J1' <6 <,46 " ,05 J.6
> / ?,17;1' ; .77.' >.; , ; .1.' ' ,< ' ?,41' 44.' -'5.41' >,'
(' / 55 ,<6 .' " J1' <68 E'1 71.6.0 >J4 / .68 ,00.76 =4'
<.' 6,<7; , / ?1 6=4.' ?,4W5 ' ' ,4 B,<6>'<6 5' ' '66;'7 .6

[illegible]

[illegible]

[illegible]

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E'<7.1 .8 . .-'/' '4?: <>!'5.' (G8 ; >.-'<7 4-.1J<.!'
.55.'CG0'7'55, '>4 G1 / .<78 ; >.-'<7K.'4;.!0.'54'
.<' ' '>1.66>'5.6 >.7' 56 >'<6 >-.16 7. /?6% .6 ; .E.' / 5 '
5' 1.6 .<7 E' 7>.?4 6 7,46 5.416 .EE,176 ? ,1'1'??.5.1' ..6
;,1?6 '5.41'>.-, 1M 7,47.6 5.416 1.0 1>6.<7'7 ,<6 6,<7 1.6M
>.6 6'<6 .EE.7!' ; .66,5>'76 .<-1>6 >,'5 ; .<,' <.<7.<>.<1
*46 78-, @>.' &"1' 6,<!' 5 <V"'>,<.'?546 " /<?E,01.1=4.'
'1J<.41'>.65,76% '6 . .67 .<-' '<8 B% 5.'?1>6 >.<78 =4.'
5.,?,4-, 1' .@>;'7 7 ;0.1;0.' ..57.' ' 5 ;'05.' " >.'?'1. 76
.6%
$ 66. / >.'<'7 ,''5.' "E. 7>.65, 6' / E57' 1.6 =<'?.4'
-.<7 6.1- 1' '04J.14<,.17' <'<,/01.'> <> - >46N 5.6 ; ,416
/ '17 '5.6 1. /? 66.<7 ; .7 ,00.7% '07 . / /.<7 7.<1' >.6
;,416 / '17 '5.6 ; ,<71.'>.60'7'55, 68'>.'1 / .<76 .<7 .16Z
'E,45>,<.' , '>'471.6 5,76% 'V' ">'55.416 5.'?546 J1'<>'
<;.<->, .<7" ; ,=4.'>.6 'EE, 1.6 >.'#.77.'<'741.'71' <.<7'
.<'5'<J4.41!' .< ?'1' 66'<7 0'5'<;.1' 641' 5" ?44 75,< >4'
;1 / .8 .<>,<<.'5 .4 '4 ; 4?'05.'>.'>,47.1'6 4' " -7" / .<7
., / / 6 4<' ;1 / .!' .7 . .67 '5776=4.'?'1'1 /?4<7>' ,< 5.6
-,57 6.'1>?>7.1'>.'7,46 ;>7>6% .]7>,<.' .@71>7<. / .<7 41M
J.<7>.%?1,<,<; .1'641'5.6 ; ,1?6 .<=4.67 ,<%
'#. 6.1' 7 0 .< <4 5. / ,78 B% 5.'?1>6 >.<78 =4.'<,46
71'-'55.1 ,<6 '1>7'05 1'<.6 E,17.1.66.68=4.'<,46?1>?'1; '
1 ,<6 >.6 ;' / ?6!' 56 <,46 >>E.<>1' .<7 / '78 6' <,46 <'
-,46+V1'66. /05.1=4.'>.671,4?.65 -1>. "1 <> 6; ?5<.8
.7 ?'1' ; ,<6 -=4.<7 &. '1'7.55.6 6, /' 5.6 64 7.6 >.' <> 6; '
?5<.P 6'<6 <6714;7 ,<8 6'<6 .<6. /05.8 6'<6-,5, / >' ; .<'
67'<7.8 .71.<>4.60 .<7>78 ?'1'5. 0.17<'J.8 <.'?'05.6>.'
6,47.< 1' '-.' ?'7 .<;.' .71.6 J<'7 ,< 5.6 E'7 J4.68 5.671''
-'4@>.'5"J4.11.' .75.6?1 -'7 ,<6 >.'7,47. .6?>. % ' <,46
E'4>1" >.<.'7 ,<0,416 ; <>1.8 ; / /.' "?1.6.<78<,<'?'6
5.6 .EE,176 >.6?4 66'<;.6>4 ?1. / .1'.7 6.;,<>' ,1>1.8 / '76
5.6 <44-'6.6>6?,67 ,<6>.6?1<;.65.6 / , <' ; ,<6>.1'M
05.6!' 5.6 ?1,0,76 &<6.<6>6>'<6 7,47.' '471.' ; 1 ,<65'<;.P
>4<.' ?, J<.'>.'71'<6E,J.68 7 .<>1,47 7,47 ' . /? 1.'>'<6
>.'%; ,<7<4.55.6 '5'1 / .6%
' E,47 6,17 1'>.' ; .7>7'7 :4 / 5 '<E8 .75.' / ,V.< .67>.'
1>7'05 1'5">6; ?5<.'>'<6<,71.' '1 / >.8 .7>,'54'1 ,<>1.'5."
=4'57>6 =4E ? [-.<7 6.45.6 54' />17.1' ; .<,/ !' -.,'.'
/ ,V.< E,<>' / .?7'58 7,46 5.6 '471.6 =4.'<,<' ./?5,V,K'
6,<7 0,<" .7 47 5.6!' 6'<6 54 8 56 6.<7 <64E 6'775 ' 5
6, 1.6%
' .1 / .77.0 / , 8 B% 5.'?1>6 >.<7!' >.'5.'>1.!'6 5 .67>.6
0, K / .6=4'>>6 1.<78 ,4 =4'>4' / .<63 '6'4'?. . "
>66,547 ,< >.' <,71.' '1 / >.8 ; ' <.'?.47>71.' =4.' >.6J.<6
/ 7 <5.<5 <<< G% / 5' / -7 a' 71 75 #1' # E ' / .'>'75 'E,

')0(.'$ *' ,(,(' R,+,7 -('9(*''**# 9 (*,/',+3+D' 4+ (' -('4.(0 $.' +0(*$.'(,'-('4, ,$(.'Q ' (*' - ' .$$$'D' , $#(' -(', *' (' 4+8'(,'-(', ' (' ,(4'' =

% ''( ) -(' .- *(' (' .(*0 $' -('3(,,(' (,,.('-'' *'3 $,-' $*$,+$.(

V' *-(' ' '((.(,+$.('#+$,' (3, .('- ('4(1 ,$,$ *' -(' 3$, 8(*' 3 (. +*,' -(' +*,('7 0 3' (2 .+$,'-('3(,,('4-,$,$;

& 0+*,'-('.(*-.('0 ,,(' --3.(,'- 'BX' +,'-(.*$(.'' .' (') ,* (' -('3 * (.'$).('/'* ' 0 ' +0 *' (24 '-' (' ,)!' *(',(' 3 ,$'-5 (* (' 5 ('3(,,(' $' -(.+$,'(*,.+ (.'4 .' (' 4 +*,(.'/'4 .' (' 6 (' -('3 (./'(,'4 .' +' .+*3(' $ -.(' < ## (.(+ ' -(' 4 .,' -('. (.'(,'-(' 0$ (' -+' +* #+3, .('. *$' ' +.$'/'0 ' *,'+-.(' ' -('( ) +!') (' .(4.('(*,+,$ *' ,' (' (.0+,$ ' (,' (' *-,.('$' -$3!' , (' 4+.' +$.' -(' $+'4+,.$(' (,' -(') +*$ /'* *,'4+f(' ' -(' 33 ' ' ,(' (4$4' (,' (' 0 *((*,' *,'4+.,(7 (.'0 $2' ,(..$) ('(,'$ 4 '+*,('f(' #+$,' (*,(*-.(7' ((' * ' - **(' (' ,.$',(' -. $,'-('0 ' ,.+ ' (,,.('(*3 .('$(' + +. (' 5 $' * ' (*0$. * (,

')(' 4 +*,(.'+,,(*-+$(*$'+0(3'3 * $+*3(' ('4 +*' -('3 *' ',$, ,$ *'5 (' (.'+0+$'4. $ $' ''( ),-('*+,$ *+ (' '+,!' ,(*-+$(,' (' 3 $'+$.(' +,$ *+ 2'3 (' -(' + 9(' -(' 4+$2' 5 $' -(0+$(*,' $2(.' (.' -(',$*-(' ' $(' -(' +33 !' /' 4 $''((*,'-(-(.'0((' '*+8$.('+..$0-'+ ' +4'8'+'+44 .,-' (--(.(,'- 'BX' + ' ' $*',+*,' (' 3 (.'*$+, *+ (' '(*,' # -(' + 2'4$(-'7 (f'.-' ,$ *' - ' - '('4 $.' 3(--(*,' ' -(' --$)-.+$$ *',.+*5 $ (' 7 (' +44.-,' -('9 (..(+ '-(1 -+*' (,'+ ' -() .' 4. **(*,' +'4 +3(' -(' ,.+0+ 2'4+$'$) ('7 , ' (' 4+.,$' f(' .-**$''(*,'3(*,.(' *(' $'5 $ * ' #+$,'.(!' 9+.-(.' +' .+*3('3 (' * ,.(' (*($(' *'0(,'#(. (.' (' 4 .,'7 (' .(9+.-''(' , .('3 *,.(*4((.$0+ ! .'+. - A ('+*9'3',4.-,' '3 (./'(,' ('9(6' -('3 ! (*.''(. *,'#('4.($'(' 0$3,$ (' - *(' $'5 $'+'('4 .') (,-((' %#+0 .$'(.'(,3

D' '(',',(% 4' -(' ('-$.(/<,6'3 , *$(+'<,3 ' -36+44(*,/(,' +0((,'((' *('# ('-('4. 4.$-,-' *+,$ *+ (' (,'4+. $3 $-.('/' (' * ,' (' 8(*' -(',.+0+$' >,<7' ,+' ' 3$-,-'(',' (*' 4 ''(''$ */' (' (**($' -(' +'3 *',$, ,$ *' *'% *,'4+'4(.- ' ('4-.+*3(7 $,' +,,(*-(*,' 5 %**(' 9.+*-(' 3+,+ $,-/ 5 $0' 9.+*-'--36$.((,+,' -+*' $ (4$.(' (,,(' -+*' (.' +$*' $(' 8(*' - 44.$ (.' +*3$(*' -$#$3(+'H H' .(*0(.' (*' ' *' (*,$(.7' (',.+0+$' - '4(4 ('4 ..+$,'('. 5$.' 3(' +,(.$+ 2' 4+.'/ +$'* ' ('4 .+*3(' ' *,'4(.- (''< *' . *.(7' ' +'0 ('-(',+*,'-(' + 2/'$ ' '('('4 $.' $$ ' .('#(/(,'3(,'('4 $.'(',' (*'0 '/ 9$' +,(.' @ (U!0 ' -(' #+$.('3 **+,,.('+ 2'3 *$('5 ('0 ' '*'4(*-(U' (2 3 $ *' - *' - 3.(,'5 $' 5 .' - **(.+$,' +' .'7'5 ('.$(*' -(' - $*$!' ,$#*('('(.+' ,+, ' ' .',(+.' .,''+*' ('0 ' -(' +'( ) (' 3 *$+ ('

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' 'FA' < G 5' 0+*,'-('.(4.(*-.(' +' ' $,(' -(' +' -$'3 ''$ *'' . %+. $3 ('4. '(*, '6$(..(+ $0((*,'+ 2'-. $,' 4 $$5 (' 5 $'(.+$(*,'- ,(. $* ' -+*' +'3 *',$, ,$ *' ' !' 9+.-'-(' ( ) .(' -(' +'#+ $*(' . 8+ (/ (' 3 $ (' -('3 *1 ',$, ,$ *' (,'-('. 0$'$ *' % ,'36+.9(' -('4. '(*,(.' ' 33$*3!' ,((*,' ' ''( ) (' (' ,$#' 5 $' (' *,'- ,(. $* ''A(' 4.$(' -+) .-' ''( ) (' -(' ,$('4+' 4(.-.(' -(' 0 (' (%'8'!' , (' -('. 8$, '6 . -$,+$.('5 ((' +' +- 4, ' -+*''+'3 *!' '$$, ,$ ' 4$3*, $$' *' 3 *'(*,' ' .33(0 $.'- ' $+'+.-' -(' +'+*+$''+*3(' *' . $' ' *' . 9(*,/ - ' (*,' ,$ $% *' 3$$ $'$,' $$('#+ $ ('4 .'(2(.3(.'(23 '$0((*,'(,'6(. -$,+$!' .((*,'3(' '$ 4 .+*,(' '# *3,$ * /'$' (','3 +$.'5 (' *' -4@' ' (*0$. **('3(,,('#+ $ (' - *'9.+*-' 3+,7'5 (' +' -$9*$, ' - ' ,$% *(' - $,' .(+$ $.' ' , ,(' 3(,,(' #+ $ (7 (,' (' (' ( ).(' *,'-(' -. $,' 5 (' % *,'4+' (' + ,.(' 3$, 8(*' % ' (','3 +$.'5 (' 4 .'*+$''+*3(' (' .+*9('-+*'f' *('3 +''('-$'!' ,$*9 (' ('4.$*3$4(' *(' 3 *,.+',('4+' +0(3' +' 3 +.+,$ $$' -(' . $,'/'4 $'5 $'(',' -$,' *'$5 ((*,'5 + 3 *(' -$',$*31 ,$ *' *(' 4(,' ,(' $+) $('5 ('4 .' % $$, '3 *('' .' 3 (',' 4 .' % ,$$, '3 *('5 ('0 ' +0(U' *' . $' 6(. - !%' ,+$.(/ *('#+ $ (' - *,' *' (' ( ) .('' *,' 33(''$) (' ' ,. *3'4+.' .-.(-('4.$ 9 *$.('-% *(' + ,.('4+.,/$' 3',' 3 +$,!' 5 (' $*# 3*3(' -% *(' #+ $ (' *44(3 0(*, ((!

(*,' * ' ,. *('+(.+$,' . '!9.+*-(' -+*' (' (3,$ *'7'5,,(' 3(,,('$* (*3('/ (2 . ((*,' -+*9(.('(' -+*' -(' ,(4' .+9(2/ - $,' (' (3+.,(.' -(' +' 9$' + .(' ' +0 *' '4. 4 ' ' 5 (' (' ( ).(' -(' +' -8*+',$3' *('4 ''(*,' ,.('3$, 8(*' +3,$#'' @+$'$,' (','3 +$.'5 (% (.'$*# (*3('-+*' *('+f '( ) ('4.$ +$.(' *(' '(.+' + +$' + ''$' 9.+*-('5 (' (.'$* (*3('-+*' *('+'( ) (' -$) (.+*,(

$*''0 ,'4 ..$(U' (.' . '($D0(.' (' -. $,'- ,,('3$, 8(*' +3,$#' (,-J+''$',(.'-+*' ('+'( ) ('4.$ +$.('' < *' .!' .(? (' 3 $, '/'(',. 0+ ,'+ ',(. (' -(' (.' ,.+0+ 2/ - $0(*' .(*-.('3 4,(' -(' (.' ,$#'7' % ''( ) ((' -(3$!' -(.+' 3('5 (3' 9(.+' 3 *0(*+) (' -+*'' +' '+9(''('A(' -$' 5 ('3(' *(',' 4+' Z ' ' (',' +-$# 3 ,(' - '4.) 3 ('$' +9$3' -('+0 $.' '$' (' ( ).(' -(' + -8*+',$('4 .. *,' $(' $!')$',.('' * *'0 '3 $, '+44 $(*,' -(' * 0(+ /'(,'$*'$',(*,' -(', ,(' ' .# .3(' ' +'- * $*+ $ *'5 %$' 0 ' *,' 4. 4 ' ($ (((',' 3 *# . (' +' +(' '- ' ,. *('7 +$' ((,'- +4. ' ('4.$*3$4(' -(' +' 3 *',$, ,$ *' (((*,'5 (' * ' +0 *' ' -(0 $.'0 ' +' 4. 4 ' ('. ' $$' #+ +$,' . +$' ,.$' !' *('. 0 $ $ **+$.((*,/ '%$' #+ +$,'3+ 3 (' ('3$.3 *',+*' !' 3('/$' '(.+$,'4(,! ..('#+3$ ('-('4. 0(.'5 $ '(','-(' %$*,($3,' -(' +'.(0 ,$ *' $'/'-(' $*,(.' -(' +$,'(*,.(' 5 $$ '4) $5 ('/'5 +' 3(',+.$3 '+' .'4 (' '<' * . .(? !' J

' A('*%+ ,(.+$'4 '5 *' ,7$('8', (' - '3 $, '4(*,' ,.('3)+,# '4+.'-(2'3 +''(' -$##(.(*,('/'(,' *'*(''+'4(. ' 3 $'4($,.('4+'+''(U' -(' (.' ,$#'

'(','3 +$.'5 (3(2'5 Y.(9.(,(*,'-(' -$',$*3,$ *'+*' +*' ,$('0((*,'0 $.' .+*9(.' -+*' +' ('3 +''(' (' ( ).(' -(' +'#+ $ (' . 8+ (/ +$*' -('('.((.0(.'4+.! '5 (5 (' ('4 0 .+*'((' '+*' - ,(' $ +9$ +$.(' ' (',' *(' ,.(' 3 +'' ' -) (' 5 $' *','+,,+36('/'$' (',0.+$/'4+.' *(' ('4 3+' -%$*',$*3,/ ' +' 8+ $ '6 . -$,+$.('5 $' *,A . '-(' + +$*'/ ,(*$/'(,'5 $' +' +$*,$(*-.(' *'/ +$'5 $' 4. 0(*'4+.' (.' 3 *' -$,$ *' -%$' (',' *(' -$$3$'(/ -+*' *(' ('-$'3 ''$ *' -(' -(,+$/'-' *('4+'' (.*+9(.'+ +*'('.+'' *' '8' ('5 ' ' (' + +- 4 '4+.' 4$*$' */ 5 $5 *' +$' ,.(,.(-(0 $. ' (' -+0 *,+9(' $(' '4+'' (2 4 (/' 5 ('3(2'5 $,$(*' ('**(' *'+*''8' (. 4) $3+$* '< *' .!' +.(? A(' $' $*' -('0 $.'$*3 4(4.' **(' (5 (' (' -$' ('4+.+,'3+$.' *' ('4 ,$'*$ *' -$## .(*,(' (5 (*' ' 4. #(' ('4) $5 ((*,/ .!' 5$$(' *' -'$.(' *(' #' ((' 9(0(.*3 (*,' ' -'3. $,' ($ (.(' 5 (' '3(*,' 36(.(' 4.(4+' ,(' ' ,' *$,$ *' -$3(*,' 4((' (.' -(,'( ) (' (' (,+*,-' 6(. ' '+*' *3(' ,+' -(,('3$,' (' + -+*' $*' .' 3(' ( ) .('3(' 5 ' ,' (.' +*' ,+*,' (' *'3(,,' +' ' 4 -+*' (' *' -(' *'9.+*-' *('4 +3(' (' +*' *' ' #'

' ' ' 33 .-(.(U !'0 ' -(' $,.(' 6 * .$#$5 3' ')$($' (' -. $,'- ' 3$, 8(*'+3,$#'+ 2' ( ).(' -(' +'#+1 $ (' . 8+ (c' +*' - ,(' 3(2' -(' ( ).(' -(' +' #+ $$$(' . 8+ ('5 $' *',' +3 (((*,' 6 .' - '. 8+ (' ('4 .(*,' $.' - ' 4(,$',.$ 46(' ('#+$.(' .3,. 9.+-(.' .''( ) ' 3 *',$, *,' (' +*' +$0(' (.' ..+*9((*,' (' +' ' 3(' ('*' '3. $' 4+'

' +0(U - 3$- '5 (' * ' .+*4+$' *('4 *..+$,' +0 $.' - ' 4.$0 9(3 *,.+$.(+ 2'-. $' 3 * ' 0 ' +0(U - 3$- ' 4+.$$3 $.((*,'5 (' ' ( ).(' -(' +'#+ $ (' . 8+ ('* ' 4 ..+$(*,'+0 $.' (* ' -('4.$*(((/ 4 $'5 ('0 ' +0(U .(1 ('4+.' +'5 (',$ *' 4. + + (' +'4. 4 '$,$ *'5 $0 ' (*'+' ' #+$,/(7' +$'/ '$' *'(' 4(0(*,' +0 $.' $, ,(' -$',$*3,+$/$' #+ '*' 3(' '+$.((*,'5 $' +$(*,'3(' $' -('3$, 8(*' 3(,,('5 +!' $, '+35 $'('4+.' +' *+$''+*3(' ( ) ($' / ' ' $*' 5 ' *'(' +'4(.-(' ' 0 *,+$$3 (,'4+.' +' * *' .+$.(.+ $'+,$ -+*' 4+8' 9.+*9(/ '4+.' +'3 ' -+ *+$ '4+*' -(' +' 9.+-+,$ 3$!' 0$5 (' % /

JA(''+$'5 (' *'-$,'5 (' *'*(' (.(.# '('4+' (' -. $,'-' 3$ / +$' '((((*,' (' -. $,' 4 $$5 (''A(' 4 *'5 (' 5 +$$-'$' .(4 $''(*,' ,' (' 3 *-$$ * *'4.('3.$$('/'5 +*-' $ ' 4+.,$3$4+,$ *'3 ' 3 $, ' /'+'*+,$ *+ *'(' (. $' ' ' (' ('36+.9(' -(' +' 3$ ' / +'*+,$ *+ '(' ( ) .'' ' (((*,' (' -. $' $-$0$- ('/ +$' (*3 .(' (' -. $' 4 $$5 ('/

('4. (2,(' -('3(,,(' -$',$*3,$ *'5 $' ' ( ) .('5 $ *'+ 0(*' '4(( ) ('7 3 '-(' ' (' +' 4 ''$) !' *44((' 0(*,' (,((*,'+ *'-(' - ('. ' +'4 ''$) !' ' - ' 0 *(' (*,' 9 ',$*3,(,+*' (,+,$ *' (4$ $' 4 (' (' 4.$,' ' 4+ +$' 4.$*3$4(3 *3(.*' (' * ,(.' $*' 3 *(' -(' (.' 4. 4.$,,(' M'+4.3 $' 4+*5 (' ('*' $*3,.(.' 5 ((' 3 *'4. 4 ((' *' 3'3 +$$' ' *' ,+$*' $ $' -' (.' 3 .(' ' *(' (' 3+ +$.(' (' 3 *$('5 ('0 $' 4 ,.(' 3 ''(3 $' '$' ' (*' 3$, 8(*'' ((',' ' + *' $.' .' $*'3' ,+$*' -(' 4+'4 .,(' ' -$',$*3,$ *' -$,' -+*' $0 $,' $-' (' ' .'3,(.$' ,$ *' *' ' 3 (' (' -(' +*3(' ' ,$ $,$*3,$ *'' +' 4. #('('4 *' ( ).('3(' '5 * ' ,.$3,$ *' (36(.' * ' .+*9(' ' ( ) ('' ,' (-.+*' ('3 +''(' (' ,+ ,$,+' (' ,$ ('

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D C *8' 5 '5*' . ' ' =>?=' " ' ' ' '

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.'$! '(' * (' +' ';5 '>.6'> -.16';'M
0 <.76',;'4?;'6<J< /<P;<7 ;.46'=' '6 '>,7 <.<7 64 -1.'
5" / '1;5 .7,174.46.'>.5"?, 5 ='.%3<<.'6.'71, / ?.';.15' '
<.7<.<7?'65.16=4G0<' '-'<;.'=4.'>.6' <5 1E 4'>4<'<,4-.'4'
J.<1.'3'6,<7 'J 7.60 / ' 6'=4.56'6,<7 68';.6' <7E.1.56Z -,5'
><J' .'=4.';5 ';4<5 ; .'>.'1>6,4>1.'> '^\16'5.6'>,<< '
=4 5'?.47 '-, 1% ' 4 .67'?'6'>,47.46'=4 -5 .@ 65.' W< ?5'<
> .;5 '<J.68' / ' 6' ;.'?5'<'< .67'?'6'<,4-.'40 ,<5.'E' 71' '
?'1' 51.' '40,41>5 / ' ' -.;'>.6' ' / .<>. / .<56% < 6' 5 '466'
=4.8'>.?4 6' 71, 5.' '55 '<;.' .<71.'5.6' ;,416'>.' .<<.'.5'
>.' 7.160,41J8'5"?,5 7 =4.' >.6' ;'0 <.76'6 .67'1.?5 >.'>.'
<55.'< '4 .1.6'?,41'5"1, / ?1.' ,<>4'8 / , <6'?,41'5"1.<'
>1.' 1', <6' E,1 / >'05.' .5' / , <6'>.6714;7 -.'>.' >=4 5 01.'
?,5 7 =4.I' . .67'?,41' ;.7 ,00.7 =4.'5.'J1'<>H1>>. ;'E,1 / '
4< ,< J.1 / ', =4.8' .7 . .67' 6E51. / .<7 '466' ?,41' . .7
,00.7=4.'5"J4.11.' ';74.5 .'>.6' 41.6'E47646;5>.' '-.'7,<6'
5.6' <; >.<76'=4' 6.'6,45'?1>6.<7>68'5.76'=4.'5"?'17 ;?'7 ,<
7 ;.77.'J4.11.' >4'1,>'>.' 45 >.8'5.6'>-><. / .<7'>.'5"H,'
5,J<.8'5.6'71';'66.1 .6'>.6' B',<J1, 68' 5.' 6,45 -. / .<7'>.'
K1'0'<=,<6I' .7 5,47 ;.5"?1,B-.';, / 0 .<',<'??1.0.4>.'
;.77.' '55 '<;.'=4 8' '5" ->1 5>8' -4' / / .<6'5>'>.6'1.66,41%
;.6'>.';.6'>.4" ?4 66'<;.68' .67'E' 7.'?,41'>,<<.1'>.' ,<'
01'J.' U > '451.6'?4 66'<;.68' .7 6417,47 '4@ -, 6 468' ! .67'
6,46' ;.'?, <7 >.' -4.'=4 5'E'47 .<- 6'J.1'5.61',4-. / ,<'
>.6' ; '0 <.76I' ,< 7>;0.' >.' 6'=1'??1=;5 .18' >.' #,< 5 .1' .6'
<7>1' 561.6?.;5 E68' .7 . .67' ;.77.' ,<; 5 '7 ,<=< ,<6 .EE,1.>'
'40,<1>5 <'> ,05.< 1'?'1'7,<6'5.6 / ,V.<6'=' ,EE1.'7,47.'5"
5'774>.'>.5" ?,5 7 =4.% .6'>.0'<J.6' .7 >.6' '11,<> 66.'
/ .<76' 6.1-.47' 631. / .<7 >.' 0'6.' '4'6V67> / .I' / '76' ;.77.'
,?.1'7 ,< ?,5 7 =4.' ?. 7 6 . E.;74.1' 6'<6'=4.'5" H1'<;.8'
;, / / .'5.' .1' J<.<7 .<'>.6'J.<68'3'6, 5' / >5>.' .<'4.<<.'
/ '< 1.7 ;'1'6'>;6'>.0'<J '?,41''11, ,> 1'>.6' 7'568'>,0'
-.<7 '-, 1' .48' ' .67' ?546'=4.' ?1,0'05.'=4.'5" ,41'>.'
.<<.'<.'J'1>.1" ?'6'6.6'?,66.66 ,<6' ';54.55.68'>7, J<>.6'
>.';.:71.'>.'6.6'>, / ' <.67' .7 '5<6',<<.';,<; 7?6' <'
>1>7=4 .55.?,411' 7'-, 1>.;,41 1'5";.'<;.> ,<.'J4.11.8'
?,41' '-, 18'?'1' .@. / ?5.8' 6';.' .7'5" ,11' '<.8'=4 .55.'
<.'?,471' 7'?'6' 54> / .'J'1>.1'> '?1 6'5.'6V67 / .'>.' '1'
1,<> 66. / .<71

.6' '11,<> 66.7<.<56' ''741.56' >.';.77.'?4566E / ;.'6><7>4'
;,5.'>.'5" K'->1.8'>.'5" 41=4 .' .7'>.'5" ,5,J<.8' ;, / / .'
;.4@&7.'5" 8 3 ' ' .>7>'>.'5" K'57 =4.' .7 >.'5" 5>'
6 .'I;.57.'>.1<>1.'?4 66'<;.'?'1' 7 6.' / ><IYJ.17.6' / ,V.<6'
>V?'1-.< 18'6" ;,<>4 7.' '; 4.55.' 4>=4.' '66.0>->. / '
/ .<7I .55.' -, 7 0 .<=4 .55.'<.'?.45'?'6'1>466 1'> 66,4>1.'
'B' ;.'=4' 6406 67.' .<71.'5.6' ;,416'>.' .<<.' .7>.' >'
7.160,41JI' .55.'E. <7>,<.'>.'5" 1.6?.;7.> .< ?1,?,6'<7 ;.'
=4.' <. ,41'>.' .<<.' ">.6 1> >.?4 6'5,<J7. / ?68' 6'-? 1N'
>.6'>; '<J.6' .7 >.6' '11,<> 66. / . 5'8'6V65> / .'=4.'5" ,41'
>.' >5;160,41J '-' 5' '?24V>' E,17.< ,<7 '-'<7 .7 '?1>6'5"
?' 5'>.' 6.0.<0>.'6.'E7'V.1'?'1' >5.' ;0; / < '6,<'?1,'
?1.' 'J1'W5 66.1, .E578.7>.'6 '66, .18'?,41' '6'>1.8'U . .77.'
'55 '<;.'6' 1. ,45'05.'?,41' .55.% ' .67' -1' ' =4.' ;.'6V67> / .'
.67' ';, / ?'J<>'>.'71>6 J1'<>.6'> E ;45>6 ' ;'46.'>4'J1'<>'
<, / 01.' > <7.1>76' 6;;,B>' 1.6' =4 5'E'<7 ;,<7.<7.1E / '76'
' . .67 ?1>; 6. / . 7 '11'<J. / .<7>.';.6'>5';7?5>6'=4'>.'
'71' 7'1'6641.1';.4@=<'6 <=4 .7.<7'?,41' 'H1'<;.% 4?'
?,6,<6'=4.'5.6';,416'>.'K.15<.7>.' .<<.'6, .<7> ';,;,1>'
64 '5.6%?1<; ?.6'>;6'>;0' J.6' .7 >.6' ' 1,<> 66. / .<56I .0'
64 7 5'=4.' ;.55.6' >.' 1.6>.8' >.' 4< ;;8' >.6% .4@'
,<568' ,7;%8' .7;%8'5.'6, .<7 '466'Z V '41' 7 5'?'6'7 ;1' <'
>1.'=4.' . / , <>1.' .0'<J. / .<7,?>1>'>'<6'5 B'7?,5'5=4.'
';541E >.' 55. / 'J<.' < .< 1' <'7 4< ;.'<J. / .<7 7,7'5
>''66'W.<] 7W , ' \% 77?.6,<6.<;,1.'=4.' 6';.' .7 5"
,11' <.' .<71.'7 ^7'47 =6 .5=4.' ,>,6.'>'<6' ;.6' .'5.< 6'
/ ' 6'> '0,1> 5'E'4>1'55 .< E: 1.'5"8.,<=4U7.8'.7 .'64 7.' '
=4' 5.6'>,<<.1Z ' .6 '<. .<6' ?1,?1 >7' 1.68'>1' 7 ,<I'
1' / 68'>'<6. .;'68' ;'6' / 4,<6?1,?1 ' 1.68'?'1;.7';;1, 6'
6. / .<7 >.' ?4 66'<;.8' =4' < .67' ?546' ;, / ?'7 05.' '-.'5"
;,<67 747 ,< ';4.55.'>.1 / ?1.8>.- ;<>1' .<7 4< ,00.7
>.'0'5,46 .'?,41'5,416 -, 6 <68'=4 ' ;.17' <; / .<71. / 4.'
-'5;45'5.'>.5' .5'5"7.11.'?,41'E' 1.' '-,17.1'4<?'1. 5'?1,0;58

' # !()!' !! ')' ! ! ': ! 'FK ' !'
= !' = ! & '#)') +# !' !')! !'! !)!Y3!')'
' +#!' ' 5)!'') &: # = ! & ' #' % ')!'
%)! (B ' !'U!')# !' !')!'! ' !' : 4 ! ' E'
! ! Y '4! !' ! !' !' ! ' : ! ' ' '> !'R '
!'$ #' ' , & =)-'+#!' !' ' !' =! ' ' 4'
&! -'+#,# !' #))! ' '# !' ;& !
6 ' '! !! 8 P

! %

' ' +'B'V">>E'>,40E'<'- 1.6' .E7 ;:'1J. / 1'5'
?,41 >7.160,771JI' 5.6'<>J,; '< ''<J5' 68' <7>1.66>6'>'<6'
;.';, / / .1;.' '-'<7'J.4@8'?'1' 66.74'6 . / ?1.66.1'U ?1,E 7.'
>.6'?1. / .1.6'<,4-.55.6'>.'?' @8'?,41' .@? .1'4<.'J1'<>.'
=4'<7 5.'>.' / '1.0'<> 6.6'>'<6' ;.77.'- .8' '-.;'5'=4.55G' 56'
,47' #1' <5'>.'-, 1';.66.1'5.416'1.5'7 / 6% ' '66 / 'E7;.'>'
% ,<>1.6.< 41=4 .8' ,4>'<6'7,45.'471. .;:.55.>4 .-'<7'
=4' > ' 5' '4' . , / / .<;. / ; '>4' 1', 6'>'50' ?,41' 8' .6'
'40,4 >04 'U RCN'5.6' '<>6'?40:;6' 6.' 1.66.<7.47>.'5"
. ,<7 '4;# =4 <6? 1.' ' ?' @N' 4<.'?1.4-.' >.' 5" 0'4666'
=4 56'>?1,77-.<78' . .67'=4.'5.6'J'?,41'5 E5 6,<7 U' '5I 8'd
4'6 '57.4>'U' , 1'> 6'1 / .1' <; .66' / 77.<7 477.G1U6\'
J1'<>.'?'17 .'>,' " 55,77.7 5.6' / '5.5.76' .6?> [<5'1.;.1, '
0 .<747 5.14N ;,<J>I' >.0;' ' / 1'45>' '' E. 7 >>6'1 / .' 5.'
>.4@ !' =4' .7' .<7641'5" "' / 6.-'4?->6>.'5" ,418'
?,41' 6.1- 1' U >#?,6.1' 5.6' <'7.5,56' =4.' E04<7 66'77 >'
?1.66.% <;1, 7 =4U > 76=4.' '' B% K%6; ">.'1.7,41'>.'
<>6,18' 5'V '41" 4< ,1>1.' >4' ;,<6.55'=4' 1>-,=4.1"5"
?1 / .'?1, / 6.' '4@J.<6'>.' / .1' .<1> #6 -,5,<7' 1; / .<7%
+' 7 ">7#01'66>'U ,<>1.68' ' ()*' .7 (* 8 ' / 55 ,<'
UUU8U* '0'11 =4.6'>.'?,17,18' 8
"0'11 =4.' ;,<7 .<7 'J" B,'6I ' <6 ' .<'4 57 ?5 '<7
?'1';.'>.1< .1'<, / 01.' ;.54'>.6'0'11 =4.68'W<'41"U*' / 5M
5 ,<6' C899 'J'55,<6I'
.'J'55,<8' 64 -'47 '-'1V8' >,<7 .<7 .<- 1,< U ? <5.6>.'
'1 68'> , ' 5' >6K57.'=4.'5" =4'<5 7 ' >.'?,17.1' 01'66>.'U'
,<>1.6'>'<6'5.6'>.4@'646> 7.6' '<<#.68'6 .67' 5.V>.' U *)'
/ 55 ,<6'U 89U '?<7.66' / .6?1.'>.' '1 6%
$ '<6.45'01'66.41'& % : 7 01. '>P "01'6 >>'<6' ;.6>.4@'
'<<>.6' C8 *0'11 =4.6'>.'?,17.1%
P'6.1' 7' <7>1.66'<7'>.';,<4' 71.' >J'5. / .K7'5.6'=<'<75'
7>6'> '5.' .7>.'?.7 7.'0 >1.'=4',<7 >7>'01'66>.68'&'<7>'<6'
5.6'01'66.1 .6'>.' ,<>1.6' .7>.6' '4E1.6'?'17 .6'>4'1,V'4 / .8'
=4.'>'<6' . .5.6'>.6'?'17 .45 8' ?,41 / .<6'04J.1'>.' H>G
7.<>4.'>.';.77.'6.<7.'01'<;;m'>.';, / <6.1..%
' .'6..1>7' 1.'> 5'7 "1>?48' 5.')'4' / '7 <8'>.6'>>'
?>;5 .6'>4'5,1>'#,1< ['55 6% #.'J><>1'554' / ' =4.'=4 5' .6'
U5"7>7.'>.'- <J7 ; <= / 55.:, / / ;68'>.-'<5K'<J' ,1.8',:'
6.'1,4-.'-6 U -6'>E ?\ , '08;' / ?>'-.;'6,<'1 / >.8'>'
6,18.'=4 5 .67 U ?.4'?>6' 6E71'=4.'5.6'>.4@';,1?6'>.' 1,4'
?.6' .< - .<>1,<7 '4@ / ' 06% +' .'J><>1'5' 0.1;1, / 07
<>7' 7'?546'=4 "=' '1'? .' / 55.6'>= .1 'J'?'7' / 8'%>,47'
6.'?1,?,6' 5>.'E' 1.'5.'6>J.% 8'
<'- .<7>.'1.;.-, 1'>.6'<,4-.55.6' ?546'1>. .<7.68%.7'647
7,47'?546'>>74 55>.68'?'1'4<<'- 1.'>.'5"#, / ?'J< .8'?'17
5.'5 04 55.7'>.' ' '7. B>5><.8' ,:' '-'7 5' 66>' !$ '
'>,<7 5'7 .<75.6'?'1 ;45'1 7>6'64 -'<7.6N
1#' # 0F ! ' ,1 C! = (H6W & (!'= @
'1:!) &: , % ' = = ' !' = &! ! # (
! % ') +# !' & ! ' !'<! = &(F!' !'))'
%!>' , %) '!' % ' !' ! J !-, !' ',! D4&'
' !' '4 M ' ' %' #' !'*C &! '* # !# (
!'$ ' $# ' < &)*! ?, % : : !&! '
) !: !' '2 : < :(+#' , & = # ' +#!' ! ' !!'
#= ')! ! ')! !' # !'0 +#!' ! '4 !'
M # ' #& 'D = (' ! ' ?! & !C ! !'
= '1:!) &: !(: !# # %# !'&# ! ' '=#! 8
!' !' : #)*!' ' B ! +#! 'C # ' ' ' , ' #
!') B4 & P+#i' 2 ! < : " ' : # 'D F !'
#'% !' ' !! # ' !'<! = (+#,C 'C =! ' * '
& !' F ' ' % ' = !&! '+#!' ! '1 = (8! '
) ' ' ! ' ? * ! (, ! ' !## ' ! $!' 8'D
M ( )!' $!(V
" *' #')!' +#!'', ' ' ' ' !'% ! # @ ' !'
, & 3' & ' ' !' # ' : :!&! ' % =#'
'('9 V '+#!'', ' ?! ' #' ! ' !'C # A'? !&*

[illegible]

[illegible]

[illegible]

[illegible]

D'APRÈS UN DESSIN DU TEMPS.

Typ. Henri Plon.

Réimpression de l'Ancien Moniteur. — T. IX, page 495.

Vérification des richesses provenant des couvents et églises supprimés.

,<' / '-':'5' 66 '6.,5' ;0'1J>> <<'E'1>.'4'71,? ?>< 05.8'
;7'5.' / , / .<7' ,0'5'' 6<6?.<6 ,<'>4'>7.1.7'1.5' E'0' .<-.'
>.6'<,'-.'4I ';, / / 6]' 1.6 / .E'7?.1>1.5 .6?, 1>4'?1, / ?7'
1.5,41'>.' / .6' ;,551J4.6' ' 71' 7' ';.54'>.' / ,< >>?'17'8'6'
;'J <>1'5'>.' '1/5.'>,' ,1>'<.' / '-' 7'7.' ,J<9' ;'?546'
- E>>6 1'>.' / .'1.7.< 18 .7'6'0.'<'-' 6>7>7' / ,5<' /, 1<>/ .'
=4.' / '' ?1.6.<;.'>'<6'6,< #. / / '<>. / .<7'?, /1' 7'.<; ,1.'
E71.'47 5.% '1' 6'-4'5'' / '< >1.'>><7' 66. / E5>.'<'7 .<'5%.'
'-' 7' '1;4. 55' 5.6' >. / ',>.6'>.' W ,;.' 0.'4'8 =4 '5,7'
'1' .<7'>> 1'<6 / 6.6'?'1' / .6' ;, 5>J4.6% .?'17'J.' 6' .6'
> 6?,6 7 ,<6'?,415.'J>,>1'E'I' 5' / .<' ;,777' 7'> >71.76>?'1>'
>.' 66. / 05>.'5,16=4.' ';7.';,< 7 5,,<.5'54' '5' 7'>71.G'
6,4 / 6P 3' 6'5' <.'>.1' 7>71.=4.5'\ ;,55.;7 ,=>.;,=4
'-' 5' >7> > - 6> / .<7' >>;1>7>8' .7'0.'>.-' 6' <.']?,6.'6<1'
'6.1 / .<76I' < >7'E7 ;.'?'6> ' 55.4E6' ?'17 ; ?,<.';,1.
;.' <,4-.'4' 71'-' 5' 641' 5'' ;0<67 47 '=7.'>.';,0; 415
% >> 7,47' / ,< ?,4-, 1' '' '6641.1 '5.6'64;;>6>.6 7E641.6'=4 '
>, -.<7' .<' 'EE.11, 1' .5'05 66. / .<7' ! .67 -.16' .4@' =4.'
<,6' .EE,176'6.'6,<7';,<67' / / .<7 1 J> %%#.5 .67'?'6'0' / ,0'
>'??1>; .1' .' =4 6' W<7 E10>4 7\% '5 . 5. / .<7' 1.<>4'
;, / ?7.' '4' ;> / 7>' / 5 7' ;.' >.' =>.5='.6' <; >.< 6'>,<7'c'
5'?'1' 7'>71.'47 5.'=4.' 66. 7,05>.'<'7 0<'5.6, 7' <E41 / >.%
' 66> / 05>.'<'7 ><'5.' / '' .<- 1,'<> >. ,<7.5=;,<'
E '<;.' ?405 =4.% <' ' 'E' 7' / ,< ?1 0 .=E'5 / .V.<I' ; .6 5.'
6.,5'=4.'0.' / .'?5' 6.'> . / ?5.V.18' .70.'>, 6'54 '1'??,17.1'
%5,47'5.'0 .< =4 ' '' >7c' '??,17>'?'1' / ,< / 1 67 1.I' <E'7 G
J'05.' ';7 -B>'>.'<,71.'J><>1'5'E.<>' ;.:=4.'0,41' ?5 E6'1.' %'
?.;5' ;' >7'7'>.'>7 .<6?'%>.% ..77.'E1,<5 >1.8' .7'<,46'<.5'
;,<<' 66,<6'1 .<',' >.0,'6 4 '??5'6..<'?1>; ?7.1'5'E / '
.67'8'046=4 ''?1>6.45 '>'<65 ,7 .41'=4.'6.'71,4-.<'<,6'
?546'>'<J.1.4@'.<<. / 6% #.<. >?>6'=< ,<<V' ' 7'> ,4EE>%
0 .<'>.6' J.1 / .6'>.'> - 6 ,<8 &k4.5.?'71 ,5 6EE5.< V' ' 7'E' 7'
>.'J1'<>6 1,J >68' .7'=4.' ,1>1.'?405 ;'<.7.<>.?>17,47'>'
6.1>5' 1% ' 6',<' < . 7'?'6'.<;,1.''66.7.<'J'1>.';.<71.'
;6' -' <.6' 7.1E.4?U' ;,<71' >E' <0467.6'>>E '<;.6;,<71.'
5.6'E'46' 014 76' =?.'5'' / '51' 5?<;.'<.';.66.'>.'1>?'<>1.%
<' 6 '?.1..-1'' .<E < =4 6' <.' ?.4 .<7 ' / .<.1' =4.' 5''
;,<E46 ,7-. '<'1;0 ' <' ';:0-.1'' '5,16'>.'6.'1'5 .1' '4\'
7,41'>.'5'' I0 ' '>4' <, <.046=4 ';.' / , / .<7'5''6'7 6E';'
7 ,<>.<. ?-?'1'?'> <-,=?.' .<-' <%
$ <' 6G0;&Y ' .''0. / ? / .<18'>'<6'7,47.' >7.<>4.'>,'
;, / / '<>. / .<7'>.' ' 0.0' / 0.'48'>, 5''E,1 / '7 ,<'>.6'
0'7 >B, ,.'J'1>7.'<'7 , 45.6' -45,<7' 1.6% #.77.' ,?.1''
0 ,<'< '-' 7' 0 47U71.'?'6'. '?'17,<7' 0 .<?1#?'1#.I' < '6'
0 .6? 1.';.?.<>'<7'=4 .55.'6.' ;, / ? #7.1'' '-.';64; 6% ''
7.1 7' '4@> EE.E.<76> 1.;7, 1.6'>.'>#?'17. / .< 6'?,41' =4 6'
<.77.<7'7,46'5.4 / 6, <6'0 1';;>5>1;18' 0'5.6'5 .4@'>.1'6'
6., 05. / .<7'5.41' =7' 0 >' <> =406I' / '768' ;,1< / .' '4;4<.'
;1; ,<67'<;.' <.?,4-' 7'?,17.1' 0'E' 1.' ;.' 1'66. / 05. / .<78'
.7'=,.'>06' 5,16 5' <.>.-' 7' ?'6' <4 1.'4''' 71'-' '4@' >.' 5''
10;,55.8' 5' '' .5>' E @>' '4' G >.'6.?7. / 01.% .'1'66.4 05.'
% < ;<7'>.6' 0'7' 55,<6' 6.1'' E' 7 B1.;' 6, <8' / '76' ;.' < .6'
=4 '?106'5.6' <6?.;7 ,<6' .7'7.6'1.-4.68' =4' ;, / / .<;.1,<7'
0'..77.'>?,=4.8' =4 ,< ?,411' .<'>,<<.1' 4<.'0467.' >.'0'
66.1,05>.' <'7 ,<'5.'.' '4' ?405 ;% 4' 1.67.8'0.'>, 6'>1.'
=4 <>>?.<>' / / .<7'>.';.6'0'7' 55,<6' -,5,<7' 1.68'>,<7' ;%
1'66. / 05. / .<7'6.1''7,40,416' <E < / .<7' 47 5.8 <.'6.1' 7\;.
Uc4.'6,,65.'1'??,17>.'5'' >6; ?5<.'.7>.' <6714;5 ,<8'5.6'
J'1>.6' <'7 ,<'5.6' >.6' - 55.6'].'?.1E.;7 ,<<.<70,> / .55.'
/ .<7N' ;.55.'>.' '5.<; .<<.68' .<71.' '471.68' 6;' ?,17.'-.;'
0 ' '' 4<' 6.1- ;'1 4' .18' .7'71,4-.'.<;,1.'>.6' <67'<76'
?,41 %6.'E,1 / .1' '< / '< . / .<7' >.6' '1 / .6% ^' 6 .67'>7'05'
>'<6'6,?'6. < 4<.' ;, / ?'J< .'>.';'<,<< .16' .7'4<.'>.'E4M
6 5 .16% #0'=4.'0, 41' . 5.' >, ,<.' =4.5=4.' 7. / ?6' 0'6,< <M
6714;7 ,<8'6,46'5''> 1.;7 ,<'>.6'6,46 ,E55; .16'>.' '17 55.1 .8'
.7'>.00' .55.'6.1' 7'.< >7'7'>.' 6.1- 1'5.6'0'77.1 .6=4 '>>E;<'
>.<75.416'1. / ?'176%
W0.%V 46' ?1 .8' ,<6 .418' >.'?1.6.<7.1' 0' 66. / 05>.'
<'7 ,<'5g5 ;, / / 'J.'>.' / '' 1.;,<<' 66'<;.' .7'>.' / ,< >>'
-,4. / .<78' Y
66. / 05>.' 01>,<<.' <?1.60 ,''>.'5''7.771.'>.'
% K,'55>%
+' <.' ,; >7>> '1; :E7; ;7.6'>.' ?'- 55.'>.' '<7.6'
- ;<7'> >5.-.1',<' / ,<< / .<7'>.67 <.' '' ?;1?>74;1'5''
<. / , 1.'>.6'71'-'4@'>.'5'' J. <.1'7 ,<'?1. 6;<7.'?, ,1'
5'' ; ,<=4>7.'>.'5''5 0.17.%

< 134 ' 0 ' '' 30 0' 6K 1 ?2

,$ -3 ' 3'' (3.(,+$.('' #+$,' (3, .(' - $$(' 3 $(

>.' % ! .,1J.68';'? 7' <.'>.6J1.<'> .16>.5''J'1>.>.6'
'1.<<.6'I$.55.'.67' ' <6' ;,<;4.N
F -' - .<6'> .71.' <6 14 7'=4.' 66. / 05>.'<'7 ,<'5.8' ?'1'
,< >>#aE>7' EE88' '% >>=.1<>' >.6'1>;, / ?.<6.6' '4@' 55.6 .7'
7,V.<6=4' ,<7 .4 5. ?5<6' >.'?'17' '4@' >-><. / .<76'> . 0'
<4 7'>4C ' '4' 60, <8' .7=0 .'0 V 64 6'>><, / / >?,4107<.'
6, / / .>098 = 57% Y $' $ %% $
W .' / .67 / .'0.41.4@8' %50' ?1>6 >><7 8' =4.'E.' :'6'1>'
' / ' 7'E041<' 1,6#'6 , / '>.' / '< E.67.1' / <' .<7 .1'>.-,4.'
/ .<7' 0 4' ;,<67 747 , B.7'>.R?' 7'J. =4.5=4.6'>'<J.16'
'-.;' / .6' E 01.6 U7 .]8' ?, 6=4 0' ,47'7,41<>' '4'?1,E 7'
>.'5'' ;0 U?40 5= 1.% .' ?1 @ =4.' 66. / 05>.' - .<7'> V%
' 1. / ?5 7'?'1E'77. >47'5.'047'>.'7,07.' 1>;, / ?.<6.'
?'5 ,<':% $
$' %W ';;.?7.>,<. 8] % .?1>6 ;5J<7\' '- / '5'' ?546' - -.' .7'
6,?5<'0106?.;7'.4%6.' 10;, / ' 6'0<;.8 ;.55.'=4 % / 67'>EE'
../>.-' .<' -,7 6' ?1 EE<7%>.' ['5,1E a.<>71. ' '4?106'>.'
'1=4J<67.' / 05>.8' '7.1?107.'>.' / .6'6.<7 / .<76'I / '6'
#6407'5 '>.%71,4V.1'0 '=4.'0.<c? =' .'5'' / , 7'>E'E'
> .<71.5 .<' >.6' J'1>.6'<'7 7 '5.6'=4 6,<7'E<? , >.6' 641'
7 .6' E1> < 01 .6 IN]'<-' 04> ;. '4' 6.1- ;.' =4.'0 ,EE1,>.'
5' 1.'?.16,0<.<. / .<78'6, 5' '-.;' .55.68'6'57'>'<6' '1 / >.>.'
5 J<.8'>7'<70 .5 5>. > ;E.;,<6'; '? 0, 416 '4'6.1- ;.'
>6 / '?'71 .% - \8' 8' E . 8' 1%' A'
A(4.(*-' %-(0+* . ''(*$\ -(+,$ *+#(.' (*9+9(!'
'$*($ ' - (4)8-+' + ,.(@* $,#-' .-('!()f(,' - ,$'$0' 4 !'
)#5 (4 ' +0$ (\' +.(**('/-(!3)*3(.,'+0(3$+' * !/
-4+ $$ \ 0% /' %; % %!0' pD' D' /' A' !
(''* (+ 2 * (,*).(''+- $*,''++3 $,-' -(''
3 ,) (' ' #,' ' +. 36(# 3+,# b D +3 / ''. ',+!'
.(,/ -.$''##-+') (*' +',(+*(,' '#' +'
(V' .' ##.+44 .##+$N 4+.' '@$ (,! ,,.##,*$/ (' --!'
3.(,' $0++,(',.($!' /' A' / D
$ G 66. / 05>.'<'75,''5>8' #,<' >>1'? =4 5' .@ 67. / 6'
5.6' ;,' / 4< 7=7>= >J5 6.6% .7'?'1, 66.67,4??1 / >.6 '0.'4'
;,4?'>.-'6.61,0.40 .6'.7'467. 6 5.6'>..4 - .' .7'>.01,<0.I
#4.' 5.d / ,V.<FI> .<' 7 -.1' .'?Y7'5.'?546' 47 5.'0'5'' ;5 ,6.'
,05 =4.' 6.1' 7' >.' W6 ;1,?5,V.101'55 'J.'>77% / > '7>;''
;5,;:.68' .5'=4.';.55.' / .641.8' 0<' ';;.5>1'47 5.41' ;,<-.1M
6 ,<'.<.6?0..68' '41' 7' .<;,1.' '-'<'J.' > .< 1.<>1.'5.6'
?1,.>>>6' / , <6' > 6?.<> .4@I' '?106' '-, ^ 4E'6,<';, / 7>'
>.6 / ,<<' .68' '' >>; >7>;.%= 64 7N \'E
W 17% F%' .6' -' / 68' / .405.6' .7'467.<6 5.6'>.';4 -1.' .7'
>.'01,<0.8'?1,-.<'<7 >.6'; / / <<'47>68' >J5].6%.7'?'1, 66;6'
64??1 / >.68'6.1,<7%;'-,V.68' ?'1'5. '> 1.;5? 1.6'>.'> 7 .58''
'4@' 0>7.56'5 .6' ,<<' .6' 5.6' ?546' -, 6 468' ,4' '471.6'5 .4@%
>.65 ,>6' 0%5'' E'01 ;'7 ,<'>.6'E5'<68' =4 .41' 6.1,<7' <> =4>6'
?'1'5.' / < 671.'>.6' ;,<710047 ,<6' ?405 =<.68' .7'7.6'> 1.;'
7.416'>.6' ,<<' .6' ,4' .<71.?1.<.416'>.'5''E'01 ;'7 ,<'>.6'
E '<65.41' .< E.1,<7'?'66.1'5.416' 1>;>? 66>6%
, 5%' ';0'=4.' .<-,'6.1,<70, <76'>.6'> '568' ;.17 E >6?'1'
5.6' / . / 01.6' >.6' > 1.;7, 1.6'>.'> 671 ;78' =4 '><,<, .1,<7'5'' '
<'741.8'5.'<, / 01.' .7'5.'?,7>6'7,7'5'>.6'?>..6 .<-,V>.6% IT
$' B % ' '11 ->>'>.';.6' .<-, 6'>'<6' ;0'=4.' ;,7.5' >.6'
,<<' .6>4' '471.'5 .4' <> =4>8'5'' ->1 E ;'7 ,<' .7%'?.6>.'
.<' 6.1,<7' E' 7.6' .<' ?1>6.<;.'>.'>.<@V<; / 01.6'>,'> 1.EEG'
7, 1.' >4' 7 >?'17. / .<7' ,4' >4' > 671 ;78' >'<6'5.6'5 .4@' =4 '
<.'6,<7'?'6';:. B.4'>.'>>?'17. / .<78% .7' 5' .<'6.1'' >1.66>'
4<?1,.0 -.10' >,<7'4<.' . '' ?>> 7 ,4 .1'' '>1.66>.' ?'1'
5.'> 1.;5, 1.' '4' / < 671.'>.6' ;,<71 047 0<6' ?405 =7 .6 W' $
% 14J<,<'?1. 6.<7.8' '7E'K,<V >4' ;, / 7EE'> . / '
?5';. / .<78' 5.6'>.;1.56'64 -,<E68' =4 '6 ,<71.4><6I' %
8 ' ' ^ 'W 66. / 05>.'<'7 ,<'5.8' ,4S'5.'1'?M
?,17'>.'6,<';, / 7>'> . / ?5';. / .<78' =>;1.7.=4. .'71 04<'5'
>4' > 671 ;7>.' '1'6;,< .7' 6.6' ';;.6V, c .68' > '05 6'0' ' <7'
. / 8' 6.1,<7' 71'<6E>1>6' >.'5'' / '6,<'>.6'; >,-'<7' 1 <0'
7' 1.6'>'<65.' / ,<'6501.'>.6'; >.-'<71.5 J .46.6' 4J467S '
K;6'>.'5'> 7.1,' 6 <'>.' ' <7 7, %8' -';'<7' ?'185'' 1>71' 7.'
-,5,<7' 1.' >.6> 7.6' 1.5 J .46.68' .7' =%4 5 ,;;,?.1'8' ?'1'
?1,- 6 ,<8' 0'5 71.'>.'5,V.18' ?, ,5' >.4@' 4,<> -' 1=4.56,''
%>>7.1 / <>'0'> 1.'> .@?.176I
$' >;107.=4GB' 6.1'' ?1,.>> '0' '>04> ;'E > E ' '4' 1'0' 8'
>.6'1.?'1'7 ,<6'.7'11'<J. / .<76' <7.1 .416<.;.66' 1.08' <1'
5.'>.- 6.6 / '5 E'=4 >1'771'57.'?10'5'07. / .<7' :=66E I' 01'
/ ,<7'<7' 5'=4>5.''>07' ;'7 ,<44 1'07E568' '<6'=4.';. %
5, '>4'5,V.18'6.1,,7%60??.1 .]?'1'5.6' '> / <6 :>6 '
Z ^)S' 66.7 0.<'7 ,<'5.8' ,4 '50' #'?'
?,17' >.' ';,7< 7.'>. / ? =;, / .<78' ;,<6 >.1' <E' U'
7; >4.'.70'' c0 / ?&=,6 7.'>4 ; .1'<'?' '6' .?6;,?'5' >.

71'60,41J6.<7?.<;.1-.<'07.7?,417 - =' .' '.74.5(]=4.' ;.'?'5' 6.@ J.1' 74< .471;7 ., '<<4.571,?;,'6 1':5.8 .7 7596 7,16 71,? > 6?1,?,17 ,<<J '-.;'6.'-.-.<46I' '7'1 6.'5.' > 1.;5, 1.' >4 >>?'17. / .<7 >4 K'6 K0 < 0 6406 7 74.1' ;6 ?'5' 6 / ' 6,<;. >.-''7?,66 > .'?'1'5.' J1'<> ;0'?71.' >W5'';'75 >1'5.'>;' 71'60,41J8 6 747.' '4 ;, <>.6 14.6>.' H5'1.6 .7>.6 H' 6' 8 ?,41 V ?5'E;'G E >-E =4.I

W '45,1 6.'?'1. 5 . '' .<7 ' E' 1.'?1,; >.1' ' '>04> ;'G 5 ,<8 '4 1'0' 68 >.6 1.?'1'7 ,<6 .7 '11'<J.<&0<56I <7 1 .W1' 7 ;.66' 1.6 64.' .'>.- 6 .65 14'7 ' =<' .< '41' > .'?1 '5'\' .4 .<7 >1.66 I' ' ' <5'<5 >.'5'=4.55.' '>04 > .'7 , ''4' 1' :' 6 ?'V.'?'1 .'1.;,-.41 >4 > 671 ;7I

W ;1 7.' .< ,471.'=4.' 6,<6 4 7' <.8 5.'>1.;7, 1.'>4' >.?'17. ' .<7>4 K' K0 <&.1' ?'66.1' '4;, <5 >.E5 ?5';.G ?;<7 6.6 14.6 641'5.' / . 77.41 ?'17 0 7 1.1 ' '4 ?1,E 7 >. 5' <'7 ,<8 >4 > . . '<7 ?'5' 6 .?6;,?'5 >.' 71'60,41J8W

+' '1'5.' ;, / ?7.'1.<>4 ?'1' .1< .18 '< <, /' >.6 [/ 7.6 / 777' 1.' . '> 6 E <'<;.68 7.' >.;1.764 ' -'<7 .6 71.<>4

W 66>:05 .'<'75,<'5.8 '? 6 '-, 1 .<71<>4 5.' 1'?\' ?,17 >.6 ., / 5 6 / 5 7' 1.' .7 >.6 E <'<;.68 > .1;7.' ;.'=4' 64 7N

W '6.1' 1. / 6 '4 / < 671.'>.'1 <5 1 .418 ?'1'5.6;, / ' <E 66' / 6>.5' 1 6,1.10.' '7 ,<'5.8 '6, / / .'>.C 8CCC U* 6 ?,41' ;=4 77.1 E/E.E1' 6 E' 76 E' , ;'6 ,<>.6 7<,4-.' / .<76 .7 >46.0,7 1 >.6 71,4?.6 . / ,0E..6 >'<6 7.' >#?'17.' < . 7>.' 4>.8 .< .@7 ;45 ,<>.6 >>.1.76 >.6 ' .75('',E778 .7 ' ..7,01.' U(*>8 '5' ' :'1J.'?'1 54 '>.0,65 E .1 >.5 .<' ?5,'>.;.77.6,EE5 6.8 ?'1'5.';, / ?7.' '??4V.'>.6 ?7 ;,6 046' '5;'# -.6=4.5.6;,1?6747 / . 1'7 E6 6.1.<75.<46 >.'54' .<' 5d ?,1 W-'

W '1.J'1>'>.' <>.<7< 5>'>4.' ' .1 E .1 '1'6,< >.' <;.<> ' ?'1' <' .?1,<->' >'<6 5.6' , ,-. / .K56 =4' ;41.<7 5 .4 '5' / 7, ' ?,=4.8 .7 =4' .67 1.>' / .'?,41 54 '?'15.6;,1?6'> / < 67< . 168 ;, / / .'0' '0'<7 9 .@?,6.' ?'1'P.'0>.'=4 ' '??,17 ' ' .@ ;'7 ,<>.67, 6 1.5'7 -.6 5' '5 01.' ; 1;45'7 ,<8 >.6 J1' <68 66. / 05 .'<'7 ,<'5.' ' / ' 7,1 6.'5.'> ?' 7. / .'7>. 4>. ' / ?,6.18 ..'5' ?1 6.<7' '/ .8 641' 7.<6'5.6 ;.<71 04'05.6 >.' 6,<'<.<> 66. / .<78 5'6, / / .'>.' 8** ' -8 ?,41' 1.'1. / 6.'4>7 .1> .18 ,<' '5' 1.' . / ?14<7>.;.77.' / / .'6, / / .'?,41 1.'1; / \ 8 0.4'16 .'641'5.6 1>5.6>.' (*C Y

+' E .1 '66 55,<8 '?1 6 4< ;,417 1'??,178 ?1.6.<7.8 '4 <, / '>.6;, / 7.6;.<71'5 _. 5 =4 >'7 ,< ;7 >;04> ;'741.8 .'>.;1.7 64 -'67 $

W 66. / 05 .'<'7,<'5.'> ;1 5.'=4 5 < V'7E.,' ' B=< ' U;1'5.6,E ..6>.'?,17,<16 >.'6.7>.' ,4.<8 6'4E' '.4@>.'Y.' ?,41-, 1.<7,>. / <5 '6 5 V > / 7 Y' W

.- =4.>4 >. ?'17. / .<7 >.'5' . <. 7, .1 .<1.' 1.;5' / .';,<71.';.'?1,0.78 .7 >. / '7 >.'=4.'5' '5 =4 >'M 7 ,<'?1,?,6. .?';7.;, / / 66' 1.>4 1, '5 =7 >'7. 1' 6, 5 / ' 7.<4.I .78 >'<6 5.';'6 ,4 ;.77.'?1,?,6 7 ,< 6.1' 7 -.0.7 ;8 =4.' <>. / < 7.'>4.' '4@ ?,17.416 >.' 6.5 6, 5 5 @..' 4<.'6, / / .' J'5.8 ?,41';.';4<> .7 @8 ';.55.'=4' .67 ?,17..'>'<6 5.41';,<71'7> ';=4 6 5 ,<

66. / 05..''>,?7.'5.'?1, .7Y1.6. 7.?'1 > .1' '66 55,< $

\ '1 5' ', 7<, / ' ' 0 !

.'7,47.6 5.6 ?'17 .6 > '>7< ' < 671'7 ,<>,<7-,46 6'>. / .41.66' 6 68 5' ?546 / ' ?,17'47.8 6'<6 >,47.8 .67 ..55.'8>.' '5 .<'7 ,E5 >.6 >, / '<.6<'7 ,<'4@8 '6,< ' '.'675 .';. 4 '>.'-,6 '471.6 71'1'4@7 . .67 ?'1';.77.'5 '<7.';,<6 >.1'77,< =4.'-,46 7 .'.1>7.6 ?'6> '0,1>8 >.-, 1'5' ;,<K.1' '4@ / ' <6 '5,16 646?..7.6 >.6 ?1Y<; ?'4@'J.<76 > '?,<' 1, 1'.@ ;47 EI -,46 E,1 / >7.6>'<6 -,71.' ?1,?1.'6. < <<';, / 7 .:'1J.>.'7E,<<.1'5' ?1.1, E.1.' / ?456 ,<' ..75.' ,? 1'7 ,<6'545'71.' .7 0'1> .'=4.'7'1 7> <7.1>76 ;7 >.' ?'66 ,<6 >.-' .<7 ;,<71'1 .18 .7 -,46 ' ,1 ' 6>7.6 ' .< 64 -1.' .7 ' .< > 1 J.1'5.6 / ,4-. / .<76I 0 ' 6 c <.'7'1>' ?'6 7 6 '?.1;.-, 1'=<.'01 .<< 7'7 / , <6 ?1,?1.' '1; / ?5 1 47 5. / .<7 >.6 E,<;7 ,<6'>'

4 671'7 -.6=4 4< ., / 7 >4 ;,1?6 5.J 65'7 E8 .76,< -,.' ';,<67'<78 >.6 6 ?1. / .16 / , / .<76 4.'6,< .@ 67.<;.8 ' 7.' =4.' 5' ;,<67 747 ,< ?1, / ?7. / .<7 7;' / ..',4 ?1 7.' ' 71.'54 '.1 / 7>.'-,46 ?1, ,6.1 -3 1.<>1.'+ '4 0 $.'(2 3 , -(c# 3 *5 $ $ c'

,<7 5,40,<16 ?'1<'>.-, 1' 1.' .@ / ; .6 ?'1'54 ,71.' ;, / 7.' ' >,<.'?.<6.'=4.'5.' / , / .<7 7' 7 -.<4 ,4 5 ?,4-' 7 ?1 ?'1.1.7 -,46>. / '<>.16' 1.71' 7. ,71.' ;, / 7.' ,6.';;, 1.'=4.' ' ' 64;;.6 >.6 ,?.1'7 ,<6 =4.' -,'6 '-.0 ;,<5 .6 ' 6' 641-. 55'<;.'< ' ?546 1 ;4 ' 1.>,47.1'>.'5' / '5-. 55'<;.' >.6 'J.<76 >4 ?,4-, 1' .@.;47 5 #< / 55 '1>' ,4 .<- 1,<'>.'>, / ' <.6<'7 , ' <'4@'> ' '>0<J 6 -,46 1.?,<>' =4.'5.'641?546 <.>.' / .41.1' ?'6 6'<6 ';=4.7.416

.;,1< 7;' ' .@' / <.' '-..'0.'4;,4?' / JE 17.' '4=4.5 >.6'J.<76><'?,<-, 1.@ ;47 E 5 ;,<-.<' 7 5.' / .4@ >.'1. / J751.'5' > 1.;7 ,< >. '5 <'7 ,< >.6 0 .1 6 '<'7 ,<'4@ '6 .67 ;,<-' <;4 =4.8 5' 641-. 5' '5'<;.'> 4< 6.4E:, / / .'.7'<7 '?. <.'64EE 6'<7.'?,41' > '466' / / .<6.6 >.7' 568 '4;4<'>.6 1' < 671.6 >4 1, ' <.'?,4-' 7 .< 71.'>1.;7. / .<7 ;:'1J.'6'<6 =4 5 .<' 1.6455>7 4< 1.7'1>871.6 ?1.04> ; '05.'4 64;..6 ' 1.<7.6 .7 4< . / 0'11'6 <4 6 05.' '4@ '471.6 ?'17 .6 > ' 5 / < 651'7 ,<>,<7 5.6 4 < 671.66,<7;:'1J.6

.67 '4 ., / / 66' 1.'>4 1, 8 '> / < 671'7.41 >.'5' .' 66.'>.'5 .@71' ,1> <' 1.8 =4.'-,71.' ., / 7 ' ' ?.<6.' =4 5 ;,<-.<' 7 >.'1. / .751.'5' 64 7.' >.' 7,<7.6 5.6 ,? 1'7 , 6 1.5'7 -.6 '4@ 1.<7.6>.6 0 .<6 <'7 ,<'4@8 .7 >.';,<E .18 6,<6 5' 641-. 55' 7;.'>4 ;,1?6 5.J 65'7 E .7 >4 1, 8 <6?.=5 ,< > 1.;5.' 641';.77.'?'15 .'>.6 E,<;7 ,<6 >.5.J4 .6 '4@;,1?6 '> / < 671'7 E6I

.'6.45 ?, <7 6 15.=4;5 -,71.';, / 7.' ' 71,4- '>.' 5' > E7 ;4 .8 . .67 'E @.1'> 4<.' '?1.; 6.' 5.'<,4-.'4 >.J1.'> '47,1 7.'=4 5 ;,<- .<7>.';, ' E.1.1'4 ., / / 66' 1.' >4 1, 8 .> / < ` 71'7.41 >.'5' .' 66.'>.' .@71' ,1> <' 1Z8 'E < =4:8 > 44.'?'178 '>' / 4 671'7 ,< =4 '54 '6.1' 1. / 6.'< ?1,4-.'?'6 >'<6 8 6.6 / ' <6 4<.'1.6 67'<;.';'?'05.'> .<'11 5.1 ,4> .< J <.1'5' / '1;:.8 .7 =4,8 >.' '471.8 5'G : 1'1; ;' >.6 '<7,1 7.6 =4.'-,46 '-.0 ;.4 67 745 ,< W55. / .<7 .7'05 .6;<' / '7 .1.> '>< < 671'7 ,<' 5 1 .41.<.6, 7 ?'6 >.1'<J..8 .7 =4 5 <.'6, 7 ?,17 '4;4 .''77. <7.' '4@ ?1 <; ?.6 =4.'-,46 '-.0 E @.6 ?'1'5.6 61.<>4.6 641 E ,1J'< 6'5 ,<>4 / 4 67.1.'.7 641';.55.'>.6;,1?6 '> / < 671'7 E6

,71.';, / 7.' ';14 =4 ,<'77. <>1' 7;.'>,405.'047 .< ,1>,<<'<7 '4@;,1?6 '> / < 671'7 E6 >.';,11.6?,<' >1.' '-..5.';,471,5.41 >4 1, '641'7,46 5.6 >.7' 56 >.6 .67 / '7 ,<6>.6 '>04> ;'7 ,<6 .7 >.6 ?'V. / .<76 >,<7 56 >.-1,E57 54 ' '>1.66.1'>.6 7'768 m7.<'!

641-. 55.17,47.6;.6,?.1'7 ,<68 '6.E' 1.>,<<.17, 6 5.6 1.<6. J<. / .<76>,<7 E '41' 0.6, <8 .7 ' >,<4;1' 5.6 ,1>1.6<.;.66' 1.6 ?,41'5.' / ' <7 .< >.6 1.J .6 .7 >.6 ' .7' .6 ?'1'-,6 >.;1.768 .7 ' >.<, ;.1' ' @ / < 671.6 >4 1, ' 5.6 1 6 67'<;;6 =4 5 ?,4-1' 7 ?1,4-.18 ,4 5.6 '046 =4 '?,411' .<7 6.'J5 66.1'>'<6 .@.;K7 ,< >.6 5, 68 '5 < =4.8 ;,<E,1 / . / .47 ' ;.' =4' .67 .7'05'?'1'5.6 5,76 >.6 C(' / '16 .7 C ' / ''>. -' 7 .18 .'1, 8 641'5.' ;' / ?5.'=4 '54 ' .<'6.1' '1.<>4 ?'1' 5.6 / < 671.68 ?4 66.' . / ?5,V.1' .,1171;'5.6;,1?6 '>' / 1 671'7 ' ' =4 '6.'1.<>1' .<7 ;,4?'05.6,7 '>m<.J5 ' J.<..' J1'-.8 ,4>.' >.6,0. 66'<;.'?.16.- 1'<7.8 ,W >.?1 -'1;'7 ,7 8 7,465.6 / ,V.<6=4;5';,<67 547 ,<' 1. / .7 .< 6.6 / ' <6 ' .7 >,<<.1'7,47.6 5.6 ?1,;5' / 'M 7 ,<6 .7 <6714;7 ,<6 < ;.66' 1.6 ?,411'??.5.1',4 E' ' >5 7.1'1.@..<7 ,< >.6 5, 6

.55.6 6, 7 5.6 > 6?,6 7 ,<6 .7'5.6 / ,7 E.'& 1>.;1.5' >,<7 0.'64 6;:'1J '>.'-,46 ?1.6.<7.1' .'?1,0.7

W 66. / 05 .'<'5 ,<'5.8 '?1 6 '-, 1'.<7.<>4 5.'1'??,17 >.'6,<;, / 7 '>'5 .<'7 ,<8 > ;1 7.' I'

W 17 6 ' ;, / ?7.1' >4 ' 6.?7.1,01.' ?1,;:' <8 5.' ., / / 66' 1.' >' '1, 8 '> / < 651'7;41' >.'5' .' 66.'>.' .@' 71' ,1> <' 1.8 6.1' ;:'1J '>.'5' 6' <.'>.6 ,?.1'7 ,<6 1.5'7 ' -.6 :'7' -.<7.'>.6 >, / ' <.6<'7 ,<'4@ I .<';,<6.=4.<;.8 =' ;,7< 7 ' 5 '5 <'7 , P 54 'E.1' 1. / . 1.' 7,<6 7.6?'? .168 / / , 1.68 .7 > '56.@ 6 / 56 >'<6 5.6 041.'4@8 '471.6 &? .' 5.6 / <47.6>.'> ; -76 .5 7'76 >.'-.<5.6E' 7.6 '4@ / < ;G ?'5 7 6V 5.6=4.56 6.1,<7 > ?,6 6 '4@ '1;: -.6>.' 66. <' 05 .6 <'7 ,<'5. 8 A < 671 A >,'5' 0467 ;.' '>1.66.1' '< [/ <466' 1.'> 7 1, ' '> / '5671';.41 44.' .@? > ,< WY

E,1 / .'>.'7,<6'5. > 6> ;7;76 .7>.';.<7 =4'6.1,47 1;<>,6 75 '-.< 1%

$ % .6> 1.;7, 1.6>.>.?'17. / .<7.<71.7 .<>1, 7' .;' 5.';, / / 66' 1.'>4 1, ' .<.';,11.6?,6>'<;.' .@';7.'6<1'7,<6 5.6 ,OQ. 6;,<;&S1.'E555'-.< .>.65P .<'' <'7 ,<'4@8 .7 54' '>1;66.1,<7 1.J45 .1.7<.<5 5.' .@71' 56 >.] ?1,;.6 -.10'4@ >;67 / '5 ,< ,4 > .-'54'5 ,<I .@. / ?5' 1;6 > ' ;:.68 JA ?.>5 ,<6 >.' ?1,;E;6 1.10'4@>'>Q4> ;'7 ,48 ;7J;<.1'5.' / .477,4'5.6.7'76=4 56 .7' .<7 7.<,6 >'>1.66.1'< ;,' / 7.' > '7 .<'5 ,<%] 54' '>1.66.1,<7 >J'5. / .<7 7,<6 5.6 .;5' 1; 66. / .<56 =455 ?, '11' 5.41 >. / '<>.18 ;,<1,1 />G <. 7 ' >4 5 71.' G'>.'5'' 5, %>4 '>.;. / 01.'

(* % %

$G % .;, / / 66' 1.'>4 1, '641 1. 55.1'' 7,47.6 5.6 ,?.M 1'7 ,<68 '<5 .<>1'' ,06.1-'7 ,< >.6 1.J .6 .7 ;,<>M 7 ,<6 ?1.6;17.6 ?,41 5'' -'5 >5> >.6 '>Q4> ;'7 ,<68 .7 >=4.1'' '4@ '> / 4 671'7.416 5.6 / ,I.<6 > .@>;47.1 5.6 5, 6%

W % ' -. 55.1'' ?'1. 55. / . 7f + '' =>.'5.6 ?1,;41.416 J 1 4@ 6V<> ;68 6,46 5. [6 ,5> .68 ?,4164 -;47 '-.' .@';7 74>.8 ;,<71.' 5.6 '>Q4> ;'7' 1.68 5.'?'V. <.<7 '4@ E,1 / .6 ?1.6;' 768 .5 5'' E,55.' .<.05 1;' > '47>.'?'V. / .<78 17 ';.'=4 56 >><,<..<7 ' ';;46'7. 1 ?405 ;8 .7 ?,<164 G -.<7>.1'<7 5.6 71 04 '4@8 5,46 5.6>.5 68 E1'4>.6 .7 ?1.-'M 1 ;'7 ,<6 =4'?,411' .<7 6.';, / / ;571.'>'<6 5.6 .<;5 .1.6% 8 W 8 < ;'6 >.'<.J5 J.<;.'J1'-.'>.'5''?'17 >.6 '> / <6' '71'5.4168 ,4 >.';,<71'-.<7 ,< '4@ 5, 6 ;,<;. / '<7 5'-.<7.' >.6 O .<6<'7 ,<'4@8 5.';, / / 66' 1.'>4 1, .< <6 1< 1'' 5.' / < 671.'>.' 4.1 .418 ' =4,'5.'1, 8 641 5.';, / ?U.' =4' 5, ' .<6.1'' 1.<> 8 ?4 66.' '<<45.1 7. '' ';7.6 11.J45 .16 ,4 ;,<71' 1.6 '4@'5, 6 =4.'5.6 ;,1?6 '> / < 671'7 6 6.6.1'7.<7 ?.1 / 68 .7 ,/ ?5,V,1 ;,<71,' .4@ 7,<6 5.6 / 'V.<6 =4.'5'' ;,<67 747 ,<W1. / .7 .< 6,< ?,4-, 1I .78 =4.5 =4.'6, 75.' 1>6457'7 >4; <6. 58 5.' / < 671.'>.' <7.1 ;41 .< >,<<.1'' ;,<<' 66'<;.,5 ; .55.'4 ;, / / 66' 1.'>,'1, %

$.;, / / 66' 1>>4 1, '6 >1.66.1''>J'5. / .<7 '4 / M < 671.'>.' < >1 ; 1 7,47.6 5.6 E, 6=4.' .@.;45 ,< >.6 5, 6 1.5'7 -.6S '5 ><'7 ,< >.6 >, / ' <.6 <'7 ,<'4@ < ?'1' ' '71'' .@ J.1 >.6 ?1, ;5' / '5 ,< % %

W % ';, / ?7.10>.'1;?,=4.'5 @>.'?'1 '155;5.' G1 >4 ?1.6.<7 >>;1.58 5.';, / 5'> '5 ><'5 ,<< .@.1;.1''?546 > '4% 71.6 5,<;7 ,<6 =4.';.>.6 =4' -,<7.71.>.6 J<#.6I c5 ?1>?' ' '1.1'' ;71'??,17.1''S'> 66. / 06>.'<'7 ,<'5.'5.6 ?: Q.76 >.'5 6 <>;.66' 1.6775'' 6<7.>.'E',?.1'7 ,<>.' '5 ,<'7 ,< >.6 O .<6 <'7 ,<'4@I 5 54 'E.1'' >J'5. / .<7 5.'1'??,17 >.6 >#;1.76 =4' 1.67.<7'' 1.<>1.'4 ?1,E 7 >.6 / ,< ; ? .6I 5 641-. 55.1'8 >.;,<;.17 '-.;'5.6 ;, / / 66' 1.6 >.'5'';' 66.'>.' .@51' ,1' > <' 1.8 5.6 ,?.1'7 ,<6 ;,<E #.6 '<;, / / 66' 1.'>,'1, 8 '>' / 55 671'5.418 ?,41.< <6714 1.'1 66. / 07..<'7 ,<'5.7,47.6 5.6 5, 6 =4 5 6.1'' <>..66' 1.%$

$ % ' ' , ; ' 7 < '17 ;5.' '>' 7 ,<<.5 =4.'Q;' ;1, 6 <.;.66' .'> 'Q,47.1 '';.4@ =4.'- .<7 >.'-,7 6 ?1.6.<5.1 % ,4J.'1>N

' ' <.'6.1'' ?546 E' 7> .@?>>7 ,< .< ?'1.0. / < >.6 >>' ;1.76 > '5 ><'7 , P >.'>, / ' <.6 <'7 ,<'4@ '4@ / 4< ;?' ' :>68 <'>.6 > '56 Q, <76 '4@> 76 >>;1.768 6, 5>.';.4@ =4' ,<7 >.'1.<>46 Q46=4 S' ;.'Q,418 .7 = [' < ,<7 ?'6 .<;,1.' > >.@?>> >68 6, 5 >.' ;.4@ =4'5,6.1, < > '-.< 1I / '68 6? .6 =4.' ;6>7.6 '5 ><'5 , 6 6.1,<7 7.1 / <>.68 5 6.1'' E' 7 4<.'.@?.>7 ,< .< ?'1.0. / < ;,<7.<'<7 >7'7 >.'7,47.6 5.6 / 4< ;?'5 7>6 '>Q > ;%74 1;6 >;'>, / ' 4#6<'5 ,<'4@8 \ ' =4.55.' .@?.>7 ,< 5.'6;.'4 >.' 7'7 6.1'' '??,6.8 .7 .55.' 6.1'' 1. / 6.'4@ '1;: -.6 <'7 ,<'5.6% Y

66. / 05..' '>, ?7.' ;.6 >.4@>.;1.568

$,(' ' ' ' ''0 ' F

' 5 <6 7 '' 1, 6 . / .'=4.67 ,< =4 ' -,46 1.67.''>. ; >.18 1.5'5 -. / .<7'4@ / . / 01.6 >; ''E' ' / 55.'1,V'5.8 ' .67 ;.55;'>.'6'-, 1 6 56 ?,411,<7 .@.1' ..1'>.] ?5';.6 '' 5'' , / <'7 ,< >4 ?,4-, 1 .@. .47 E% ''=4'51 E. / .;67>.'6'-, 1 6 56 '41, 7 4<.' >><, / ' <'7 ,< ?'17 ;45 E.1.I .<E < ' >.' 6'-, 1 =4.55= 6.1'' ;.77.'>.<, / <'7 ,<% ' % d

-'<7 > .<71 .1 >'<6 ;.77.' > 6;466 ,<8 ?.1 / .77>0' / , '4<.',06.1-'7 ,<% .6 ;, / 7>6 E.'6,<7 ?'6 '55.6 ;:.1;:.1 >.6 .@. / ?5.6 ;:.0 5.6 <'7 ,<6>71'<J 1.6I / ' 6 ,<''-'<;7'O .1 4<E' 7 E'4@ 5,16=4 ,< '' > ' = . ' <J5.7.11.' 5.6 / . / 01.6 >.' ,+E' / .'1,V'5.

W' Q< %$+ O / .' ''8

'-' .<7 ?, <7 >.'5 71.' > 65 <;7 E% 556 6, 17 ?' 16 < 6I 76 6 . J.<5>;'>1, 7 >'<6 5'' #:' / 01.'>.6?' 16% .' ' - .<6 '' H'=4.67 ,<% '?1 6 5.'> ; .7 =4.'-,46'-.0 1.<>4 : .18 <,46 6, / / .6 ,05 J.6 > .<,<;.1 '-.' 6;14?45.' .7 ; 1; ,<6?.;7 ,< ;.57 ' > '<Q,417 : % ' .67 >.6 E,<;7 ,<6 '' 5'' <, / <'7 ,< >4 ?,4-, 1 .@.;4' 7 E =4 ''664Q.77 66.<7 5.6 E,<;7 ,<<' 1.6 '' 4<.' / '1; 7.' .7'0 .'?'1 5'' ;,<67 747 ,<8 .7 =4.' 5.'1, ' <.' ?.<7 ;:'<J.1% G 8 G

,46 ?;:6,<6 =4 5 < V '' ?'6 > <;,<- .<76 '' ' 66.1 5.6 / .1<01.6 >.'5''E'< 5 .'1 V' .' .@.1#.1 ;.6 6,17.6 > . / ?5, 8 7; 6 =4.';14@>.' ' / ..8 ?'1 .''. / ' ?5.86 6V ,<7 ><J ,47% 5 66.1,<5 ,05 J.68 ;, / / .'5.6 '471.6 ; 7,V.<68 '' ?'66.1 ?'1 7,46 5.6 J1'>.6% ' V'8 '' 5'' ->1 7>8'>.6 ?5';.6>.' '1 / .'=4' ,<7 '4 ;5 , @ >55 ?,4-, 1 .@.;45 EI <Q' 6;.'< .67 = '4 >.1< .1'>.' J1.'>.' ;;:.55.8 .7 '?1 6 =4 ,<'' .7.' 0<J7, / ?6 >'<6 5.6 J1'>.6 640'57.1<.68 =4 ,< ?.47 V ?'1-, 1%

' <71<'<75.6 / . / 01.6>.'5''E'1< 55.'1,V'5.'?,41 1,<7 56 ;, / / '<>.1 .<;:.15.6'1 / ..6 #.77.'=4.6M 7 ,< .67 ?546 >.5 ;'7.N / ' 6% ?4 6=4 56 <.'?,411,<7 ?'1-.< 1 '4 ;, / / '4>. / .<7 = '?1.6 '-, 1 ?'66> ?'1 7,46 6 J1'>.6 7.1 . 168 > '?1 W6 ;6 1.J .6 >.' ' ; .<<.7.8 5 <.' =7 6 '' ?'6 ?'14 =4S 5 ';47 >;' 1 <;,<-.< .<78% c?, <7 ;? <6 > EE ; 5.'>5' 7>.'6'G -< 1 56 ?,411' .<7> 1.' / < 67.16% .'1, ' .67 11.6' ?,<6'05.I ?'1 4<.'E ;7 ,<8 5 .67 7,4Q, 116;.<6>E' ;# 5.'0 .<8 .7 -,45, 1 1.@..?5 ,< >.6 5, ' .6 / <76' 71.6 6.'56 6,<7 1.6?,<6'05; I 5.' ;,1?6 5.J 65'7 E '' / > / .';,<71.Q.4@4<.'';7 ,< .<;,1.'75;4@ =<6 '?1.6 5.41 / < 67.1.% ' '47>,<.'6'-, 1 6'5.6 / . / 01.6 >;' 5.' / 55.'7,V'5.' < '41' .<7 ?' '71,?> <E54.<;.' , 5 >.'?1.?,<>.1'<;.' ?.E<1'6.'6,4671' 1.' ' ';7 ,< >4 ;,1?6 5.J 65'7 E% , 1.';, / 7>' '' ?.<6.'=4.';.77.'1' M 6,<17' 7 ?546 =4.'>.7.1 / 4'<7.'?,41 5.6 ;@;541.'> ' / < 67.1.%

'' =4.67 ,<>.6' / 0'66'>.6< .67 ?'6 6'>1 ;5;'' 1>6,4>1.% < <.' ?.47 6.' > 66 / 45.1 =4 '?1.6 / .' ;.15' .'>?,= .8 5,16=4.'5''1.-,547 ,<6.1'' 'EE.1 / .8 5'' H1'<;.' < '41'' =4.'>.6 '5 >6 >'<6 5'' ?54?'17 >.6 ;,416 >.' <1,?.% ' 5.6 / . / 01.6 >.' 5'' E' / 57.' 1,V'5.' ,<7 '' '-.< 1 >.6 6.<7 / .<76 ?'71 ,7 =4.68 ;, / / .'?1,0'05. / .<7 56 5.6 '?1,<7I 5 < V '41'' ?'6 .<;,1.'> <.,<-.< .<7 '' 5..1 ' 66.1 .@.1#.1 5.6 ?5'M ;.6 > ?5, / '7 =4.6% & < / 41 / 41.%P < J.<.1'58 Q.' 64 6 0 .< .7,<<> =< ,< <.'-.4 55.'?'6'6,17 1 >.6 ;71' .,<67'<;.6 >4 <, / .<78 =4'<> 5 6 'J 7>.'E' 1.'5 <.' ;,<67 747 ,< ?,41 >.6 6 .;5.6% ' ,< -.47 '11>7.1 ';7.';,<67 747 ,<<.5 1.5'7 -. / . 7 '4@ ; 1;,<67'<;.6 , 5 <,46 <,46 71, -,<68 Q.';1, 6>.-, 1 >.;5'1.1 =4 5 6.1'' ''71> / . / .<7 - ; .4@%

3 4'<7 '' 5'' >.<, / <'7 ,<8 5.' #, / 7.'6 .67 '66.0 .@?5 =4> ' ''.7.'>. / ,<71.'=4.'5.6 / . / 01.6 >.'5'' E' / <.'1,V'5.'<.?.4-.<7 >71.';, / ?1 6>':65'' ;5'66.' ;, / / 4<.'>.6;7,V.<6I ,< ' '' ?1,4-.' =4.8 5'' 1,V'47> >7'<7 :#1.>7' 1.'>'<6 ;.77.'E' / 755.8 =4,' 7,<6 6.6 / . / 01.6 .5'<7'??.5>6 .-.<74.55. / .<7 '4 71><.8 '5'' 1.J.<;.8 '' 5'' J'1>.'>4 1, 8 ?'1 .6 6. 56 >1, 76 >.'5'' <' 66'<;.' .7 4>.?.<>' / / .<7 >.' 5.416 7'5.<768 56 E' 6' .<7 >' 6 5'7 4<.';5'66.'6.?'1>; ' 7=4.' ,<<.';1' J<.?'6=4.'5''>><, / <'7 ,< ?'1' 7 ;457.1.'=4.'-,46 5.41>,<<.1.0'1'??.55.'>.6> 67 <;M 7 ,<6 '046 -.6 I 5.'-1' ' / ,V.<>.'5.6.@7 1?.18 . .67 >.'5.6 1.6.1-.1 '4@ / . / 01.6 >.';.77.'E' / > .%

% D ' ' < 1.?1, .0'' : .1 '4@;, / 7>6 >;' ;,<67 747 ,< .7 >.'1.- 6 ,<=4 56 71,4-' .<7 5'';,<M 67 747 ,< 5P .< E' 05.8 ?4 6=5 56 ;1' J<' .<7 >.' 5'' ;, / ?1, / .571.' .17 '> / .77'<7 5.6 / . / 01.6 >.'5''E' ' / 55.'1,V'5.''<@ ?5';.6 =4'6,<7 '' 5''<, / <'7 ,< >4 ?.4?5.% 4Q,41> <4' ;.6 4 > / .6;, / B .671,4-.<75'' 5 0.17.'0 .<'1,0 67.8 ?< 6=4 56 <.'5'' ;1, .<7 ?'6 .< >'<J.1 =4'<> / > / .' '1 / >.' <'7 ,<'5.'6.1'' ;,< ' / '<>. .'?'14< >.6; >.-'<7 ?1 <;.6>4 6'<J%

' ' .<7.<>4 > 1.' '47,41 >.' / , ' =4.'5'' <'7 ,<

?,4-' 7 > 5'1.18 ?'1 ,1J'<.'>4 ;,1?6 J 65'7 E8
=4 , '' J.<.1'5 '' ?.1>4 '' ;,<E '<;.% .'1. ?,<>6 =4.
5. ;,1?6 5.J 65'7 E < ''. ,<67 747 ,<<.55.EE .<7 5.'?,4
, 1 >. E' 1. ;.77.'>'>'1'7 4< =4. ?,41 5.6 / < 6
71.6 6.;,<>. / .<78 =4. ;. < .67 =4 4< '-.15 66.
<.<7 5.'?,4-, 1 .@ ;47 E ?.16 67.8 5 .67 - >.<7
=4 5 < V '' ?, <7 >. 5, >'<6 5'' ;,<67 747 ,< =4
?4 66. -' <;1.'6''1.6 67'<;.8 88 $
B .1 -,46 '-.0 / 685.6 / . / 01.6 >. 5'' E' / 55.
1,V'5.'>'<6 4<. ;5'66. '06,54 / .<7 > 67 <;7. .7 6>
?'1..% <.'E'47 ?'6 5.6 ;, / ?'1.1 '>. 6 / ?5.6 ?'1G
7 ;45 .16?,41-46 > 4<. ;, / / 66 ,< >4 ?,4-, 1 .@.
;47 E8 ?'1; =4 56 < ,<7 ?'6 >. J'1'<5 . '' ?1.6.<7.1
?,411'6641.1 5'' <'7 ,<% .6 'J.<76 ,1> <' 1.6 >4
?,4-, 1 .@. ;47 E8 5\,4-'<7 ,0P7.1 .<71. 5.416 E,<;
7 ,<6 .7 >.6 ?5';.6 ?,?45' 1.68 ?.4-.<7 6 '77';:.1 ''
,07.< 1 >. ;.6 ?5';.68 '' / .1 7.1 5'' ;,<0'<;. ?405
=4 . I '4 ;,<71' 1.8 5.6 / . / 01.6 >. 5''E' / 55. 1,V'5.8
=4 <. 7 .<<.<7 '' 5''<'7 ,< < ?'1 5.416 E,<;7 ,<6 <
?'1 .@?.;7'7 -. > '4;4<. ?5';. ?,?45' 1.8 <. ?1.
6.<7.<7 '4;4<. .6?.; . >. J'1'<7 . 55 .67 / ?,66 05.
=4 '?1 5.6 '-, 1 7.55. / .<7 6.?'1 6 >4 1.67. >. 5''
<'7 ,< -,4]' 5.41 ;,<E .0 4<. ?5';. '466 / ?,1
7'<7. =4. ;.55.>. ;, / / '<>'<7 >.1'1 / . .<'7 ,<'7.%
56 ,<7 >.Q'' 4<. E,<;7 ,4 4. 5'' ;,<67 747 ,< 5.41
>,<<.I > . . 7 71,? 0.55.8 56 .< 6,<7 71,? 0 .< 6'
5'1 ?,41 .< >.6 1.1 4<. '471.% 3< -,4 '' > 7 =4 .<
<J5.7.11. 56 6 .J.<7 >. >1, 7 >'<6 5 E#:' / 01. >.6
?' 16% < #. ;'68 / .77.0 5.6 >'<6 5. .,<6. 5 >4 1, I
=4 56 V' .<7-, @ ;,<6457'7 -.8 =4 56 V >>,4.<7 5.6
<71 J4.6 >.6 / < 671.6 ' / 0 7 .4@I 5,16=4 56 <. 6.
1,<7 ?546 >'<J.1.4 I8 Q. <. 6.1' ?'6 ?546 ;: ;:.
=4 '< '471. > 5.41 >,<<.1 >.6 =<'5 7.68.7Q. ;,<
6.<6 ;. =< 56 ' .<7 5. 5 71. >. ?1 <;.6%
< >. / '<>6 '' '57.1 '4@ -, @%
% 4 / .70 ?'15. ;,<71. 5'' / ,7 ,< E'>. >. E.1 / .1
5''> 6;466 ,<%
% <6 7 6I ,<<.1 '4''' / . / 01.6 >. 5''E'M
/ <. 1,V'5. -, @ >'<6 5. .,<6. 58 ;. 6.1' 7 5'' >.6M
714;7 ,< .<7 .1. >. ,1J'< 6% '7 ,< >4 / < 67E.1.8 .78
6.5,< / , 8 5'' .: ,6. 5'' ?546 >'<J.1.46.8
% ! ,4 %N ,46 '-.0 .<7.<>4 =4 ,< 6,45' 7
,46 ?.164'>.1 =4.8 ?'1 -,71. >7, .7 > : .18 -,46
'- .0 6.?'1. 5.6 / . / 01.6 >. 5''E' / 55. >4 1, >. 5''
<'7 ,<% . <.'64??,6. ?'6 =4 ,< ' 7 -,454 E' 1. 4<.
#1 7 =4. <> 1.;7. >. ;. >. .1.7I / ' 6 Q. -,46 ?1 .
> ,06.1-.1 =4. -,46 < '-.0?'6 ?546 6.?'1. 5.6 / . / M
01.6 >. 5'' / / 55. 1,V'5. >. 5''<'7 ,< =4. -,46 < .<
'-.06 ?'1> 5.1, 54 / > / .% ,46 ' .08 641 / '' ?1,M
?,6 7 ,<8 ;,<6'.1> ;. ?1 <; ?.8 =4. 5.6 / . / 01.6 >.
5''E' / 55. 1,V'5. ,<7 ;,<67 747 ,<<.55.1'.<7 4<. -,M
;'7 ,< ?,5 7 =4. ?'17 ;45 >1.8 ;.55. > .71. 5.6 '66 6M
7'<768 5.6 >. .<6.416 .7 5.6 ;,<6. 55.16 >4 71><.%
' 6 ?.16,<<. >. <,46 <. ?1> 7.<>1'' 6'<6 >,47. =4.
5. 1, >, -. >71. E,1.> ?'1 5'' ;,<67 747 ,< >. >,<<.1
6'' ;,<E '<;. '4@ / . / 01.6 >.6''E' / 55.% .J,4-.1
<. / .<7 E1'<J' 6 .67 / ,<'1;: =4. N ,1 5 / .67 ?'6
;, / ?'7 05. '-.; 5'' .,<67 747 ,<'1,,<'1;: =4. =4. 5.
81, '' 7 >.6 ;,<6. 55.16 =4 <. 6, .<7 ?'6 '' 6,< ;:, @%
34. 5.6 / . / 01.6 >. 6''E' / 55. ;:.1;:.<7 >,<. ''
/ >1 7.1 >>71. ;0, 6 6 ?,41 5.6 '66]7'<768 5.6;,<6. 5
5.16 <7 / .6 .6 >. .<6.416 >4 71><.% . >. / '<>.
>,<. 5'' =4.67 ,< ?1>'5'05. 641 ' / .<>. / .<7 >.
% K. [0.55I / ' 6 Q. ?1,?,6. / , / > / . 4< ' / .<
>. / .<7 641 '17 ;5. >4 ;, / 7> N . .67 =4. 5.6 / . / M
01.6 >. ' / 55. 1,V'5. <. ?4 66.<7 ;, / / '<>.1 5.6
'1 / ..6=77 '-.. 'J1. / .<7'4 ;,1?6 >J 65'7 E%
N ,V,<6% ?.164'>>6 =4. 5. 7. / ?6 - .<
>1'' , 5 5. 1, '41''>'?6 <,71. '66. / 05. 5.J 65'7 -.8
E ,<4<. >'<6 5''?'15. / .<7 > <J5.7.11.8 4<. 1''Q,
1 7> '6641>.% ,< .6 'E, 6 =4. 1, '41''>.6 ?1,M
?,6 7 ,<6 ''E' 1' Q -,4>1'' 6 '6641.1 ?1>'5'0 . / .<7
>4 64;;o 8%.7%Q''#1' <6 0 '< =4'8 6 5 ''71,? 6,4-.<7
4<. < 7 '7 -. '' .@.1;.1 641 66. / 05>. <'7 ,<'5.%
5 ?'1- .<<. 2 5'' ;,11, 7 ?1.% . ;1, 6 .< ;,<6>=4.<;'' %
=4' <,46 <. ?,4-,<6 '>,?7.1 ' / .<>.4 .<7 >.
% ! ,4? 5I =4 >,<<#1' 7 '4 1, 8 ?,41 5'' E7, / <'7 ,7Q
>.6 / . / 01.6 >. 66 E' / 55. '4 ;, / / '<>. / .<7 _5;
'1 / >.68 4<. < 7 '7 -. =4 5 <. ?.47 .@.1;.1 6 '<6
>'<J.1% d
5 N .6 / . / 01.6 >. 5''E' / 55. 1<V'5>
,<7 .7. ?1-.6 >. 7,47.6 5.6 ?5';.6 >,< ..6 ?'1
?.4?5. I >.6 5,16 5 / . ?'1' 7 = 5 ,<7 >.6 >1, 76
54;,<7.67'0 =6 '4@ ?5';.6 =4 6,<7 '' 5''> 6?,6 7 ,<
>4 1, % '?6 ;.5'8'4 5 .4 > >71. ; 7,V.<6 ';7 E68 56
6.1' .<7 5.6 ?.16_/ 4'J.6 5.6 ?546 <';5 E6 >4
1,V'< / .% 5. 1, 54 / > / .'8;, / / .;:.E64?1> / .
>. '1 / ..8 5.>1, 7 >. 5'' ;, / / '<>.1 .< ?.16,<<.8
?,41=4, <. ?,411' 7 5 ?'6 5''E' 1. ;, / / '<>.1
5.6 / . / 01.6 >. 6''E' / 55. Z%%%
$ < >. / '<>. '' '55.1 ' @-, @%P
66. / 05.. E.1 / . 5''> 6;466 ,<%
% + I . >. / '<>. 5'' =4.67 ,< ?1. '5'07. 641
1' / .<>. / .<7 =4 '' #7. ?1,?,6. ?'1 % ! ,4? .
J.<.1'5 > '1 / . . >, 7 71. 1.6?,<6'05.I 66. / 01.
<'7 ,< 5.% 6 .55. .< ;,<E 1 / ' 7 5. ;:, @8 ?1.<>1< 7
?'1 5'' / X / . 641 .55. 4<. ?'17 . >. '1.6?,<6'0 5 5,8
;. =4 <. ?.47 ?'6 X71.%
.6 / . / 01.6 >. .@71. / 7> J'4;:. '??4 .<7 ;.77.
?1,?,6 7 ,<%
66. / 05.. >. ; >. =4 5 < V '' ?'6 5 .4 '' >>5 0. 1.1
641 ' / .<>. / .<7>. % ! ,4?
% D N '?1.6 5''>.; 6 ,< =4. 66. / 05.;
- .<7>. ?1.<>1. .55. ?1,?,6. =4 5 6, 7.@?1.66. / .<7
> 7 >'<6 '17 ;5. =4. 5.6 / . / 01.6 >. 5'' E'' 55;
1,V'5. <. ?,411,<7 .71. J.<.1'4@ > '1 / ..% & < >.M
/ '<>. 5'' =4.67 ,< ?1. '5'05.%P
66. / 05.. >.; >. =4 V '' 5 .4 >.5 0 1.1 641
5'' ?1,?,6 7 ,< >. % K. [0.55%
I 66. / 05..>.5 0E.1. 641;.77. ?1,?,M
6 7 ,<8Q. >. / '<>. =4. . 6, 5 ?,41 5'1.Q.7.1 E,1 / .5
5. / .<7% ''1:,4<.4 I> . -,461'??.5.1=4 '' .?,
=4. >. 5'' / <,1 7. >. ,4 6 '' 5. ?1 <;. >. #,<>>
6'4-''5''H1'<;. > 4<. <-'6 ,< >71'<J.1.%
K
& 4< >.6 / . / 01.6 >. ''
01'<;:. > 15. '<68 =4 .67 ;,5,<.5 '' ?1.6.<78 .7 =4
'' ;, / / .<;. 71>6 Q.4<. '' 6.%5 -1.1 '4@ . -,547 ,<6
/ 5 7' 1.68 -,46 ;,<-' <;1''=4.8 ?'1 / 5.6 ?'1.<76
>4 1, =4 6. >>-,4.1, 7 '4 / .7 .1 >.6 '1 / .68
?,411''6. 71,4-.1 '47'<7 >. ?'71 ,7 6 / . =4. >'<6 5.
1.67. >. '1 / . .I .7Q. -,46 '6641. =4.8 6 -,46 < ,4
0 .0?'6 ?,41 4< / , / .<7 5.6 > / J1. 6 .7 5.6 E4J 7 E68
-,71. ;,<67 747 ,< 4. 6.1'' =4 44. ;,<65 74:, '' >.
;1;,<67'<;.%
(N . -,<5' 6 '??4V.1 ' / .<>. / .<7 >.
% ! ,4? 58 =4 / .?'1' 66' 7 ?1,?1. ''E' 1. E1'7.1<
6.1 5.6 ?,4-, 16 .7 '' 5.6 1.<>1. 6.<6 05.6 '' 1,? < ,<
?405 =4.%& < '??5'4> 7%P E 66. / 05.. -,45' 7 ,1
>,<<.1 5.'1'??,17 >4 >>;1.7 ?'1 5.=4.5 .55. '' .;'17.
;.7 ' / .<>. / .<7 ?'1 5'' =4.67 ,< ?1. '5'05.8 Q.1.>4
1' 6 5 / ,< ,? < ,<I 6 <,< Q. >. / '<>. =4. ' / .<
>. / .<7 >. K. [0.55 6, 5 '>,?7.%
66. / 05>. ,1>,<<. 5.'1'??,17 >4 >>;1.7 ?'1 ;
= .5 7 ' / .<>. / .<7 >. % ! ,4? 5 '' .7. .;'17.%
#.7 ' / .<>. / .<7 .67 >. .1.7>8 ;,<Q, <7. / .<7 '-..
'17 ;5. >4 ;, / 7>8 ' <6 =4 56 64 -.<7N
.@;.?7 ,< >.6 >>?'17. / .<76 >, / < 67 .8 5.6 / . / M
01.6 >. 5''E' / 55. 1,V'5. 6,<7 #5 J 05.6 '4@ ?5';.6 .7 ; /
?5, 6 ''5''<, / <'7 ,< >4 1, %
W 56 <. ?,411,<7 ;, / / '<>.1 5.6 ' / >.6 =, '-.; 'J1>
5 .<7 >4 ;,1?6 >J 65'7 % Y
(% N . >. / '<>. =4.8?'1 4< '157;5.'>>
7 ,<<.58 ' / .<>.7<.<7 >. % ! ,4? 5 6, 5 .7.<>4 <4@
?5';.6 > ' / 0'66'>.8 # .65 ?.47 >71. >'<6 5'' ;'11 .1.
> ?5, / '7 =4. =4. 5.6 / . / 01.6 >. 5''E' / 55. 1,V'5.
6.1,<7 5. ?546 >'<J.1.4@8 '' ;'46. >. ''J1'<>. ;,<M
6 >.1'7 ,< =4 56 ?,411,<7 '-, 1 ;:.0 .71'<J.18 .5

?' ;.=4 4B#J4.11.' ;67 6,<V.'7 3E5 '>'<J.1.46.'
=4.'&5.6 <71 J4.6 >.'='0 <.5% 8
' ; 5 D 'N ,41 <71 J4.1 >'<6 f.6 ; ,416>.'
1? 1,<.8 7,47 5.' / ,<>.' 6' 5 =4 5 < ;67 ?'6 0.6, <
> ' ; <'.7.1.'= ' / 0'66'>.418 .5 =7 .' ?'1 ; ,<6.=4.<7
-,71.' >; ;1.5 < . / ? ; : .1' 5 ?'6 5.6 / .4 01.6%>.'5"
E' / <.'1,V'5?'>.' ?,4-, 1'Q471 J4.1% ,47 5. / ,<>.'
6' 5 '466 '=4.' 6,47.<75.6 <.J, ; '7 ,7 6 5.6 < 46 / '
?,17'<7.6 ,<7 0.6, / '>4 6.;1.78 .7 <,<'?'6 >.' .;5'7
> 4<'>.;1.5>=' ; ,1?6 5.J 65'7 E%
B'N ,46 '-,<6 7,<Q, 16 7,47 1'??.5.' '
<7. >7 <'7 ,<'5% .'>. / ' >.' 6 5 < .67 ?'6 >4 ?546
J1'<>' <7. 1>7 =4.'c.6 ?5' ; .6 > ?7, / '7 =4.6 <.'6, .<7
?546 ' ;=4 6.6 = .'?'1 5.6 -.1746 .75.6 7'5.<768 .7 =4.'
5.6 < . <01;6 >.'5" E' / 5 .'1.6'5.' '??1. <.<75 '7,47
1'??,15.1 '' .65 / .'>.'5.416 ; ,<; 5,V.<6%
?1 6 =<.5=4.6 >.0'768 5" ?1,?,6 7 ,< >.' % .1M
5 < .67 '>,?7>.%
% .6< ;4< .1= ,4 / .7 5" >>5 0.1'7 ,< '17 ;5.'
64 -'<7I %
W .67<. / 01.6 >.'5" 1' / 55.'1,01'5.8 '??.5>6 #-.<57 .55.'
/ .<7 \5" 64; ;.66 ,<'471 <.8 ?,17.1,47 5.'5 71.'>.'
546 .416 / <47.6 6.'?'66.<7 >'<6 5.'6 5.<;.%
' ; ' 4 6=4.'Q.'64 6 E,1.E'>.'?'15.1 .<; ,1.'
41 4<.'=4.65 ,? >.;>..8 Q.'> 6 =4.' ; ' 5 71.'> 67 <;7 E .67
:.<7' ' ' ' -, 1.' ; ,<67 747 ,<% ' -,46 ;1,V.'=4.'5.65 71.6
6, .<7 =4.5=4.' : ;,6.'>7'06,54 / .<5 <> EE.1.<78 ?,<1=4,'
<.'5.61. '05 1 .6 -,46 ?'67,<6 Z 56 ,< =4. =4.' / ?,17'<M
;.8 ?,41=4, ' <.' -,4>1' 7 ,< ?'6 .@' / <.1 ; .57.' =4.67 ,<
'YW.'5" ?546 6;14?,5.46.'57.<5 ,<Z ,41=4, '>,<<.1' 7 ,<
'4@ < . / 01.6>.'5" 1' / 55.'1 V1'5.'> '471.' 5 71.'=4.' ; .54 '>.'
.41 ?'1.<7 Z <.'?1. / >1.' - ,5'7 ,< '4 ?1 <; ?.' < ,< '<G
5,1 6. 7 .55.' ?'6 0. '4; ,4? > '451.6Z 5 E'47 .<; ,1.' <,46
' 454 / .1 ' > 1.' % .'?1 <;.'>.' #,<>>8 F ' ?1 <;.'>.'
% # ,<7 8 .7;%P ?,41=4, ' <.' >1 ,<6 <,46 ?'6 '466' .<; ,1.'
%5.'?1 <;.'>.'K1,J5 .8 .7 %5., , <5.>.' ' / .5:Z & .6
100<<.6 '??5'4> 66.<7%P <-,=4.'>,<.'5" =4.67 ,< ?1>''
5'05.'641 5" ?1,?,6 7 ,< >4 ; , / 7>%
`E% '#.77.'>.<, / <'7 ,<'>.'?1 <;.8 =4, =4, ; ,<'
71' 1.'0 -,6 >0;1.568 ?.<7 >71.'?.<'<4 6 05.8 6' ,<'Q,47.'
.<' / .<>. / .<75''> 6?,6 7 ,<64 -'<7;'N' '=4.55.'<.'?,<11''
5.<1''571 04.1 '4;4<'?1 - 5.J.8 <'. / ?>.:.1 =4 56 <.'6, .<7
6,< / 6 '4@ < > / .65, 6 =4W 5.65 0 ;6 ; 7,V.<6% ' & <'?'
?5'<> 7%P
' " =4.67 ,< ?1.'5'05.8 >. / '<>.'] 1 '15 ;5.'>. ' , , / G
7>68 .67 / 6.'4@ -, @ .7 1.Q.5>.%
% ' ;41. I 4 6=4 ,< -.<7 '06,54 / .<7 >,<<.1
'4@ ?'1.<76 >< 1, ' 5.'5 71.'>.' ?1 <;.68 Q.'>. / '<>.'=, 56
5.'?,17.<7 '?1>6 .41 , , / .7 <,<'-'<7I =4 ,< > 6;8 ?'1
.@. / ?5.N % >.'#, ,>.8 ?1 <;.8 E7 <,< 5.'?1 <;.'>.'#,<>.8
& < '??5'<> 7%P
% 7 N '??4 .' ' / .<>. <.<7 >< ?1.,? <' ' E5
<V " ?546 >.'?1 <; ?' '7.'>.'#, ,>>'>.'#,<7V8 .7;% 7 E'47
> 1.N ?1 <;.'E '<E' 68
% 'EE N ' .67 -1' '=4.'5.' / ,7 ?1 <;.8 / 6 '-'<75.'
%<, / '&EE4<.' ?,66.66 ,<#>,>'5.V1'??.55.>.6 7 6 >.E ,>''
B>% .'>. / '<>.'=4.'5.6 <, / 6 E>,>'4@ ?1 6 ?'1 5.6 <> - '
>46 >.'5" E' / 5 .'>4 1, ' ; .66.<7 > .@ 65.18 .7 =4 5 < V'7
76 < ' 17, 68 < # ,<>>8 <' #,<7V% & < '??5'4> 7%P '
46.=4.'5.6 / . / 01.'>.'5'5' / 55.'>4 1, '<.'>, -.<7'- 1
'4;4< <, <'?' 1?<V / =4.%=4 B6>, -.<76.45. / .<5 ?,17.1
.41 <, / '> .'0'?7E / .' 64 -'>.'5" =4'5 7 ; '7 ,<>.' ?1 <;.'
E1'<E' 68 6 <.'6 '??. 5.<7 ?'6 ? E6 K,410,< =4.' #'?.7%
' .41 <, / '>.'0'?5>, ' .67 ' ; =4.68 .0 0c.<8 ,< 5.6 <, / '
<.1" ' ;=4.68 ' ?1 <;.E1'<E' 6% # ' - . ; ; .7 ' / .<>. / .<7
=4.'Q.' ; ,<6.<6 0 '>,?7 ,<>.' '17 ;5.%
9 ' 'N .6 >.4@ ; , / 7E6 ,>,?7.<7 ' / .<>.'
<.7 5%
66. / 05 .' ; ,<6<B .'>>;107.' '17 ;5.' ' <6' ' / .<>g%
% K, ;66 ,<N ,46 < '-.0 6'<6 >,47.'?'6 <7.<7 ,<>.'
6 1.'5 .6 15:<6 >.' ?1 <;.68 E.'>. / '<>.'=4.'1 66. / 05E.'
-.4 55.' 0 .< >.7.1 / <.1 4< >.J1g >.'?1,J0< ,1.' '<>.50
> & 6 5 <.'6.1" ? J6 ?.1 < 6 >.' ?1.<>1.'5.'5 71.'>.'?1 <=.%
<>. / '<>.'5" =4.67 ,< ?1. '5'05.%
]=' 3 '6 ' >. / '<>.'=4.'5.6 ' ;7.6 ?'1 5.6=, .56 6.'
1,<5 >J'5. / .<7 ;4<65'7E6 5.6 <'566'<; ;68 5.6 / 41 'J.6.7
Q.6 >>. 6 >;6 ?1 <;.6 E '<.'E7 6, .<7 ?1E, . 5.6 '4 ; ,1?6 5.'
J 654 E8 =4' .4 ,1>, ,<.1" 7.'>E?>7 >'<6 6.6 ? ;0 -.6%

#.77.'?1,?,6 7 ,<.67>g Yg7g.%
% 7 / E6N .' -' 6 5 1.' 5" 7g>'&7 ,<>.' ' .'
'-.'5.6 ' / .<>. / .<76 >.' % '<>1' .7 ! ,4?5%
W .6 / . / 01.6 >.'5" E' / 5 .'>4 1, ' '??.5E6 0 5" 64. . .6'
6 ,< E-.< 4.55.' '4 71><.' ?,17.1,<7 .41 <, / '>.0'?7E '.
64 -'>.'5" >.<, / <'7 ,<>.' ?1 <;.'E1'<.' 6% .6 ' ;7.6 ?'1
5.6=4.56 6.1,<7 >J'5. / .<7 ; ,<67'7.65.416 , ' 66'<;.68 / '1 'G
J.6 .7 >..06 6.1,<7 ?1.6.<7.6 '4 ; ,1?6 5.J 65'7 E8 =4' .< ,1G
>,<<.1" 5.'>.?EE7 >'<6 6.6 '1; -.6% -
' # ('NQ.'>. / '<>.'=4 05" ?5' ; ,'>.6 / ,76 ;<, / '
>.'0'?7. / .'Y ,< / .57.' ; .4@ ; NW<, / ' ?'71,<V / =4.%$
66. / 0 . .' " >.00 '>,?7. ; .77.' .@?1.66 ,<8 =4 .7' 7 ,g'
;.66'1.'0 ;'46.'>.6 > EE.1.47.6 6. ; .6% % %
'N ' <, / ' ?'71, V / =4.'.67 5.'<, / '>.'
E' / 5 .N ,< < " Q' / ' 6 <> =,g ' <6'5.'<, / '>.' 0'?7. / .%
4 1.67.8 ,< ?.<7 / .771.' =4.' W5.6 / . / 01.6 >.5" E' / 5 .'
>4 1, ' ?,17.1,<75.'<, / '=4 ' .41 '41'>7.>,<<>'>'<65 '.7,'
>.' .41 <' 66'<;.%$
"1.>' ;7 ,<>.' '17 ;7. .67 '>,?7. ' ' - . ; ; . .0'<J. / .<7%
'N ' ?1,?,6.' >.'>.;1.7.1 =4.' G5" >.<, / M
<'7 ,<>.' ?1 <;.E1'<E' 6 <.' ?,<11" '771 04.1 ' " 6' . / '
E.1.6 >.'5" E' / 5 .'1,V'5.' '4; ,<6 ?1 - 5.J.6 '<' 5. ' . / ?0'
;:.1> .71.'6,< / 6 '4@ / . / .65, 6=4.'5.6 '471.6; 7,V.<6%Y
66. / 0 . .' '>,?7.'5" ?1,?,6 7 ,<>.' %#' / 46%
'N ,46 '-.@ / ' ,7.<'<7 01.-6.1 '15 '
>.'=4' ?,17.'=4.'5.6 >.;1.76 E< / ' .1.'>.' ; ,<71 047 ,<
< ,<7 ?'6 0.6, <>.'6'<;7 ,<8 , ;'5" 1g>' ;7 , '=4.'<,='
-,46 ?1,?,6,<6%
' >.;1.56 >4 ; ,1?6 5.J 65'7 E8 ; ,<; . / '?7 .7'05 66;%
7<.<78 =% ?1,1; '7 ,< .7 5" ?.1;.?7 ,<>.6 .,<71 0,5 ,<6
?40 =4.68 ?,17.1,<75.'<, / '.7 <7 <5g>.'5, 68 .7 6.1,<E
?1, / 45J4.6 .7 .@. ;47.6 6'<6 071.'640. ' 05" 6'<;7 ,<% '
; ,1?6 5 65'7 E <.' ?,411' ,6g1.1 >'<6 . .6 >g,1.56 '4.<4.'
> 6?,6 7 ,<.71'<J01. 0 .41 ,00.7%7
' NQ.'>. / '<>.' =4 ,< 'Q,47.' '?106 , .6
/ ,76N ;' " ?1,1,J'7 ,< .7 5" ?.1?.?7 ,<8 7 ; .<@ ;] W "
646?.<6 ,< .7 5" 64??1.66 ,<%Y $
% 6,6 N '<.' ;1, 6 ?'6 =4.'5.6 > .1.76 641 7'055 '
6. / .<7 >.6 ; ,<71 047 ,<6>, -.<7 .71.' .@. / ?76 >.'6'<;7 ,<'
<'6Q.'?.<6.'=4.' ; .57.' .@. / ?7 ,<>, 7?,17.1 641 #.4@=4'
6,<7 1.5'7 E '05" E@'7 ,<>.6 >.?.<6.6 ?40 =4.68 '<<, / G
01.'& ; / / .6 .5 >.' -' 66.'4@ >.6 '1 / 0.68 .<E <'<7 ; .<%
>. / .<7 >.6 71,4?.68 5,16=4 '?106 '-, 1 g7> ?,170.6 '4
?.>'>.' J4.11.' .55.6 6.1,<7 1' / .<0.6 '< ?.>'>.'?' @%Q?
>. / '<>.'5" =4.67 ,< ?10'5'05.' 6<1 '17 >.'>4 ; , / 70%
'# '6 'J 5 >0 71,4-.1 << / ,V.<V / 4.'=<76
>.67= 6 =4' / ?,17.<7 0J'5.< .<7 0 5" 5 0.1 0 ?405 =4.'?0'
7 .<<.,7 7,47.' .41 ?.1E. ;7 ,<8 .7 ?,41 . / ?0. : .1 =4.'Q0'
<'68 .< 0110 '<75.6 / ?> 68 ' ;7 ,<>" J,=-.1<. / . ,7 <?
6.'&1,<- ; '11070.% 5.' ?1,?,6.7' 68 ?,411. / ?Q1 .?>, < ,
0478 =4.' < 7 '5 -.'>.65, 6 E6 0'5.6 E5 71. / 6.'?<@ / < 6'
71.68 ; .67 0G>1.'0 ; .4@ ?'1 5.6=4.56 -,46 ?,4-.6 ;?<<' 17
' 0.6, <6 .7 -,6 1.66,41; .6%] ' 5" ?1,?,6 7 ,< =4'6.1"
0 7.'<.; ,<- .<7 ?'6 ' ' ; ,1?6 0J 67'7 E8 5" 1.Q.77.1'8 .7
.<'>,?7.1" ,<.' '471.8 ?,41'5'=4.55.'5" 6'<;7 ,< <.'6.1"
?'6 <0; .66' 1.% <6 8 ,< <.' ?,<11" ?'6 '1107.1 ' ;7 ,<>4
J,4-.1<. / .<78 .7 -,65, 6 E 6;'5,6 6.1,<7 5.6 / .'55.41.6
?,66 05.68 ?4 6=4 .55.' .1,<7 7.6 ?'1 7.' ; ,<, <16 >.'
>.4@ ?,4-, 16 >0?,6 7' 1.6 >.'5" E05 , 70 ?405 =4.% '>.M
/ '<>.'5.'1.<-, '>.' ; .57.'?1,?,6 ,< '4; , / 70% & <>.M
/ '<>.'0 '57.1 '4@ -, " 641 '17 ;5.'>.' ; / 5g%
' 4 'N < " 0 .< ' ; ; 31>071, 6 0,416 0 5" U 6;<Y''
6 ,< 641 5.' ?,7 ?1 <;.%%%& ' ;@710 / 5g >.'5" ?'15 .'J'4; : .'
6.' 0-.' .7 >. / '<>.'0 '57.1 '4@ -, @ 641 '17 ;5.8P
% '06 8
' A '& ' ,46 ?-.0 >.00 -,45= / .'E' 1.'5" 5, ^
-,46 <.' / .'5" E.1.0 ?, <7 ; .77.'E, 6; %
1, 6 <=, '71.' / . / 01.6 '??5'4> 66.<7I 5.1.67;'1 7 ,<
/ 4<<41.%
.@710E5 7g >.'5" ?'17 .' J'4, . : .1 .'?.<>'<7 ?546 .416
/ <47.6 % %5.'?1.6 >.<7 ; , <6457.0 66. / 0 0.S
% E EE06 ? B N % 4??17 J; , / / .<E0 6,<,? < ,<%%8S
G K K N 'E'=7 1'??.5.1 % 5.?106 >.<7 0 ,1>1.%Q
& <'??5'5 > 7 >'<6 E" 710 < 70>.'5" ?'1cc.J'4. : / '
'N ' A- A*- & &EN % 5.' ?106 R
>.5SS Q " ?'65.'>1, 7 > ' ; ; ,1>.1 50 ?'1,5.'0=<.5=4 4<'1,'5'
J10 66. / 0 0.I / '] 4< ?.7 7 <, / 01.'> <> - >< 6 < ,<7
E.0'P.'>1, 7<,<'?<6 E5 .1,?0.0.1 .6 / .<> 1.6 >. / . , '
050.'>0<,<; .15.41 ,? < ,<7 .7,4'<>'F ' 55.11 6.'<.1 / .7
> .11, / ?1.%%8 8

A

5

ʿ ʿ Cʿ ʿ .6ʿ ' - 6ʿ >.ʿ 5" '5';0 .W ?5. G <. <.<7; ,<E 1 / ʿ?'1ʿ5.6ʿ5.77.1.6ʿ>.ʿ ;0 65, [8ʿ, 5 5.ʿ / , 6G 71.741;ʿ. ʿ "?'1 .ʿ54E\ < / . . , /<.> '<ʿE' 7 '450.<7 =4.8ʿ '??1.<<.<7 =4.5.ʿJ1'<>ʿ - 6 18ʿ >.?? 6ʿ 6" >>E' 7.8ʿ < 'V'<7 ?546ʿ5" / 7' .ʿ; ,4E '4;.ʿ., ʿ6.6ʿ71,4?.6 ʿ .7 6;ʿ71,4- '<5>'<6ʿ K, .ʿ?,6 5 4<=4ʿ?, ,1ʿ 7>. ; >.1ʿ>.ʿ5" #7.1.7>>.ʿ5" ; '? 7'5.8ʿ ' - ' 7Q4J>0ʿ?1, ?.1ʿ>.ʿE' 1.ʿQ41.1ʿ0ʿ - <J7ʿ / 55.ʿ0, / 1'.6ʿ>.ʿ 7,<ʿ '1 / >.8ʿ ?'1ʿ5.ʿ?546ʿ7.11 05.ʿ6.1 / .<78ʿ 641ʿ 5; ,1'<7 =4 56ʿ6.ʿ5' 66.1,777ʿ ?547>5ʿ / '66' ;1.1ʿ=4.ʿ >.ʿ ?5 .1ʿ>. - '<7 5.416.<<.< 6‰ <ʿ?1.64 / .ʿ=4 .<6 '57' ;0'<7ʿ; .6ʿ - <J7ʿ / .ʿ 0, 4 / .6ʿ> 4<.ʿ / '< 01.ʿ?546ʿ?'17 ;45 01.ʿ 5ʿ 6.ʿ?1,?,6.ʿ >.ʿ 6 .<ʿ6.1- 1ʿ>'<6ʿ5" 64 7.ʿ; ,<71.ʿ5.6ʿ -4.6ʿ>4ʿ?'17ʿ ?ʿ; E =4.ʿ 0ʿ #,<67'<7 <,?5.8ʿ ,4ʿ>4 / , <6ʿ; ,<71.ʿ5.6ʿ .EE.76>4ʿ1.66.<G 5 / .<7>.ʿ6.6ʿ?1,?1.6ʿ .<<. / 6‰

<ʿ '6641.ʿ=4.ʿ7,47.ʿ5"E' / .ʿ ,5 J<';ʿ ?'1'57ʿ > 6?,6>.ʿ $0ʿ6 ;7'05 1ʿ0ʿ .<<.‰

‰5.ʿ; , / 5.ʿ>.H.16.<8ʿ; '?5' <.ʿ>;6ʿ J'1>.J >4ʿ 1, ʿ>.ʿ 40>.8ʿ.67ʿ'11 - .ʿ ; ʿ5.ʿCIʿ 5ʿ".4ʿ 0, <<.41ʿ > 0 .ʿ?1>6.<7# 5.ʿ5.<>. / ' <ʿ05 .74?.1.418ʿ 05" E' / 55.ʿ / ?.1 ʿ5.8ʿ ' <6ʿ =4 0ʿ7,46ʿ5.6ʿ / 54 671.6‰

@ ʿ 0 ʿ(ʿ ʿ ʿ ʿ ʿ (> ʿ - '6>.ʿ 1' 6ʿ,<ʿ >.ʿ -,46ʿ1.; , 4 / '<>.1ʿ 4< ,<ʿ5"?546?'1E' 7.ʿ .75" ?546ʿJ1'<>.ʿ#<. J .ʿ '#0'=4.ʿQ,41ʿ< .<ʿ?1,4- .ʿ?,41ʿ-,46ʿ <> 6?.<6'05.ʿ<#; .66 5 ‰‰ '' 1,<-.ʿ ;ʿ4<ʿJ1'<>ʿ<, / \ʿ 01.ʿ>.ʿH1'< ' 6I 7,<6ʿ5.6ʿ , 714 ʿ.<ʿ '11 - .‰ 56ʿ6 , . ;4?.<7 ' - .;ʿ4<.ʿ ;0'5.<1ʿ <;1, '05.ʿ>.6ʿ <,01.<6ʿ>.ʿ1.<-.16.1ʿ-, ʿ 71.ʿ; ,<67 747 ,<‰ . / ?.1.41ʿ5.6ʿ71'57.ʿ0 .<Iʿ ʿ5.6ʿ>; ,47.ʿ ' - .ʿ; , / ?5ʿ 6'<; .‰ <ʿ 54ʿ1'; ,<7.ʿ>.ʿ; .<7 E'. <6ʿ5.6ʿ ,4M 71'J.6ʿE' 56ʿ0ʿ6" 6; '418ʿ5" 1. <.ʿ>.ʿ H1'<; .8ʿ .7 ,< <.ʿ; .66. ʿ >.ʿ54ʿ1.?1.6.<7.1ʿ5" 1. - ,547 ,<ʿ 11'<=' 6.ʿ ; , / / .ʿ4<ʿ ' ʿ G7.<7'7ʿ0ʿ7,47.6ʿ5.6ʿ; 41,<57.6ʿ>.ʿ 41,?.‰‰ ,46ʿ>. - .0 - ,46ʿ '77.<>1.ʿ0ʿ 4<.ʿ '77'=4.ʿ&,1 < > '07.‰ ʿ6.1' 6ʿ 0 .< >7,<<08ʿ > '?1 6ʿ; .ʿ=4.ʿQ.ʿ - , 68ʿ6 5ʿV ' - ' 7 4< 6.45ʿ; '0 <.7 .<ʿ 41,?.ʿ ,0ʿ ,< <.ʿ6, 7ʿ?'6ʿ , ; .4? ʿ >4ʿ?1,Q.7ʿ>.ʿ - ,46ʿ <4 1.‰ ' 6ʿ - ,46ʿ' - .0ʿ>4ʿ7. / ?6ʿ>. - '<7 - ,46N< .< ?.1>.0ʿ ?, <7ʿ ,V.0ʿ.< / .641.I 7ʿV "? ?6ʿ> 4<.ʿ;0'<; .ʿ?,41ʿ=4.ʿ 7,47.ʿ7 41,?.ʿ<.ʿ6, 5ʿ?, <7ʿ; ,<71.ʿ5.ʿ?., ?5.ʿE1'= 6‰ ' 6ʿ ; .ʿ / ,7 ʿ.67ʿ0,11 05. / .<7' - 5ʿ <6ʿ7,47.6ʿ5.6ʿ; ,416.ʿ 5'??'17 .<705" <'7 ,<ʿ 0 '<?' 6.>.5.1.5.- .7ʿ?'1ʿ>.ʿJ1'<>6ʿ ?1#?'1'7 E68ʿ.7 6417,47ʿ?'1ʿ4<.ʿ> ?5, / '7 .ʿ<,4- .55.ʿ=4ʿ<.ʿ 6, 7ʿ=4.ʿ - 15 ʿ .7ʿ; ,41'J.‰

W- ʿ - , 6ʿ;5' 1. / .<7ʿ=4.ʿ - ,6ʿ .<<. / 6ʿ; , / ?7.<7 641ʿ>.6ʿ > - 6 ,1‰6ʿ?'1 / ʿ - ,46‰ ʿ.67ʿ?1.6=4.ʿ / ?,66 05.ʿ=4 56ʿ6.ʿ0' ʿ 6'1>.<7ʿ0ʿ - ,46ʿ'77'=4.18 6 56ʿ - , .<7ʿ5,47ʿ5.ʿ?.4?5.ʿE1'<?' 6ʿ '7 / >ʿ?,41ʿ5">.E.<6.ʿ>.ʿ6" - ,5,<7 ʿ6,4- .1' <.‰ ; ʿ '4ʿ ; ,<71' 1.8ʿ5.6ʿ.6? 1'<; .6ʿ>.ʿ - ,6ʿ .<<. / 6N=4.ʿ5.6ʿH1'<=' 6ʿ 8ʿ 'J 1 <76'<6ʿ64 7.ʿ .7 6'<6ʿ0'1 / ,< .‰ <‰5. 1ʿ ;1 7N G=4.ʿ 5.ʿ1. ; ,4-1. / .<7ʿ>.6ʿ / ?,6 7 ,<6ʿ<.ʿ - "?, <7I 0G=4.ʿH'>ʿ / < 671'7 ,<>.ʿ <Q467 ; .ʿ '<J4 7I p=4.ʿ5.6ʿE1,<5 #1.6ʿ6, 7ʿ .< / '4- ' 6ʿ 7'7I UG =4.ʿ '1 / .ʿ.676ʿ'<6ʿ> 6; ?5 <.8ʿ .7ʿ5.6ʿ ,E5 ; .166'<6ʿ?'71 ,7 6 / .ʿ] G=4.ʿ5.6ʿJ'1>.6ʿ<ʿ5 ,<'5.6ʿ6,<7 6ʿ'<6ʿ .@? 1 .<; .8‰.7 =4 ‰.67 E'; 5.ʿ> . / ? ;0.1ʿ5.416ʿ1'6ʿ 6. / 05; / .<76ʿ.7ʿ>.ʿ5.6ʿ01,4 55.1ʿ' - .;ʿ5.6ʿ71,4?.6ʿ>.ʿ5 J<.‰ <E < 5.ʿ> ; ,41'J. / .<78ʿ5" ;1' <7.ʿ .7ʿ5"7.11.418ʿ - , 50ʿ5.6ʿ '4@ 5 ' 1.6ʿ=4.ʿ5.6ʿ .<<. / 6ʿ>.ʿ5" H1'<; .6? 1.<7ʿ1,4- .1 >'<6ʿ6,< 6. <8ʿ '4ʿ?1. / .1ʿ; ,4?>.ʿ ; ʿ<,<‰‰‰ .ʿ?.1>.0 ?, <7>.ʿ 4.ʿ=4.ʿ5"?' @ .67ʿE' 7.ʿ .<71.ʿ5.6ʿ?4 66'<; .6ʿ0.55 ʿ J.1'<7.68ʿ .7ʿ=4.8ʿ 6ʿ5.6ʿH1'<.ʿ 6ʿ?.<6.<7<G' - , 1ʿ?546ʿ=4 0ʿ 6.ʿ1.?,6.18ʿ 56ʿ6,<7 <> J<.6ʿ>.ʿ5"1. - ,547 ,<=4 56ʿ ,<5E' 7.ʿ .7>.ʿ 5" ; ,<67 745 >< =4 56ʿ<.ʿ?,411,<7 > E.<>1.‰ 34.55.ʿ / , 66,< >.ʿ J5, 1.ʿ .<; ,1.ʿ?,41ʿ5" <,4- .55.ʿ5.J 65'741.ʿ ʿ 54ʿ .< .67ʿ?.47 71.ʿ1 6.1- ʿ>' - '<7'J.ʿ=4 0ʿ 66. / 05 .ʿ<' ʿ 5 ,<'5.ʿ' ;74.55.8ʿ=4 ʿ 'E' 7>.ʿ6ʿJ1'<>.6ʿ; ; ,6.6ʿ .ʿ ʿ / ,< ' / 8ʿ=4.ʿ; .57.ʿ<,4- .55.ʿ5 J 65'741.ʿ6.ʿ? < 71.ʿ0 .< >4ʿ71 ʿ 6,1ʿ>.ʿJ1'<>.416ʿ=4.ʿ ' - . 1ʿ54ʿJ'1>.‰ # .67ʿ0ʿ; .77.ʿ ?, ʿ =4.ʿ6.45. / .<7ʿ=4.ʿ K41,?.ʿQ4J.1"6ʿ5" <'7 ,< E1' '=' 6.ʿ ;67- 1 7'05. / .<7'??.5 .0>.ʿJ1'<>6ʿ>.67 <68ʿ.7; ‰Y

ʿ 98ʿ <ʿ; , 411 .1ʿ - .<4ʿ>.ʿ ; ; 67, [ʿ<,46ʿ" '??,15 ʿ 5" <,4- .55.ʿ=4.ʿ5"?' @ V " 7ʿ 6 J< .8ʿ5.ʿU >.ʿ ; .ʿ / , 68ʿ .<71.ʿ5.6ʿ?5 < ?,7.<7 ' 1.6>.ʿ . / ?.1.41ʿ.7ʿ; .4@>.ʿ5" ,17.ʿ 55, / '<.‰ .6ʿ1'7 E ; '7 ,<6ʿ>, - ,<7 71.ʿ .0'<J .6ʿ>'<6ʿ 71, 6ʿ6. / ' <.6ʿ0ʿ; , / ?7.1ʿ>4ʿQ,41ʿ>.ʿ5" J<'741.‰ ʿ" 5ʿ E' 78ʿ0ʿ; .ʿ=4 ,4ʿ '66 [.8ʿKK. . ,<- .<5 , ʿ6 ?01 .>, ,7 H,0Q.7

Iʿ ^ -JZ ʿ "‰

.671.5'7 E0ʿ4<.ʿ<,4- .55.ʿ>. / '1; '7 ,< >.6ʿ E1,<7 .1.6‰ ʿ.67 ?546ʿ=4.ʿ?1,0'05.ʿ=4.ʿ7" ?' @ <.ʿ5'1>.1" ?'6ʿ0ʿ6.ʿE4 1; .<71.ʿ5.6ʿ 466.6ʿ.7ʿ5.6ʿ 41;6I ʿ >.1< .16ʿ ,<5?'6ʿ> '45 ; ?'15ʿ0ʿ?1. [51.ʿ=4.ʿ> ' ; ; .?7.1ʿ5.6ʿ; ,<> 7 ,<6ʿ=4ʿ5.41ʿ6,<7 ,5E;1 .6ʿ?'1ʿ / ? 1'51 ; ;8ʿ?4 6=4 .55. ʿ6,<7'J1. .6ʿ?'1ʿ5.6ʿ ʿ ; ,416ʿ'55 ; ;68ʿ=4 6,<7 / .ʿ<.ʿ> ; > .60'0'<>,4<.1.<7 #ʿ 1. / .<7ʿ5" ,17.ʿ ; < ; '6ʿ >.ʿ1.E46ʿ >.ʿ6"?'17‰

Q[ʿ .ʿ 1'5 ʿ=4.ʿ ,< - . 7>.ʿ; ,4;541.ʿ0ʿ .0 6G 7, [ʿ <.ʿ6.1" 1.<>4ʿ?405 ;ʿ=4 '?1 6ʿ5.6ʿ1'7 E ; '7 ,46‰ , >8ʿ ;<ʿ '77.<>'<78ʿ5.6ʿ?1 4; c\'5.6ʿ&E6?,6 5 ,< 8ʿ=4ʿ6,<7'47: .<G 5 =4 .6N5.6ʿ?'V6ʿ.5ʿE,15.1. 6.6=4;ʿ . / ?.1.41ʿ"E' 7 , ; ;4?.1ʿ ?'1ʿ6.6ʿ71,4?.6ʿ>41'<7ʿ5" J4 .11.ʿ6.1,<71.<>46ʿ0ʿ5" ,17.ʿ 55, / '<.Iʿ5. .4@ 16, ["E.1"?'17 .ʿ>4ʿ0'<4'7>.ʿ L.ʿ / .6 ['18ʿ > '?1 6ʿ H.6?1 5ʿ>4ʿ71' 5 ʿ>.ʿ K.5J1'>.Iʿ5" 1 - .1.ʿ >.ʿ#0.1 '6.1'8ʿ >4ʿ ;>7 ʿ>.ʿE" '54; : .8ʿ5" 5 / 5;ʿ .<71.ʿ5.6ʿ ?,66.66 ,<6ʿ> .6ʿ>.4@ ?4 66'<; .6ʿ ; ,<71'; '<7.6Iʿ5" ?5' <.‰ >.?4 6ʿ .4@ 16, [" Q46=4 '4ʿ '<40.ʿ1.65.1" > 6.17.ʿ.7 <>.?.<>'<7.Iʿ5"? '17 .ʿ<,7> .67ʿ>.ʿ5" #1, '5 .ʿ541=4.ʿ1.6‰ 5.1" 0ʿ " / ' 64<> 451 ; .‰ < 5 1.1" 4 .ʿ5 J<.ʿ>.ʿ>. / '1M ; '7 ,< >.?4 6ʿ 5415 70Q46=4 '4@ .<- 1,<6ʿ>.ʿ , - I ʿ> '?1 ʿ ; .5" #0.77 <8ʿ 4<ʿ '471.ʿ?.7 7ʿE,17 .7 =4.5=4.6ʿ - 55'J.6ʿ?'6 ‰ 6.1,<7 6,46ʿ5">, / '<'7 ,<>.ʿ5" / ' 6,7ʿ> 471 ; .Iʿ5.ʿ1.67.ʿ >.ʿ5" ! 1, '5 .ʿ541=4.ʿ>. / .41.1" 0ʿ5" ,17.Iʿ5.6ʿ?5' ; .6ʿ>.M ?4 6ʿ ,- 'Q46=4 0ʿ#0, ;0 / ʿ6.1,<71.67554 .605" 17.ʿ>'<6ʿ >.4@ / , 6ʿ0ʿ; , / ?7.1ʿ >.ʿ5" 6ʿJ<'741.ʿ >.ʿ5" ?' @Iʿ ,<ʿ5.6ʿ 1.<>1" >'46H 5'5ʿ,0ʿ.55.6ʿ 7' .<7ʿ5,16ʿ>.ʿ5.41ʿ?1 6.ʿ>.ʿ?,6\ʿ 6.66 ,<8ʿ' - .ʿ7,45.ʿ '17 57.1 .ʿ=4 ,<ʿV "71,4- .‰ "E,1ʿ 7.1.66.ʿ>.ʿ#5 ,#0 / ʿ6.1" J'1> .ʿ?'1ʿ5.6ʿ71,4?.6ʿ>.ʿH. / ?.ʿ 1.<1ʿQ46=' 0ʿ5"?'; E ; '7 ,<>.ʿ5" ,17.ʿ ' - .;ʿ5" 4‰6 .‰&3>ʿ ;1, 7ʿ=4 0ʿ#.77.ʿ?'; E ; '7 ,< ; .77.ʿ?5' ; .ʿ6.1"; ; > .ʿ05 . / ʿ ?.1.418ʿ5.6ʿ 466.6ʿ'V4<7ʿ4<ʿJ1'<>ʿ ,7 1 7ʿ0ʿ; .ʿ=4 ;55.ʿ<.ʿ 1.7,41<.? 46ʿ0ʿ6.6ʿ / '551.6ʿ?1 ; >.< 6‰P .6ʿ; ,<- . ,5 ,<6ʿ .@ 6 '<7 .<71.ʿ 5.6ʿ>.4@ ?4 66'<; .6ʿ; ,<71';7'<7.6ʿ ,47 7ʿ 1'??.5 ;6ʿ>'<6ʿ5.ʿ?1 <7ʿ 1ʿ ʿ.7ʿ; ,<E1 / . .6ʿ>.ʿ<, .'4‰ '5ʿ; : .ʿ6 1" .- ʿ;4 .ʿ?'1ʿ5.6ʿ71,4?.6ʿ>.ʿ H. / ?.1.41ʿ ‰> ; '4Uʿ6.?5. / 01.‰ j

<ʿ'6641.ʿ ;ʿ=4 ,< <.ʿ6.1" ?546ʿ5,<J7. / ?6ʿ6ʿ'<6ʿ'??1.< ʿ >1.ʿ'466ʿ "<,4- .55.ʿ>.ʿ5" ; <; <6 ,<ʿ>#5"?' @ .<71.ʿ =‰ 466 .ʿ.7ʿ5" ,17.Iʿ5" >.1< 1.ʿ?4 66'<; .ʿ - .<7ʿ> 71.ʿE,1ʿ 7. / . 7ʿ6,55 ; 77 .?'1ʿ6#6ʿ'55 6ʿ> ' ; ; .?7.1ʿ5.6ʿ?1,?,6 7 ,<6ʿ >.ʿ /? 1'71 ; .‰

.6ʿ 71' J.16ʿ'EE54.<7 7E >.ʿ?5,6 .<ʿ?546Iʿ?'1 / 5.6H10< ʿ =' 6ʿ,<ʿ; , / ?7.ʿ ‰5.ʿ; >. - '<7ʿ>4.ʿ>.ʿ ,5 J<';Iʿ ,<ʿ?1 \ʿ 7.<>ʿ / / .ʿ=4.ʿ6"E' / 55.ʿ6 .7ʿ05 1" ; ‰ .ʿJ 4 1ʿ5E1'< 6ʿ >.ʿH5'; ; 67'<>.< .67 '11 - Iʿ 5ʿ " 7ʿ'?1 6.<7 ʿ0ʿ5"; ; ,41ʿ?'1ʿ 7 ' / 0'66'>.41ʿ> !6?'J<.‰

ʿ / ? 1'71 ; .ʿ>.ʿ 466 .0ʿ>,<4.ʿ'4ʿ?1 <; .ʿ>.ʿ! '55 0 <8ʿ 6,<ʿ / 0'66'>.41ʿ0ʿ; .77.ʿ; ,<18ʿ4<ʿ'>Q, <7ʿ>'<6ʿ5"?.16,<<,ʿ >4ʿ; , / 7.ʿ>. '6' / , 6 ‰

.6ʿ'a0 >4;6ʿH1'<=, 6ʿ.7 #: '15.6ʿ6,<7>.ʿ1.7,7 1ʿ ; ʿ>.ʿ 4>.ʿ>.?4 6ʿ5.ʿ ʿ>.ʿ; ; / , 6I 56ʿV ,<7ʿ5' 66 ʿ5.<1ʿE101.8ʿ '1; :5>4;ʿ ,?,5>8ʿ=4ʿ "E' 78ʿ5.ʿ98ʿ>'<6ʿ; .5 .ʿ - 55.8ʿ6,< . / 1 .?,05 =<.Iʿ5 " 5ʿ 67'55 8ʿ .*8ʿ; , / / ʿJ1'<>ʿ?'ʿ 5'7 <>4ʿ?'5'5 <'7>.ʿ .650‰ G‰

,46ʿ5.6ʿ6. J<.416ʿ >.ʿK, : / .ʿ=4ʿ 7' .<7 ; ʿ6.ʿ6 <7 1.<>46ʿ64; ; .66 - . / . ,7 0ʿ 1'J4.8ʿ ,0ʿ6 .67 '466ʿ1=<><ʿ5.ʿ #, / 7.ʿ>.ʿ #,75, [6.708ʿ ;0'<; .5 .1ʿ>4ʿ1,V'4 / .8ʿ ' - .;ʿ4<.ʿ 64 7.ʿ<, / 01.46.‰

.ʿ / < 671.ʿ?1466 .< 0'1,< ';,0ʿ.7 / V5,1>ʿ 5J < ,<7 .485.ʿ(ʿ>. ; .ʿ / , 68ʿ <.ʿ'4> .<; .ʿ?'17 ;4 1.ʿ>.ʿH. / ?.M 1.41Iʿ ,<ʿ?1 .<>=4 .55.ʿ 5' 71.5'7 - .ʿ'4@ 'EE' 1.6ʿ>.ʿH1'<G ; .I ʿ?'1' 7 '<ʿ / , <6ʿ=4 ,< 6 .< , ;4?.ʿ0; ' , ; ,<?Iʿ / ' 6ʿ ,< '6641.ʿ=4.ʿ; .6ʿ; ,<16ʿ<,ʿ6,<7?'6ʿ .<; ,1.ʿ> ' ; ; ,1>6<1ʿ5.6ʿ / ,V.<60ʿ . / ?5,V.1‰G +ʿ V5,1>ʿ .65ʿ1.?'17ʿ5.ʿ / / .ʿQ,41ʿ ?,41ʿ1.7,41<.1ʿ0ʿ ,<>1.6‰

.ʿ>4ʿ.7ʿ5" >< .0.66.ʿ>.ʿ 17. / 0.1J6,<7 ; ʿ>.?4 65.ʿ (ʿ>.ʿ; .ʿ / , 6I 56ʿ,<7 7ʿ'?1 6.,7 65.ʿ5.<>. / ' <ʿ05" ; ,418ʿ 0ʿ76ʿ?'1ʿ 66.<76,<- . ,7‰

ʿ) ʿ " ʿ ʿ & ʿ641ʿ ʿ8 ʿ ʿ(ʿ 4(+ʿW ʿ'1.<; ,<71.ʿ>'<6ʿ / " 1,47.ʿ4<ʿH1'<=' 68ʿ?.1ʿ 6,<<'J.ʿ.<7 ;0 ʿ> '1 65, ;1'7 .8ʿ.7 =4ʿ1.J1.77.ʿ' / 1. 4. 7Rʿ - ,71.ʿ0<. .<1.J / .8ʿ,0ʿ 5ʿ'41" 5 J<1 ‰ ! .7 0, / / .ʿ-1' ʿ / .<7 / ?,17'<7" - ,454ʿ / .ʿ?.164ʿ>.1ʿ=4 56' - ' 7ʿ?.ʿ0,<<.ʿ ?'17ʿ=4.ʿH' / 0'66'>.41ʿ>.ʿH1'<; .ʿ0ʿ .<<.ʿ< ' - ' 7ʿ?, <7 7ʿ1.=4ʿ05"; ,41‰ .ʿ - ,46ʿ' - ,4.=4 5ʿ / "E,170 .<ʿ?1,4- ʿ 6" <,4- . 5.8ʿ .7 5 (ʿQ ' / 6>. " ' , .E7 Q?'6=1,51. [

>,'>0' 75.E>S7=7 .5.'1,S ; 75 S'J,%. e E,1 5'.]'71, ?.6
>'<65"?'17 .'>.' '<5 , / ,J4.'='5 : 5'??'17 .<78 .7 .4
"E,1 / " '< ; ,1>,<8 ;, / / .' .< 7. / ?6>.'?.67.8 ?, ,1 ; ,4G
?.1'7,< .6 ; , / / , ' ; '5 ,<6 ' - . ' 6H1'<; 6%' %
\ < 1.0' 7 4<.' '<; .<<.' & ' ' a 50.@.V8 .< 15'<>.%
.5 ,1>' 4<>.155 8 = 5 'R' 7; ,<67175 E.8 - ,'5'<75< '>,<'
<.1'?546>.'5'1J.418 ' ,7 1 .16 ,<7>>'=05 J>6>.';1.46.1'
'>@?.>6>.?1,E,<>.<18 >71'-.16 '<'7 7>e 6. / .<765 4'
/ ' <6' > 76 ,<7 71,4->'4<. 7, / 0.' .< / '='<<.1 .' ,1> M
< ' 1.8=, ' ; , 7.<' 7 4<5 <; .45 ,>'>7' .<7>>?,6>6>.6 6=4.'
5.77.6>.' :4 7 ? .>6 40' 7 ? .>6 .7>. / ' >.'5,<J8 .7 .6 ,6
> 4<.'J1,66.41 ?1,?,15 , ,<>.' > ; .77.' 7' 55.' J5J'<7.6='.'
50.@.f >7' 7 4<.' '<; .<<.' - 55.'>.' / '1=4>8 ' - '<7=<.'5.'
;01 65 '<6 / .'E07 <71,>4 7 .< 15'<>.%
8 0.1>'<8 / . / 01.>"?'15. / .<7 ' '> 7 01 55.>.?4 6
?546 .<16 '<<>.6?'1 >.67'5.<76 ,1'7, 1.6 >>'?1. / .1' ,EG
>1.8 ">7>'>'<J.1.46. / .<E / '5'>.8 ' H 5.' ,17: V> <<.'
E >11.' ; , / ?'J<..'>.6=4 <'<; .f :.41.<6. / .<5 5 .650,16
> ' ' 1.8 .7 ,<>, 7 6" ; ,<6.1-'7 ,< > E''0 5.7> >"> , .'
7.'1' 4<>' 7>.' ;0. / ,<>% R

! %

% ' 0 ' ' ' 8 'S$G '
>>4 / , 6>.1< .18 ,<' - " / ,4 55.1>'<]'<,71.'?,17=4'71.'
-'06.'4@>.'J4.11.' .7 >.4@E1 J'7.6I' ' .< .67>.0' ;='>
6 1.J / .<76>. , >>.8>.' ,1 " .7>.' ! 4'>'5*"'1'8.5 4<
1.J / .<7 15'<>' 6%#.6 71,4?.66,<7>.67 < .6>1.<E,1; .1'5. "
J'1< 6 <6>.5" #'7'5,J<.% '?'1' 7=<.' %>.' '6;V8 <, 1.'
; '?5' <.'J < 1'58 "5 / , J< ' '4 / < 651.'=4. ; 4.' <=4 .M
74>.'641' 4<.'E.1 / .<7'7 ,< '66.0 - - .'=45 6.' / ' / E.67.'>'<6
; .77.'?1, - <; .% " ; ><5.'1,V' .'=4'0'<< 7 7,<6'5.6 71'<G
& '>, / ; 5 6>'<6 .'1,V'< / .8 ' <6'=' .' ; .4@=4'V .@.1'
; .<7 4< 71'>.'=4. ; ,<=4.8 6>.< ' 1.' ,<>.'E 'J .8 "
% 4< ?.4 '4J / .<5' ; '5" E.1 / .<7'7 ,<f ,< ;1, 7=4 .55..67
.@71. / .' > '>1 > .7 >'<6 5.6 .<- 1,<6>.' ; .77.' ; '?7'5.8
> ,>'?546>.' > @ / 55.' 71'<J.16'6,<7>'5" .55.'>.'6 5, '
J, .1% .'6.11, .<7 6.1" .@ J' / / .'>.6>, / .67 =<.6 71'<'
J.168 .7 ,1>1.' > .@?456.1' ; .4@=4'<.'5.'?1J7.1,<7 ?'6 .67
d >.'1 J4.41'06,54.% .6>.7' 56>.'; .>.' <6714;7 ,<E.1' .<7
J'5. / .<7 0,<<.41 '4@ <=4 6 7.416>.' .<6.'.7>.' ! , '8
, ; ' ; .77.' <6714;7 ,<1 .55.' .67 '>1.66 .'>'7,46 5.6 - ; .'
1, 68 J,4-.1<.4168 ; '?7' <.6 J < 1'4@8 '5; '>.68 ; ,11 J '
>,16 .7' 71.6'04J.6N
W 17% h' V'<7 1.=4'5" ; ><5J'7,V'5.'=<' ' ; .#,<7?'J<.'
5" ?1 6.<7.' <6714;7 ,<8 ,< ?1, ; >.1" 641 . ;0' / ?8 6'<6
> ' 8 6'<6 .@;46.' .7 6'<6 ?1 7.@7.8 >'5" / .771.'>.@ .47 , / '
'<6'5.6 - 55.6 , 5 5'V ">.6 '4> .<; .6 ,<>.6 ; :'<; .55.1 .68
.7,>'?'1' ; ,<6.=4.<7 ;6=<'17 .16 6, / 641-. 55 6 ?'1'>.6
'5;'>.6 ?'15 ;47 .168 5.6 ' ; '>.6 ;1 / .<56 - 1 5 .1,<7 6 8
>'<6 5.6 5 67.68 1.J 671.6 ,< / '715;45.6=< 56 ,<7 >#&>1.8
,<"<,5'7,46 5.6 71'<J.16 .@67'<7>'<6 5.'> 671 ;78 ' <6'
=4.'5.416 E' / 5 .68 .<6? ; 7 '<75.416 <, / 68 5.41'?'71 .8
5.41'1.5 J ,<8 5.41 . / ?5, '5.41'>.67<'7 ,< .7 ' / ,7 E>.'
5.<1'6.0,41'0 ,< .@?1 / .1" 6 556,<7> ;5'1' - ,45, 1V>. / . '
1. ' ; , / / .'>, / ; 5 6 .7 640.76>.' " '0.67 8 ,4 6 / ?5.G
/ <7 .? / / .'?'66'J.16f .7>'<6 5.' ; '6=4.'7,46 ; .6 1. '
6. J<. / .<76 4' .<7?'6 7 '?1 68 ,<5.6 ?1.<>1" / / > ' '
7. / .<7%

8

W % '<6 .6 - 55.6 , 7 5'V '%>.6 ' .'>.6 >.'=4'1 .18
/ '76 6'<671 04<'58 .' ; ,11 J >,1'?1.<>1'8 >'& ' >.'>.6 '7G
; '>.68 5.6 / / .6 1 / 6. J<. / .<76%
W 55%' '<65.6 '451.6 ; 7.68 - 55.6 .5'0,41J6>4'1,V'4 / .8
5.6; ,11 J >,16.7 5.60467 ; .6E.1,<75.6 / / .6 <E,1 / '7 ,<68
.< 6'5>' 7 >.6 / ,V.<6=4 56 71,4-.<7 ; 7.6 5.6 <,7' 1; 68
5.6'5J4'6 56.7 '471.6?.16,<<.6>.; ,< '<; .8 ?,41'6 '66>'
1.1'>4 <, / 01.'>.6>, / ; 5 68
W % ! .5" 5'<7 E' 58 5.6 71'<J.16>.6>.4@6.@.6=4'6.G
1,47 / '71 ;45 6 > ;5'1.1,<7 E,1 / .55. / .<7 6 56 6,<7 >'<6
5<7.<7 ,<8 ,4 <,<8 >.' >. / .41.1'>, / ; 5 6 .7 640.76>.'
' '0.67 8 7 6 6 J<.1,<75.416>.;5'1'7 ,<6%
% .6 71'<J.16 =4'6,<7 ,4 - ,4>1,<7 1.'>,1' ; 6
>, - .<7 51.' ; '50,5=4;6 .7 ?1 7.1'>.-'<75.6 71 04<'4@ .'
6.1 / .<76< - '<7
$.'041.'> ,06.<1.1'&"1.5 J ,< ; '7: ,E=4.0>.'54'J'1>.1'
"E 5 5 8 ' <6'=4 '4 1,7>,<70.'6< 6 5.'6,017G .< / .'6,4'
W EE5.77',7' ,@5,0 .5 '4@46'J.6>.' ..'1,V'4 / .8 1.<,<; '<7'
W > 7,47>1, 7 51'<J.1' .7 >'7,47.'1.5'7 ,<8 4< , 1'.7> ?.<G
& >'<; .'>4 ?'V6 ,> 0.'640'0 % '?1, / .76 >.'< 46.1'<'>.'
$ 6" ?1,7. ;7 ,<775>.' ; .55.'>.'6.6 ' / 0'66'>.4168 / < 671.6
5'?4 ; ,<64568 6?46 .6 ?.0<.6>.'J'5 1.68 ?1 6,< ,4 .@?45G
1'>04 '06,54.'>.6 76 6'>.' " '0.67 8 .7>.' ; , '5 6;'7 ,7E

_'>.' / ..'0 .<68 6.7,< >>'>>> ' .<7 ,< .7 / "=4'5 7 %Y
W ' ..1 / .<7 5'<' ' <6'?1 .76 J< 8 ' 1>' / 0 > / '
5.6 '1; : - .6>4'71 04<'58 ?, ,1'V ' - , 1'1.; ,416 '4'0.6, <%
W 5% < <,7 E5.1">. .4@=4'6.'> >'1.1,<7 ?'66'J.16
=4 56 <.'?.4-.<7 .@.1; .1'4.4< '17 5 0 1'5 <' '<; 4<.'?1,M
E.66 ,< / #'<=4.'?'<6 6 '>, / ; 5 6I .< ; ,<6.=4.<; .8
.6 71'<J.16 <.'?,<11,=7 71.'<' / >. ; <68 < ; ; / 1J .<68
< ' '1.0 7. ;7. 8 >'<5 <6=4G '< .<' .<7 4<.' 5 ; .<; .' ; %
?1.66.'>.' " '0.67 % 76 <.'?,4 V,<7 <' 71.' / '1; : '<>6 >
5" - '6.' &>1'<< .P8 <'>7' 55'<E6 > '4; 4<.' / '1#: '<> 6.8
<'?.114=4 .168 <' / '1; : '<>6>.' / ,>.68 ='7' 55.4168 <'
; ,1>, << .168 <' / / .'>, / .67 =4.6E $é 8 8 ' % %' %
W % < >,<<.1">4@ ' .16 #> / ?10>'<6 7 ?1E ;7.'
?1. ; >.<7=< <@;'0,416 ?,41'6 ,17 1>.' '>1 >8 .7>.4@1' , 6
?,41'6,17 1>77 1,V'4 / .8 ,4 >'<65.' / ' .'7.1 / , 56>. 1, 5
6.'>, / ; 7 .1 .7 ?1 7.1'5.'6.1 / .<71.=4 68 .4 6.' .,4 4.5 '<E
'4@?. <.6?1,6.<; .60=7 ; .4@=4 ' - ,4>< / 7 6.1.J' 1>.1'
; , / / .'>.6?'66'J.16 <.'?,411,<76.?1 6.<7.1 '>. / .41.1'
> '>1 >6'<6 .< (' ,07.<4 '?.1 / 06 ,<4770 / / 0>4'
5'?1. / 1.'6. ;1 7' 1.1 .> 5'7% %
W % 34'<7 > .<71 .'>.6 71' .16>'<65.'1,V'4 / .8
" '0.67 > 6 1'<7 / ' <7.< 1'5.671' 7 6=4 6406 65. 5' - . ;'
5.6 ?406'<; .6 71'<J 1.6 ?,41 .' ; , / / .1; .'>.'5.416640.76
1.6?. ; E6>'<6 6.6 5'7.8 ,< .@' / <.1" .6 ?.1 / 66 ,<6 .7
5.6 ?'66. ?,176 .< - .174 >.6=' .56; .6; , / / .1?'<76 6.'1.<'
>1,<7>'<65.6 ?,176 .75.6 ?5' ; .6>.' ; , / / .1; .8 .7 < . / G
? ; ; .1" =4 56 <'11 1.<7 ?'1> '<71.6 1,<5.6 6'46 4<.'?.1M
/ 66 ,< 1,V'5.' .@?1.66.8 5.6- ; . 1, 68 ; '?7' <.6 J <.1'4E
.5 J, , - .177.416 >.6E1,777 1.6 7E.-'<7 .7E .18 > J'1>'
>. ' 51'<J.168 >' 0 5.416 ?'66. ?,1768 6 10 - .<<.<7 ?,41'
>. / ' / 7.1'1.E4J.8 '6 5. 4 0,6?7'5 7 8 .771' ; .1'5.6 1,47.>
=4 56 >, - .<7 7.< 1'>'<6 <7 1 .418 '?1 ' =4 B6 '41,4E
041 '?1,V 6, 1. / .<7 ,0 66'<..' .7 6,4 / 66 ?< '4@ 5,0 >7E
'?'V68
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7,1.6 5'05 .6> ,1>1. B ?,41'5.' ; , / ?7.>. " '0.67 8 .7
>'<6 5.6 '471.6 / '<4E' ;741.6 ,E7 5 6.'71,4-.'>.6 > 1. ;7.41 '
,<>.6 ,<-1 . ;6 =4'<.'?1,E.66.<7 ?' '5" 1.5 J ,< .'70,5 '
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>4; ,<6. '>.' ! '67 75.8 'E <=45E.6, .<5?1 - <46>. ; .=' B'
,<7 "E' 1.I .7 ; .?.7 >'<7 76 <.'6.1,<7 ?, <7 / ,5.67 6% '
" "% '<6 5.6 > 6?,6 7 ,<6 > 7;1 / 5< . ' ?'1' 5" ; >45;'
1,V'5.8 .60467 ; .6 '41,<75.'6, <>.' ; , / ?1.<>1.'7,46 .6
71'<J.168 .5 / / .' ; ,<@=4'6,<7. / ?5,V '>'<]'6" '6,7E
/ 5 ' 1.'.7>'<66,< 6.1- ; .' ; - '
$ "5% 6 ,?1'7 ,<6>.'5"' / '71 ;45.'>.6>>;5'1'7 ,<6 .7
>.6 6.1 / .<76>.6 71'<J.168 =4'6,<7 ,< - ,4>1,<7 . 1.'>, '
/ ; 5 .68 7'<7 7.1 / < .68 ,< .< 1.<>1" . , / ?7. < / > ' '
7. / .<7 '4@71 04<'4@8 =4' 5.6 E.1,<7 ?'66.1' '4 ; / 6. 58
'-'<7 / / .'=4.'5.6 5 67.6 6, .<7 ; , / ?.7.68 '
'B E'47=4.'E" E.11.41'=4' ' "> ;7'4<.'1, .641.'466'6U'
V 1.' ' 7 5 '0 .< J1'<>.f ; '1' ,<7 .'?.47 ?'6 ' - .17 1'> 4<.'
< '< 1.'?546 ;5' 1.'5.6 51'<J.16 =4'6,<7 .< 6?'J<.'>,
5" 6.1- 74>.' "5'=4 55.' 76 ,<7 71.'1 >4 768 <'5.6 <- ;1'
?546 E,1 . / .<7 '6 5, J<.1'>4'1,V'4 / .% < '7 .7 >' - .'
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'41"?1,>4B '#'>@% ' 6< 6 >.'5" ! '".57.' ' A'
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71' ,1> <' 1.'.5 / < 671.'?5 < ?,7.<5 ' 1.' > J5.7.11.' '4 '
?1 6 >.' ; .77.' ; ,418 "?1 6.<7>0 .1'6.6 5.771.6>.'.1 '<. .' .<
; .77.'=4'5 7 % <5.' ;1, 7>.67 < ' '?'66.1' '#,<67'<7 <,?5.'
6,46%?.4 >.'0,416%
% 5.' ; , / ' >.' ,< ; .< J,8 E 56>4 / 7<0 1.'?5 < ?,7.<'
7' 1.'>.' 466 .'?1 6'5" ; ,41'>. H5,1.<; .8 " 7 ' ' ; ;1 > 5E7
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.6; '>1.' '?.17 .'>.'71' 5.1' < / / .' ; .7 ' ; ; , / / <>. <.<78
.7>.'6 .< 7.< 1'641 347' "' '<. .77<.6 1 6,547 ,<6?1 6.6 ?'1'
5" 1 ?405 =4.8 >. < .<7.<>1.' '4;44.6 ?1,?,6 , 6 >.'
N ?' @ ' / . <6=< .55.6 <.'6, .<7 &7. / 7 <>>.6 ?'15.'0.V 4 G
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A-9$' +,$#/ ' $,' $'(+'(2(3 ,$ *
('4(,!$' 4+"+..$0(.5 (($*$',.('4. 4 '(' *(
$ (*,,+$.(' +' +' $)(.,(' $*-$0$- (('4+.3('5 ((
*(3(''$,(.+' -(" 0$'$,(" - 3 $+$.('/ ' +' +'4. !/
4.$-,-' 4) $5 ('4+.3('5 (("# . (" -('4(.3(41
,$ * '(. *,',(("5 (("#.+$" (* -(0$(*-. *,' $$*!
(*'('c' ('3 .4" -9$' +,$#.((,(.+3(,,(' $ (',' (*
--3.-,(.+ *(+ ,.((. $'+*3,$ **(.+'3(,(!3$7 +$"
(" $*$'$.("* (2-3 ,(. *,'4+'/ +," ("4(.3(4 (."
*('4(.3(0. *,'4+'/ (,' *0$(*-.+'0 " -$.(7 $.(
$ *('0+ ,'.$(*/0 ' ('0 8(U7 +' *#$,.((,+$,') **(/
(,/ '$0 " *(' +0$(U 4+" .(((%(/ (',.(' .'*+,$ *+'
'(.+$,'.(4 $ BB '(.+$,'.(4 / (' ('3. $'/ +$' '
$)(,-' 4) $5 (' '(.+$,' -(9.+-((' < * +44 +$$-$,?
(' (''(.+$,'(*3 .(/(,'- *(' +* (.('4 ".(- ,+!
) (/4+.' *('+ ,.(3+ '(' -(' $*(2(3 $ * -3 +'
3 -3 * 0(+ 2 -+*9(.'

H

< / 6B7[' -, 'E7'6.'?,?45'1 6.Z ,4'?,?' '
5'1 6.1'5.'?,4-, 1' .@.;47 E8 .7'>.?,?45'1 6;1'5.;,1?6'
7<' '41' 7' ''K6,V. '0 .<' '66'17I' 5'? 6., '
7.1' 5''<''5, 'E 6;'5.' <6<EE 6'<7.' .7'71.6 5. J.1.' ''64?M
?,17.1% .';,1?6 .J 65'5 E'. ''> 1.7.1' 7' 4<.' 64EE '
6' -7;' .5' ?546' ;,K6457,05.Q' 5,16' 5.' ;,<71 0<'05.8'
774 ' ?.'6'<7' 7 ,?' 5,<J7. / ?6' .<;,1.' '41'' 71'?' ?.4'
% '57 K .1. '?,41'>.;,4-1 1' 7,4Q,416' 6,<' -.1 7'05.'
% .1.78' <.' -.11'' ?546'=4 4<'0 .<E' 7.41'>'<6'5.' < '
< 651.8';7>'06' .';,1?6' 5.J 65'7.' >.6' 1.?1.6.<5'<76'
8` f\?1G66;4168' ,> .4@' ,4' ;,4?'05.6% ,46'<.'>,47.0'
0a\ 47 =4 '5,16' 5' 1;6 65.1'' '' 5''5, I' -,46'<.'>,47.0'
?, <7' =4.' 5.' < < 671.' ?,4-1' 7'5'-'1 6.1'?'1' < 55.'
<,V.<6' <> 1.;76' 6'' 1.6 67'<;.I' .7' =4.'5'' ?,?45'1 '
6 . 7'05 66'<7641' <.@.;47 ,<' / . / .'>.'5''5, ' .7'
641'5''>.71.66.'>4' 71>6,-' ?405 ;8' Y.'?'1- 47' ?.<7 '
>7E.' '' ,??1 / .1'7,47' '' 5'' , 68' ;'1' 56' 6.<7' <6.?'M
1'05.68' .7'5.6' 1.?1.6.<7'<76' .7'5''5 0.17.' >4' ?.4?5.%
& <''??5'4> 7%P

.55.6' 6,<7' 5.6' ;,<6.=4.<;.6'?1.6=4.' <.- 7'05.6'
>.' < 7 '7 -.' E< < 67>1 .55.I;'1;.< .67?, <7''-,46'
J4 5'E'47'5.'> 66 / 45.1N'5.'?,4-, 1'.@.;47 E'6.1'' 7,4 '
Q,4165 .<<. / '>4'?,4-, 1' 5.J 65'7 58' .7'54 'E.1'' 7,47'
5.' / 'P =4 5'?,411''54 E' 1.% # .67' 4<' ;, / 0'7' .7'05'
>'< '5.6' &. / .<76'?,5 7 =4.6%

18'> '?1.6';.77.'5477.' <.- 7'05.8'.7'>'<6'5.'6V67. '
/ .' />1'.'>.' % K.'4 / .508' ';7 ,<' >4' J,4-.1<. '
/ .<7' 6.1'' <7.11, / 14.8'<,< 6.45. / .<7' ?'1'5'' 646M
?.<6 ,<' >.' 1 / ?,78' / ' 6' .<;,1.' ?'1' 6'' <455 7.%
,< 6.45.EE .<5' 5.' ;,<;,416' >.6'>.4@'?,4-, 16' <.'
?1,>4 1''?'6'>.6'5, 6' / . 55.41.6I;'1 46'J.'6,4-.<7'
?.B >.' >W < 7 '7 -.'<.'E.1''1 ;<'?,41'5''0,<7.'>.'5''
,'6 '5''?.15 > .'.671.;,<<4.8' .7' ;,11, / ?1''5''5, '6'
5'' ?.15 > .'71 , / ?:.I'1,' 6'.<;,1.;.';=<;,416'6'0 '
0'11. / .<7' / 'J <.'6.1'' >'<6' 5'' / ' <'>.6' / < 671.6'
'1 / .' 5'' ?546'>'<J.1.46.8' .7' < .<71'E<.1'' '-.;'54 '
=4.' <.@.;47 ,<'>.6'5, 6'E 6;'5.68' '- 5 66. / .<7'>.6'
-.?1 .<7'<76'>.'5'' <'7 ,<8' .7' 'J1'<> 66. / .<7' < '
7 ;45'05.>.'5''?4 66'<;.' / < 67.1 .55.' ,4'>.'5''?1.M
1,J'7 -.'1,V'5.% & <''??5'4> 7%P

<' -,46' '' > 7' : .1' =4.';.77.'=4.67 ,<' .67'<.4-.I
.:S' -1' / .<78,<'< '-' 7'Q' / ' 6'>,45.' .<' H1'<;.'>4'
?1 <; ?.8' / / .' ,46' 5.6' ?'15. / .<76' .7' 5.6' <7.< '
>'<76% 4Q,41> :4 '7,47' '' >.6' E';.6' <,4-.55.6% .'
?1,J1.6'>.6'5 / .1.6' <,46'?.1 / .7'>.'E' 1.'-, 1'=4.'
.6',0Q.76'5.6'?546'6 / ?5.6' ,<7'?546 .416'E';.68'.7' .6'
?1 7.67' ?'1-.<4' '' ,06.41; 1' 5.6' ?1 <; ?.6'5.6' ?546'
#5' 16%

<' -,46'>E7'=4.';.77.'=4.67 ,<' .67' .<;,1.'<.4-.I
.55.'<.' .7' 7'>.Q''8?546 5.' ('Q4 <' 7( ) *8=4'<>' -,46'
'-.0' 1.;1.>' ?'1' 4<.' E ;7 ,<' 6405 / .8'?'1' 4< ';7.'
><.1J =4.'>.'5'' ?4 66'<;.'>,<7' -,46'-.< .0'>.'-,46'
<-.67 1' .<' -,46' ;,<65 4'<7' 66. / 05>.' <'7 ,<'5.8'
=4'<>' -,46 '-.0'1.;1>>8'> 6 Q.8'7,<6';.6' / ? 76'>'<6'
,EJ'< 6'7 ,<' >.6=4.56' 5.' >.6?,5 6 / .' '-' 5' ';;7 '
/ 45>' 7,47.6' 5.6' -.@'7 ,<6' .7' 7,47.6' 5.6' <Q467 ;.6%
#;E57.6 -,46' '%5,16' '-, 1' 0.6, <' >.'5'' 6'<;7 ,<' >4'
1, .'1,' ;147 5' ?,4-, 1' 'Q,47.1' =4.5=<.' ;0,6.' ''
5'' -,5,<7>' <'7 ,<'5.' =4.' -,46' -.< .0' > .@?1 / .1Z'
,<I';.77.' >..' =4.' / < 7' >, 7' >71.' 5.'1>6457'7'>.'
5'' -,5,<7>' >4' ?.4?5.8' .7'>4' Q[4?5.'6.458'>7' 7'7.<.M
/ .<7'> > / .<7' 1.8' 7.55. / .<7'>- >.<7.8' =4 .55.'?'145'
<;,<7.67'05.' '<' ?.4?5.' ;, / / .' '4' 1, % # .67' 641'
;.77.' >1 5>' =4.' -,71.'>.;1.7' E47' '5, 6'>7' :5 % ,46'
_'-.0' 1.6?.;7>' .7' .,<6';1>'5'' -,5,<7>' >4' ?.4?5.8' .7'
-, 1.'>.;1.7'E47'1.6?.;7>';, / / .'.55.% # .67' >.';.77.'
->1 7>'=4.'Q.'1.;5' / .' '4Q,41> :4 ' '??5 ;'7 ,<I' .7'6'
66. / 05>.' <'7 ,<'5.8' '?1.6'>.6'71'-'4@'6' J5,1 .4@'
.7' >.' 6 ' J1'<>6' 71 , / ?:.68' 6.' ;1, 7' .<;,1.'5'' ?4 6M
6'<;.' >;' ;,<6.1-.1' 5.6' ?1 <; ?.6' =4 .55.' '-' 5' 5.' ('
Q4 <' ( ) *8 '>,?7 ,<'>.' '17 ;5.'?1,?,6.'?'1'5.6' ;, '
/ 77>6' < .67' ?'6'>, 5.46.% & <''??5'4> 7%P'Q <-,=4.8'
' E 4 66'<78' 5''1' 6,<' .7' 5.6' ?1 <; ?.6'>.';.6' 01'-.6'
>.?47.6'>;6'; >.-'<7' ;, / / 4<.68' =4 ' < ,%<7Q' / ' 6

>.1 - >' >4' ;:. / <'>.'5''Q467 ;.' .7' >;'5'' 0.15>I'Q <M
-,=4.' 5.41' 1.4< ,<' ;.<71.' 4<' 6V67.1'.'?.17 >.' =<'
7.<>'' K .751.' 7,47' 5.' ?,4-, 1' .7' 5'' E 71..'>.'5''<'M
7 ,<'>'<6' 5.6' / ' <6'>4'1, ' .7'>.6' / < 671.68' =4 '5,41'
?.1 / .7'>.'>.66.;:.1' ''5.41' J1>' 5.'71>6,1' ?405 ;8' > '5 '
7>1.18' ?'1' >.6' 5, 6' E 6;'5.68' 5'' 5 0.17.' ; - 5.8' .7'>.'>.'
E'-,1 6.1' 5.6' 1.?1>6.<7'<76' >4' ?.4?5.8' =4 ,<' -,4 '
>1' 78Q.';1, 6871'<6E,1 / .1.<'66. / 05..>;6'<,7'05.6%
.' ;,<;546' '' ;.' =4.' 66. / 05>.' 1.Q.77.' '>> 5 ,<'
?1,?,6>.' '' '17 ;5.' '>.'5''6.;7 ,<' '>4';:'? 51.' %
& <''??5'4> 7' ''?546 .416' 1.?1 6.6% + ' <'>. / '4>.'
''55.1'4@' -, @%P
' ' .'>. / '4>.'=4.'5''> 6;466 ,<'6, 5'E.1'
/ ..% ,46'< '-,<6'E' 7'5'' 1.-,547 ,<'=4.'?,41' .71.'
/ ' 71.6'>.' / ?>78' .7'Q <- 7.'5.6' <. / 01.6>.6'; >.M
-'<7' ;, / / 4<.6' ''6 .<' 1.66,4-.< 1%
.6' / . / 01.6' >.' .@71. / 7.' J'4;:.'>. / '<>.<7'
'-.;' ;:'5.41' '' '55.1' '4@' -, @8' .7' <7.1?.55.<7' .'?1>'
6 >.<7'>.' / #771.''4@' -, @'5'' ?1,?,6 7 ,<'>.'E.1 / .1'5''
> 6;466 ,<%
' 'N <'-.47'<,46' '11';:.1'?'15 .55. / .<7'
<,71.'5 0.17.% %G
N % ' ' <''E' 7'5'' / ,7 ,<'>.'E.1 / .1'5''
> 6;466 ,<I % K.'4 / .70' '-' 5'5'' ?'1,5.%
% B2' .>. / '<>.'5''?'1,5.' 41';.77.' / , 8'
7 ,<'>.'E.1 / .1'5''> 6;466 ,<%
% ' 'I' .' / .56' '4@' -, @' 6 ' % K.'< '
.70'6.1'' .<7.<>'%
'3 'I' 66. / 05..'<.'>, 7'Q' / ' 6'>. 5 0>1;1'
641'>.6'=4.67 ,<6'=4 ' ,471'J.<7'466 '- ,5. / / .<7'5.6'
>.;1.768' 5.6' ?1 <; ?.6' .7' 5'' 5 5Q.17>% .'>. / '4>.'=4 ,<'
/ .77.' '4@% -, @'5''=4.67 ,<'>;'6'-, 1'6 '5''> 6;466 ,<'
6.1''E.1/ . %
66. / 05. .';,<64 >.'E.1 / .'5''> 6;466 ,<%
% .6 / . < .16>. / '<>.5''?'1,5.%
66. / 05..'>.#1E.7.'5'' ?1,?,6 7,<'>.' % K'1>1.%
' B2' -'<7'>.'6,4 / .771.' '' 66. / 05>.'
5.6' '17 ;5.6'>,<7'6.%6';, / 7.6' / ,<7' ?'17 ;45 .1. / .<7'
;,<E .'5.'1'??,178'Q.'>. / '<>.8' ?4 6=4 ,<'<.' / ''?'6'
?.1 / 6>.1.E47.1' % K'1.1.8' =4.' 6,<'> 6;,416' 6, 5'
/ ?1 / >%
66. / 05>.' ,1>,<<.' / ?1.66 ,<'>4'> 6.=416'>,'
%K'1.1.% $
1>. / '<>.' '4?1E.6' >.'5'' 71 04<.'=4.' % K'1>1.'
>.?,6.'6,<'> 6;,416' 1'5.'041.'4%
' 'N .';1, 6'=4.'5.6' / . <01.6'>.6';, / 7.6'
6;'1. / E;47' '66.0' >.' Q467 ;.' ?,41';1, 1.' =< 56'< ,<7%
?'6' ?546'5.'>1, 7>.'E' 1.'646?.;7.1' ;' / ''?1,0 7>'=4.'
/ ,1' ; - 6< .I ;.?.<>'<7'Q.';,<6.<6%'' >.?,6.1' / ,<'
> 6;,416' 641'5.'041.'4' N 5.' -, 5 %
' B 'I' % K'1.1.'>, 7' .?1.<>1.' 6,<'> 6M
.=416I'<,46'<.'?,4-,<6' 6,4EE1 1'5'' ?1,?,6 7 ,<' <Q4 '
1 . 6.=7 ' '' .7.'E' 7.% .6' ,1'7.416'>,<7' 66. / 05.;'
''E' 7' / ?1 / .1'5.6'> 6;,<16' ,47'7,4Q,416' .4' .'>1, 7'
> .<' 64 -1.' .4@' / > / .6' / ?1.66 ,<% .' >. / '<>.'
=4 'E <'=4.' % K'1.1.'<.' E'66.' '4;4<.' > EE ;457.'>.'
1.?1.<>1.' 6,<' > 6;,4168' 66.1'05..' 7. / , J<.' 5.'
/ ..,<7.<7. / .<7' =4 .55.' .?1,4-.' .<' ?'66'<7' '' ,1'
>1.'>4'Q,41'641'4<.' <>.;.47.' ?1,?,6 7 ,<% & <''?'
?5'4> 7%P
66. / 05&E.'?'66.' '' ,1>1.'>4'Q,41%
.6';<=' '17 ;5.6' 64 -'<76' 6,<7'>..1>7.6' 6'<6'> 6M
;466 ,<%

' (' ' ' ' ' ' '

W .6'>..1.76'>4';,1?6' >J 65'7 E8';,<;.1<'<7' >5'G
05 66. / .<78' 5'' ?1,1,J'7 ,<' .5' 5'' ?.1;.?7 ,<'>.I';'< '
71 047 ,<6' ?405 =4.68' ?,17.1,<7' 5.'<, / ' .7' <7 7 >.'
>.' 5, 68' .7' 6.1,<7'?1, / 45J4>6' .7' .@.;47. 6' 6'<6' .71;'
64Q.76' ''5''6'<;7 ,<% .';,1?6'5.J 65'7 E'<.'?,411'' <'
6.1. >'E 6';.6' >>;..76' '4.4<.'> 6?,6 7 ,<'>71'<J;1.'
:'5.41' ,0Q.7%Y

* ' 5WW ;8 31?6 ! !

' ' 9 ' G' .6' >Y<71 0< '
7 ,46' > 1.;7.68' 64?-.Q 7.1,<7' 5W ' >.< .16' ?1,-. '
?7' >.'7,47,6' E 6';,<71 047 ,<6' .7' 1.-;446' ?405 ;6'
>4<6' 41'7.11 7, E .% '6??'17 .<7' '4'?,4-, H'5.J 6'
5'5QE'>.'>.5.1 < 4;1'5.6' 1.J .6' '5.' / ,>.'>.' 416'
E, #7 ,<68' 7'<7641' 6',0Q.76'; >.6646'.@?1 / .6'=4.'
641'7,47.6' c.6''471;6'?'17 .6'>.' f '>/ < 671'7 ,<' <'
7. 1 .41.% % ' F

W 34'<7' ' @'>. ;1.76' ?,15'<7' >7'05 66. / .<7'> / '
?9768=4 '?1.6;1 1,<7'>.6'?. Q .6'471.6'=4.'>.6'?. ?.6'
?.;4 ' 1.68' 56' .1,<5'6,4 / 6' "5"6'<;7 ,<%Z

$ 17% 5.1% .'>1, 7'>.6'; 7,V.<6'>.'7.1 / <.1'>.E '
; 7 -. / ;<7' ; 716';,<7.67'7 ,<6'?'1'5"-, .'>.' '10 '
71'J.' .'?,<11'' 1.;.-, 1' '4;4<.' '77. <7.'?'1' 6'
';7.6'>4'?=4-, 1'5. J 65'7 E%
W5 % .6' 7 04<'4@<.'?,411,<7' 1.;. , 1' 4;4<.'
';7 ,<' '4' ; - 5' 6'<6' =4 5% 41'6, Q' Q4675 ' =4.'5.6'
?'17 .6',<7' ;, / ?'1<8' ,4' =4.'5.'>. / '<>.41' "; 7.'6"
?'17 .' '>-.16.'>.-'<7'>.6' / .> '7.4168'?, 1'?'1-.< 1'
"4<.';,<; 5 '7 ,<% Z

' '! ' !1

W '1/>= '>.'7.11.'.7'>.' / .18' .7' '71,4?.'>.67 '
<;.' "5" 6E51.5>' < 1 .4-.8' 6.<7' 6,4 / 6.6' " >.6'5, 6'
?'17 .45 .1.68' 6, 7' ?,41'5.' / ' <7 .<'>; 5" > 6; ?5 <.8'
6? 7' ?,41' 5" E,1 / .'>.6' Q4J.1'.<768' .7' 5" <'741.'>.6'
?. <.6'.<' , '7 .1.'>.'>.5 76' / 5 7' 1.6% $ '
41' 5" ?1,?,6 7 ,<'>.' % '1,;:.E,4;'45>8' 6'
6. / 05..'>. .1.7.' '>> 7 ,<<.55.1< .<7 '4' ?1. / .1'>.'
;.6' '17 ;5.6' =4.' 6' ?1,Q.76'>.'>. ;1.76' 6.1,<7' / ?1 % '
/ .6' " '-'<..8' .78' 6 405" ?1,?,6 7 ,<'>.' 8' H1. 7. '48'
=4.' 6'. E'76'>.6';,<71 047 ,<6' ?405 =4.6' 6.1,<7' / j'
?1 / .6' ;:'=4.' '<<>.% %
' f' #, / / .',<' ">. / '<>.'5"?'1,5.'
641' 1'15 ;5.'=4 ' 64 78' Q.'-' 68' '-'<'>.' '?1.6.<7.1'
" 66. / 05;.8'54 ' 5' 1.'?'17'>.6' / ,7 E6'>.'6.6';, / M
7.6% 76',<7'?.<6.'=4.8'5"5, '<.'>. 7/ 7.7'<.'?,4-'<7'
J'1' 5 1' '4@'. 7,V.<6' =4.' 416'>1, 76'. - 56' .7' ?,5 '
7 =4.68' 5. 'E,<;7 ,<6>.6' 5.J 6767.416'>.-' .<7'6.'0,1 '
<.1' "J'1'<7 1' '/ '1 'J.';, / / .'W<';,<71'7'; - 58' .7'
"5.'1.;,<<' 71.';, / / .' 4<' ;,<71'7'; - 5' 6.45. <.<7%
, ;' '17 ;5.N

! '') ' ' 3

W' '5,'<.'1.;,<<'57' ' / '1 'J.'=4.';, / / .';,<%'
71'7'; - 5% .'?,4-, 1'5. J 65'7 E.7'05 1"?,41'7,465.6'
:'0 7'<768' 6'<6'> 67 <;7 ,<8'5.' / ,>.'?'1' 5.=4.5' 6'
<' 66'<..68' / '<'J.6'.7'> ;.6' 6.1,<7' ;,<67'7. 68'.7' 5'
>.6 J<.16' 5.6',E5 ; .16' ?405 ;6' =4 ' .<'1.;.-1,<7' .7'
;,<6.1-.1,<5'Q.6' ';7.6% $
% ' ' ' ' <'-,46' ?1,?,6.'4 "
?1,Q.7'>.' >. .1.7'>,<7' '1.6457'78' . '>.1< .1.' '<'M
5V6.8' 64??,6.'5" 6.?'1'0 5 7.' >4' / '1 'J.8' .<71. 6'
;'5: ,5 =<.68' ;,<6 >>1.';, / / .';,<71'7' ; - 58' .7' >4'
/ '1 'J.'.,<6 >.1.'6,46'5.'1'??,17'>4'6';1. / .<7%
,46' ;.'>,405.'1'??,1785.6' ?'67.416'>.' J5 6.8' '
=4 6,<7'5.6' / < 671.6' >4' / '1 'J.8',47'>.4@' 5 71.6f'
56' 6,<7'>.6',E5 ; .16' ?405 ;6'.7' . - 568'>.?,6 7' 1.6'>.'
5" ;,=7 '<;.'>4' 6,4-.1' <8'?,4 '?1. 6 >;1" ';7.'
f5 6'.66.<7 .5'>.'5"6,; .7.'?,5 7 =4.8' .7'>.?47.6' ?'1'
'5,'>.' 7'7'?,41'.<'1.;.-, 1'5.'6.1 / .<7f 56' 6,<7'
'466 ' 5.6'> 6 ?.<6'7.416'>4' 6';1. / .<78' / < 671.6'>.'5"
1.5 J ,<% #.77.' / '1=4.'>.';,<5 '<;.8' ?1. . .46.'?,41'
5.6 ?'67.4 68' 5" 41'1.5 1.1.0 46Z 56' <.'6 .<' 6,<7'
?'6' 1.<>46' <> J<.68' .7Q ,6.'> 1.'=4 56' 71'-' 55.1 7'
> 6,1 / ' 6' .'5" / .VQ7.1'>.' ?546' .<' ?546% 5 ' 41' .67'
<. ;;%66' 1.'?,41' 5.'64;;>6' >.' 5.416' E,<;7 ,<68' .7' 5.'
64;;.6' >. 5.416' E,<.7 ,<68' .67' <6.?'1'05.' " '-.< 1'
>.;.54 '>.'-, 6 '-'4@' f -,46' >.-.0' E' 1.' :,<,1.1'
5.' 1' / < 67.1.';, / / .' 56' >, -.<7' >.'7,47' 5.7 1'<,4 '
-, 1' E' 1.'1.6?.;7.1'-,71.''47,1 7.'6,4-.1' <.% ,46'
6, / / .6' >;-.< 76' .<' =4.5=4.' 6,17.' -,71.',4-1'J.%

; ' "-,<6' :.6, <'>.'7,47' -,71.' ???4 8' _5-,<6' E -.S'
'466 ' '>.'7,47.'>,71.' <E5<.<;.7' <,<6>;-.<S'
;, / ?7.1' 65 1' 5" ?1,7.;7 ,<' >.' '47,1 7.' 6>;45 E.1.'
;, / / ..55.'>, 76.'1.?,6.1'6 1'<,71.;, 1.6?,<>'<;.'
/ ' 6' 5" 0'6.'>.' ;.77.' ;,<5 '<;.' 1.; ?1E / <.' 6.1' '
.01'< .8' ,4' >4' / ,1<6' .<6 05. / .<7' 'E ' 05 .8' 6'
>'<6' 5.6'; 1;,<67'<;.68' -,46' <,46?1 - .0'>.'7,46' '
/ ,V><6' 6'547' 1.6' =4.'<,46' '-,<6.46'.<71.'5.6' / ' <'
Q46=< ; '?,41' E' 1.'5.'0 .<8' .7' -,46' '77';:.1' 6'?.4'
? .6' =<.'<,46' '-,<6' " ;,<>4 1.' >'<6' 6' -, .6' >'
' <7' ?'1' 6' 5 .<6' >.'5" 1.5 J ,<f .7' -,46' 1 6=4.f'
> 47'<7' / , <6>.'-,46' .<' 1'??,17;1' "<,46' =4.8' SS$
>.5.6' "5"5, '>.'<,7E.' / < 67>1.8' <,46' <. .<'6.1,<6' =/'
?546' '77';:.6' "5"5, '>.% 7' 7' G .78' ?546' '< / >6' >1'
' <7' ' / ,41'>.'5"?'51 .8' <=4 ' < .<'E.1,<6' Q' / ' '
=4 4<' 46'J.'47 5.' "?'?1,6?>1 5.% #.7' ';;,1>' .<7<'
<,46' .7' -,46'. ''466'<.;.66' 1.'=4.'J7,1 .4@' .7' E'W
; ' " ,07.< 1% ,46' -.0' 0.6, <'>.'5"1.5 J ,<'?, /'
;,<6';1.1' .7' E' 1.' 0>< 1' >'<6' 7,46' 6';;.416' -,6 / N'
/ ,17.55.6',?.1'7 ,<6f 5" 1.5 J ,< " 0.6, =' >.'-,7<'
' '??4 '?,41' 1'55 .1' 7,46' 6';,<. 7,V.468' ?'1' 6.6' 64'
05 / .6' / ,7 E68' '4' 047;, / / 4<85" E>5 ; 7>>.5" ?'71 ;
,71.'>1, 78' >'<6' 5" =4.67 ,<'?'17 ;45 .1.'=<?' QW
71' 7..8' .67' <;,<7.67'05.f -,46'?,411.0' 7,<Q>416'.'
E' 1.'46'J.'=4'<>' 5' -,46' ?5' 1'8' =4'<>' -,46' -.11.'
>.6' '046' <> 6?.<6'0 ' '1>E,1 / .1' '#.77.' -, '
>'<6' .@.1; ;.'>.6' E,<.7Q,<6' / @7.6' =4.'<,46' .@.1'
J,<6' 641' ' / '1 'J.' '4'<, / '>.' J5 6.'.7'>.' '7'7'
"; 1;,<6?.;7 ,<8' '0. '.75" ;:'1 7.'=4.'<,46' '?'
?,17,1 6' >'<6' ;.' / < 67.1.' >>5 ;'7' - 46' 1.?,<>.7P'
>.'<,71.'7 >.5 7.8' >.'<,71.' . / ?1.66. / .<7' "5'-,1 6.'
6' -4.6' 6'J.6' =4 '<,46' '< / .<7% "? .7.8' >.Q"71,?'
0 >.'>'<6' ?546' > 4<.' /.'E >>5.8' <.'6.1" ?'6' '5'1'
< . .f 5" ?' @' >.' J5 6.'<.'6.1" ?546' ;, / ?1, / 6.'
,46' 6'-.0Y;.'=4.' 6' / '5:.416' >4' 7. / ?6' 54 ' ,<'
E' 7'?.1>1.' .<'1.6?.;7' .7' .<' ;,<6 >.1'7 ,<'>.'5"?'1'
>.6' ?.4?5.6f 5" 5, ' = ,<' -,46' ?1,?,6.' ';:>-.1' '
>'<6' ;.6'; 1;,<67'<;.6> 'JJ1'-.16"> 6J1 #.8' .7' H,'
;1,Q1% 7' =4.' -,46' '-.0' -,454' 5" ?4< 1' '-.;' >;5"
> '-, 1' 1>6 67>' =4.5=4.'7. / ?6' "5" 1>E,1 / .'=4.' -, P'
54 ' '-.0' / ?,6..8' 7'<> 6' =4.' -,46' <.%?4< 1 .0= / '
;.4@' =4 ' -,46',<7' >7>'6,4 / 6f .7' ;.77.'?4< 7 ,4'1.'
7, / 0.1' 7' 6?1' .5 ' .7' 641' -,46 / > / .6% ;1 / .57;'
=4 5' 6, 7> 7' 641';.7' / ?,17'<7' ,0Q.7' =4.'>.6' 1.?1>'
6.<7'7 ,<6' ?1.66'<7.68' / ' 6' / ?>.1>.6'.7' 1.64.;74.4'
6.68',<7' ,0 .<4' >.'-,468' .<'E'-.41>.' J5 6.8' >,<'
-,46' .67 1<.0' 6' 0,<6' / < 671.68' ..' =4.' ' J1.41'
5.6' <Q41.6' .7' 5" - -'; 7>'<.' / . 1 7.<7' ?'6' / >< .'> .6'
?.1.1% ,71.'J5, 1.'< V ?.1>1"1 .<85.6' 0,<6'; 7,V.<f'
.<' 6.1,<7' ;,<6,5. 68' ' / .6' ? .46.6' -,46' .<' 6.1,<'
?546' '77';:>%.68' .7' 5.6' / < 671.6% >.'5" 1.5 J ,<'-,4'
;,<6.1-.1,<5' 4<.' >7.1<.5E;'1.;,<<' 66'<;.%
>7'7; - 5'>.6' / '1 'J.6';,<71';7.6'?'1' 6'<,<'
;'70,5 =4.6'?.<7'>71.' ' 6. / .<7 1>J >'?'1' <.'5, '?'1'
7 ;45 .1.'.7' 6. / 05'0 ' "; .55.' >4' 1', 6' >.'<,-.1'0<'
()(%
<6 8' ?,41' / .'1. 64 / .18' Q.'>. / '<>6' =4.'E '17 ;5'
.<' =4.67 ,<'<.'6, 7' ?'6' ?5';.'>'<6' ';7.' ;,<67 74 '
7 , <.58' / ' 6' 'Q,41<>' ' 4<.' '471.' 5. J 65'741.8' .'
=4 "6" ?5';.' 56, 7>>;1>7>8' ?'1'E,1 / .'>.'1.J5. / .<7'
=4,'5.'?,4-, 1'5. J 65'7 E'>7'05 1" ,<' / ,>.8' ,=' ;,<'
6.1-.1"5.' / ,>.'>7'05 8' ?,41';,<67'7.1'5.6'<' 66'<..6'
/ '<'J.6'.7'>..>6'>.' ;.4@' =4 ' <.'?1,E.66.<5' ?'6' '
; >7.' ;'50,5 =4.8' >,<7'5" <'7 ,<' " / 6' 6' E1' 6' "
1'<J'>.'6.6' ?1. / .1.6' >>?.<6.6%
' # ' ' .'?1. ,? <'<5' <.'; ,<7.65.'?'6' '
E71 <; ?.f 6.45. / .<7 5' ?1>7.<>' =4 5' V%'41' 7'>.' <'
;,<-><.<7' ">7'05 1' .<';.' / , / .<74<<,4-.'4'<,>'
?,41';,<65'7;1'5.6' <' 66'<..68' 6' / '<'J.68' .7;%8%8'
1Q ,06.1-.'=4.';.'=4 ,<' ?1,?,6.'<.?1.Q J.'1 .'
6 1 ,< =4.'5.' / ,>.' =4 '6.1">7'05' ' 6.1" 6'<6' > 6M
7 <;7 ,<'?,<17,<6' 5.6'; 7,V.<6f ;.77.'5, ' < . / ? ;:7'
?'6' =4 ,<'<.'5' 66.';.6' E,<;7 ,<6' '* %,'& f'
;?;5.6 '67 = .6% V ' ((S% & C

aY _PZ 5 00 ' &' ' @ J ' 1 ' ' - '60' . ' /17/ '

c'

'8 '&7P%%

'1 6' C ' ' ,7 7 (* %

,<6 .41' 5.'1QJ / .<7 J4.'E' ' 1 7, <<. '1' >.' ; , / / '<G >-1'6 .67 > 67 <J4>'?'1' ,<.' ; ,<>4 7.' 11>?1, ; :'05.' .7 ;@. ?5' 1.'>.?4 76 >' ; , / / .<; . / .<7 >.'5' 1.-,547 ,<% 4;4< ,EE ; .1' < '=4 77>8 '4.<< ; :'66.41' < '>>6.17>8 '4;4< < ' >>' >'<6 5.' ; '6 >>71.' ; ,<J>> >% 4 / 5 .4 >.6 .?1.4-.6 6,4-.<7?< 05.6 6 ,<71. / ?5' ' -.' #,<67'<.' ; .7 ' - .'6 ,.' ;>6 5.416 >.- , 16 ; - 56 .75.<16 5,<;5 ,776 / 7 5' 1.6% .?4 6 % >@ ' ,6 ; .'1>J / .<7 < '?'6 E,41, ' > ,5E ; .16 64?.1 .416% '-' 6 .6?>1> =4.'5' <, / 01.46.' ?1, / ,7 ,<=4.' -,46 -.' 4.0>.'E' 1.'6.1' 75.' / , / .<7 ,>' 5 -.11' 7 6,<>>-,4. / .<7 1>., / ?.<6>'?'1' 4< ; :, @ ; ,<,1'05.' .7 / >1 7>% ' ' / 6 6,46 'V.4@ 5.6 7 71.6 >.' >.4@ '<; .<6 ; '?7' <.6% 4< 6.<>.?4 6 - <J7 =4'71.' '<68 .7 .67 >.6 J<> >.?4 6 5,<J' 7. / ?6'?'1'6.6 <6?. ; 7.416I '471.6.<> .?4 6V <J7 6.?7'<68 .7 ; , / / '<>,' >.?4 6 >.4@ '<6 ,< >>7' ; :, / .<7 >.' >.<7 ; <=4'< .' ; :.01'4@I ?5' ; > 6, ; :.66 -. / .<7 .< >EE>1 <76 ?,6 .68 >.?4 6'4< '< ' V,<8 '5 < ' .4' <'>5B;45>6 '-.' 5.6 '45,1 5>6 ; - 5.68 <'1.5>;0. / .<7 >'<6 5' > 6; ?5 <. / ' 5 7' 1.% .6J><>1'4@'4@,1>1.6 >.6=, .56 5 '6.1- 8 %#0, ' 6' .<51.' '471.68 6 .67 Q, <7 ' / , '?. 1' -,46 5.'1. ; , / / '<M >.1% V '?.<>.'Q,4168 Q.' - ,<6?'15' 6 >.6 >6?>1'<; .6=4;' -,46 / ' - .0 >, <..6 ?,41' 4=' ,< ?,41' '471.% .5 -,46 / .'1>?,<> 5.68 / ,<6 .41N $8 34, ' - ,46 <.' 5.6 ' - .0 ?, <7 W ,405 >68 / ' 6 =4.' -,46 < .< >5 .0?, <7.<; ,1.' '7.1 / ' G <>1' ; .7 ,0Q.7IY .75.'5.<>. / ' <Q ' '71,4->'=4.'5' <, / M <'7 ,< >7' 7 E' 7.' .7 =4 56 <V 6,<7 ?, <7 ; , / ?1 6%]' 6 >,47.8 / ,<6 .418 - ,46 <.' >.01.0 '4;4< ; , / ?5.'>.' - ,6 %;0, @ <'>4' / , / .<7 ,>' - ,46 5.6 '11>7.0I 5.' 6 5.< ; .8 =4' .67 - , 1.'>1, 78 71, / ?.1' 7 ; / .<>'<7 / , <6 =4 4<.' '66.1M 7 ,< ; ,<71' 1.' '< E' 7% '6 5,16=4 44 ,5 .E >.' ; ,1?6 8=<' <.'>. / '<>.?'6 ?,41' 4 8 <.'?.<7 ,07.< 1'5'0467.'1>; , / ' ?.<6.'>.6 0,<6 6.1- ; .6 1.<>46?'1'>.6 ,EE ; .16 >.' / >1'7.' 7 >, 7 6.'7.< 1'?, , 1' '-.17 8 .7 5' 66.1'5.' 6 <%>.'5.6 E' 1.' -65,51' 1 ; .4@ =4'Q,4 66.<7 >.' ?546 >.' ; 1>> 7 ?1 6 >4' / ' < 671.8 ,4'?1 6 >.' ; .4@ =4'5.'>>; >V<7%

'5J1>'?546 .416'?'66. >1, 76=4.'Q ' ?1,4->68 Q.' ; , / ?' 7' 68 .< / .'1.746'<7 '7,47 '-'<; . / / 78 J'1>.1' / '&>'; .' Q46=4 5' 7 <>.6 <=4 .74>.6 ?405 =4.6% '6.1- ' - <J5' 04 7 '<6IQ.'5' 6.'4< 1.J / .<7 ; , / ?5.7 .7 <7' ; 78 .7Q.' - ,46 .<>,<<.' / '>. / 66 ,<8

' 0,<<.41' > .71.8 .7;%

G ' ' ' & ' ' J >' *2 ,- , , , ., 8 (

] K H # KK ' H ' ' ! %

') '8 ' '4< ' ' '4' ' A'

8 &

K 667 1.(% - ,<68 <<0< ' / 8Q.'7 ' '?, <7 .<; ,1.'1.;4' >.' E'4@ '66 J<'76'- 5' .67 / > / .' / ?,66 05.'=4.'Q V 6, 6'Q' / ' 6 '71, / ?>I' .7 ?,41' -,46 71'<=4 55 6.1' .: ' 7 .1. / .<78 .' -,46 > 1' ' =4.'?.16,<<.8 ?'1 / 7 ; .5M 5,6 =4 ' / .<- 1,<<.<7 ,4' >.' =4 ' Q ' ' =4.5=4.' ?'- . / .<7 ' 7,4; :.18 <.'6'41' 7 / .' E' 1.'7, 17N ; .' =47 < .67 ?'6 / , <6 'J1.'05.8 . .67 =4.' ?,41' ; .5' 5 <.' / .< ; ,>7.' <'?. <.' < ' '1J.<7% .' / ,V.< >,<7Q.' / .'] .16 ?,41' / .771.' / ' 'E,174<.' ' '0< >.6 E1 ?,<6 P' E,41 / 55.<7 >'<6' '1 6' <.' >>?.<>'4;4<. / .<7 4 6.;1.7 =4.'Q .< .1' 6% .'?4 6 >,<.'5.' ; , / / 4< ' =4.1' 6'<6 1 6=4.6 ?,41' / , 8 .7 5.6 '471.6 ?,411,<7 . '?1,E 5.1'I ; '1' ; .' / ,V#< .67 ' 5' ?,17. .'>.' 7,47 5.' / ,7 >.% , >' .< =4, ' ; ,<6 67.' / ' <>7: ,>.8 .7 ; , / M / .<7 Q.' 64 6 ?'1-.<4' 64; ; .66 1. / .<7 ' '>,?7.1' ?,41'7,47.6 / .6 'EE' 1.6%

'<< .'>.1< 1.8Q.'?,17' ' ' / ' ,<<,7' 1.'5.'?.<>.' 1 ; :.66.6=4.'Q '-' 6 .<' / ' '?,66.66 ,<% , :' <7.<

&7P' / ?1.66 ,<>.' ; .77.'5.771.' ' '1.7'1>. .'>.'=<.5=<.6 Q,416 ?'1'5.6 <; .17 74>.6 '40=4.55.66,<7 ; ,<>' / '<..65.6>.' 7.1< <'7 ,<6 ?'17 ;45 1.' 6,4 / 6.6 '40>;5.1 / <'7 ,<'>.' :, / / .6 .< ?5' ; .% ' 8' % a%

7 ,<'>7' 7 >.'5.6>>?,6.1' ; : .054 I'>'<6' .6?>1'<,' >.'?,4-, 1'5.6'1.7 1.1' ' -,Q,<7 8'64'-'<7 / .6'0.6, a' #.7 ; , / / .'-.17'05. / .<7 ; , <>7.' / .'1.?,<> 7 '-.' E1'<; : 6.' =4 5' 6.' ?1>7.1' 7 - ,5,<7 .16' ' ; .' =4.'Q ?'1' 66' 6'> 6 1.18 6 5' '-' 7 5' ; .17 74>.'=4.' / , > ?>7 E>7 ; : .0' 4' ' '01'>.'7,47 - <. / .<78 .7=<' % ' E>7 ?,%66 05.8 6'<6'>.?.<6.' <'E,1 / '5 7.8 > . / ' ?5,V.1' / .6 E,<>6 '4@ ?'V. / .<76 > - .16' >,<7Q.' 7 E,41< 1' 6' ,1>1.% W '<6 .7'7 ?1.6.<7>.6'EE' 1.' ?405 =4.68 / 'Q,47' 7 58 Q.' 7 .' >, 6'1.?,<>1.' >' 1 .7' '471.'=4.'>.' / '?1,0 7>I' .55.' .67 ; ,<<4.I' / ' E,174<.' .67 .J'5. / .<7I / ' 6 ; .55. ; 8 7,47'6641 ' =4 .55.'6, 78 <.' / .'?.1 / .7'?'6 > ,EE1 1' ' / .6 ;5 .<7 4<.J'1'<7 . J'5.' ' 5' ; ,<E '<; .' =4 56 / .'7 / , ' J<.<7% '< V ' >'<6 '1 6 =4 4<' E'05 66. / .<7 ?4' 05 .'=4 ' / .'?'1' 66.' ?1,?1.' 7 E' 1.' ; .' =<.'-,46 '7 7.<> .0'>.' / , % #.7 .7'05 66. / .<7 .67 5' # ' 66.'> .6 ; ,47?7.8 =4 8 ?'1' 5' 1.4< ,< >.' > - .16' / ,V.<6 >' 641.7 8 .7 ?'1' ,1J'<6 77 , 1'>.' 6.6 041.'4@8 ?1.' 6.<7.' '4' ?405 ;'5.'?546'6EE1'>.6 > ?>768 .7'5' 'E'; 5 7 >.'E' 1.' > 67 <;7. / .<78'?,41'7.6 ?'17 .<5 .168 7,47 .6?.; .'>.'1. ; .77.6 .7'>.'?'V. / .<76%Y

% .'6< - 6'5.' ; ,<6. 5'>.' / ,< <,7' 1.'Q.' '?51>6.< 7' ' ' 5' # ' 66.'> .6; , / ?7.% ?1 'V' - , 1'?17]' ; ,< <' 66'<; .'>.6 / ,V.<6 . / ?5,V '?,41'6.' / .771.' 1 '01'>=' - ,5'.7>.'7 <; .<> .8 ?,41' ; , ,6.1-#1' ' ;E' ' =4.' <> - > ' =4 ' 71' 7.' '-.;' .55.'5.'6.;1.7 >EE '6.' ,?.1'7 ,<6I'V'<7 > ' 55.416''?71 6 =4.'5.';'? '>' ; .7 .7'05 66. / .<7 / ,<7.' 7 U ' / 55 ,<6>.'E, <6' .c' E.;7 E6=7 '6.1-.<7 >.' J'J.' ' '5' ; ,<E '<; .' >4' ?405 ;' Q.' < : .6 7' '?'6' '!'5' 66.1' / .6'E, >6% '6, / / .'=4' Q.'1. / 6' E47 <6; 1 7.8 .< / ' ?1.6.<; .8 641'5.6'1.J ' 71.6>.' 5' # ' 66.'> .6; , / ?7.I' ,< ,4-1 78 6,46 / ,' <,<8'0< ; , / ?7.'>.'1.; .77.' .7'>.'> ?.<6.% '5' 1.' ; .77.8 ,40 .<'7' ; 1.> 7'>.' ; .' ; , / ?7.8 ,< ' ?,17>' ,' E,<>6'=4.'Q ' ' - .16.6'> '0,1>8'?4 6 ; .4@ =4.'Q ' '64& ; .66 - . / .<7 .<- ,V>6% .' / c / .' ,< ' ?,17>' .< >' ?.<6.8<4' 0 . ' '<'>>0.7 >4' / I / . ; , / ?7.85.66,< / .6=4. ' '1.?1 6.6>.' / , 6 .< / , 6?,41' / ' > ?#<6 Q,41<'5 .1.%5 16= .'Q.' < ' '?4' / .' 71'<6?,17.1'2' ' ; ' 66.8 ,4' ?EE7'>'<7 =4.'Q.'6 / 6'1.67.' ' 5' ; ' / ?'J<.' Q' . , -,V.'4<.'?.16,<<, ' '-.; '4< / '<>'7 '< / , - .' >4=4.5' .55.' ' 7,4; : .' ' -4.'5.6 E,<>6'>,<7 1 ' -' 6 0.' 6, <% '' 46>' >.' 5' / > / .' - ,5.'?,41'.EE.; 74.1' ' ?'V. / .<76' =4 ' / ,<7 >7>'>. / '<>>6 ?'1' =4.5=4.' 5,41< 66.416' .7' ; 1.'<; .16% < >; : '<J.' 4.6' =4 7 7'<#.6 =4 56' / ,<7 >,<<>.68 Q.'5.41' ' ' 1.<5 6' 4' / '<>'7>.'?'1. 75.'6, / / .'641'5' # ' 66.'> 6., / ?7.' .7'E <>.' ?1>-.< 1' =4 5' <.' 6, 7 ?1.6.<7>' >.'E'7N / '<>'76 .< / ,< <, / 8Q.' / .'6.16 > 4<'?'? .1'=4.' ' # ' 66.'> .6; , / ?7.' / .'E,41< 7% #: '=4.'E.4 55.' .67>' 7' ; : . .'> 4<'1.J 671.' ,E7 1.67.<7 5.67'5, <68 .7 641' ,' 7'5,<6Q.'5' 66.' 4<.'?'17 .'>.' / '6 J<'741.8 >,<7' 641?546 >. / .41.'4' >,6 >.' ; : '=4.' / '<>'78 .<; 1' . / ?5,V>.' '4@'6 J<'741. < .67?'67,4Q,416'5' ' / > / .' < ' 5.' ; '1' ;5.1.'>.'1>;1 7 1.'>.'5' / > / .' J1,66. ' .6' / '<>'76'6,<7 <4 / ; 1,7>68 / ' 6 >'<6 4< ,1>1.' ; ,<- .< 7I .7 ; : '=4.'E, 6 =4.'Q.'>>5 -1.'4<' ,4'?54M 6 .416' / '<>'768Q .< >,<<.' ' - 6 ?'1'5.771.' '4'>1. ; ' 7. 1>.6' ; , / ?7.6' ; ,<1' 76% #.6 / .641.6 <.'6,<7?'6% 5.6'6.45.6'4@=4.55.6Q ' '1. ; ,416I' ; , / / .'Q.'?,17.'5' ' / .E ' ; .' '466' 5, < =4 5' .67 ?,66 05.8 Q ' ' ; ,<; .176' '-.;'5.'> 1.;7.41' 4<.'6>1 .'>.' 5.571.6 =4 ' <S.67 A' <4.'=4.'>.' 4' .7 >.' / ,c% #.77.'6>1 .'>, 7 ; '>1.1' '-.;' ; .5 .' <6; 1 7.'641'5.6'7'5, <6>.6' / '<>'768>.' / '47.1>' =4.' 5.' ?,17.41' >'4< / '<>'7 =4.5; ,<=4.8 1.= '>.' / , ' '4Q,41> : 4 8 ?'1' .@' / ?5.' >4' / '<>'7 5.771.' ' '<.'?.<7 ; ,<<'771.'5.' <4 / >1,'<'5' '5.771.'>55' / '<>'7 =4'6.1' '>>5 -1.' / / .> '5. / .<7'?1.6%

47 5 7.' =4.'Q ' '71, ->.'>'<6' / .6'?1. / .1.6'1.M 5'7 ,<6' '-.;'5' # ' 66.'> .6; , / ?7.' / ' .<J'J>' ' .' ; ,4 1' ; 7; 1' > 4< '471.G'J.<1.% '> / < 671'7 ,<

;;7 >7'05 66. / .<7 'V'<7 ;,?6.<7 '' E, 1.' 1.; -, 1
J1'74 7; / .<7 ?,41 / , 5.6 E.771_.6 >. ;:'<J.8 5.
0 55.76 '' ,1>1.8 5.6 ;,4?,<6 > <5.1576 .7 '471.6 ;E
E.76 '4 ?,17.41=4.Q '-' 6 Z<?,17.7.4 55.8Q. 1. / .76
'' 7'' #' 66. > .6;, / ?7. 7,46<5.6 .E .76 '<66 7>7 =4 56
/ . ?'11 .<<.<7 .5 =4.55. =4. 6, 5 5.41 .;:'<;.I 5'
<,7. .<_QJ7 ?,15.. '' / >< ;,< ?7. 5. Q,41 / / .>.
7.4-, I / ' 6 ;. < .67 =4 '?1.6 5. 1.;,4-1. / .<7
r?.1>>.6 .EE.76 =4. 5.41 <,<7'<7 .67 'Q,47. '4 ;1>
> 7>. / ,<;, / ?7.8.7 =4 5 / .>.- .<7 5 01.>. '?
?5 =4.1 '4@ ?'-. / .<76 =4.Q ' '' E' 1.% 471.E, 6 5.6
7,416.6 =4. <.;.66 7' 5 5'' 1.;.77. >. [.6 .EE.76 . /
?7,V' .<7 4<. ?.16,<<. >. / '' / ' 6,< ?.<>'<7 5''
?546 J1'<>. ?'17 . >4 Q,41I 6,4-.<7Q5 V '-' 5.1
1.41'' / ,<?1>Q4> ;.8 6'<6 =4 5 / .1.67 7>. / ,V.<
>. 5'' 1.;7 E .1% ''E'; 7 7. >. 5'' #' 66. > .6;, / ?7. / .
6'4-. '4Q,41> :4 >. ;.6 . / O'11'6I >. ?546 .55.
/ .- 7. 5'' .1' <7. >. 1,4-.1 >.E'4@ '66 J<'76 >'<6
5'' 1.;.77. E' 7. ?,41 / , 8 ,4 >. / .< -, 1 1.E46.1 >.
5'' ?'17 >. ;.<@ '' =4 Q. >, 6% #'1 -,46 6'41.08 / ,<
' / 8 =4 'V'<7 ' <6 ;,<E . '' 5'' #' 66. > .6;, / ?7. 5.
, < >. E' 1. / .6 1.;,<-1. / .<768 Q ' ?1 6 5. ?'17 >.
5'' ;:'1J.1 .J'5. / .<7 >. ?'V.1 5.6 O 55.76 .7 5.771. I
>. ;:'<J. =4.Q ' 6,46;1 5.6 ,< ';;.?7>.6I .< 6,17.
=4. 7'' #' 66. > .6;, / ?7. .67 >.-.<4. ?'1 5. E' 5 / ,<
-. 1 7'05. ;'E66 .18 / ' 6 4<;' 66 .1 =4 <. / . ;,E57.
.<8 > 4<. 6, > 7. 6'<6 . J'5.8 .7 >,<7 .@';7 74>.
<. 5']%6.'4;4<. <=4 .74>.% 8

,16=4.Q ' ';:.7> =4.5=4.6 .EE.76 <'7 ,<'4@ ,4
'471.6 '4 ?,15. 18 Q ' >,<<> '4 -.1 >.418 ?,41 5.
/ ,7 5?<7 >. 7 ';:'78 4< / '<>'7 641 5'' #' 66. > .6
#> / ? 8 =4 '' 1.;4 .7 E;,<6.1->8 '' 5 71. 7 . >.?978 5.6
.55.76 ';:.7.6% #.77. ,?.1'7 ,< <,4-.55. / '' >. -1.
>. . / O'11'6 .7 >.6 1 6=4.6>. J'1>.1 ;:.O / , >.6
.EE.76 64Q.76 '' ?.1 1 ?'1 5. -,5 ,4 ?'1 5. E.4I ?'1 5''
. / . 64 6 .<;,1. J'1'<7 > .< 1.;.-, 1 >. E'56 E .68
5.6 ;'1';7.1.6 >. 5'' '56 E ;'7 ,< .7'<7 6,4-.<7 '66.O
> EE ; 5.6 '' 6' 6 1 ?,41 =4. >.6 V.4@ .@.1.>6< V6, .<7
?'6 =4.5=4.E, 6 71, / ?.68 / / ..< V E' 6'<7 '77.<M
7 ,<% ,16=4. Q ' 1.-.<>4 5.6 / > / .6 .E7.768 / ,<
';=4>1.41 5.6 '' ?17 '' 5'' #' 66. > .6;, / ?7.8 641 4<
=1 51. >. >.5 -1'7 ;. =4. Q. '4 ' E,41< %

546 .<16 ?'17 ;45 .16 ,<7 64 - / ,: .@. / ?5.I .7
.67 '11 -. =4. 5'' ?<,?1 .7> >.6 / > / . .EE.76 '' 64;
;.66 -. / .717 ?'66. '' > EE>1.<7.6 ?.16,<<.6 6'<6 =4 5
V ' 7 . >. >. ?5';. / .<7% .47 >71. =4 4< Q,41 ;.
?1,;.>>8 >.-.<4 ?546 J><.1'58 ,,<6.1-.1' 7 '4 ?4M
O5 ; 5.6 '-'<7'J.6 >. 5'' ; 1.4 '7 ,< >.6 .E5.76 '4 ?,1
7.41 6'<654 E' 1. ;,41 1 5.6 >'<J.16 '4@=4.56 5. 4 6
?1,?1 .7' 1.6 ,<7 >7> .@?,6.6Q46=4 '' ;. Q,41% .47
>51. V 71,4-.1' 7 ,< .<;,1. 5. / ,V.< >. ?,4-, 1
E' 1. 5. ?5468 J1'<> <, / 01.>. ?'V. / .<76 6'<6 .6
?.;. / ,<<'V..6 .7 6'<6 '66 J<'768 .7 ;.5'' ?'1 4<
6 / ?5. - 1. / .<7 >'<6 5.6 ;, / ?7.6 >.6 ?% 17 ;4 .16
=< '41' .<7 / 6 5.416 E,<>6 .< >.?976 '' 5'' ;' 66.
;, / / 4<. .7 J><.1'5.%

/ .< ;,47.8 ?,41 5. >. ?97 ?.0>'<7 6 @ / , 68 ,4
?,41 5'' 1.-.<7. >.6 .EE.76 '4 ?,17.41 ' <6 >>?,6. 68
C 6,46 9 >.< .16 ?'1 5 -1.6I 1.71 047 ,< =4
<. ?.<7 .<71.1 .< O'5'<;. '-.; 5.6 ?; <;68 1 6=4.6 .7
. / O'11'6 >,<7Q. / . 71,4-. >.5 -1>%

,4Q,416 .1 71' ?. ?'1 5.>.6 1 > >71. 71'E =4 55.
641 / ''E,174<.8 Q ' .<J'J. 5'' #' 66. > .6;, <?7. ''
6. ;:'1J.1 >. 5'' ?.1;.?7 ,< >. / .6 1.<7.6 641 7'7%
,41;.5'' / .6 1.<7.6 ?.1?>74.55.6 ,<7 .7. 1.;,<67
74..6 '4% <, / >. 5'' #' 66. > .6;, / ?7.8 .7 Q. 54 ''
;.>. 5.6 1.<7.6 - 'J.1.6 ;1...6 641 4< <, / 01. >.
7>7.6 ;:, 6 .68>. / '< .1. =4. 5'' ?1,?1 .7V 5.J'5. >.6
5 <.6 .7 >.6 '471.6 .67 >7'05 . ?,41 5'' #' 66. > .6
;, / ?5.8 / ' 6 5'' ?1,?- .7. 1. .55. / .< .67 ;,<6.1-. .
'4 / ,V%.< > 4<. <6;1 ?7 ,< 641 6.6 5 -1.68 '=4.57.
<6;1 ?7 ,< ;,<7 .<7 5' <'741. .7 5'' =4,7 7. >. 1.<
7.6 ;.>.;6% '' #' 66. > .6;, / ?7. .< 1.J, 7 > 1.;
7. 4.<7 5.6 '11 1'J.6%'' ;:'=4. 6. / .671.8 .1.-,57

>J'5. / .<78 .< -.174 > 4<. ?1,;41'7 ,<?'15 ;45 ;1.
=4.Q.: '' 1. / 6.8 .7 '-.; 5.6 ;.17 5 ;'76 >. - . =4.
Q. 54 ' ' E,4< 6 7,46 5.6 6 @ / , 68 5.6 '11.1'J.6 >.6
1.<7.6 - 'J.1.6 ;,<67 74. .6 641 / '' 7.7.8 .7 >,<7Q ''
> EE.1. '' 54 71'<6?,17.1 5'%?1,?1 .7.%

,46 -,V.O >,<.8 / ,< ' / 8 =4. 5'' ?.1;.?7 ,< >.
/ .6 1.-.<46641 5'' <'7 ,< < .@ J. ?546>. / , '4
;4< . / O'11'6 < 6, <6% .< 6 / 6 =4 77. ?,41 .
1. / 6. >. ?,41 =4. 5'' #' 66. > .6;, / ?7. '' >.M
/ '<>6 '' ?1.5.-.1 641 5.6 '11.1'J.6 =4 .55. 1.;, 5
?,41 / ,< ;, / ?7.% #. >1, 7 >. ;, / / 66 ,< .67 ?,41
<>. / < 6.1 >.6 E1' 6 >. =4 77'<;.6 .7 / .<4.6 >.
?.<6.6 >,<7 .55. <. 1.;5' / . ?'6 5. 1. / O,416. / .<78
#. >. 6 <7.1.66. / .<7 >. 5'' ?'17 >. 5'' #' 66. > .6M
;, / ?7. ?,411'' -,46 .7,<<.18 ?'1;. =4 5 < .67 ?'6
;, / / 4< '4@ J7.<6 '' 'EE' 1.6I / ' 6 ;, / / . / , -,46
;.66.1.O > .71. 641?1 6 6 -,46 ,06.1-.O =4. ;.7 >7'
O5 66.1,.<7 1. / ?5 7 '' 7106 ?.4 >. E1' 6 5.6 ,?.1<7 ,<6
6. / O5'O5.%6 '' ;.55.6 >,<7Q. ?1,E 5. >.? 6 4< '<8 .7
=4. . .67 >'<6 47Q5 7. J.<.1'5.8 .7 .< ;,<;.<71' 7
.< ?, <7 5.6 ?'V. / .<76 .7 5.6 1#;.77.6 >.6 A)
5 67.6 .70' =4 .16 >. '1 68 =4. 1'> / 671'5 ,< >.
5'' #' 66. > .6;, / ?7. 71,4-.1'' 5. J.1 / . > 4<. J1'<>.
%?1,6?.1 7. .7 5'' O'6. >. 6'' >41..% %

.67 641 ;. ?1 <; ?. =4. Q. E,<># ' 6 .6?>1'<;.
> ' / .<.1 4< Q,41 5.6 '> / < 671'7.416 >. 5'' #' 66.
> .6;, / ?E. '' '-'<;.18 7,46 ;.4@ >.6 1.<7 .16 >.
E 7'7 =4 '41,<7 ;:.O .5 . 5.41 ;, / ?7. ;,41'<78 5.
6. / .671. .;:4 >. 5.41 1.<7.6 '466 7,7 ,4-.1541. >4
?'V. / .<5 '4 71.6,1 <'7 ,<'5 .7 '<<,<;. >. 5'' 5.771.
?.16,<<.55. 2 ;:';4< > .4@% . -, >1' 6 =4. 5'' / ,M
7 ,< .< E47 E' 7. '' 5'' ?1. / .1. '66. / O5. . J. <.1'5.8
>.6 ';7 ,<<' 1.6% . >.6 1.1' 6 .J'5. / .<7 =4 ,< ;,<
6.<7578 .< E'-.41 >.6 ?1,?1 >7' 1.6 >. 1.<7.6 71' 6
?,17..6 '' 5'' #' 66. > .6;, / ?7.8 '' 5.41 E' 1. '-'<;.8
6,46 .6;, / ?7.8 >.6 '11.1'J.6 '4 E 1.7 / .641.>.
5.41 >;:.'<;.8 ,4 O .< / , 6 ?'1 / , 68 '4 J1. >.6
1.<7 .16% #.77. / .641. <. ?.47 ;, / ?1, / .771. 5.6 <
7.1>76 >. .7'05 66. / .<78 .7 .55. 6.1' 7 '466 47 5.
=4. ;, / / ,>. ?,41 5. ?405 ;%

< / . 5 6'<7 -,46 -,46 7.6 ?. 71. > 7N '6 6
5.6 5 -1.6 >. 5'' #' 66. > .6;,Q??7. >7' .<7 ?.1>468 6
= .1=4.6 ;, / / 6 E1 ?,<6 E'56 E ' .<7 4< '17 ;5.8 = 3
>.- .<>1' 7 5'' E,174<. >. / ,< ' / Z '-' 6 .4 > '
O,1>5'' / .? . .1' <7.8 / ' 6 .55. '' .7. O .<7,7 > 66
?. .8 5,16=4. Q ' -4 >'<6 6.6 041. '4@ =4. ,< V 7.
<' 7 4< >,405. >.6 5 -1.6 >. >.?,78 .7 =4 4< .@. /
5' 1. >. ;:'=4. ?'17 . .7' 7 7,46 5.6 6, 16 71'<6E. 1.
,16 >. :>7.5I 5,16=4. Q ' '??1 6 .7 -.1 5 > =4.
;:'=4.'041.'4 6.17 >. ;,<71>5. '' 4< '471.8 .7 =4
/ , 6 > 4< ;,<;.17 4<'< / . >. E1 ?,<7 .1 . .<71.
7,46 5.6 ?1.?,6>68 .7 5' ;,<< -.<;. >.6 '> / < 671'M
7.416 '-.; .4@8 7,47. E'56 E ;'7 ,< .7' 7 / ?,66 O5.8
7,47. .11.41 .7'<7 <.;.66' 1. / .<7 1.;,<<4. >'<6 5''
Q,41<.. .7 1.;7 E . 6'<6 1.7'1>% '<6 ;.7 .7<O5 66;
/ .<7 4< =4.8 ?.16,<<. <. ?.47 =4 77.1 6,<?,67.8
?.16,<<. <. 6. 1.7 1. 5. 6, 18 =4. 5.0 5'< J.<.1'5
<. 6, 5E' 7 ;7 -.1 5 .% ,1>1. =4 V 1.J<. / '' ?'17
7;5 =4.8 6'7,46 5.6 'J.<76 -.< .<7 '' / ,41 1 5'' <4 78
5. ?405 ;'< 5.6 ';7 ,<<' 1.6 < '41' .<7 .<;,1. '' 1.
>,47.1 '4;4< 1.7'1> < . / O'11'6 >4<6 5.%6;, / ?7.6%

.6 1'??,176 =4 .@ 67.<7 >.? 6 ?546 > <<. '<<. .
.<71. / , .7 5'' #' 66?> .6;, / ?7. ?.4-.<7 <' 71. .<
71. .55. .7 ,:';4< >.6 :'O 7'<76 >. '16% .;1, 6
=4.8 6 ;.6 1'??,176 '-' .<7 >7. / .4@ .7 ?546 J. .
1'5. / .<7 ;,<<468 5 .67 ?.4 >. J.<6 '' 'EE' 1.68 ?.4
>. ;'? 7'5 67.68 ?.4 >. ?1,?1 .7' 1.6 - -'<7 >. %416
1.-.1 468 =4 8 >'<6 5.6; 1;,<67'<;.6 ';74.55.68 <.46
6.<7 .4 5'' ?14>.<;, >. 6 .< 6.1- 1I 5'6,, .7. .<7 .1.
V ,47 71,4->< '-' 57'J. ?1.; .4@ 7 ;.54 >. >.Q,4.1
5.6 E'466' 1.6% =4 71'-' 55.47 '-.; 7'47 > ';7 - 7. ''
<,46 < .18 <,46 '471.6 ?'71 ,7.6% #.6 E'4%\ 6'1.6
6.1' .<7 .4@ / / .6 O .?7 7 / <.68 ;5 E,1;%;F6 >.
?,17.1' 55.416 41E44.67. 7'5.<7I ;'18 <.?,4-'<

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C

>:,<< 7.'>,<7 .55.'E.1' 'Q''',; >7.8 .7 '4=4.7 .55.'>,<<.\ 1' 7 7,46 6.6 6, <6 55.' :.'>. / '<>.'=4.'5" 7'05.' .7 5.'5,J.' 1,.<7 '>1.6'.1' ' 4Q? 67 <8 '<';, <'>.'' 14.6 >4' ,45.' .7' ' '7\ ,K c 8 '<';'E.' '->

5.6 .71'<J;16 =4'>>6 1.1,<78 ' ,<>1.68 >.'Q,0 6 '?' ?'1 . / .<76 J'1< 68 >'<6 4<.' / ' 6,< E1'< ' 6.8 ,< 5]'6.1,<7 5,J,6 ;, / / ; / . 57 .7 ,< 6 ?,411,<7 6.' / .771.' .< ?.<6 ,< " 7 < ?1 '1' 6,<<'05.8 ?,411,<7 6 '>1.66.1' '4'<p C #:41; : 51..78 ' <7 << ' ' '' ,<>1.6 0d

.?4 6 5" ?1, / 45J'7 ,< U4'> ;1.7 >4' 'E.-1 .1'>.1< .1' =4Q ?;1 / .7 5" 5 01.';45741.8 E'01 ;'7 ,< .7 -.<7.'>.6 7'0';" .''H1'<;.8 5.6 ,EE ;5.16 .7 1.;.-.416 >.'1',; .<<.' / '<4E';M 741.'>.' E,<<.<68 1>J .'?'1'5" ; >.-'<7 E.1 / .'J.<.1'5.8 '6G ',;>6 " ; '?.1;:.' '5,.8 <.J,; '<78 .< ,47 .7'05' 4<.' " .41';, ?7.'?'1 ;4 .18 >'<"5,' / > / .'5 .48 >,<7 5.6 -.<7.6 6, 7 ;< ';7 - .'>.?4 6 >.<6 / , 6I 5" =4'5 7> >.6 / '7 .1.6 54' V 6,<7 E'01 =4>.6 .7 > 671 04..6 ,<7 ?1,;41.' 0.'4;,4? 5.'64;;.6 '';.'<,77-.5 >7'05 66. / .,7,' < V 71,4-.'7,47.6 ;6' ?.;.6 >.'7'0';6 .7 .'1,77.8 .< ?,4>1.' .7 .'E0 / .18 '4'?1 6 >.' '6,46 5" B-1.8 ?,E>6 >.' / '1;'>.' '. 6.',<;.68 ?10'2'5" E'' 01 =4. #.46 =4' E,1 / .<7 >.6 >. / ',>.]>G ' / 55 .1'Q,476' 6.<7 >G4<.' 0,<E ;'7 ,<'>.' '6,46 ?'1'5 -1. 7G.6 1. /].6 6.' E,,7 ?,41'5" -'5.41' >.6 .<-, 6 .< '66 J<'768 ,4'5.771.6 >.' .0'<J.8 2' 4<.'46'<;.'6.45.7<.,78 641' K,1>.'468 '1 6 ,4' ,45,46. 5.6 <>J,; '<768 '1 / '7.4168 .<71.?,6.416 ,4' >.0 7'<76=4' -, >1, 76G'??1,- 6 ,<<.1" ;.77.' / '<4E';741.8 6 '>1.66.1,37 " 77G .6E,41< .58 ><'1> .7 ;, / ?'J= .8 " ,<<. <6I 671,<-.1,<7 >'<6 ;.77.' E'01 =4.'5.6 '-'<7'J;6 .7 5.6 6,5'6 =4 ,< ?.47 6.' ?1, / .771.' >4<.' ,; .7.'>,<7 5.' ?1. / .1'047 6.1"7,4Q,416 ,.'6'7 6E' 1.';.46 =7>'54' ';;,1>.' 61,<7 5.41'.,<E '<;.

.6 ?,17.<16 >.'5.41.6 >.';:'<J.'7 / 01..6 '641 E.4' K'4>'1>'>.' ' <7.>' / .68 6,<7 <- 7.68 ,<;,<6.=4.<;.' >.6 '66. / 05..6 =4',7 7 .7.'7.<4.6 ;:.6 #:'4>,78 <,7' 1.8 2'6.' 1.4< 1'5.'Q.4>' 6.?7 / 01.' (* 8 =4'71;' :.41.6 >.' 1.5.->.'8 >'<6 5.';'0 <.7 >.' .6>6.8 '<; .<'-,;'7 \14.' >4' #:'4 / .8 '4' '1' 68 >8 Q?,41 6 '74.1'>>E / 7 -. / .<7 641' 'EE' 1.'=4'5.'' <7>1.66.

K.5 <8 5 01' 1.8 14.')' <7G ';=4.]8 >,<<.''-76 =4 5 - .<5 >.'?405 .1'5" >.1< .1.' 5 -1' 6,< >.'5" 6 @ . / ,' '<4;.>.' " 8 ' *1 ' / *'< ' < #,<6.=4.<;.8 7,46Q.6 '0,<,.6 =4',<7;:'<J.'> :'0 7'7 ,< .< ?1,- <;.' .7 >.'=4'1' 7 .1'2' '1 68 6'<6 .<'-, 1'> <<.''- 68 6,<7 ?B>6 >.'E' 1.'1.' 7 1.1'5.416 -1' 6,<6 >'<6 5.6 041.'4@ >.'?,67.6 >.' .41' '<G ; .<'>, / ;5. .6 6,46;1 ?7>416 _? ,<7 64 -';.7 ,4-1'J.' >, -.<7 '-, 1'1.=4') '-,54 / .6G #.4@ 5'=4' ' / '<=4.'=4.5' =4.6 -,54 / .68 ?,171' 768 .7;8 ,4 =4',<7 <.J5 > .41'0,<' <. / .<78 6,<7 ?1 .6 >W 6.';, / ?5.7.1'>G .''4' ' Q''-1.1' (] 8 >?,=4.'=4'6.1">.'7 J4.41' .7 '?1.6 5'=4.55.' ,< <.'?,=11" ?546 6.';, / Q 5>7.1 #:'=4.' -,54 / .'6.?'1.8 'B-W8 ;:'=4# '<' <>.' ' -8 ;7 5";,55.;7 ,< .<7 >1.''.') '-,54 / .68) '5 - '<<.'1.;.-1"?546 >'1J.<7 > '-'<.. ?,41'5" ;,<7 <4'7 ,< >.'5" 8 ' 221 ' ' < 5 5 645K7 ; .<-,V.1' E1'<;'>.'?,178 '4>7 K.5 <8 >G ;' '4'5 Q'<- .18 4< .<J'J.M / .<7 >.'?1.<>1.'5" 64 7.' .7 >.'?'V.1'5.6 5 -1' 6,<6 " / .6=1.' =4G.55.6 ?'1'571,<7 ! .7 .<J'J. / .<7 .67 > '47'<7 ?546 <.;.6G 6' 1.'=4.'5.'<, / 01.'>.6 .6. / ?5' 1.6 =4.' ,< 7 1.1"6.1" E @.' '' ;.74'>.6 6,4 / 66 ,<<' 1.68 .7 '4 ?.7 7 <, / 01.'> .@; / ?5' ' 1.6 =4'1.67.'>.' ;.77.' ;,55.;7 ,< <6 8 =4 .0<=4.' '41" <> ' J5 J.'>.<-,V.1'6,< .<J'J. / .<7 '4' GGQ'<- .1'?.1>1"7,47 .6?, 1'>.'?,4-, 1'6.';, / ?5.7.1

, ' ' V ' ' ' *

< 71,4-.''466';B.0K.5 <8 14.' ' <7 5'.=4.68 <W 98 E.@G 71' 7 '5?:'0.7 =4.'>.'7,46 5.6 >.;1.76 >.' 66. / 05;.' '7 ,M <'5.I ' -,54 / .' ,)G I '5 - ' 01, .0.8 .7 9 - ' 6W8 E1'<;'>.'?,178 ?'1'E,475.'1,V'4 / . ! .7 ,4-1'J.'>.- .<7 71>6G 47 5.' "7,47.6 5.6 ?.16,<<.6 =4',<7>.6Q,41<'4@ ' 5 .41'6#17 >.'7'05.6 ?,41'71,4-.1'5">'7.'> 4<>>G;1.7I 5 ?.<7 6.1- 1'>.' / '<4.5 >.6 >.;1.76 "7,47.6 c.6 , 4< ; ?'5 7.6 .7 >>?'17.' / .<768 =4',<7Q,41<.77. / .<7 0.6, <'>'-, 1'1.;,416 '4@>>' ;1.76

K ' ! "

% ' ' ' 1 ' ' '1 ' * ' '$ ' ' ( ) * 1 @ N U'5 - ' 6 ;:'=4.' -,54 / .' <) '>.' '?'J.6 ! :.0 5',;:.8 5 01' 1.8 14.'>.' 7 ;0.5 .'G ,10,<<.

#.77.';,55.;7 ,<8 > 6E <J4..'?'1'5.' ?405 ;'>.'7,47.6 ;.55.6 =4',<7 ?'148 .7 ?5';..''4@ '1;: -.6 >.' 66. / 05..'<'7 ,G <'5.8 " .7.' ?405 ..'>'0,1>' ?'1' 55 5.@'<>1. 55.' -.<7 > .71.'';=4 6.'?'1' 5'<;:.'8 5 01' 1.8 =47 6 .<J'J.'" .< E,41< 1'5" 64 7.'?'1'<4 / .1,6 >.'=4 <0.'E.4 55.68 >.=4 <0' 4.' .< =4 <0' <;8 E1'<;6 >.'?,178 >'<6 5.6 >.?'17. / .<76 '?'G 1' 5'';74.55. / .<7 6 @ -,54 / .68 >,<7 5.'?1 @ .67 >.'C(' 5 - .6 >.4@ -,54 / .6 =4'64 -1,<7 6.1,<7 >.' * 5 - I 5" 7'05.' .01,<, ' 5,J =4.'>.''5, 6 .7 ;;55.'>.6 / '7 .1.6 ?'1' ,1>1.' '5?:'0.77 + =4.' .<'1.<>.,7 5"1.;:.1;:.' .@51. / . / .<7 E'; 5.8 .7 ;,<71 G 04.<7 0.'4;,4? " 47 5 .'>.' ;.7 ,4-1'J. 5'<;:.' ?1, / .78 2'5" E< >.' 5" 5.J 65'741.8 >.4@ 7'05.6 J.<.1'7.6 641' ;.'1'. / .'?5'<8 '-.;'5.6 '>>7 ,<6 ,4 ;,11.;7 ,<6 =4'6.1,<7 E' 7.6 2' P' ;0'17.';,<67 747 ,<<.55.8 64 -',7 1'<<,,;.'=4. 5.@'<>1.'.< " E' 7.

"?1. / .1.'5 -1' 6,< >4'6.?7 . / .' -,54 / .'?'1'57 '4Q,41G >:4 G + ' / . / .'5 01' 1.8 ' <6'=4.' E ' 55'1>G ,1 1.55.8 5G 01'71.8 =4''>.6 4J467 <68 <W U 8 > 671 04.<7 5.6 ,4-1'J.6 64 -'<76N

'< A 1 A ' ') & '647' -'<7 5.6 <, / 6 >.6 ';7.6 .7 5 71.6 >.'?1,?1 .7.' .7 Q4J. / .< 6 =4' V 6,<7 64Q.76 1 @ N '5 - '6 8 E1'<;'>.'?,178 ?,41'7,47.' E" H1'<;. W

' ' 'F' ' '& ' 'F' . 1 ' 3 ' ,4 .E47'7 ,< ?,41'5.'6.1 / .<7 ;-=4.G 1 @ N '5 -8 '6 8 E1'<;'>.'?,178 ?,41'7,47 5.'1,V'4 / . V ,'8 ') 9 5 ?'1' 7 .<<.'K'14.5 1 @8 ?,41 7,47.'5"H1'<;.8 E1'<;'>.'?,178 Q - DG 2 * ' ?'1' '1 / '<> 1 @8 ?,41'7,47 5.'1,V'4 / .8 E1'<;'>.'?,178)'6,46

G ' 'F ' ' 2& ' ' ' . ' G5 -1' M 6,< ' '1 68 ;:.0 .>7.418 / .'>.' !,<>.8 <W (1 6 C '7 5.';': .18 E1'<;'>.'?,178 >'<6 7,46 5.6 >.?'17. / .<76G ! ; .' G5 -1' 6,<G;, / ? .7.'5.6 ' ' '< '-,5 I'5.6 F V ' E), & 5';.4@ >.'F' 'F A ' ' -,5 I'5.'7, / .' >.' 5' .'7, / .' G'>.'5" ' ' ' 2 ' ' : A' .7 5" 64 7.'>.'6.6 F ' '=4.' ,< -.<>'6.?'1. / .<7

' ' ' ' ' $ ' ?'1'4< >.'6." / . / 01.6 ';74.55. / .<7 " ,<>1.68 '-.;';.77.'.? J1'?:.

, '& ' 'H ' ' ' ' ' S '1 ' ! & 'f * 1 67,?: 8 @1 '';7 5\'6; < 1 @N '5 - * 6,46I 2' ,<>1.68 ;:.0 ! H ,167.18 5 M 01' 1.8 >'<6 5.' ,4571VI .7 '' '1 68 ;:.0 4> EE1.>8 !, / / 66 ,<<' 1;'.'5 01' 1 .8 14.' ,4?;.8 4D 8 .7 .6 / '1' _>'<>)'>.'<,4-.'47.6

.'6.;,<> 7, / .'>4 G ' ' ?'1'57 ';74.55. / .<7 #.' -,54 / .8 ;, / ?,6> >.' '?'J.68 ;,<7 .<7 5" 64 7.'>.'7,46 5.6 >.;1.76 1.<>46 641' 5" <,4-.55.',1J'<6'7 ,< >.6 71 04' <'4@.7 >.'5"Q467 ;.8 ' <6'=4.'7,46 ;.4@ 1.5'7 E6 '4@ 64?M ?1.66 ,<68 5 =4 >'7 ,<6 .7 1. / :, 16. / .<76 >.6 '<; .<6 ,5a;.6 >.'Q4> ;'741.8 '-.;' >;6 <,7.6 >.'1'??1,;:. / .<7 =4' .< E,<7 6.<7 1'5" 5'6,< .7 .<6. / 05. ' .67 7.1 / <.'?'1' 4<.' 7'05.''5?:'0.7 =4.'.7 1' 6,<<..'>.6 / '7 .1.6 ;,<7.<4.6 7'<7 >'<6 5.'?1. / .1'=4.'>'<6 ;.'6.;,<> -,54 / . '6.'71,4-.';:.0 '47.418 ?5';.' '4?: <.8 8 " '1 68 ;:.0 .7 78 '4 '5'6 ,V'58 J'5.1 .'>.';, 68 .7 ;:.0 GGG 5" -.4-.' ';:' ' ?.55.8 '4' '5'6 >.' 467 ;.G

!

'#,55.;7 ,<>;6?,171' 6>. 5.6 >.?47.6 =4'6.'6,<75.'?545 > 67 <J4.6 " 66. / 05..'<'7 ,<'5.8 >.66 <.6 > '?1.6 <'741.8 .7 J1'-.6 "5" / '< 1.' '<J5' 6. ' '1 68 ;:.0 .1 7.8 J1'-,18 14.'>.6 #,1>.5 .168 VZ * I" K,1>.'4@8 ;:.0 5G ,W J'<8 / '1;:'<>'> .67' / ?.68 14.'>4' #:'?.'4 ,4J. #.7;;,B.;7 ,"6.' ;,<7 <4.'7,4Q,416 '-.;' 64;;.6G .6 ?,171' 76 J1'V.6 6,<7 >.Q" '4'<, / 01.'>.';<=4'<7.G

[% $# ' 0' '

3.' 6 (' '6W 1 # /W h' ' ' ' '

D? 3 %

' 5 %'

'$ V&'E;C*' ! !' +' ;6' ; ,416' >.' ,<>1;6'
;7>.'K.15 < 9<&7.7 / <>' 5.4 6 J ,>' ,<68' 1.5'7 - . / .<7'
' 5" ?' @ '471.'5" 466 " 57 7. 57 , / '<.8 Œ.5,4
5.' -. ' >. / ? 1'5 ; .8 =4' "1' ,<519 >'<6 .6 ; ,<> '
%'7 ,<6 =4 .75.' " ?1 ,? ,6 . .6 '45'<7 >.'?14>.<;.'=4.'>.'E.1'
/ .7>% ' - ; . ;5 '<;.5 .1' ; , /7.'> 67.1 / '<< "E' 5' - .47'
5 .1' " 1.?,<6.'64 V'</.'I'
' <?>E'71 ; .' 'V4' ' - .,' <77? .<7 1.'6'7 6E' ;7 ,<8' 'W
/ ,V.<>4 / . / , 1.' 1.? 6' 'h ' / < 65 1.'5.' '&CCP >.' ;>
/ ,76'?'1'5.6' / < 651.6' >.' % % .6 1, 6' >.'5" !1'<>G'
K1.7'J<.' .7>.' 1466.8 =4? ; .6 ?1 < ; .61.<>. '?5. <. / .<7
0467 ; .' 7' 5" / ,>.1'7 ,< .7 7 1.=4 7.' >.6 ; ,<> 7 ,<6 =7 .'
% ' ! ' " ?1 ,? ,6 . .6 ? ,41' 6.1- 1' > ' ; . / '< . / .<7 .7 >.'
<,V. .' ' I ,<' ; ; , / / ,>. / .<7 ' - .,'5" ,17. 55 ,1, '<.8 .7
=4 .<#,<6.=4.<; .' 56' V.45.<7 0 .<6.' ; : '1J.1' >.'E' 1.'V' '
5, 1' ; .6 ; ,<> 7 ,<6 '4?1>6 >.' ; .77.>.1< E.1.8 .5' >.'7>; .1>.'
.6'E' 1.' ; ; .?7.1'>'<67 ,47.'5.41'?41.E.' .7 .7.<>4;% ,V'<7
>'<6 #.6 <7.<7 ,<6 >. .416>7.6 '0.67.Z 4<.'?'15' 7.'
; ,<E,1 / 7.' ' - . ' ; .55.6 =4.')% %'E% "E' 5 ; ,<<'551.' .55.'
/'# / .8 .55.' <.' <>J5 J.1" '6641. / .<7 '4;4<.' >.6 7'>5 7.6
077' ? ,411,<5 >.?.?>1.'> . 5.8 .7 =4 ? ,411,<7 ; ,<51 0<;1
' ' ; . /?7 66. <. 7 >4' 047 =4 ,' 6.' ?1 ,? ,6.8 '77.<>'<7
' - . ; '?457.<;.8 >.' ' / 7 ' .7>4' 0;5.' =4.' % % 01 '
7'<< =4.' .E ?1466 .<<.'54' 7. / , J<.<78 =4 .55.6 / .57 ,<5
>'<65.416' >. / '1;5 .6 ? ,41' >.7.1 / <.1'5" ,17.'7 ,47.' ; .'
7 - 7.' .7 7 ,47.' #<.1J .' =4 .@ J.<7 / ? ,15'<; .'>.' ,00.7
.7 5.' ?1 @ =4 .55.6 3' ,<7 ?' '4 '77' ; .1% 47 ; .' =4' ?.47
5.<>1.' .7 ; ,<#1 04.1' ' '< . .1' '4 ?546 7 ,7 47 .' ?546' 5,<J4.'
.EE46 ,<>. 6'<J ;4 / ' < 'EE. ;7'<7)% % %8' ; < / .'?'17 .'
47>1.6 .8 ?546 ?'17 ;45 .1. / .<7 .7 ?546 >1. ;5.' / .<7 =4 '4'
!4<.' '471.'?4 66'<; .8 ,<<.'6'41' 7 >,47.1'>.' . / ?1.66.'
/ .<7 =4 .55.' '41" >.'6' 6 1'5.' / , / .<7 ,4 .55.' ? ,411" 6'576
>'<J.1' .7 6'<6 <; ,<- . < ,<7 ; ,<- .< 1' > 44.'%646?.<6 ,<'
> ; ,67 5 5#68 '466 5 ,7 =4 .55.' 6.1" '6641. .'>.' ' ; =4 .6 ; .'
&4.<%5 ?'1' .5 6 / ?5.'>.'5" ?'17 >.6 41 ;6' '4@ 0'6.6 =4 ,<
5.41' ?1 ,? ,671'% <7.1-' 5.'>.'=4'71.' / , 68 ?1 ,? ,6.'>'<6
5.' / .< , 1.'>.6 / < 671.6 > <J5.5'1.' .7>.' 1466.8 .6'4<
7.1 / .' ?546 =4.'64E 6'<5 ? ,41' ' ; . .?5' ,< .7 '>; .6 ,<
>.6 41;6% <6'5" ; ,<E.;7 ,<>. ' ,4-1'J. >.'5" ?'@ >.'
?.<>1" 4< =4 .4 .<7>.'5" ,17. 57 , / '<.8 .7 7 ,47 >#5'E .7
7 ,<6' ,065'; .6 ' - . ; 5.416' ; ,<6.=4.<; .6 <.'6' 1' .<7 .71.'
'771 04.6 =4 .' .55.' 6.45.% #.?.<>'<7)% % %8' ; , /?5'<7
6 1' .6 6, <6 ;EE ; ' ; ;6 =4.' % %5.61?6 >.'5" !1'<>.'
K1.5'J<.' .5 >.' 1466.'6 <?,6.<7 ? ,41' > ,<?.1'4<.' ; .4'
1.46.' 664.' 7 5.41' .<71. / 6.8 6 .< E,1 / .'4W ?1E 6'J.'E' - ,'
1'05.8 .5 6.'E' 7 > ' '<; .'4< ? ' 6 1' >.'5.41' 7. / , J<.1'
; , / 0 .< 5' / 6.1" 'J1.'05.' >.N - , 18 >'<6' ' ; ; , / 7 66.'
/ .<7>.'6.6 - ,64@?,41' '?' @8 4<.' ; ; '6 ,<>.'5.41' >,<'
.1'4<.' <,4-. ' ?1.4-.' >.'6 ,< >#61' ; ,<67'<7>.' ;455 - .1'
5.41' ' / 7 ' .7 5.41' ; ,< '<; .%
" ' ' '<5 ?;7.16 P,41J18 ; .' 9'&C(P'04 55.7 (* 8Y

! %

'8 (' ' & ' " ,5,J<.' "H.J" 4<.' ; ,<65 '
7<7 ,< <,4-.55.' 6'<6 .< #?1,4-.1'>.' . ; ,466.6 - ,5.<5.68
.7?1.6=4.'6'<6 .EE,176' ; / / .' 6'<6 ,067' ; 5.6% "H1'<; .8
'< / 5 .4 >.6 ?546 J1'<>.6 'J 7'7 ,<68 >.6 ; ,<-456 ,<6 5;6
?546 ?#< 05.68 ' ; : # - .' .4% ; ' / , / .<7 4< >>E ; ' ; ,<67 74'
7 ,<<.5 >4<.' ,1>,<<'<; .' ?546 1>J4 #1.' .7 > 4<.' / '0.67#
?546 / ?,6'<7.% < 6,17 0 .< > EE.1.<7 '55.<>' 7 5.6 <E,1'
74<.6 .J. , 6%8 %.%?.K?5.8 =4' " / , 451>>4' ; 41'J.' .7>.6
54 / E.1.68 '?1#6 ' - , 1' > ;5 ,4# >'<6 5" 1. - ,547 ,< =4 5 "
7.<5#.8 " ?.1>47,47.' .6?.1'<; .1' 5'1. .0 7 '40 ,41>5 4'4<.'
' ; ,<67 747 ,< =4' < .67 ? , <7 6 ,< 37 -1'J.' ; , / / .' 4< ;5 >7 '
/ .<7 =4 '54 ' .67 <E5 J.%
, ' > 4<' ;7. ; ,E567 547 ,<<.5' >4 ' ' ,45 (* %
" 1' %' '0 ') % ,46 .<7.<>,<6 =4.'
?'1'5.671, 6 ! ' >.'<, 1.'?'V6' >.' J.' .7 ; ,<5.'>. ,6
56, 5 1. ; ,< / ' =4.'5.'?,4 , 1' >.'E' 1.' >.6 5, 6 .5 >.6 ,0'
$>,<<'<. .6 ? ,41' 5.' J,4-.1<. / .<5 .5 5" ?,5 ; .' >.' <,7-.' 0%,<%
?;4?5.8 ' <6E =4.' 5.' ?, , - , 1' > .<>6?.<6.18 <,46 '??'18

5 .<7 .7 < ,46' " 5,40,416' '??'17.<48 ; , / / .' 4 :' >.6 ; '476 8
1.J'5 .<6 .7 >.6' ' 1 5 456' ; '1' .7>1 6 5=4. ' <5 >1;<56' : 5"
6,4-.1' <;5#8 '77' ;5 #'4' 7.11 5, 1.'>.'<,71.' >J5 6.' .7 <? '
<,71.' ?1 < ; ?'4 .8 E .E / / .> '7 > " ' 4 / ?1# 1>'
/ ' <%' %
'8 " 5% ,46' < .<7.<>,<6?'6 =4.' ; .' ?,4-, 1' 6, 5' '06054' <'
/ 0 71' 1.8 / ' 6 0 .< 0,1<.8 ?1 ; .'?'5. / . 7 ?'1' 5.6' 5 6
J#<>1'5.6 >.' 5<? 1.' =4 5' <.' ?.<7 ; , :51'1 .18 .7 ?'1' .6
8 ' < ; 5'8 ?' @ 4 >6' ; ,<67 7475,<<. 5> E >4' ?'V68
=4 5 <.'?.<7 .<E1. <>1.%
W % 471.' ; .6 0,1<.6 ; '? 7'5.68 <,46 - ,45,<6 0 .<8 >.'
?5468 1. ; ,<<' 71.' .7 >. ;5'1.18 ? ,41' <,46 .7 <,6 64; ; .66.416'
.' ?.1?.54 7.8 =4.' <,46 <.' ?,<- ,<6 5 ' <.' ?,411,<60' / ' 6'
E' 1.'46'J.' >.' ; .' ?,4-, 1' 5.J 67'7 N8 E' 1.' > / '<.E <'5, '<'
,1>,<<'<; .8 E45 ; ' / . / .' < / '7E.1.'>.'?,5 ; .8 ' ?1.04M
> ; .'>.6 >1, 768 5 0.17?68 E1'<; : 6.68 ?1 - 5.J.6 1. .56 ;5'?.1 '
6,< .56 >.6' ; 7,V.<68 <' ' ; ,1>.1' '4;4< ; ,71, ' ' >6 .<6.6
>.' ; .6 5, 68 ?'1' >.6 ?1 - 5.J.6 .@;546 E68 =4.'5,16=4.'>.6
1' 6,<6 / '< E.67.6 > 45 5 7> ,4 >.' <. ; .66 5>?405 =4.' .@ '
J.1,<78 .7 =4.' ; .6 , ;71, 6, '?1 - 5.J.6 <.'00,1E.1??E' ' ;4?
?1.04> ; '4@ >1, 76' ' ; =4 6 >.6 ; E,V.<6%
W %'34.'6 8 ?'1' 17'>-.17'<; .8 6>1?B6.' ,<'<71. / .?78
<,46 - .< ,<68 <,46 , ' < 6 64; ; .66.416 U?.1?.74' .8 '<,46
. ; '17.1'>.' ; .77.' ,05 J'7 ,<8 <06.7'768 ' 7.<.=1' 'M' ?' @'>.'
H.@0.8 + ' ' ' ' & ' ' .E1? .8% +?< 66. 07
5,40,4168 ?'1' >.6 1.?1.6.<7'7 ,<6 ; ,<V.4'05.68 ' 5"
1'??.7.18 6'4E ' / ? 1. 8 =4' 5.6 ?1 <.>6 6.<7 E04?416 '
1.6?,<6'0 .6 >.' 46'J.' =4 56' E,<7 >.' 5.>16 ?04-7B 68 5"
>. ; 6 ,< >4 ; '68 ?'1' H4< ,4 '<71.>?%; .6 64?1 / .6 >8G
; '67.1.68 6' 5.' 6.<6 >4 ?'V68 =4.' <,46 E,1? ,?6 ' - . ; ' <,6
.7'768 <.'?,4-' 7 ?, <7 .< .71.' '<E. / .<.' > ' ; , ,1>%
W % ' ?5468 ? ,41' ?1. - .? 18 '45'<7 =4.' ? ,66 05.8 >.'
?'1. 55.6 ; , 7.65'5 f ,< 8.7 ?'1' 4<.'64 7.'>.' '?14>.<; .' <'
741.55.'=4.' .6 ?1 < ; .6 > , - .<7 <.E71.'>'<6 5.7 1' '> / < %
' ,<8 <,<6 - ,45,<6 0' .< <,46 .<J'J.18 ? ,41' <,46 .5'
<,6 64; ; .66.416' ' ?.1?>54 7>8 .7 ? ,41' 7 ,<6 5.6 ; '6 ,7'5;6
; 1 ; ,<67'<; .6<,46 5.'?.' / .571,<78 >.'<.'0' / ' 6 E' 1.'0<<\
<.1' '4;4<.' 5 ' ,4 ,1>,<<'<; .'& / . / ' < / '5 01.'>'?,M
5 ; .8 5,16=4 .55.' . / 01'66.1' 7 5" J.<?1'5 7.' >4 ? '068 ' - '<7 8
> , ' - , 1' ?1 6 ' - 6 >.'<,6 .7'76f .78 ? ,41' E,06 5.6 ; '6, '
5.6 ; 1 ; ,<67'<; .6 <,46 E,E ; ,1,<5 > .< 'J E '471. / .<78 <,46
6,4EE1 1.<6 =4.' 6 .7'768 '5.41' ?1. / .1.'66. / 05>.'&'H' 8
- .< 18 .??' / .' ?'1'5.' ?'66.8 5 V .< '41" '4 / , <6 4<.'
. ; '= ' '<< .P8 '?1E.6 . / '<'E ,<> 4 .5, '=4 ,1>,<<'<. "
6;< 05'05.8 ; , 6 E'66.<78 .? E,1 / .6 >4.6 .7 ; ,<- .<'05.68
7 ,47.6 5.61.? .6.?5'5 ,<6 =4 56 04J.1,<5' '?1,?,6 ?,41'5.'
?546 J1'74' 0 .< .71.8 ? ,41' ;@' ; 7 .7 <- ,E'05.' / ' <7 ;<
>.6 >1, 568 5 K.17.68 E1'<; : 6.6 .7 ?1 - 5 6 >.'<,6 6 ,0.768
=00.76 6'; ' 6 =4.'5.6 ?1 <; .6 <. ?.4-.<7 6.'> 6?.<6.1'> ' '
- , 1 ; <67' / / .<7 .< - 4.' >'<6 ;@.1; ' ; ' >.'7 ,<6 5.416'
?,4-, 16f 6'4E J'5. / .<7 ? ,41' ; '6 5 8 .7 5,16=4.'5;6
7'56 <.'?,411' . 7 ?, <7 .4 71.'4<'< / .<7>' ; ; ,1> .<'
71. .4@ .7' - .' <,468 > .< E' 1.'>. ; >.1 6, / / ' 1; / .<5 ?'1'
4< ,4 '471.'>.6 0'<76 > '65 1.6 >.%5 / ?1.%
" % < '77.<>'<7 ; .55.'>. ; 6 ,<8 .7 5,16=4. 5.6 71, 6
5'76 6.1, 7 4<'< / .<7 > ' . , 1> ' <,46 64??5 .1'>.' -?4'
5, 1 646?.<>1.'<,71.' ,1>,<<'<; .8 <,46 >.E.1.1,<6 '5.416
<67'<; .6f .5 5,16=4.'5.6 71, 6 >'56 <.'6.1,<7 ?'6 4<'77 '
/ .6 .7>' ; , 1> .<51.' .4@8 ^ ,1>,<<'<; .'6406 67.1" ?1, - '
6, 1. / .<78 046=4 ' ; =4.' H4< ,< H'471.'>.6 : '456 > ; ' '
5 1.6 646> 76 .< ' 7 ?1 6 6, / / ' 1. / .<7 ; ,<<' 66'<; .' .7
>>; > %
W 8 7 ? ,41' =4.' ; .75.' >>. 6 .< 6, / / ' 1.' '77. J<.'
?1.67. / .<5 6,< 047 >?<6 7,46 5.6 ; ' ' .55.' '41" 5 .48 ,<
6.'0,1<.1'8 ?,41'5" ?1, - ,=4.18 ' .<>7'05 1'5" =4.67 ,<&5.'
\ (E' ' - .'5.61' 6,<6 ? ,41' .7 ; < 1.8 =4 ,<6.'6.1"
>.'?'17 .5 > '471.'?1>' '05. / ;<5 . / / 4< =K '6 >.'0,<<.'
E, 8 ' <> .< ,07.< 1' ?1, / ?7. / .<7 4<.'>>. 6 ,48 6'<6 %6,>
1.'E,1 / .'<'E J41.'>.'?1?.>68 .76'<6 =4 5 ?4 66.' .<>> 1%'
<'1>- 6 ,<8 <'1.67 747 ,< =4.5 ; ,<=4.f 5.'5,47 '4@E1' 6' fD
5" ; ' 66.'?45> =4.8 .< ; ,<6 >.1'7 ,<>4 0 ,<' ; ; ,E>. >.'7'G
?' @?40 =4.8 ? ,41' 5.' / ' <5 .< .7 H'6641'<; .'>. '=4.55.'
?'1. 55.6 >>. 6 1 / 6 6.1,<77. / '<>.6% 'T'
Y 47% 8 8 ' !F *' & ' ! &)*
1 ' ' 'M' 4E ; , =4' ; , 6 .0 ?'1'E7'E, ' >>6 ,
<'7 ,<6 ;5 >.6 <- .6741.6 =4' '57.65.<78 =4 .< / ? 1.'EW

% F' ^ < V ' '.

U

?1,?1S 7 '>.67.11 7,71. ' .;;5 65'675=4.6 '??'17 .<7 .7''7,4\
0,416 '??'15.<4] 5.416 J5 6.Y1.6?.;7 -.6I \ '=4.' ;.6
>J5 6.6 &1.?1>6.<7>.6?'1'4<;5 .E8 '1;:.->=' ._4 >-.=4.'
?1 <;.8 .7?'1'>>6 / . / 01.68 .6 ;:'?71.6P6,7 75.6 -1' 6 .7
>J 5 / .6?1,?1 >7' 1.6 &.' ;.67.11 7, 1.68 .7 ?.4-.<7 .45."
.< > 6?,6.1 >J 7 / . [.?7 ?'1'>.6 ';7.6 >;'?1,?1 >7>8 7. 6
=4.' ;.4@ > '5 .<.18 >>;:'<J.1 .7 > :V?,7:>=4.1I <,46
.Y7.<>,< =4.Y >.'5"?'1'>.6 1, 6>7'76 > '?'V6 >. >J.'
.7 ;,/7>>.' ,,68 7 6, 71.;,<<4 =4.'5"?1,?1 >5> >4 7.1'
1 5, 1.'>4 ?'V6 >.'5"?1 <; ?'47>>.' 1 .'<,46 '??'17 .<7
.7 < 46"7,40, 16 ' '17.<48 "<,46 .7 '<,71.'>J5 6.8 .7
=4 "<,46 6.'56 5'?c '17 .<7 .7 " 7,40,416 '??'17.<4 > .<
> 6?,6.1 ?'1'>.6 ';7.6 >.' ?1,?1 .7> 7.56 =4.' ;. @ =4 ,<
- .<7 > ><,K;.1%
\ % <1>-'4;0.8 .7 641 ;.'=4 5 ;,<67.'>J'5. / .<7 =4.8
! , / / .' -'66'58 6 / ?5.' 464E14 7 .1 .7 '> / < 6 1'7.418 4<
>-E =4. ?1 <;.8 ?1,' ' .7 4< ;5 '? 51.8
1.67. 7 7,40, 16 ;, / ?7'05;68 .<-.16 .' 640.1' < .7 .<-;16
5.416 ?1,?1.6 ;;.66.4168 >.' ;@.1; ;.'>.' #.6 ';7.6 >.'
?1 , ?1 .7>I=4 .' > ' 55.416 056 <.' ?.4-.<7 0' / ' 68.7 .<
'4;4 ' ;'68 > 6?,6.1 >4 7.11 5, 1.'=4.' 641 ' /> / .' ? .> .7
> '<6 5,' / > ?> 6.<6 =4 56 5.'?,66>>.<78 .7 .<54 '1>6,1-'<78
'47'<7 =4.? 6 0 .8 5" ;<> 5 ,4 ?1 - 5>J .'>,<' 50,4 7I
+'=4 56 <.'?.4-.<7 7,4;.'.1 " ;,75.';,<> 7 ,<8 4 1 6=4.'
>.'5">>7>1 ,1.18 =4.'>'<6 >.6 ;'6 >.'E,1;.8 >.' >;.66 7.',4
> 47 5 7> / '0.41> .7 06 ,54.8 =<'?,, 11' .77 5 .@e .1I +'.7
=4 .<E < ;.6 ;'6 <.'?,411' .<7 J4>1.'> 1.' '66.@ 6>1. / ;<7
;,<67'7.6 6'<6 ' - 6?1>'5'05.'>.6> '56I <,46 .<7.<>,<6 .7
>>;5'1,<6 >.'<.' -,<5, 1'0' / ' 68 <,46 .7 <,6 64;;.66.416 0
?.1?>74 5>8 ?1, ;>>.1 > '>.6 ';7.6 >.' ?1,?1 >5>8 7.56 =4.'
;.4@ > '5 ><.18 > >;:'<J.1 ,4 > :V?,5:>=4.1 5.'7.11 5, 1.8
6'<6 '-, 1 ?1 7'05. / .<7 ;,<67'7>8 >.' '- 6 >.6 > '568 5.6
8;'6 > 'E,1;.8 >.' <>;.666 5> ,4 > 47 5 7> / '0.41.' =4 '?,41'
1' .<7 ' '<6 5 .@ J.18 6'41> .'5'7,4 '4@> '56 =4 '.1, 1" ;.<7
<.'?'6 ?,4V, 1 .<'>,<-.< 1 > .'E' 1.> / ?1=5.6 1.?1.'
'.<5'5 ,<6 ;,<-.<'05.6 ;,<71.'5" ,<5 1 / '5 ,<'>.';,6 ';7.68
=4 8 > .1>J5. <> 6?.<6'05.8 6,<7 7,40,416 6,0.76.7 >>?.<'
>'<56 >.' ;.77.'>,< 1 / '5 ,<%
.'#.'<.67 =4 .< -4.'>4<.'0467.' .5 0,<<> '> / < 671'M
7 ,<8 .< E'-.41 >.'<,6 0,<6 .5 >>5.6 640.568 .7 ?6715 .45 >G
1. / ;<7 ?,47 <,46 ?1>7.18 '47'<7 =4 5 '?4 >>?.<>1.'>.'
<,468 '0@ 5,4'05.6 .@:,17'7 ,<6 >4 64 ?1 .'71 04<'5 / '
% ?.1 '5 >.' .7@ '18 =4.8 >.' '- 6 > .'<,71.' ;'? 71.';'7:>'
>1'58 <,46 '-,<6 ;14 >.-, 1 ?1, ;>>.1 > 5" ?1>6.<7.'>>; 'G
1'7 ,<6,5.<<.55.I'4 ;,< .<4.7'4@> 6?,6 7 ,<6>.5'=4.55.'
<,6 > '568 '?1>6 5,<J4.6 .7 / >1.6 >>5 0>1'7 ,<68 'V'<7
4<'<1<. / .<7 '>0>1> ?'1'5.416 1..>6 .<> '7.'>.6 > .7)
>.';.' <,68 '-,?6 ,1>,<<> .7 ;, / / '<>>8 ;, / / .' <,46
,1>,<5,<6 .7 ;, / / '<>,<68 =4 .55.'6, 7 ?405 >..7 / 6.'.<
J'1>.'>.'5, 8 .<1.J 671>.8 / ?1 / >.8 'E ;:>.8 <6 <4>.'?'1%
5,,7 ,> 5 ;,<- .47I ?,41 =4.'7,46 .7 ;:';4<' .<7 > 5''
;,<<'71.8 > 6V>,<E,1 / .1 .7> 6.'1 5.1'>>6,1 / ' 6 .<;,<'
6>=,.<;.%
6 ,<<> .< ?51.';,<6. 5?1 ->8 5.' ' ' 7 (* %
$ & '#, 'a H'6 =, 6% \

' ' '

@ ' * ' ' ' ' * 4 ' +' %K';:.18
6.;1.7' 1.'>.' >J'7 ,<8 =4 '>7' 7;:'1J>'?'1 % ,<7 / ,1<
>.6 >>?>;:.6 ?, 15 >->=4.'>.'K'5.'>.'5"?'17>.' 66. / '
05>.' '5 ,<'5.8 .7 ?,41 .<>, / '<>.1 4<.'1>?,<6.;'7>J,'
1 =4.8 .67 '11 -> ;'> / '<.0 ,0 .< ;,<7.<7 .7 0 .<' ;# / '
?'J<>8 ;'1 5 '11 -' 7 .<;, / ?'J< .'>4 ;, / / 66' 1.'>.' %
% % > ,1.<714 8 '-.'4<.'>.;5'1'7 ,<>4 ?1 <;. >->=4.'
E,17'-'<7'J.46.'?,,1 5"<'7 ,<E1'<=' 6.I .78 .< ,471.8 5
.4 5" 6'7 6E';7 ,< =4. % >. ! 1. .<.JJ5 " '6641>8 '4
<, / '>.'6,< / '71.' . / ?.1.418 =4 5 < '11 -.1' 7 '4;4<
'<,4-.'4 1.<E,1'>.'71 , ,2 8 .7 =4.' ;.>.6 =4'>7' .<7 ';.'
k74.55. / .<7 >'<61>->;;> < V >7' .<7 =4.' ?,41 E'6 `1.7>
> 4<.'1>-,547 ,<8 .7 =4 .55.6 '-' .<7 ,1>1.'> 'J 1 6.5,<5.6
71' 7.6 '-.' .671,4?.6>.'5"<'7 ,<E1'4E' 6.8 '77>< >4 =4.'
% % % '??1>; ' 7 0.'4;,4?5" 0,<<.'0'1 / ,<.'-'-.;'5"
<'7 ,<E1'<E' .% .'/>/.' % >.' !1. EE.<.JJ%" '6641>=4.'
<,< 6..5. / .<7 6,< / ' 71.8 / ' 6 '<66 '5.1, '>.' 1466.8 =6
> .;7.416 > B'<,-1.' .7 >. '@.8 6 >7' .47 >>;5'1>6 E,1 <.5'
5. / .<7 >.' <.' ?1.<>1.' '4;0<.'?'17 ;,67 5.> 5" .B.
;,<67 747 ,< E1'4E' 6.I / ' 6'=4 ,< ;,<6. 55.1' 7 >.' ;.';47>
'4'1, ' >.6 H1'<;' 6 > ';;.?;1" ';7.';,<67 547 ,<<.58 .7
'4@> / J1'<76 >.'6 .< 1.7,41<.1 >'<6 5.'1,V'4 / .G .7 ;.5'%

>.'5" ?'17 >.' 66. / 05>.<'7 ,<'5..7>.6 <4< ; ?'5 7>6
1.6?.;5 -.68 .7 =4 56 >.-' .<7 '55.<>1.'>4 7. / ?6 .7 >.5
>1; ;<65'<;.6 ;'=4 ,< ?,411' 7.<;,1.'E' 1. .< 5.41E'-.<1%
+' F 'E >;<.1'?'1' 70 .<86.' ;,<>4 1.% .6 '1 67, ;1'7.6 <&
1' / .<7 ?'6% 5 ' E'47 .6?>1.1 =4.'5.6 'EE' 1.6 >.'5" 46B
E 1,<7'4J1>>.6 / '50. 1.4@ 7V1'<< 6>68 .7 =4.'5.';,<6;P
.'K.1<.'?1>7 .1.1"5">,4;.41 >5"6>->1 7> >'<6 5.'71'7,G
/ .<7>.6 > EE.1.<>6 >5.->6 >'<6 5.'?'V6 >. '4;

' ! 7 %

' +' .'C '>.';.' / , 68 ,<"E' 5 &5'66;1" " '54%
K%8 =4 ' .67 > <>6,18 5.6 >.?..0.6>.'6 1 ,0.17 411'VG
a. 7:'8 ' / 0'66'>.41 '4 ;,<J1>6 >.' .0 67, [I .5.6 <<7 >>G
'??,15>;6 ?'1 % 57 <8 ; .411 .1 >4 ;'0 <.78 =4 ' '1.G
?' >4 " ,4-.55.'>.'5"1'7 E ;'7 ,< >4 1' 5> >>E , 5 E>.'
?' @ .<71.' 471 ;:.' .5 5" ,17.% <'6641.'=4.'5,47.6 5.6
0'6.6 >.'5";.<-.<7 ,<>.' .;0.<0';0'V 6,<76;14?45.46.G
/ .<7 1.6?.;5..6%
<.'5.571.'>.% ,176 / ,4708 .< > '7.>4 ' , 78 '<<,<;.'
=4.'5.' / > / .'0,418 > / > 8 ' / 1'5 K,>>' / '.55.';, / / 6
6' 1.' '@7,<'-' .<7 1.Z4 >4 J,4-.1<. / . 7 4< .@?1>68
?,15.41 > ,1>1.6 ?,41 >>6'1 / .1 ?1, / ?7. / .<75" &5,75.% +'
,46 <.?<4- ,<6> 66 / 45.1=4.'> '471.6 5.771.6 >. / .<-.<7
;.77.'<,4-.55.% .<, / 01.>.6 -' 66.'4@ >.'J'1>.'.671.>< 7
>> @ 04 78 ;, / / .' .< '-' 7?1.66.<7 % << .< ;,<6.1-.1"
?'6 / , <6 5.';,/?5.5 >.'?' @ >.6 / '7.5,568 ?'1,'=4.' .<
6.'?1,?,6.'>.'7.< 1 ;.<7 <4.55. / .<7 .< ;, / / 66 ,< -<J7'
;7 = E1>J'5.68 ,471.'5.6 65,,?6 .5 '471.6 ?.7 76 0>7 / ;<568
?,41 <.55,V.1 5" '<;;.'>.6 ;,<51.0'<> .16 <, / 01.4@
=4 'E,<7 4< 7,17 ;,<6 > .1'05.' '4@ ?1,>4 56 >.' ';;6.%
% B,1<; ,,, .8 6 ;,<<4 ?'1 6"E' / .46.'?.5 7 ,<'4
?'15. / .<7 ;,<71.' 55.J'5 5>'>.' > .;7 ,<>.' .6 / <65.1
.7 5.6 -;.6 >.'5"1.?1.6.<7'7 ,<8 " ?7>6 >>8 5.' 6' / .>'C '
>.';.' / , 68 4<.'66. / 05>;'>5"7'-.1<.'>.'< A9 '
#.77.' ,;>5> " ?405 > 4<.' >1.66.'1. / '1=4'05.'?'1'6,<
><.1J .%
.'J1'<> 041V " >EE 04J.1 > '1 [; 8 .' / '1>'C 8 ,<0.'
>.6 ?1 <; ?'4@ ;,4?'05.6 >'?6 5" '>>7 ,<>.'K 1 / <J5 ' / %
+' 5 .67 '66.0 6 <J45 .1'=4 ,<<.'71,4-.?'1 / ';.6 / '50.4'
1.4@=4.'>.6 J.<6 E,170.4<.68 . .67 > >1.'>.?4 6 >J.'>.
6. 0.' '<6046=4 > - <J5 71, 6% .6 6.> >1' 6=4 5.6 .<7 / 6
.<,.4-1.'' -' .<70 .<;,6 '5.5.416 <6714 / .<76 >.'E'<'7 6 / .%
#.6,<7 ?1.6=4.'7,46 >.6,4-1 .16 =4.'5.41 J<,1'<;.'1.<'
>' 7 0 .< E';5.6> .J'1.18 ?4 6=4.'5" ?5 ?'17<.6'-.<7 <'
5 1.'<'>;1 1.% +' < ;1, 7 =4.' '47.41 >4 ?5';'1> <;.<'
> ' 1.'=4 ' "1.<>4 5" 0,41<. .'>4 U 04 55.7 6 >>6'6 1.46.'
?,41 5.6 <,< ;,<E,1 / 65.6 6 .67 1>E4J >.< H1'<;.%

) * + , +

' ')0P ' 4 ' +' .6 >EE5 J1>6 E1'<Z' 6 E,1'
/ .1,<7 ?546 .4165>J ,<6 >'<6 5.6 ?1,-<;.6 0.5J =4.6.5 ;<
55. / 'J<.% ,] ;, / / ; 76 5.6 >>6 J<.<7N >J ,< > :N
;5 .E8 % >.' " #0>71.7 7>J ,<>.' ,1 / 6N ;:.E8 % >.'
1'0.'<% .6 7>J ,<6 >.'#,05.<708 >.' ,<68 >.' 4@. / M
0,41J% <,<7 ?, <7 .<;,1.'>.';:.E6 >>6 J >6I / ' 6 7,45.6
;.6 5.J ,<6 .55.6 / . / .6 <,<7 ?, <7 >.'6, >'76%%% % # '4 '
1, ,<7 >. 'H,1;. ' <> ,678 > 7 ,<8 > #,05.<70%%% <E' 7
;'41 1 ;'5.'014 7 =4.'5.6 ?1 <;.6 6.1,<'6'0 .< 71' 7.6 ?'1
1 66; / 05>.'<'7 ,<'5.'>.'H1'<;.'&=4 8 ?'1 .@. / ?5.8 >, 7
?'V.1 5.416 >.75;68 .7;%8 .7;% P8 6 0 .< 71' 7>6 =4.'5" <,M
05.66.'E1'< ' 6.' '41"5">,45.41 >.'6 .< -, 1 '0'<>,<<>.%
'451.6 > 6.<7 =4.8 / .4@ 4<;.17' <'?'17 >.' 66. / 05>.'
<'7 ,<'5.'E.1"71' 5.1 5.6 ?1 <;.68 ?546 .416 57.66.6 6.1,<7
4EE.;5 ,<<>.6 .<-.16 5.6 J.<5 56:, / / .6 =4 8 > .4@6.4568
'41,<7?,417'<7 E' 771. / 05.1 5"<'7 ,<%

) $ % &

G ' ! ' ' +' ,46 .<J'J..<6 5.6 1>>';5.416
>4 ' > 5 1.'5" 5.751.'64 - '<7.I .55.'5.41
E.1"; ,<<' 71.';.6 01'-.6 / 5 5' 1.6 =4 56 ?. J<.<7 ;, / / .'
>.6 01 J'<>6 .5 >.6 6;>5 '56 <> 6; ?5 <.6%
(A%

W '<6 5" <4 7 >4 C ' '4 CU8 5.'E.4 ?1 7 '4 - 55'J.'>.'
,4;5 8 > ;<= 5 .4.6>.' .10.1 .% .; / ? E47>-.55.'?'1
>.6 6.<5 <.55.6 =4 ' '-' .<7 '?.1?< 5.6 E5' / / .6 > '<6 5.'
5, <7' <% < 4< <67'<7 =4'71.';,<76 ;, / / .6 6.'71,4->1.<7
641'? .> 5 56 '55' .<76. / .571.';< / '1;5 .'=4'<> 5.6,E5 ; .16

[illegible]

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[illegible]

G56'6, .<7' '66<0.7756 '> '<71.6E,J<.6', '' ,05 J' <6' =4.' 5.6' '471.6' ;1.'<; ;16'>.' 7'7f , , / / .' 66'6'<6'=<.86,46'?1.5.@7.'>.'5''?1` .<7.'> 6?,6 ' <8' 6'-. / 0,416. / .<76' 'E' 1.'4@'1.J 66.416'J> ' 1<4@'?4 66.<7'.?1,4-.1''4;4<.-.>4;7 ,11% % ,'N .' ; ,4 7>'>.6'1'??,1768'1.4<' '4' ; , ' 5>'>.6'7 <'<;.68' ,46'>. / '<>.'-,71.''47,1 6'7 ,<' 541' 6'>.?.<6.6' <> 6?.<6'0 6' ' .@.1; ..'>.'6.' ';7 ,<68' #.6' >>?.<6.6' ; ,<6 67.<7' ?1 <; ?'5. / .<7' <6' 61>; , / ?.<6.6=4 5'.67,05 J.'>.'>,1 / .1'?,41' ; 7.1 5.'0.5.'>.;.4@'=4 5', ; ,<?.' '5''?,4164 7.'>;6' 66' 1.6'> '66 J<'76' .5'471.6 0Q.76'>.'641-. 55'<;.' <5'-'<6' '-.0'?'17 ;45 .1. <.<7' ; :'1J.% #.77.8'>.M <6.' '. 'E' 7.Q46=4 ;'641' /'E,<>6'>.' 8 '5 -%' 5' '-' 7' .7.' E,41< 8' 16=4.'1 66. <05. .'6 .J.' 7' ; ,1.' ' .16' 55.68'?'1' % '0,1>.% #.'E, >6'.7'<7' 4 6.8'5.' ; , / 7.'>.6'7 <'<;.6'-,46'?1,?,6.' '?1, ' I>.'>>;1.764 -'<7N

W' .6' ; , / / 66' 1.6'>.' 5'' 71. 6,1.1 .'E,41< 1,<78' E'5.6>. / '<>.6'>4'; , / 7.'>.6'1'??,1768'01>,<<'<' .6'?'1'5.' / < 671.' >.' <7.1 .418' 5'' 6, / / .'>.' P8 '5 -%'

.'?1,Q.7'>.'>. ;1.E.65'>,?5>% .'71'-' 5'=4.' 66. / 05>.'-, 7' .<' ; .' , / .<7.<71.' / .6' / ' <6' ; ,<6 67.' .<'?546 .<16'7' ' 5.'4@' ; ,<7;<'<7' 6'E1' 6'>.'Q467 ; .8'> '> / < 671' ' '<.7' '471.68'>'<6' ; :'=4.'>.?'17. / .<78'> 671 ;7' .7' 4< ; ?'5 7.8' 7.56'=4 56' ,<7' .7.'>.;1.7.6' ?'1'7 6' / 05..'<'7 ?<' % %.' ; , / '>.6'7 <'<;.68'=4' / '' 5'1J>'>.' ; .'71'-' 58' '' ;14'=4.' ; .7' 7'4<'>, ;4 / .<7' N ' ''5' 66.1' '-,6'64; ; .66.4168' '4' / ,V.<'>4=4.5' ' ?,411'' E @.1'>.6' 0,1<.%6'%' @' >. ?'17. / .<76' .7' Q; ;4? ['7,4Q,<16'>; ' ; ,<, / .6% .'7,7'5'>.' ; .6' ?.<6.6<.' / ,<5.'?'6' '?546'>.' C / 55 ,<68'.7'.55.6' <5'6<6,.?7 05.6'> 4<.'1.>4;7 ,<' ; ,<6 >.1'05.8' ?'1' > / <47 ,<'>W'<, / 01.>.6> 671 ;76%

<''471.'71'-' 5'>,<7'5.' ; , / 7.' ; 6'E <'<;.6' / '' 5'1J.'.67' ; .54'> 4<'> .7 ,<<' 1.'>.'5''<,4-.55.'> ' 6 ,<>='1>V'4 / .%

K'<6' ; .8> .7 ,<<' 1.'Q '' <> =4>'5'' ?,6 7 ,<'>.' 45;6'5.6' - 55.]8'7'<7' '' .J'1>'>.'5'' ; '?7'7.'=4 ' J'1>'>.6''471.6'>.?'17. / .<768'.7'5.6'?,6 7 ,<6'>;6' K.1.<7.6' / 4< ; ?'5 7>6' .<71.' .55.6%' '5'' 64 7.'Q '' ' ; .'>.6'7'05.'4@'=4 '?1.6.<7.<7'>.6'-.6<57'76'=4' 6=4 ;'<'-' .<7?'6'>>' ; , / ?5.768'7'<7'641'5''?, ' 5'7 ,<'>.6'>.?'15. / .<768'> 671 ;76'.7' ; '<7,<68'=4.' ' '<, / 01.'>.6' . .7.416' .7'>.6' ; 7,V.<6' '.E 76%' P);.67'05.'4@' ,<7'?'14'47 5.6'?,41'1'>/ < 671' ' <8' .5'<.;.66' 1.6'?,41' ,6'64; ; .66.4168''4@'71' ' <@' >.6=4.56' -,46' ; ,<; ,<11.0' .<#,1.' ?'1' ; .' ,V.<%' , 1.' ; , / 7.'-,46'>. / '<>.' 6'-,46'-,4 0 [illegible],1>,<<.1' / ?1.66 ,<%

% ' o2 , ''-,<6'.@' / <.'5.67'05.'4@' .66.6' ?'1' % #.1<,<% #.'71'-' 5' .67' <7 < .<7' . , .4@% # .67' 4<.' .6?.;.'>.'01.- ' 1.8' 4<'1.6 / >' N7,47.6'5.6'0'6.6'=4.'-,46''-.0'>>.1.7>.6'1.5'7 - .' .<7' ' 1'><Q < 651'7 ,<'>4' 1,V'4 / .%' .'>. / '<>.' 5.' 66. / 05>.'-.4 55.'0 .<'.<' ,1>,<<.1' : ?1.6' / 8' / ' 6'=4.'5.' ; , / 7.'>.6'E <'<;.6'6, 7' ; :'1J.'>.' .<>1.''-.;'1 / ?1 / .41'>.' 66. / 05>.'>.6''11'<' / ><76'?,41'=4.' ; .77.' / ?1.66 ,<'<.'6, 7'?, <7'> 6' <> .46.%

'' ?1,?,6 7 ,<'>.' % .; ,47.45@'.67' 'E ,?7>% ' '# ,46''-.0'1.<-,V>' '' -,71.' ; , / 7>' 5 5' 1.'5''>.G,<; '7 ,<'=4.'5.' / < 671.'>.'5''J4.11.' 546' ''E' 7.'>.' <640,1> <'7 ,<' .7'>.'5''1.-,57.',4' 71?4-.<7' ?546 >416' 1>J / .<767' -,4 ' '-.0' .<' / .'7. / ?6' ; :'1J.'>.'-,46'?1.6.<7.1'6.6'- .6'641' ' / ,V.<6'>.'1.7'05 1'5''> 6; ?5 <.% # .67'5.'1>6457'7' 6,<'71'-' 5'=4.'Q.' - .<6'-,46'?1.6.<7.1%

' .67' ; .17' <\=4.'5''> 6; ?5 <.' ,4' <> 6; ?5 <.'>.' <<..'?.<7' <E 4.1' ; ,<6 >.1'05. / .<7'641'5.'6,17'>.' / ? 1.8' .7' 'EE.1 / 1' ,4' '<. '<7 1' 5'' Q0.17.% 7.6

.<71'E< 5,46' ('' ?'17E.'7E7' .7 7'?.<7 E 7 .' ?' ; '46.'>.Z ?1. / .16'71,405.6'>.' '17<>.% ' >?,=4.'>4' Z 'Q< ' 5.7'>.1< .18' ,46'-.0'1.<>4' 4<8'>.;1.7'?,17'<7'4<.' ' / < 67 .'J.<.1'7.'641'5.6'E' 56''<7.1 .416% #.77.' / .%8' 641.' < '' ?'6'?1,>4 77,47' . E.7=4.'-,46>.- .0.<' '75.<>1.% 546 .416' ; ,1?6'6.% 6,<7' -1.6'>.?4 68'6, 5' ?'1'4<.'64 7.'> <640,1;5 <'7 ,<' ; , / 1'.<; ..8'6, 7'?'1' >.'<,4-.'4@' / ,4-. / .<768' '' <> 6; ?5 <.' 5'' ?546' E ; : .46.%

.5'.67' 5.'1>J / .<7'> 4-.1J<.8' = ' '' ; :'66>'6;6A' ,EEQ; .168'=4'6 .67'71'<6E,11' . .<4<. , ; ; 5.'?'17 ;4' 5 .1.8'.7= '< ,0. 7'?546' ''1 .<% .6' (.' .7').'< J ' / .<76;4 7 <6457>5.416' ,E7 ; .168'.7' ,<78' ?'1'5'' 64 7.8' E1'<; : '7,47.6'5.6' : , / .6% <'5.'?S'0'7' 55,<'>4'E .' 1.J / .<78' ; >.-'<7'K.'4; .8' '?1.6''-, 1'>,<<.'>'<6' 5'' 71'-.16..8' .<' 1.-.<'<7'> / .1 =4.8'>;6'?1.4-.6' > 640,1> <'7E,<8'6 .67'>.?4 6'?,17.''4@'?546'J1'<>6' .@; .6% 55.416' <640,1> <'7 ,<' < .67'?'6'6'E,17.I' / ' 6' 5' .<'.@ 67.'>.6'J.1 <.6'< ; <' ; ' 76% .7'7'>.6' 71, 6'1. J / .<76'=4.'Q.' - .<6'>.' ; 7.1'?,4-' 7'>71.' ?'17 ;45 .1. / .<7'. ,<7'J .<@%

.' ; , / 7.' '' ?.<6.'=4 5'<.'?,4-' 7' 71.'=4.67 ,<' >.'?1.<>1.'>.6' / .641.6'?'17 ;45 .1.6I'=4.8 ,16=4.'.<' J. <.1'5' >.6' 1.J / .<76' .7' .<7'?'1-.<46''4'>.1< .1' >.J1.'> <> 6; ?5 <.8'5.6'1. / .>.6''4@' ; '6' ,1> <' 1.68' =4 ' -,46' 6.1,<7' ?1.6.<7.6' <..66' / / .<7' >'<6' 5.' ?1,Q.7'>.'5, ' 64V'5.6'>.076' / 5 7' 1.68'<.' ?,4-' .<7' 64E5 1.8' / ' 6' =< '5,16' '??'1. 5' .7' . / ?5, ' >.'5'' E,1; .'>.-.<' .<7' <> 6?.<6'05.6%

% # : '01,4>'?1,?,6.'4<'?1, .7'>.'>#;1.7.<'=4' ' 7,10.''17 ;5.6''V'<7'?, 51' ,0Q.7'> '47,1 6,1'5.6' ; , / M / '<>'<76'>.6'> - 6 ,<6' '' >. ?5,V.1' 5'' E,1; .''1 / .;' 7'<7'>.6'71,4?.6'>.' 5 J<.'=4.'>.6'J'1>.6' <'7 ,<'5.6' ; .<71.'5.6'1. J / .<76' . '1>-,57.8'> .5'05 1'5''?. <.'>.' <,17' ; ,<71.'5.6' ,55 ; .16' .7'6,46 ,E5 ; .16'8' .7' ; .55.'>.' - <J7''<6'>.' ; : ' <.' ; ,<71.'5.6'6,5>'76'= 8''?1.6' / .' 71, 6 . / .'?1, ;5' / '7 ,<8'?.16 67.1' .<7'>'<6'5''6.> M 7 ,<' f .7.<5 <'> '47,1Q6.1'5.6' ; ,416' / '17 '5.6' '?1, ' <,<; .1' '' ; ,<>'1<<'7 ,<' 641 5. ; : ' / ?8' * '?1.6'5.' ?1, ; .6 -.10'5'>.'71, 6' ,EE ; .16' ; , / / 6'?'1'5.' ; , / M / '<>'<7'>. 5''> - 6 ,<%

% 2 .>. / '<>. 'Q,41<. / .<7.7' / ?1.%6' 6 ,<'>4'1'??,17% <'-,46'?'15.'7, Q,416'>.Q <6 0' ,1> <'7 ,<'>.66,5>'56'.7Q' / ' 6,<'<.'-,46'?'15.'>.6' ; : .E6% <'<.'?.<6.'?'6' '-,46'?1,?,6.1'4<.' ' A' &1.'5.6' ,EE ; .16'=4'>. 6.17.<7% ' '' -,46' .<71.7.< 18' ?'1'.@. / ? .8' > 4<.'E,1<4>.'> .<J'J. / .47'. -,V.;' ?'1' ;' / < 671.'>.' 5''J4 .11.8' 5'=4.55.'?,17.%%% W .' 6,466 J<.' / .<J'J.' '' ' ' ' .'>.;5'1.'< '' - ,E1''<;4<. <5 1 / 7.'=4 ' / . / ? .>.6.1.71' ' ' .7' < >71.' .<J'J. >'<6''4; 4<.'K ,4?.' % Y , 5'' ; , / / .' ,<' .<J'J.% .6'71,4?.6'6,<7''4'1, 8'.7'?, <7' ''5'' <'7 ,<%%%% .'>. / '?>.' 'Q,414. / . 7'><'?1,Q.7' >.'>. .1.7'';74.58

' . o ' 'I' .'?1. ,? <'<7' '' 1' 6,<' =4'?> '> 7'=4 5'E'474<.' '471.' E,1 / 45.'> .<J<J. ' / .1 78' .7 5'V' ' : 4 7'Q,416'=4.'Q ''> 7'=4.'5.' ;4 5>' < 5 7' 1.6 , ; ;4?' 7> .; .E' ,0Q.78' ' 6'=4 .>.5''7,1' / 45.'>.6'01.-.768'.7;% ' <7.<'<7'Q.'>.;5'1.'=4.; ;' 6,<7'5.6' ,? < ,<6'?1. ,<; ..6'>'<6'>'-.16.6' ,; >5.68' .7?'17 ;45 .1. / .<7'>'<6'1 66.71 05. .'<'5 ,<'5.8'?'1' % .7 ,<'.7' ,0.6? E'11.8641'1'1 <..8'=4'54 ',47'E' 7' 5.'?546'J1'<>' / '5%&55'6 .5 -.'=4.5=4.6''??5'4> 66.%' / .<76.7'>.6' / 41 / 41.6%P' < '' 7, Q,416''1J4>'>.'5'' . ;5'1'7 ,<'>.6' 1, 768' >.' .J'5 7.'>.6' . 7>V. %68 '>'<6 4<',1>1.'>.' ; : ,6.6 ,E' 5' .67' ; .?.<>'<7'6'E'; 5.' >.'-, 1'=4.' .J'5 7.'<.?;45'.@ 67.1f ; .67' / >; ,<<'5' 71.'5.6'>1, 76'>.6' ; 7,V.<6'=4.'>.?'15.1'>'<6' ; .7' ,1M >1.'>.' . : ,6.6 ; '> .J' 7.% '1 / .' .67' <67 747.'?'1' 5''<'7 ,<' .7'?,41'.55.I'7,47' ; .'=4'.67'47 5.' '5''<'7 ,<' >, 7V'.71.' ,06.1-.% #, / / .<7'> ' 55.416'5''5 0.17.;7' >J'5 7.'6,<7 .55.6; , / ?'7 05.6''-.;'4<'.<J'J. <. Z 8'> ' -4' '??5'4> 1'4<'6,5>'E'> 6'<7'=4.8'641'5' ,<' '

<

5' 7'75.<,<;.15WE< < 671.'>.'5'' J4'11.'4'71 04<'5'>4'
@ .Q<.' '11,<> 66. / .<5' >.' '1 6% - '>., '<>.'6 5'
?.<7 .@ 67.1'>.'5''640,1> <'7 ,<'-.;'>.'?'1. 55.6'>. '
,,; '7 ,<6% # .67>'<6' <' / , / .<7 ,0'7,46'5.60,<
' ; 7,V.<6' J. / 66.<7 >.' .5'7 > <> 6; ?5 <.' ,0' 6.'
71,4-.<7?546 .416'1.J / .<768'5,16=4.'5.'6.;,<>'0'' '
7' 55,K'>.'K.'4;.'.67'?; 7'>' <;.<> .1'5'' 55.' ,0' 5'
;67' .<'J'1< 6,<8'5,16=4G,:'6.1''Q\.%45 1.' ,0 J>'>.'
E' 1.' / '1;:.1' >.6'71,4?.6' ;.<71.' 5'' J'1 6,<' >.'
:'560,41J8'5,16=4.'5''5,Q = 7.' .<'?1,?,6.' < .67
?.47 >51.'=4.'71,?'>,4;.'?,411#?1 / .1';.6' .@;.68'
=4.' % .7 ,<' .<7 ?1.<>1.'5''>.E.<6.'>;6'6,5>'76$
.'?4 6''6641.1'=4.'5''?54?'17'>.6' ,555; .16' <.' 6 .<'
-, 7'=4.'?'1;.'=4 56',<7 ?.41'> >71.'?.4>7 6'?'1'5. '
6,5>'76% .'?4 6''6641.1'=4.8'7,47.6'5.6'E, 6'=4.'5. '
6,5>'76' '41,1178' ;, / / .' 5.6' :,<<>7. ' ; 7,V.<6' >.'
K1 . #,< 7. ,0.1%78'>.6'>.E.<6.416'>'<6' 66. / 05. .8'
-,46< '41.0'?, <7'>.'640,1> <'7 ,<Q.7= .- 71.'1'
/ ..'6.1'' 5.' ?546' J1'<>8'E5>' % % ,;<' / 0.'4'<.'
?.47Q, 71'>.'6,<'1 / E.'6'-,46'<.?1.<.0>.6' / .64 '
1.6' ;.<71.' 71, 6' ;.<76'01 J'<>6'=<'6,<7'>'<6' '' ; M
7'>.55.'> 11'6% % 4 <.18'7,46'5.6'J>=.1'4@'>;1 '
-.<5'=4 56'<.'1.?,<>.<7'?546'>.'1 .<%
% ,0.6? .11.'E' 7'>.'5,<J6' . E,176' ?,41' ,07.< 1'
5'' ?'1,5.%
866. / 05..' >>; >.'=4.'5.'%?1,Q.7'>.' >>;1.7'?1.M
6.<76' ?'1' '#:'01,4>'6.1'' 7 / 4#> '7. / .<7 / 6' .<'
> 6;466 ,<%
'3 'N .'>. / '<>.'=4.'5.6' ;:.E6'6, .<7'>.M
;5'1.6'1.6?=<6'05.68' 4' <640,1> <'7 ,<'>.6 ;.1?68'
.7Q. / .@?5 =4.% .< '7 -<Q46=4 ;''4;4<;, / 7<'<%
>'<7 ?1.<>1.'5.'7,<'=4' ;,<- .<7 ''5'' ;:,6.% <' ,E'
; .1' <.'>, 7'?'6' ;1' <>1.'>.' ;, / ?1, / .771.'6'' - .'
5,16=4 5' 6 'J 7'>.' / ' <7.< 1'5'' > 6; ?5 <.8% ' E'47
=< '?1%.6' ' , 1'.?4 6.'5.6' / ,V.<6'>.'5''>,4;.41' 5' :.'
;1' J<.'?'68'>'<6'5.';'6'> 4 .' <640,1> <'7 ,<'> .7'
>..8'>.' ?1.<>1.'5.'?546' / 47 <' .7'>.'E' 1.'54 < . / .'
4<' .@. / ?5.% ,45.0 -,46' .<7.<>1.' 4<' 71' 7' > 4<'
>.6' :, / / .6'5.6'?546':4 / ' <6' .7'5.6'?546' .67 'P.]'?'1'
5.6' 71,4?.6' =: 5' ;, / / '<>' 7% <J7 ; 7=' / 5.'
:, / / .6' '-' .<7 / .<';.'5.' / 'E.;:'5'>.' '7 < >.'
?'66.1''4';' / ?'.<<. / '6',<'.@ J.' 7'=4 56'=4 77'6'
6.<74<..6?.;.>.';:'?.'4'>,<7',<'-,45' 7.:'<J.1'
5'' E,1 / .% +' % '4<8' % 5.' / '1.;:'5'>.' '6;V'
.7' .<7'> '- 6'>.'.>>.1f / ' 6' % '4>,<' 5. 41> 7N '
-,46;.>.0'4<.'E, 6'Z';.<@'=4',<7'5''E,1;.' .<' / ' <' 8'
-,46;.>.1.0'7,4Q,416% B '5 ''Z'5''7>7.>.'5''5 J .8'E 7'
, -1 1 4<.';' 66.'>.';:'?.'4@8' -'' '<'?1. / .1';'?, '
1'58' .7'54 ', >,<<.'>.5'' ?'17'>.'6'' 6,4-.1J <. ';'1'
'5,16' ,7' <.';,<<' 66' 7' ?'6'5.]' >1, 76'>.6'<'7 ,<6'
> '4Q,41> :4 %%%% & ''?'17 .>1, 7.'1 7%P' ' 6''4Q,41'
> :4'=4 ,<'5.6' ;,<<' 78G=4.'<.'E.1''?'6'4<.'5, '?,1'
7..'?'1'4<.'J1'<>.'<'7 ,<Z' 5' 54' ;, / / '<>.' >,<.8'
'4'<, / '>.'6'6,4-.1' <E.8'>.'?1.<>1.'4<';:'?.'4f'5.'
;'?,1'5'1.E46'N 5' 5.'74''f ' .<'74'' 4<' 6.;,<>f'5.'
71, 6 . / .'?B7'5.';:'?.'4% '1 / >.' .<7 .1.'5.'?1 78' .7'
1.<71' >'<6%5.';' / ?%3 4 ;,<=4.6.5 -1.' ''5'' ;'11 #1.''
/ 5 7' 1.'>, 76'-, 1'E' 1.'5.'6';1 E ;.'>.6'' - .'?,41'
5.' / ' <7 . '>.'5''> 6; ?5 <.% .'>. / '<>.'=<.'5.6'J.'
<.1'4@' .<' , .<7 1.6?,<6'05.68' / 'Q6'=4 '466'1,<'
/ .77.' .<' 5.416' / ' <6'7,<6' 5.6' / 0V.<6' <>#.66' 1.6'
?,41'E' 1.'1.6?.;7.1'5.41' '47,1 7>G
% , E7K N ''>.6' ,06.1-'7 ,<6'71.6 6 / '
?5.6'O'?1.6.<7.1% .'-' 6'?1, -.1''7,47'5.' / ,<>.'=4.'
B .6' ,? < ,<6'<.'7.<>.<7'?'6' '' .@; 7.1'>.6'71,405.6f
;'1Q.'> 6;47.1' 5''=4.67 ,<' > '?1.6'5.6' / / .6'?1 <'
;?.% ' =4' / ,<7 7,4Q,416' > 1 J.8' .7' Q.' ?1.E.1.1''
'1 / .'>4'1' 6,<<. / .<7 '' ;.55.'>.'5'' ;'5, / < .% '5.'
J1'<>' '??'1.Q5'>.'5'' E,1;.' .67'>'<J.1.4@8' . .67'641'
7,47' =4'<>' 5' .67' <47 5.% .'?.<6.'=4.'5''=4.67 ,<'
5 .'>, 7'?' '971.' 4J..'641'5.6'7.11.416'=4 7'=7 . 4.6'
?.1%_I,<<.6' ;:.1;:.<7 '' .@; 7.18' / ' 6'641'>;6'E' 76% .'
5 .'6' 6' 6' 7,<6 5.6'E' 56'=4 ,<'-,46' '' ; 7>6'6,<7'E'<@8'
/ ' 6'Q.'Q41.=4 5'V''0.'4;,4?'>;@'J. 1'7 ,<%

%GGGN .?'1 .1 .0 ,<6Z' 8' ' %
' ; ' 2' .67 5'?'6' -1''=4.-?< ';<Q71.G'
7.<.0'4<.';,11.6?,<>'<;.''-.;' '1 / .;Z' A 8
' ! ' .' ,;1.?,<>6'?'6' '' 4<.' <;45M
?'7 ,<'=4'< .6 7=4 4 4<.''66.17 ,<'1 > ;45.',4'4<.;' 8'
5, / < .''71,;.% .'> 1'' ' =4 5' 67' '06,54 / .<7'7' @5'
=4 5' V' ' 7'71, 6' ;.<76' 01 J'<>6'>'<6' 5'' ; 5'>.55.Q'
4 11'6% 8
% ' 'N '< .67'?'6'4<'E .6' ,EE ; .16'
>.'5'' J'1< 6,<' > 11'6' =4'<.' <.J'1>.'5.6' ;@;.6'>''
0'7' 55,<' >.' .'4;.';, / 77 .' ?1,?1.6' ' / .7E1.'7,<6'
5.6'1.J / .<768'.<1. -, .8'.7Q.'?1 . 66. / 05..>.'<,'
?'6' ;1, 1. % ,0.6? .11.% '
' ; 'N .'>.;5'1.'= .8'6' 5.6'=EE ; .16'
> 11'6'6,<7'>.' '- 6'>.' % ' / .5087,465.6' ; 7,V.<6'
/ ?'17 '4@'6,<7'> 4<' '- 6' ;,<71' 1.%
8 ; 'N .'>. / '<>.' '' ;5'1.-'1 66. / '
05..f 5' ;67'7. / ?6' .<7 <'=4.'5.6Q';7 .4@'<.' .J'1#<7
?546%
% ; ' '. 7'?,66 05.'=4.'5.6'71, 6' ;.<76'
6,5>'76'>.'K.'4;.'=<'6,<7'>'<6'5'' ; E'>.55.'> 11'6'
' .<7 / '<=4>''4'1.6?.;7'>4' ''5.41';:.Ef / ' 6'=4.5'
1>1.'5.41'>,<<' 7 ,<'Z;.54'>.'=4 77.1'5.'140'<'?' '
71 ,7 =4.% .6' . <. / 6'>.'5'';,<67 747 ,<',<7 '
?1,E 5.'>.';.' / ,4-. / .<7'?,41'E' 1.'>.';.6'6,5>'76'5.6'
<6714 / .<76'>.'5.416'?1,Q.76f / ' 6' 56',<5. 7.'>. <,<'
;.6'?'1'5.6'6,5>'76'. '' 1<> / .6' '4@'71 04<'4@8' .5'E''
?1,;.>41.'-'' .71.'.<-?V..'' 66. / 05>.'<'7 ,77'5.%
.'<.'-, 6'1 .7' 5'' >.>'<6'=4'<.;.66 7.'5.6' / .641.6'
.@71',1> <' 1.6'=4'-=46' ,47 ;7.'?1,?,6..6% ' <7. '
<'<7Q.'1.- .<6' ''5''=4.67 ,<% .'?.<6.'=4.' # .67 4<'
/ ,V.<'> .@; 7.1'5''6.> 7 ,<' .7'5'' 1.-,57.'=4.' > 'J 1'
;, / / .'6 5>.-' 7'V'-, 1'4<.6>> 7 ,<% .%?.<6.'=7 5'
.67' .@71 / . / .<7'>'<J.1.4@'>.' / ,<71.1'7,4Q,416'
'4@'71,4?.6'>.'5 J<.'5.6'J'1>.6'<'7 ,<'5.6';, / / .'
?1>7.6' '' / '1;:.1';,<71.%.5 .68' 'Q,47.'=4.'-%,6'5, 6'
? <'5;6' .1,<77,4Q,416 <;, / ? .7.65,16=4.' ,46'<.'
-.11.0'=4.'5.6' 6,5>'768' .7'Q' / ' 6'5.6' ;:.E6% .'>.M
/ '<>.' .<';,<6.=4.<;.'5''=4.67 ,<'?1>'5'05.% '
% . '' % 'N Q J<,1.'>'<6'=4.5' .7'7' .67' ';E4.55;%W
/ .<7'5.'6.;,<>'0'7' 55,=' >4' 1. JE / .<7'>.'K.'4;.f
/ ' 6' % K,45. K 1,<' .7' / , ' '-,<68' .7.' 7. / , Q6'
>'<6' <,71.'7,41<..'>.'5''>. 6,0. 66'4;.'5''?546'E,1'
/ .55.'>.'5'' ?'17'>.' ;.';,1?6' '4@' ,1>1.6'>.' % ,G
;:' / 0.'4% '.67' .17' <'=4.'5.6'6,5>'76' < ,<7'?'6'5.'
>1, 7'> 'Q,47.1'1 #:' ''5.41':'0 7'>.' ;.'=5 '< .67'?'6'
>'<6'14 E,1 / .8' % ,;:'1'0.'4'P.41' '-' 7'> 7'.<'
?1,?1.6'7.1 / .6f W ,46'<.'E .-.0'?'6' ?,17.1'7.'14 '
0'<' 41' :'0 7E?'1;.'=4 5'< .67'?'6'> ,1>,< '<;.f
-,71.' ?,;'1>.' E5 7f Q.' < .<' ?,17.' ?'6' > '451.%W
,46' ' ,<6'.4'?546 .416''471.6.@. / ?5.6>.' 4640'
,1>E<'7 ,<'>.' ;.'0'7' 55,<f ?546 .416'E, 6' 5.6' ,EE '
; .16' ,47 / '<=4>'>.'?.1>1.'5'' - .%%88'Q <6 67;'?,41'
=4.' 5.6' / ,V.<6'5.6'?546' ?1, / ?76'6, .<7 ?1 6' ?,41'
6'4-.1'5.6'>.01 6'>.' ;.'1.J / .<78' .7'?,41'E' 1.'?<'
< 1'5.6' ;,4?'05.6%
8
% 1 '?546 .416'E, %Q8'>'<6'4<.'1> < 0<'= 5'
6.'E' 7'5.6'6, 16' '5'' ;:'<;.55.1 .'>.'-,6',, / 77>6''-.;'
5.6' / < 671.68' 5.' / <5671.'>.' 5'' J4.11.'<,46' ''> '
=4 5' <.'?,4-' 7'6.';:'1J.1'> '4;4<.'1.6?,776'0 5 7.'
6',<'<.' 54'>, / ' 7'71.6 ?1,' ?7. / .<7'>.6' / ,V.46'
>.'E,1;.'?,41'1>7'05 1'5''> 6; ?5 <.8
66. / 05 .' E.1 / .' 5'' > 6;466 ,<8' .7' >>;107.' 7='
?1,Q.7?1. 6.<7>?'1 % #0'01, >G
Q-8' !! ' ,46' ',<<.1,<6' ;.'>.;1.7'>'<65.'?< / >1>'
>.>. / ' <%
_+' % 50.;=' .7' '17 <.'4'>. / '<>.<7'5.'1'?M
?,17'>4'>.;1.7'=4''47,1 6.'5.6'6,5>'76'!''66 65.1''4 '
6.'<;.6'?405 =4.6'E . ' ,; .7.6'>.6' / 6'>.'5''#,<67S'
747 ,<% ' Z 8
#.77.' / ,7 ,<'.67'1.<-,V.;''<';, / 7.' ? 7 7' 1.%
41'5''>. / '<>.'>.' 8'K1,67'1.78'E' 7.''4' 1 , K'
>.6' , , / 7.6' ;:'1J.6'>.'?1.6.<7.1'>.6' / ,V.< > .@.G
%.47 , '>V'>>;1.7'> ' ''E.5'7 E'VQ'??Q,05e F %

6; / 05>.ʿ 646?.<>ʿ 5.ʿ >>?'17ʿ >.6ʿ ;, / / 66' 1.6ʿ Q46 ʿ =4 '4ʿ / , / .<7ʿ ,4ʿ >.6ʿ / .641.6ʿ 457 1 .41.6ʿ '41,<7ʿ 9 ʿ>.;1 7..6%

"67'<;.ʿ.67ʿ5.-..ʿ>ʿ 71, 6ʿ: .41.6%

B ' ʿ ʿ ʿ ʿ ʿ ʿ ('f47<8ʿ ʿ ʿ 0=ʿ %

$ʿ 66. / 05 .<'7 ,<'5.8ʿ -,45'<7ʿ / .771.%6,46ʿ 5.6ʿ V.4@ʿ>.ʿ5"<'7 ,<ʿ5"6 74'7 ,<ʿ>.6ʿ'EE' 1.6ʿ ?405 =4.68ʿ ;<ʿ;.ʿ=4ʿ;,<;.1<.ʿ5.6ʿ Q .;.77.68ʿ> ?.<6.6ʿ.7ʿ'-'<;.6ʿ =4 .55.''45,1 6..6ʿ>.?4 6ʿ5.ʿ Wʿ '<- .1ʿ (* 8ʿ' <6ʿ =4,ʿ1 7'7ʿ>.ʿ5"ʿ>.77.ʿ<'7 ,<'5.8ʿ"ʿ> ;1.7.ʿ;;ʿ=4ʿ64 7Nʿ ʿ $ 17% W1%ʿ .6., / / 66' 1.6>.ʿ5"71.6,1.1 .ʿ<'7 ,M <'5.ʿ?1 6.<7.1,<S ʿ> ;ʿ'4ʿ ʿ6.?7. / 01.ʿ?1,;:' <8ʿ 4<ʿ> 'ʿ5ʿJ.<.1'5ʿ>.ʿ7,47.6ʿ1.;.77.6ʿ.7ʿ>.?.<6.68ʿ6'<6ʿ .@;.?7 ,<8ʿ=4ʿ,<7ʿ.4ʿ5 .4ʿ?.<>'<7ʿ '<4..ʿ (* 8ʿ.7ʿ Q46=4 '4ʿ5.16.?7. / 01.ʿ (* %

$! .7ʿ.5'7ʿ6.1"ʿ> - 6.8ʿ=4'7 7ʿ"5"1.;.77.8ʿ.<ʿ1.;.7M 7.6ʿ,1> <' 1.6ʿ.7ʿ.@71',1> <' 1.6%ʿ I

Wʿ '<6ʿ 5.6ʿ1.;.77.6ʿ,1> <' 1.6ʿ 6.1,<7ʿ;, / ?1 6.6ʿ 7,47.6ʿ5.6ʿ?'15 .6ʿ >4ʿ1.-.<"?40a;8ʿ7.55.6ʿ=4 .55.6ʿ ,<7.7 -.16..6ʿ?'1ʿ;:'=4. / , 6'4ʿ71 6,1ʿ<'7 ,<'5%

W '<6ʿ5.6ʿ1.;.77.6ʿ.@71',1> <' 1.6ʿ6.1,<7ʿ;, / ?1 6ʿ 7,46ʿ5.6ʿ1.;,4-1. / .<76ʿ> '11.1'J.68ʿ> <?,6 7 ,<68ʿ ;.4@ʿ>.6ʿ1.?1 6.6ʿ.7'471.6ʿ>.77.6ʿ';7 -.6ʿ>.ʿ 7'7I'5.ʿ ?1,>4 7ʿ>.6ʿ . / ?1<<76ʿ 7.56ʿ=4 56ʿ ,<7ʿ .7>ʿ -.16.6ʿ ;:'=4. / , 6'4ʿ71.6,1?405 ;%

$ʿ .7'7ʿ>.6ʿ>.?.<6.6ʿ6.1"ʿ> -56 ʿ.<ʿ>.?.<6.6ʿ,1> M <' 1.6ʿ.7ʿ.@71',1> <' 1.6%%

Wʿ '<6ʿ5.6ʿ>.?.<6.6ʿ,<5 <' 1.6ʿ6.1,<7ʿ;, / ?1 6.6ʿ 7,47.6ʿ;.55.6ʿ'11.7..68ʿ.7ʿ>,<7ʿ5.6ʿE,<>6ʿ6,<7ʿ'66 J<.6ʿ ?'1ʿ>.6ʿ.7'76ʿ>.ʿ> 671 047 ,<%ʿ

W '<6ʿ5.6ʿ>>?.<6.6ʿ.@71',1> <' 1.6ʿ6.1,<7ʿ;, / ?1 6ʿ 7,<6ʿ5.6ʿ ,0Q.76ʿ / ?1.-46ʿ';=4 77E.ʿ?'1ʿ>.6ʿ,1>1.6ʿ'> ʿ > 7 ,<<.568ʿ.7ʿ?,67.1 .416ʿ ʿ5" E@'7 ,<ʿ>.6ʿ>7'76ʿ>.ʿ > 671 047 ,<8ʿ= .55.ʿ=4.ʿ6, 5ʿ5" <'741.ʿ>.ʿ;.6ʿ>>?.<ʿ 6;68ʿ.7ʿ=4.55.6ʿ=4.6, .=7ʿ5.6ʿ?'17 .6ʿ?1.<'<7.6%

Wʿ '<6ʿ >7'7ʿJ.<.1'5ʿ' <6ʿ>1;66>ʿ6.1,<7ʿ '??.5.6ʿ ?'1ʿ,1>1.ʿ>.ʿ>'7.8ʿ .7ʿ?'1ʿ,1>1.ʿ>.ʿ1.;.77.ʿ.7ʿ=.ʿ>.ʿ ?.<6.8ʿ5.6ʿ>7'76ʿ?1,>4 76ʿ.7ʿ;.17E .6ʿ?'1ʿ5.6ʿ / < 671.6ʿ .7ʿ,1>,<<'7.416ʿ> ʿ71.6,1ʿ?405 ;ʿ=4ʿ,<7ʿ?1>;>>.ʿ5.6ʿ !, / / 66' 1.6ʿ';74.56ʿ>.ʿ5"71>6,1.1 .%

W55%ʿ >7'7J><.1'5ʿ>.61.;.77.6 ;7ʿ>.?.<6.68ʿ;.17 ʿ E.ʿ>.6ʿ;, / / 66' 1.6ʿ>.ʿ5"71>6,1.1 .8ʿ6.1"O'5'<;.8ʿ %=4'<7ʿ '4@ʿ>>?.<6.68ʿ ?'1ʿ 5.6ʿQ>7'76ʿ?'17 ;45 .16ʿ=4,ʿ 6.1"7.<4ʿ>.ʿ ?1,>4 1.ʿ.:'=4.ʿ ,1>,<<'7.<1ʿ>.6ʿ>.M ?.<6.6ʿ?405 =4.6ʿ ?,41ʿ ''<..ʿ (* 8ʿ .7ʿQ46=4 'Qʿ 5 1ʿ 6.?7. / 01.% (* Iʿ5.6> 76ʿ>7'76ʿ6.1,<7ʿ>Jʿ5. / .<7ʿ > - 6>6.<ʿ1.;.77.6ʿ.7ʿ>.?.<6.6ʿ,1> <' 1.6ʿ.7ʿ.@71',1M > <' 1.6%ʿ $

$ʿ % ʿ>'<6ʿ5.6ʿ>7'76E,41< 6 ?'1ʿ5.6ʿ,1>,<<'7.416 5ʿ.@ 67.ʿ>.6ʿ'17 ;5.6ʿ>.ʿ1.;.77.ʿ.@71',1> <' 1.8ʿ ?1, ʿ -.<'<7ʿ> '471.6ʿE,<>6ʿ?405 ;6ʿ=4.ʿ;.4@ʿ1. / 6ʿ?'1ʿ5.ʿ 71>6,1ʿ?405 ;8ʿ5.6> 76ʿ'17 ;5.6ʿ6.1,<7ʿ. / ?5,V>6ʿ?,41ʿ / . / , 1.ʿ6.45. / .<7%ʿ $

W % .6ʿ,1>,<<'7.416ʿ>.6ʿ> -.16ʿ6.1- ;.6ʿ<.ʿ6. ʿ 10<7ʿ7.<46ʿ>.ʿ;.17E .1ʿ=4.ʿ5.6ʿ>>?.<6.6ʿ.7ʿ1.;.77.6ʿ =4 56ʿ ,<7ʿ > 1 J..6Iʿ 56ʿ1'??.55.1,<78ʿ?,41ʿ5.6ʿJ.6ʿ 7 ,<6ʿ=4ʿ5.41ʿ6,<7ʿ>71'<J.1.68ʿ5.6ʿ>7'76ʿ>.ʿ6 74'7 ,<ʿ E,4-< 6ʿ?'15.416ʿ?1>>.;.66.416%

W % >7'7ʿJ.<.1'5ʿE,1 / >ʿ?'1ʿ5.6ʿ;, / / 66' 1.6ʿ>.ʿ 5"71>6,1.1 .6.1"-.1E >8ʿ=4'<7ʿ '4@ʿ1.;.77.68ʿ5,16ʿ>.ʿ 5"1.>> 7 ,<ʿ>.6ʿ;, / ?7.6ʿ?'17 ;45 .168ʿ?'1ʿ5.6ʿ1>;>1ʿ ? 66>6ʿE,7 1< 6ʿE4@ʿ > -.16ʿ1.;.-.416>.ʿ K7'7ʿ.7ʿ" 7,47.ʿ?'17 .ʿ?'Vʿ'<7.ʿ'4ʿ71>6,1ʿ?405 ;Iʿ5.> 7ʿ>7'7ʿ>.ʿ / .41.1"";.5ʿ.EE.7?>;.ʿ"5";:'1J.ʿ>>6ʿ;, / / 66' M 1.6ʿ>.ʿ5"71>6,1.1 .8ʿ5,16ʿ>.ʿ5"1.>> 7 ,<ʿ.7ʿQ4J. / .<7ʿ >.6ʿ;, / ?7.6ʿ>.ʿ.:'=4.ʿ1.;.-.41ʿ>.ʿ 7'78

W % .ʿ71>6,1 .1ʿ>.ʿ5";' 66.ʿ>.ʿ .@71',1> <' 1.ʿ ?1. 6.<7.1"6>?'1> / .<7ʿ4<ʿ>7'7ʿJ><>1'5ʿ>.ʿ7,47.6ʿ6.6ʿ 1.;.77.6ʿ .7ʿ>.?.<6.68ʿ.7ʿ ?'17 ;45 .1. / .<7ʿ>.6ʿ> EE>ʿ 1.<7.6ʿ6, / / .6ʿ> '66 J<'76ʿ=4ʿ54 ʿ,47ʿ>7ʿ>>5 -1>;6ʿ >.?4 6ʿ5"?1. / .1.ʿ>?,=4.ʿ>.ʿ5.41ʿ>EE5 66 ,<% . / ʿ ?5, ʿ>.6> 76%'66 J<'76ʿ6.1"ʿ> 67 <J4>ʿ(*ʿ-.16. / .<7ʿ'4

71>6,1ʿ?405 ;8ʿ.7ʿ . / ?5, ʿ 1' / >> '7ʿ.<ʿ1. / 0,416. ʿ <.<7> ,EE ;.68 <6;1 ?7 ,<8'11>1'J.6>.ʿ1.<7.ʿ.77,< ;ʿ '471.ʿ>.77.ʿ>.ʿ 7'7%

G$ .6ʿ=4'<7 7>6ʿ01E 5>.6ʿQ46=4 '4ʿ5.1ʿ6.?7. / 01.ʿ ?1,.0' <ʿ6.1,<7ʿ6?>. E >.6ʿ?'1ʿ>?,=4.%

ʿ ʿ "O'5'<;.ʿ>.6> 76ʿ>7'76ʿJ.<.1'4@ʿ.7?'17 ʿ ;45 .16ʿ6.1"'11>7>.ʿ'4;, / 7>ʿ>.ʿ5"71>6,1.1 .%

ʿ 555%ʿ >7'7ʿ>.ʿ5"ʿ>.77.ʿ?405 =4.ʿ6.1"ʿ>1.66>ʿ?'1ʿ 5.6ʿ;, / / 66' 1.6ʿ>.ʿ5" 71.6,1.1 .8ʿ.7ʿ;,1'?1.<>1'N ʿ5"ʿ>.77.ʿ;,<67 74>.IʿC_\%5"ʿ>.57.ʿ.@ J 05.ʿ?'1ʿ1.4 ʿ 0,416. / .<76ʿ"ʿ>?,=4.ʿE @.Iʿ _\ʿ5"6, / / .ʿ>.6ʿ1. / ʿ 0,416. / .<76ʿ=4ʿ>, -.<7ʿ6 ,?.1.1ʿ> '?1%>6ʿ5.6ʿ5 71.6ʿ .<1.J 671>6ʿ'4ʿ041.'4ʿ>.ʿ 5 =4 >'7 ,<Iʿ" .EE.7>.ʿ =4,ʿ5.ʿ;, / / 66' 1.ʿ5 =4 >'7.41ʿ.<ʿ1. / .771" >7'7ʿ" 5"71>6,1.1 .8ʿ.<ʿVʿ><,<;'<78ʿ?'1ʿ'??1,@ / '7 ,<8ʿ5.6ʿ ?'17 .6ʿ<,<ʿ-.1E >.6%

$ʿ "% 66. / 05>.ʿ<'7 ,<'5.ʿ>>;1>7.8ʿ;, / / .ʿ;, / ?5> / .<7ʿ '4ʿ7'05.'4ʿ J><>1'5ʿ >.6ʿ 'EE' 1.6ʿ?405 =4.68ʿ =4 5ʿ54ʿ6.1"?1>6.<5.ʿ?'1ʿ5.ʿ / < 671.ʿ>.6ʿ;,<71 04M 7 ,<6ʿ4<ʿ>7'7ʿ.@?,6 7Eʿ>.ʿ7,46ʿ5.6ʿ1.-.<46ʿ?405 ;6ʿ '4ʿ5W1ʿQ4 <ʿ (* 8ʿ4<ʿ>7'7ʿ>.ʿ1.;,4-1. / .<7ʿ"E' 1.8ʿ 6, 5ʿ641ʿ5.6ʿ;, / ?7'05.68ʿ6, 5ʿ641ʿ5.6ʿ?'17 .6ʿ'11 >1..6ʿ >.ʿ1.-.<,8ʿ>.ʿ5.41ʿ>>;1, 66'<;.ʿ" >?,=4.ʿ>.ʿ5"64IPʿ ?1.66 ,<ʿ>.ʿ;:';4<ʿ>.6ʿ / ?>76ʿ> 1.;76ʿ,4ʿ <> 1.;768ʿ .7ʿ>.ʿ5.411. / ?5ʿ;. / .<7ʿ" >?,=4.ʿ>.ʿ5"?.1;.?7 ,<ʿ >.6<,4-.'4@ʿ / ? 76=4ʿVʿ,<7ʿ> .ʿ64067 74>68ʿ' <6ʿ =4.ʿ>.6ʿ> / <47 ,<6=4 ,<7ʿ>?1,4-..6ʿ5.6ʿ;,<71 04'ʿ 05.6%ʿ

ʿ"% .6ʿ>7'76ʿ.7ʿ7'05.'4@ʿ,1>,<<.6ʿ?'1ʿ5.6ʿ'17 ;5.6ʿ ?1>..>.<76ʿ6.1,<7ʿ1. / 6ʿ" 5" 5.J 65'741.ʿ64 -'<7.8ʿ ?,41ʿ> 1.ʿ->1E >6ʿ.Eʿ1.?1>6.<5.6ʿ '4@ʿ;, / ?7'05.6ʿ ;, / / .ʿ?>.6ʿ"5.41ʿ;:'1J.8ʿ5,16ʿ>.ʿ5"1.>> 7 ,<ʿ>.6ʿ ;, / ?7.6%

Wʿ" % 66. / 05>.ʿ<'7 ,<'5.ʿ>.;1.7.ʿ=4.ʿ5"-. 55.ʿ >4ʿQ,41ʿ>.ʿ5";5>741.ʿ>.ʿ6.6ʿ6.'<;.68ʿ5ʿ6.1'8ʿ?'1ʿ6.6ʿ ;, / / 66' 1.68ʿ>1.66>ʿ?1,;.6 -.10'5ʿ>.ʿ >7'7ʿ>.ʿ5" ;' 66.ʿ<'7 ,<'5.ʿ.7ʿ>.ʿ;.55.ʿ>.ʿ1.@71',1> <' 1.Iʿ;ʿ =4.5ʿ ?1,.>6 -.10'7ʿ / ?1 / >ʿ .7ʿ1.<>4ʿ?405 ;ʿ6.1" 1. / 6ʿ.<ʿ,1 J <'5ʿ"5" >J 65'741.%$

ʿ !ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ ʿ

- ʿ % ʿ ʿ ʿ ʿ

Wʿ 17% 5.1%ʿ .ʿ71' 7. / .<7ʿ >.ʿ.:';4<ʿ>.6ʿ;, / / 6M 6' 1.6ʿ>.ʿ5"71>6,1.1 .ʿ<'7 ,<'5.ʿ6.1"E @>ʿ"5"6, / / .ʿ >.%%%8ʿ5'=4.55.ʿ;, / / .<;.1"";,41 1ʿ>4ʿQ,41>.ʿ5.41ʿ <, / <'7 ,<%

_ʿ % .6ʿ'??,Q<7. / .<76ʿ.7ʿ> / ,54 / .<76ʿE @.6ʿ>;ʿ ?1. / .16ʿ;,1, / 68ʿ> 1.;5.4168ʿ;' 66 .168ʿ?'V.4168ʿ ;,<71 5.4168ʿ;:.E68ʿ6,46 ;:.E68ʿ7.<. 16ʿ>.ʿ5 -1.8ʿ;,<M ; .1J.8ʿJ'1=,<6ʿ>.ʿ;= 66.ʿ.7ʿ>.ʿ041.'4@8ʿ?,17 .168ʿ.5ʿ 7,46ʿ'471.6ʿ=4ʿE,1 / .1,<7ʿ" '-.< 1ʿ5"; ,<6 67.<;.ʿ :'0 74.55.ʿ.7ʿ?.1 / '<.<7.ʿ>.ʿ5"71>6,1.1 .ʿ<'7 ,<'5.8ʿ 6.1?<7ʿE@>6ʿ'<<4.55. / .<7ʿ"5"6, / / .ʿ>.ʿ(UC8)Uʿ ʿ -1.68ʿ;,<E,1 / > / .<7ʿ '4@ʿ>.7' 56ʿ?,17.6ʿ>'<6ʿ >7'ʿ ; '<<.@>%ʿ $ ʿ %

$ʿ %ʿ ,411,<7ʿ.<ʿ ,471.ʿ5.6ʿ;, / / 66' 1.6ʿ>.ʿ5" 71>6,1.1 .ʿ> 671 0 1.18ʿ.:'=4.ʿ'<<..8ʿ '4@ʿ. / ?5,V.6ʿ >.6ʿJ1'>.6ʿ <E>1 .416ʿ'77';:>6ʿ" 5" 71>6,1.1 .ʿ4<.ʿ 6, / / .ʿ>.ʿCU8 ʿE -%ʿ.<ʿJ1'7 E ;'7 ,<68ʿVʿ;, / ?1 6ʿ5.ʿ 6.;1>7' 1.86'<6ʿ=4.ʿ5.6ʿ?1. / .16ʿ;, / / 68ʿ> 1.;7.416ʿ .7ʿ?'V.4168ʿ?4 66.<7ʿVʿ?'17 ; ?.1%

$ʿ %ʿ .6ʿ'??, <7. / .<768ʿ71' 5. / .<76ʿ.5ʿJ1'7 E ;'M 7 ,<6ʿ?,17>6ʿ?'1ʿ5.6ʿ>.4@ʿ'17 ;5.6ʿ?1.;.>.<76ʿ<.ʿ;, / ʿ / .<;.1,<7ʿ ʿ;,41 1ʿ=4.ʿ>4ʿ5W1ʿ,;7,01.ʿ?1,;:' <8ʿ .@;.?7 ,<ʿ>4ʿ71' 7. / .<7ʿ>4ʿ6.;1.7' 1.8ʿ=4ʿ;, / / .<M ;.1" ʿ;,41 1ʿ>4ʿQ,41ʿ>.ʿ6"<, / <'7 ,<Iʿ.7ʿQ46=4 " 5ʿ> 7.ʿ>?,=4.ʿ>4ʿ5.1ʿ,;7,01.8ʿ5.6ʿ'??, <7. / .<76ʿ.7ʿ . / ,54 / .<76ʿ6.1,<7ʿ?'V.6ʿ .<ʿ;,<5,<< 7;ʿ>.6ʿ>7'76ʿ ?1>;>>. / / . 7ʿ'11>7.6ʿ?'1ʿ ,1>,<<'7.41ʿ>4ʿ71.6,1ʿ ?405 ;%ʿ %

Kʿ ʿ +*" (" ' ("3$ -('' "#$2-('/ *,+*,

.<6./05.' ' ((C8))U 5 -%8 <. 6.<7?, <7 ;, /?1 6 5.6 E1, 6 >.' ?'? .168 /?1.66 ,< 8 E,41< 741.6 >.'1.. 6 ' E1.6 .7>.'041.'4@8 0, 68 4/ E.1.6871'<6?,176 > .6 ' ? .6 ' '66 J<'76?'1 5.6 / .66'J.1 .6 ,4 '451. / .<E8 _7 J><.1'5. / .<7 7,46 ,.4@ 1.5'7 E6 .<71.7 .< >.' : .5 >.' 5' 71.6,1.1 .8 5.6=4.56 01/ .1,<7 ,0Q.7 > .7'76 ?'17 ;4 .16 =4 ' 6.1,<7 '71>7.6?'1 5.6 ;, 41 < 66' 1.6 >.'5' 71.6,1.1 .8 .7?'1 .4'' '>1.66.6'4/ ' 671.' >.' <7 1 .418 ?,41 >71.' ;, /?1 6 >'<6 6.6 .7'76 ,1> <' 1.6 >.'> 671 047 ,< ' .<>'<7 5.'1.67'<7 >.;.77.'<<. .' .7 5.' ;, 416>.5 '<< .' (*C8 5.6;, / ' / 66' 1.6 >.' 5' 71>6,1.1 .' 6 ,;;4?.1,<7 >;6 / ,V.<6 >.'> / <4.18 5.'?546 =4 B .1''?,66 05.8 5.6 > .<6.6 >.';.'J.<1.8 .< ;,<-.17 66'?7 7,47.6 ;.>.6 =4 ' .< 6. ' 1,<7 646;.?7 05.6%.< >.6 6, / / .68 / '1;:.6 ,4 '0, ' <. / .<76 7@.68 .7 6 ?1,?,6.1'<7 ' ;.7 >J)1> '< ;,1?6 5.J 65'7 E5.'?5'< =4 '7.41 ?'1' 71' 5.'?546 .;, ' <, / =4.' .7 5.' / , <6 646;.?7 05.'> <;,<- < .<76%

$ % '<6 5.6 6, / / .6 ; >.6646 < .67?, <7 <,< ?546 ;, /?1 6.';.>.'>.'*U8 '5 -%8 '771 04..''4@ 04M 1.'4@ >.'E,1/ '7 ,< >.6 .7'76 '4 -1' ' ,4 ., /?7.6 >.' 7,47.6 5.6 1.;.77.6 .7>.?.<6.6>4 71 6,1 ?405 ;8 64 ' -'<7 5.6 .7'76 ?1.;.>. / / .<7 '11 7 6?'1 ,1>,<<' ' 7.41>4 71.6,1% #.6 041.'4@ 6.1,<7 ?1,V 6, 1. / .<5 ;,<6.1-.'>'<6 5.41 ;,<6 67'<;.'';74.>.8 .7 5V 6.1' 'Q,45> 4< ?1. / .1 ;, / < 6 ')8 '5 1% >'??, 7. ' < ;<768 =4 '> 1 J.1' .7 641-. 55.1' 5.'71'-' 58 .7 =4 ' %6.1' .< ,471.';:'1.> >.6 ,?.1'7 ,<6 1.5'7 -.6 ' .@>G ;47 ,< >.' '17 '>4 7 71.'>.'5' 71'<6 / 66 ,< >4 71> ' 6,1 ?405 ;I '4 / ,V.< >.' =4, '5' >.?.<6.'7,7'5.'>.8 ;.6 041.'4@ 6 .5.-.1' '5''6, / / .'>.' C8C '5 -%

' % .6 . <?5,V>6 '77';:.6 ' ;.6 041.'4@ 6 ,;M ;4?.1,<7 >.' 5' ;,<E.;7 ,< .7 >.' 5' 1.>>7 ,< >.6 ., /?7.6 '11 >1>68 ;,<701/ . / .<7 ;.'=4 ' .7> ?1.6 ' ;1 7 7 71.' G1 >.'5' .;7 ,< G >4 ?1>6.<7 >>;1.7% >6 ?'66.1,<7 64;;.66 -. / .<7 '4@ > EE.1.<7.6 ?'17 .6 =4 ' .@ J.1,47 >4 6.;,416I 5.'<, / 01.'.< 6.1'< / <4> .< ?1,?,17 ,< >.'5' > / <47 ,< >4 71'V' 8 .7 5 6.1' >>1 5 < 7 -. / .<7E @> 5,16=4.% 66./05..''41'?1,<,<.> 641 5.' / ,>.'>.';, /?7'0 5 7.?,41 '-.< 1%

W % '<.'6.1'1 .< <<,-.8 =4'<7 '?1>6.<78 1. ' 5 5 -. / .<7 ' @ ?'V.<16 ?'17 ;45 .168 ; >.-'<7 71> ' 6,1 .168 ;0' J>6 > '.=4 77.1 >'<6 5.6 >>?'17. / .<76 % '>>?.<6.6 >.'5' J4.11.8 >.'5' / '1<.' .7>.6 ?,<76 .7 ;:'466>.%6I 6 .1'05>.'<'7 , '5.'6. 1.6.1-'<7>.' 67'74.1 641 5.41 <, / 01.8 5.416 E,<.7 ,<6 .7 5.4171' ' 7. / .<78 > '?1.6 5.6 ?5'<6 .7 1'> / , 1.6 =4 ' 54 '6.1,<7 ;.6 / / .<7 ?1>6.<7>6 ?'1 5.6 ;, / / 66' 1.6 >.'5' 71> ,1.1 .%

$ '% 46=4 ';.'=4 5 ' 7>7> > < 7 -. / .<767'74.' 641 5.6 E,<.7 ,<6 .7 5.'71' 7. / .<7>.' 'J.<7 >4 71. ' 6,1 ?405 ;8 5 54 '6.1' ?1,- 6, 1. / .<7 ';;,1>>8 7'<7 ?,41 ,<71' 7. / .<7?.16,<<.5=4.'?%,41;.54 '>.'6.6 041.'4@8 4<.'6, / 0.>.' 98U '5 -%8 ;,<E,1/ > / .<7 ' .7'7 ; '<<.@.%

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" 7 541.I .<<. / ' 7 .'6'4 1' 7 >,<.' 6 '=4.1% 8
<'<=4.1"0' / '<>.' ?1,V 6 '<68 =4 57 1.1"7>4 04 65'; 1
. / .<7 >.'5" ;>7.8 ' - . ; 5'=4.55. ,8< " 64 ' / ><'J.1'>.
5, / / 4< ;'7E,<6% + ' '1 / >.'>4 5,1> #,1< ['55 6 '5E#1 > B
/ 1 .<E,17>.6 @ / 57. '5 1'7.6% + ' < >>6 1.' '1>. / 1' ,<7
'11 - .'>4 <' - 1.' 9 () ' =4 8 >4 ,<6 ' ; '=4 ,< 6.
4 , / .78 '??,17.1" 5" <,4-.55.'>.' 5" ?1 6.'>.' K'<J'5 1?
5.' ;1<J'?'5' / .5'>. ' . : E1.' >>E'5 .' 554 ?546 1.>,4 ' '
05.' '>-.1 ' 1.=4.5.6 <J5' 6 ' . 50' / ' 6 . ' >'< ' 5< 5,%
" ; ,7 =4.5.'>. ' ,10<J'?'5' <'< .?.47 / '<= .18 > 7 ,48
k .<51' <.1'5" ; ; 47. ' '06 ,54.' >.' 5" ?4 66'<; '>. ?? '
' 0 #.6 .6?>1" ; .6 <.'6.1' .<7 ?, <7 .@'J.1>.66 8 #,<< .
'< '6641;8 5 V " >'<6 ; .57.' ?5' ; .'?[/ 55 ,<6 6 .15 <J8 ,4
9 / 55 ,<6 &,41<, 6 .< .6?. ; ,6N \' .67 67 1' =4. ' ; .75.'
, / / .' 64E571' ' .5 0 .<'7'>.5>8 '4@ E1' 6 >.' 5" J4. 11>8 #7
.< ; ,< ; , 5 =4.' ' / ,41'>. 5" JE, 1.' ; 7 '571' 7 > ?< ? 5'
'J.' / / .<6.'E.1, 7 E, 1.' >?6 ?1,5>J.6 >.' - '5.41%0 '1 / '
>4 5,1> #,1< ['5 6I / ' 6 .55> >, 7 6 '57.<>1;' 4<.' 1>6a
7 / ; . , ? < ' ; % ' %%%%%%%%%%%%% d %

H 1 K%

'1 6% +' <2 ' ' , 1 ' '8 2 1 !'
'& F' ' & ' ' * ' 9 A

#.77.' 7.4<.8 ? / '1>' ' ' , 7 8 ?'1
> ' E' ;'4.6 7 >7.'77' - .14V .7 .4,1>' <; <7 .6- 5;8
&& B' > .5 ' <>4: ; 8 / ? / 0; .' > '7 ' , ; >5 > .]
/ 6 >U 5" ,?%7 747 4 ' .7 ?1'E.66.' - ' >. / '7 : > / '7 =4.68
5. / . .1'?7 14.' > 7 9 / %.& .1. `4'7 4>;>\>.6 1;68 ?1E.'
N. 5.%>.' ?.1,<8 6 46 5.6 '46?.;.6 .7 >'<6 5" '55.'>.' E"
\ . ; > / U7 '>' / 6 7.'5" #,<67 45 ,<8 ' ; <<.' 5 6.'
5.67.,0 6\14. ' %<7 K5,7 '1>8 ?;>6 ' <%5%K,'0%
" 6.'<; .'6.1" ?%4 =4.%I .55.' , < / .< ; .1" ; <= . ,\G
'71>6 ?1,'; 6;68 .7 6.1" , ,<7 <,>.' '45'<7 >.'7 . / '?6 =4.'
'66. / 05.> ?'1'7 1" '& >46 .1%
.6 ?.16,<<.6 = 1- ,4>1,<7 0 .< V '66 67.1'6.<7 ?1 >.6
5 . . 6 7 ,7 6' =4 . .604J.1,<5 '?1,?'_%
57.6.1" ,<V.15. K '7% ' #,<>,1;.58 6 .;1.7' 1.'>.' ;'G
> / 0.>; ; ; ?; .6G
.67 ?. / ' 71.%?J7% [8 6%>" &6; 1 .=4.'5.'?405 ;'<.-. ["
?'6 6'<J < 1>5 4<.' 777?>;5.[; '=4 '?.47 6.1-71 'E, 1.' , ,<%
' '5 . 5G' =4.' 7 4> > ' / ' ,/ '7 =4.6 < .67 ? ' '<'
5.6646 >.6 E,1; ,68 %7. .;74. ;6 >.'5" ?54?'17>.6 0, 14<;68
I,<'8 / .'E,'?00GJ1'<>'17, / 0. .5.'?. '6.' , . ; . - ' '40,41> 045'
5 =4.'E.6 #7 %0.6 3 ' / \7 4<00J. / .<7 6' <8 =4,7=4.'
1 V .6 >4%8 >.'<%;E/G<6' ?1 , ; ?'4@8 < .< 6,<7 ?' '1 , <6
46;.?5 05.6 >?6 ?0% =4.1' '4@ 6; .<; .6 5.6 ?546 '0%661'7. %
=4.J 0 55.' 4@.14V " E.01 =4> 6. '5 5.6 ; '1';5>'
E?6?ZD%1E0.E75 7 ' 6.'6.<.<4' % "?.1>4 7" -4.' &

' E7' ,>

E'c.'V .<6>c ?'1; ,??.'5" V, 8 .' ,0 5 <. .' ;0?6. = %
S 'E.' . / ?6 >?% -? I .7 7E; 1.; ?; '=' 6 4<.;? 16.' 17.'
$5 ? >.%5% ?6 U e 1'? '6?<7 5' .? 1061?. 00<, / 0 .I% ,?.8
1 -1.' ' - .' >4%.%57 ?.% 'J1 ;< ' B6 66 - ? .47.<51. .4-' ['
/ 7 '4665 g5.' ; '<?.' ?1^16 >,'E,.'>?
,41J. %8 ?<5E,1 / .'_8.6 - 8 E'.J7 .48 >,405 / .'>;'%1 8
'5.8 1.V; 0? 5? ; < <E,% 'V5'7?6 ' 0 1, 6 70.416'
' Td ; , ; '1>.'05' ; ; .% 7 ; 7 %'1 / >.1' = 4 ' 1' 4 7; 5

?'1'>.I ,< / E,'<, / / > % >.'K466V%%% .'J,<-.1<.41 =4'
#67 ' #5 ' / 0>1V " >.6 5 ' 6,1E6 >'<6 '1 / . % < ' ; ;4%6=
,7.<E' - ,1 6.1' .61. ;14.6% 4 / > / .' 5< .67 ?'6 ?,15.'?,41
66. / 05>.' <'5 ,<'5.' >.' H1'<; .I ; '1' 5" >.E,<>48 6,46
?. <.'>.' ?1 6 ,<8 > .< ?'1 .1'0 .<'>. - '<7 5.6 ,E5 ; .16 E1'<\
?' 6%%% ' V " ' ?.4 ?1#6 8 6 @ ? 55.'0, ? / .6 >.'71,4?.6 ?>'
/ ,<7' 6;6 1>?'<>4.6 >'<6 5.6 > EE.' .<5.6 - 5.6I . .< .67
'66.0 ?,41' '6641.1' ,0> 66'<; .% ' 5E,416 7 <.'6.' E, 5'4'
;4<6 ?1>?'1'5 E6 >. ; ' #,7>% .5=<.6 ,EE ; .16 ? > / ,<7' 6
6.' ; ,<5.<5.<7 >.' ?1, / .571.' / ' < ,15.' '=@ > / J1.6 >.'
H1'<; .5%8 .6 ? . 1 .6 E4J 5 16 6?<5 ; ' .< J1'<>'<, / 01.I 56
V - - .< '66.0 <'58 .7 V ?'1' .<7 ' ; ; '05>6% . ; >.V'<7
'1; ; ,->=4,'>.' '1 6 478 5 V " =4.5=4.' 7. / ?68 1.<>1.' - M
6 5.' ' ; ,E4'>.' ,47 .1% .6 - 55'J.6 ?'1' , ' 5" ?'66> 54'
0<7 1. > '>. 6: ,<<=416% " - 55.'>.' #, E5'<6 6 V ;67 1.E4'
; ,I .6 ; 5,-.<6 ,<7 >.E.<>J =4.' ,< 6?<< 7 5.6 ;5,;0;E8
.6#4'7>.' 41 < " ?1 6 '5 ' 1.' 8 ; .418 .5 '4' ;1 / <.5%%%
67 ; .'=4B5 < .67 ?'6 7? / ?6 =4 .< H1'<; '5.' / < 671.'7 .6
'EE' 1.6 .51'<J>1.6 E'66.8 ?'1' <,6 ' / 0'66'>.4168 1'??.5;'
'4@ ?4 66'<; .6 <, 71' 7.6 >'55 '<; .7>.'0,<<.' ' / 7 >8 .5
>,< . .<E <'=4.5=4.' > J< 7>' 5" 1>-,5 7 ,< 1'<; '6.8 =J.'
,< ; ' / '>'<6 7,45>6 5.6 ; ,416>.' 41,?.Z B.41.4I
. / .<'0' ' 71,4->?' '7>47 .6 5'0 5'<76 >.6 - 55.68 .7 641%
5,47 ; .4@ >.6 ; ' / 'J<.68 ?5. <6 &H'> / 1'5 ,? ?,41 6'
6. / 05>.' <'7 ,<'5.% % " , ,<65 547 ,< E1'<; ' 6; .67 E,<>..'
641'5.6 -1' 6 ?1 1 ; ?.6 >.' ' E1'8 .1< 7.% #.'6.1' 7 4<.' / '4'
- '6.' / '<, .4-1.'=4.' >.' - ,45, 1' <5 / > .1'5.6 H1'<; ' 6 .<
5.6 1<>?1 6' E,?'1 ,7E 56 6,<7 1.>, 5'05.68 ; .6 I >1.'?'1;.'
=4 56 <E,<7 ?546 >.'J.?7 56:, / / .6 ?'1 / ' .4 ' .5;% B

*
> <6.1 ' ' / 77 .'? , <7.'>'I ' - ,7; .% #.? 5?% / .6'
. 6., .5 =4.' 5.'?%4&\ 5;' . " ' & #?<<' 66'<;? ?'Z Z,-B. e6,@7;]'
>?'1' 6,<68 / / , ,>1.' .67 J'?' ; .'6.4 ' ?1,0?7 > .@7.< %
>.0 '> ' ;?11?6?,< ; .' " =. . .'0?'<.
F d %%%%%%%%%%%%%%%

! ' ' $ ' ' '% & ' ' ' ' '
! (') (' ' ('

'5.<;7?<<;'?' '*' 5 .7

' .<]'> ??1.<>1;?' / ,<6 .41 '?'1' .6 ?'? .Z6 ?405 ;6% ?'
; , / ?7.'=4.' - ,46 L 0 .<' ,454 E.<>1.' " 5cG 66.< 0 ;%;'<' '
7 ,<'5.'>.'5"E :7 .1.'>0,70 ' '5. ; ,E< / '<>. / . : -88 ;7 7.' ?1,M
0.7 > .@ ;?6E,< =4.' -> 6 : 7 ' - .0 ?1,?,6.' >.' < .8 >,<<.1G'
34.5=4.'?.< 1.'=>.'0.'6,76>.'P" ; ,<E5'7 ; .'=4 .55.' - .470 .<'
/ .' / ' =4.18 ?. G <.77.0 < ,EG' <,<61.418 >.' - ,46 1'??. .1'
=4.' : \16=4.8 5.' 04 <8 '4' / '7 <8 66. / ' <'7 ,<'5'.47
>.?1>7.'>G\. '0, <>1? '4 / < 671.' >.' 5" J4 .11.' >.' / .' E' 1.G'
?'Z7 E% 641.5. ;0' / ?' ?,41' '57.1' >.E.<>1.' 7. ' E1,<51.1.6' > '
1, 1'4 / 'G ,' / .' ; .<>0' ; : .0' / ,<' / < 671.8 '4' ; , / 7.' <45 '
7' 1.8 .7 >.'6? 7.' .' 66. / 05..'<'75,?'5.8 ,4'0.'>. ; 5'1' ' '=4.8
-4 / ,?8 UJ.' .7 / '<' / 01 / 7.68 0.' <.'?,4 - ' 6 / .' ; : '1J.1'=4.'
>4' ; , / / '<>. / .<7 =4.'0 =-' 6 .4%046=4 " ; .'0,41I =4.' K5% 5.'
/ 1.;0'5I >. ' 8 / ,< ?1. / .1 / '571.'$ 641 .6 71' ; .6 >4 '
=4.5'0.' / . ?1, .1' '>.' '1; : .18 4 ' - ' 70' / ' 6 .4%?546 > 47
7?=>=.'=4.' ; .55.' >8? '< .Z=48.' ! - .7I =4.'7.6 ; ,1?6' > '0\%
/ ' UE6 ; 1>. - '<7 - . ; : .6 ?7 >.' ' K5.?6?'V' .<7 7,<0,416
.4 4?R; ? / / '<> 7 ?'17 ;4 .18 >,<7 5.6 / , 4- . / .<76 .7' .<7
1>J5?6 641 ; .4@ >?' ? >. / % ?E 1 6.' '??1,?: .Z >.' 5"
V'4 7 56' ; '?' >.' P%" H58'<>1;8 684 V'?7 5.6 ? 1; ?<6 '<; .6%
546 07.<71.' >'<6R> .7' 5 6' 1'V'0' >,<7 0.' % 6 .0'1J>'
641' ;% 77.' 1,<7 .1. ' ?546 0.'6.<6 5" <. ; .6>7.'UZ / V #,1<.1'
' ; ,<; 546 >,<.8' / ,<6 .418 =4.' 7,41%.' 5" ?'17 .'>4 ; , / G
/ '<>. / .<7 =4 'V' 7 %>.'K,4 55.'>. -1' 7 1.'1.1' / / .> '5.'
/ =<7 6,46 5.6',1>1.6 _E4 ' ; ,< / '<>'<7 J.<.1'58 ; ,< / .' .55='
.5' 7' . >.V'<7I =4 75' ?%,411' 7 54' .71. ,1>,<<.' >.' ; ,1E.6 '
?,<> 1.' - . ; / ,7 .7 >.'647-1.' / . / .' / .6 ,1>1.6 =4'<>0.'541
.4 >><<.1' 6 >.'?,6 7 ` I =4.' 7.' ; ,< / '<>'<7 ?'177;4 .1'>.'
! - .7 .7 >55 >76511;7 >.' ,>1,V >, 7 ' - , 1' >.6 ,1>1.6 .<; ,1.'
?546 ?1. ; 6 >.' 6.' ; ,<; .17.1' ' - . ; / , ' .7 >.'64 -1.' ; .4@ =4,'
0.%?,411' 6 ' - , 1' '54'>,<<.1% 5 ' 6WV4 =4.' ; .' > 671 ;7 .6&
>4%>>?'17. / .<7 >.6 1>.<<.68 - 4 ; 4<.'>.'7.11.6 .51'<'
J.%1.6 =4' 5.'6.?'1.'>.' 40.4J.8 =.'> 671 ;78 >'<6 . 7 : 'W%
,054 .58 >, : '1.%67; ; % '4@ ?1>1. 6 ' >.'K.5 / ,<7%
Z,s '#3? 'W* #[N / I '5.,1 J ['5' ' ! " # $

D'APRÈS H. BARON.

Typ. Henri Plon

Les dames de la halle.

Y E; 5

= + <8(#0 8-(3-(#-

8 F ' ')H)!!)

4: ;."< B e X B , ! %

[&#, C # , E& bP J @E $$B & B & Z &* B! $$? 'L' M &$(=$EB* (&, *$?% * UC % ,&B $% E% *% ,&$ $% B$%&& $% B&#]& & $% B% && 9 %*J $% , % $% 8 % # '

"0 0 H 0 * 4 J V A $&,,$, (, ! ,%A ,, %&!) & (*$ E % & , ! , $! %& %B$! ,$, % ! , 4 ! $ JA & P% B @% ! ,$, ! , R (! 2% % % , *&$ 2: !* (! $% (*& $ $% $ & % $ && B * %B % * & &?&$$? ! & ,,% *$2% B) $+ + & &A % ! * &* $% (%$ B E%$& C & & B $ F B $ % B$,$ & A $$ F$C C & $ $ 4 $ E$ &$ * B C C ^B V$VH & * * B * B * ! B C C , B & %$ *) ! B, &! *% * & , *)%* , ! T (! (, % *! , B &(* ! *% B) ! * &* & & % $% C & , ! * $, $ $2% A $, ! $&&(!# & , &% ,$ A$, E! & B ! , 2%4 ,&% #C * & ! (& %$!) &2% !)$? $$ & & (% ! , &2% B $) & & $ B &C V ?
E% & P , , !&, ! % ! , &$> * !?& B $ % & 2% C % & , C @ !* * , & A* $ $ %@(&$ &? &) ! @ e! $# * & &BE $A) B B , *& & / ; (E $ 4* , E % C +2 , B* &$$&A & 8 (% 4*E* $ & # $ * & $% 4 C B & ** ,$!* - $! *, 2 $ B, ! * * (&* B &* V I) %E (% & P B & S 0 0 X & 8% * N ! , %4 . E) 4B $ 4! %4 B! &! & *% * ! , , ! , $, %)% & , & % , ? ! , ! , , ! , %)% & , & ! ! , %4B *% ! %A % $% % ! & :& % , A ! , @A ? & % A @% $$* ! , %E % & & ? ! C) (! ! , !$ (*&, % , , ? B$ C&&$, &4 B (!) ! &!$$ 6 $% B & & $)B , ?2% B)e (%, ,% , *% C C)B 8 ?*!) * 3 %@ B) & * 0%:B 5 ,%% , &2 , (B) & ,) !)&* , B % , & % B , # $ B Q &2%4B * & * , ($ & , ! (! % ! , E % $ * , (B * (*! & ! , $, F %) 2 *% & * B E , (% , $), & , , B# $ B$, $, % , & % ! & % (% R ! , %h % % E! &) % (% ! , 2& % & bP & ? A , &2 & C& ^ bV , & 4 & E ! , &! $ B $$ 8E & * & D$%# ! , ! , %)) $& A & & b $% = $ B) * .R 3 2 , , *%B$ & , 8) % % , # , , * * % % , % R

M 8) & ($%$ B @ B), %Z , & & # 0 *% $ &! & % * , $, & , ? % , 4 * % 2% & , %B % , & 8 %' M % $* &C %$ B D ! ((!, B & , &U A B, & $ & % , , %& , : $% B%$ % .66 .416I ? E B >.;1.7 >; C >.;. / ,1> (* 8 1, <6 ' - ;C ,1>0 55 J =< 5 6.1' 7 #5.1. 4E5. 67 '74. ' 47#5 1 >7 G 60;5775 .7>G W< 717 'E.##.77. : #1 ?55 ,77 N F F ! ! & 4 - - (! (0 56 7.E7, B6 E. ;E 7 :.E 1. 7 0 77 > . ; . %> . . 1 . 78 >V. 9 &. ' '>> 7 , <6 = E. $, >7. R . > . <76 ? , 67>E . E6 0 : 7 E. 7 44 . 6 < . ; . 6 , & * , , = % , &B , % $*, E ! , ! $U , %$! , & # * % 8 #8 @! , , % &, ! , & , % - A % &,

$ +) X E%* 4B 2%4 $ (! $ * **-] *! &A ,B!) , & B - 2A %$ (!$$ $! , ! = ? ! *) %, ?% AA 2% ,# % - & * ,&A , $% ! %$$, %$$ * ? (% $$! , * % ($% & (, 2(% * A$* B $% A$! & (! %4 , B , ? , *B &AC , ! $, & ! , ! &2 (! , 2A$ E , 2% * $! % &B*& # % % $ *%$$% $ B$, & A $% 4& # $ B * % % , (! , & ! * % & 4 ! , $$ B$, & & 2% A* &%B, , % ! , $A C ! B A % $ *A %, , N C! ? A$! 4 ?, E(* $% ! , K ! #
!& E % N ($% AA % , $ 6 * * % % # (!) &2 % = ! , $, A , % ? , 2 & % * & (! % % $ (* B$, (, ! 4 & * ($, & % * , B B , $% % *!* $% B) %A B) & * , & , , &2&B*%# , , ! , $, (, &+ $% ($ () P B , &) *% % , & $% , (, ! # B % B * $ B # , , % & ! , * % % - E$ %B $ & % 4! , ! A & ! % ! , *% *B ! B, % $ * & & (! % , & B $% ($% ! * , % B &$B *A& $$ & ! B ! , $ %4 N% B! &) ! ,) A) &B ! , & , * , & & 0) B R 6# 4! , , , $$ & % & & $ B # % (% & * * (&) , // &$ & #4&% [& ,) ! , $,) ! B) , $& , 6 % #8 ! , , % , ! #$$, ? ! & , B C 2!? BB # , %B % $% T $$, ! %) & **$ # &4 $ (B? &A &) A % & ((! $ &B $( ) ! , ! $ B T 2 %$ B %B$B B (, C* (# B$, ! 4 % A & (($B $$ B% B %4BN# & , *! && !) , B %B & # $) B# &B$ & ! , $, B! ,) B %) 2&A%$ & , & ! , R , * , *AA% A & & ! ,) * $,) ! , $ $% , ! ! %$? && (* # ($! , , % * * (* $ 6 $B, B B@$ * B) , bb $%X* , ! , $, - B , & &* , (* BB ? & # B , B A * &%) [$, 6 B, * % % @ * &% , $, 4& , (%* $% B& %$ $ &B BB* B , ! ! * ($ & & !$, * ! * B) ! 2 , $ $ & * $! ((** *$ %$A & ! B $2! & (& & $ & , B(?, (% $ # & ! $, , % , B* $ B B! *B* , 6 $ #), & ! , ((B&, % 2) * , (%, ! , $ (*B &% B & /6 B , ! * % % , & // , (%, $ $ 6 [&* $ ** $ 2* C ! (% $% * ! * * = & * 2* $+ 6 B & # && , $ % B $ * , ?B * % & * %) # B&* $ & , % B B% , * E !$* ** A* & * B * $ $& & * $ B %& %@$ 0 $ (B$)# A % *% BE i j * $ %& ? & , , & , & 2 ! 8B $% B &%) $& * $, * % - A & , # // , * BB * (% * * * ?%B & 2 $! & % &! &A & (&?* * ! * B! * : 6 *% , , !) ! , BB %$B, * * && * * 6 * $$ &,) ! , $,) ! , , (%* * & ? &(?, & , 4% ?, B & , $$, ! , & $% A*% & B $ && $% * ! B $, ! (% (* &! & % AB *)C (% - % ** & , % *B , (% * B* & % (% , # T ! & , $)% , % * , , B$, & $% (** # B ! %$ (% $) ! , %, & 4 & $ B & %). B$* 2* $! $$* $ * EE*B% $B B) & * A) % * & , *V b, ** EV $ $#* d & %B b * E %* ? ! * , , E* ,$& ,C,CC , # V$) , ! B , $ (* , 3 ! , & % ! (! $, (!* , , ! , E%$! , * , $ $, 2% ! & , ! C (% ! * , & , 4 , &! , &! * $ & (, $ * $% , % A% & & , $! ,

=<;' -4 6' 444Y' ' -.0' 44 4;16' ' 444 4 ; '5 ' #1 7 '>;
,466.'4' < ' ;; 5 1.1,<7 76' ?'6 8' < ,<7 56' ?'6' >>Q''
?1.?'1>' 5'' ?.1E.;7 ,<' >.' -,71.' , -1' J.'Z .67'41'M
7.416' >.6' / ;.416' <6 ' =4.'>.6' 5, 68' =4.55.6' 17 ;, / '
?.<6.6' '66.0' J1'<>.6' ?,411.0G ,46' ' ; ; ,1>.1' '' ; ;5 '
=4 ' '?5'< 7' -, 1.'1,47.' 8' =4 ' 6.;,<>'' -,6' .EE,176' .7'
'6641'' -,6' 64;, ' >'<6' ;.77.'>,405.' .7' :,<,1'05.'
;'11 1.S

, 6' -.<,<68' / .66 .4168' 1;;5' / .1'5.'6.45' ?1 @' =4 '
6, 5' > J<.'>.' -,46' .7'>.'54 % ,46' -.<,<6' -,46' ?1 .1'
> ,1>,<<.1' =4.' c.6' 1.67.6' >.' ;.' J1'<>' ; , / / .'6, .<7'
1.;5./ '<>>.6' '' % ! 1'1> <8' =4 ' 5.6' '' 1.;4. 55 68'
=4 56' 6, .<7' 71'<6E>1>6' '' '1 68' ;, / 1<.' ;.4@' >.' ,5M
7' 1.8' .7' '>/ 6' >'<6' 5.'7. / ?5.' >.67 <7E.' '4@' J1'<>6'
; , / / .6% .' ?1,?1 >7' 1.'> 1/ .<,<- 55.8' =4 ' ' -' 5'
]' J.<.1.46. / .<76,4671' 75.6' >.1< .16' Q,416' >.' % %
,466.'4' '0'<>,<8' '4@' ?.16.;47 ,<68' '4 / '5: . 18'
.67' 6'<6' >,47.' 71,?' '77' ; : .' '' 5'' J5, 1.' >.'6,<' ' / '
?,41' 6 ,??,6.1' '' ;.77.' Q467.'>. / '<>.% ' / '<=4.1' 7'
=4.5=4.' ; :,6.' ''6''J.<.1,6 7>' 6 7' :. 6 7' 7' '' 6' ;1 E .1'
;.' =4 ' .<' E47' 5''1.;, / ?.<6.8' .7' 5.6' / .6' J><.1.46.6'
Y.'5.'6,<7' ?'6' '>. / %

,46>. / '<>,<6' '466 8' / .66 .4168' =4.' -,71.' > '
W .7' >4' / , 6' >.' >>.. / 01.'6, 5' .<E <' .@.;47.8' .7' =4.'
-,46' -,45 .b' 0 .<' E @.1' 5.'5 .4' , 5'' 67'74.'>.' ,46M
6.'4' 6.1''?5' ;>.%

#.77.' ?.7 7 ,<' -,46' .67' ?1>6.<7>.8' / .66 .4168' ?'1'
>.6' ; 7,V.<6>.'7,46' 5.6' .7'76N ,466.'4' '??1 7' ''5.6'
1.6?.;7.1' 7,468' 2' 6.'1.6?.;7.1'>'<6' 7, <6I' ?'1' =4.5 '
=4.6 4<6>.6' >5.;7;416' >.' ()*' 8' =4 ' ,<7' ; ,<71 04.'
'4' 0,<:.41' .7' '5'' 5 0.17>' >.' 5'' ?'71 .' .<' ?5' '<7'
?546 .45 6' > .<71.' -,46' '4' <, / 01;' >.' 6.6' 1.?1.6.< '
7'<768' .5' .<' >,<<'<7' .4@ / X / .68' >'<6' 5.6' ; 1; ,< '
65'<;E65.6' ? 6 ?>1 55.46.68' 7'<5' >.?1.4-.6' >.' ?' '
71 , 7 6< .'.7>.' ; ,41'J.I' ?'1' >.6' J.<6' >.'5.771.6' =4 '
6 :,<,1.<78' 5. ' 4<6' > '-, 1' .5>' 5 >6' '-.;' ,466.'4'
?.<>'<7' 6'' - .8' 5.6' '471.6' >'-, 1' '?1.6' 6'' / ,17'
1.<>4' ; , / / 'J.>' 6'' / >/ , 1.8' 7,46' >.'5.' 1.J'1>.1'
$! K' / .'5.41' / ' 71.' .7' >.' ?1,E.66.1' 6''>, ;71 <.I' ?'1'
>.6' ; 7,V.<6' >.' ! .<>-.'>, / ; .6' .<' H1'<; .' ,<' >. '
-.<46' H1'<; 68' . / ?1.66>6' >.' 1>?'1.1' ' <6' 5.6' ,4M
71'J.6' >,<7' 6.'1.<> 7; ,4?'05.8' >'<6' 5.41' ?'71 .8' 4<'
?,4-, 1' .<<. / '>.' ; .5 '>4' ?.4?7.I' .<E <8' ?'1' ?< '
6 .416' / . / 01.6' >.' 5'' ,; >7>' >.' 5'' # ,<67 747 ,<' >7' '
05 6' '' ,<7 / ,1.<;V8' >'<6; .' 6>Q,41' ; :' <?>71.=4 5'
' ' ;.5.01.' .<' :'0B'<78' .7' ' ,<' ; ,<6.1-.'
>.'54 '>.'6' :,<,1'05.6' .7>.' 6' 7,4; :'<76' 6,4-.< 16%
.67' 2' . @' / ' <7.<'<7>.'6.' E' 1.' .<7.<>1.I' ; .67' ''
. @' =4 5' '??'17 .<5' >.' -,46' 1'??.5.1' 5.6' -.1746'
>,<7' 56' E41.<7' 7. / , <6% '' / >/ , 1.'>.' ,466.'4'
:'0 5.' .<;,1.' '4' / 5 .4' > .4@I' ; , / / .<7' <.' 6. ' '
1' .<7 56' ?'6' 5.6' E >.5.6' ' / 6' > 4<.' ; ,<67 747 ,<' 5 '
001.Z' ,<7 / ,1.<;V' 6.1'' 1.J'1> ' >'<6' H'-.< 1'
; , / / .'5'' / >1. ?'71 .' >.' 5'' 5 0.17V' E1'< 6.8' ?4 6 '
= B .67' 5''7.11.<'7'5.'>4' G ' 4)@ (5'
! ' :'0 7'<76' ,<7' 5.' >1, 7' >.' ?'1' 71.' ?'17,47 , :' '
6 'J 5' 8>.'1.<>1.' '' - A ' ,466.'4' ,4' >.6' 1.6?.;768'
,<' > :,<,1'05.6' 7. / , J<'J.6I' 56' ,<7' 5.' >1, 7' >.'6.'
1;4< 1' ' '>. / '<>.' ; , / / 4<.' '-.;' 5.6' ; M
7,V.<6' .7' 5.6' J.<6' >.'5.771.6' >.' '1 68' '-.;' ;.4@' >.' '
7, 7.'5'' H1'<;.8' '-.;' ;.4@' >.' 41,?.' .<7 :1.8' .7' >.'
6,55 ; 7.1' ; , / / .' <,468' / .66 .4168' ?,41' 5'' / . / , 1.'
>.' ;,' J1'<>' :, / / .8' >.6' ; ,<<.416' =4 ' -.<J.1,<7' 6''
; ;<>1.8' =4 ' ' ;=4 77.1,<7' 5'' H1'<;.8' .7' =4 ' 'Q,47.1,<7'
2' -,71.' J5, 1.%

6 ' ' ' ' ' & '& P%

.6' ; ,V.'6' >.' 5'' - 5.' .7' >4' ;'<7,<' >.' ,<7 / ,1.<;V

& P' .'1.>';7.406' >. ;.77.' ?.7 7 ,<1.E47' -.<>1.>'5''<,<-.55.'
>.'5'' ?.17.'5'' ?<6' #14.55.% '7' '' ?4' <' 6.' ?1.6.<7.1' '5'' 0'11.'
6' / .>' '4' 6, 18' <' 6 , ; ;4?.18' >'<6' 5'' Q,5 1<>.8' >.' 5'' 1.4< ,<
>.6' ; 7,V.<6' .7' >.6' J.<6' >.' 5.771.6' 6' J<'5' 1.6% =4' 6GV' 6.'
1' .<7' ?1.6.<7.6' '-.;' 54 % ''?.7 7 ,<' '' .7>' 54.' ' -.;' ?<6' >.'
0,<<.' -,5,<7>' =4.'>.'74; ; 6' ?'1' 4<' >.' B% 5.6' :'0 7'<76'
>.' ,<7 / ,1.<;V%

?1>6.<7.<7' 4<.'6.; ,<>.' >1.66.' ; ,<7.<'<7' .@?1.667,<' >4'
-,.4' >.'5.416' ; , / / 4<.61' & #.77.' ?.7 7 ,<' '' >.' 1#> J>.8' '<'
<, / ' >.6' ; 7,V.<6' >.' 5'' 1 55.' .7' >4' ; '<7,<' >.' ,77 / ,1;<'
;V8' ?'1B% # >1 <8' 0'0 7'<7>.'5'' / ' 6,<' >.' % 8' K,466.' ,'
.<' ;.77.' - 55.8' .7' 54.' ' 5'' 0'11.'>.' 66. / 05#.' ?'1' % 1.6'
71.8' / . / 01.' >4' 71 04<'58

0 ' ' ' ' '' - 55.'>.' ,<7 / ,1.<;V ''
'-'<7'J.'> '-, 1' ?,66#>>' >'<6' 6,<6.< / < ,17.5' '47.41'
>4' G ' ' .7' * @ ' '<6' ; .6' 5 .4@' 1 ;0. '>.'7,46'
5.6' '771' 76' >.'5''<'741.8' .7' ,>' ,<' 71,4-.8' >'<6' > / / . '
6.6' 7'05.'<@' =4.' .. 5' ?.47' 7' ?. <.' . / 01'66.18' 5.6' ?'V6' J..'
5.6' ?546' 1 '<7'' .7' 5.6' '6?.;76' 5.6' ?546' 6'4-'J.68' ,466.'48%
E4V'<7' 5.6' ; , / / .6' =4 5' ' / ' 78' / '76' >,<7' 5.6' -;.6' 'E5 '
J.' .<7' 6,<' ; ,.<18' 6 #5' 7' ;5 , 6' 4<.' 1.71' 7.' ?' 6' 05.8' >4'
E,<>' >.' 5' =4.55.' 5' 5 7 .<7.<>1.8' '-.;' 4<.' .5,=4.<;' Q46'
=4 '5,16' <; ,<<4.8' 5'' 6' <7.' -, @' >.'5'' -#1 >% # .67' '=4.'
; .' J#< .' / 5.' .7' ? ; <' >.' E,1; .' 6.' ?#<#51' 7' >.' ; .6' ?1 <'
; ?.6' #7.1<.56' >.' Q467 ; .' .7' >.' ->1 7>' 71,?' 5,<J7. / ?6' / .; ,<'
<46' 641' 5'' 7.11.% # .67' >'<6' 5.' 6 5.<; .' >.6' 0, 6' . ,5 7' 1.6'
=4 '<,46' . 7,41.<7' =4.' ; .7' '1>.<7' ' / ' >.'5''<'741.'1.;4. 5'
5' 7' 6'' J1'<>.' H ' ?,41' .<' #74> .1' 5.6' 5, 68' '??1,E, / 5 1'
5.6' ;'46.6' >.'5''>.?1'-'7 ,<' >.6' 6, ; #5#68' .7' 71' ; .1' .<64 7.'
5.6' / ,V.<6' 6 16' >.'5.6' 1'??.5.1' '4-#1 7'05.' 047' >.'5.41' <M
67 747 ,<% # .67' '4' / 5 .4' >.' <,46' =4.' ; .' ?: 5,6,?:.' -.1'
74.4@' >,<<'' .@. / ?5.' >4' ?546' J1'<>' '57' ;0. / .<7' '4@'
/ '@' / .6' >.' / ,>>1'7 ,<8' >4' / .?1 6' >.6' 1 ; .66.68' >.'6,4 '
/ 66 ,<' '4@' 5, 6' .7>. ' >5.' ?,41' :4 / '< 7>8' =4 ' ?5' ;. 7'
'-.;' 1' 6,<' 6.6' >;1 76' '4' ?1. / .1' 1'<J' ?'1 / ' ; .4@' >.'6,<
I >;5.% # .65' > 4<.' :4 / 05.'>. / .41,' =4.' 1 .< ,' <,'> 67 <J4.'
>.'5'' ?546' 6 / ?5.' >.6' <>71.68' .7 ,>8' 6.'<>>1,0'<7' '6'' ; .5>'
01 7>' .7' '5,47.6' 5.6' Q,4 666'<;.6' >.' ' / ,41 ?1,?1.8' ; 5' >.'
/ '<>' 7' '6.6' 6. / 05' 05.6' &; .'6,<7' 6.6' ?1,?1.6' 5.1 / .6P8' ?,41'
4< =4.' ?1 @' >.' 6,<0>5.8' >.'5.'5' 66.1' / ,41 1.<?' @8' Y =4.'
; .' -.<J.41' <>, / ?5' 05.'>.6' >1, 76' >.' 0, / / .' '66.1- 8' ; .'
E=?.<<. / '>.6' .11.416' .7' >.6' ?1 74J>6' >,<7' 5' 6 <> J ' 7'
>.'5.' , 1- ;7 / .8' ; .' 6'J.' =4 ' <.'1.6? 1' 7' =4.'>,4; .418'
=4 :4 / '< 7>8' =4 ' / ,41' >.' ,1>1.' .7' >4' 0 .<' ?405 ;8' E47'
'11' ; >8' 6'<6' J'1>' ?,41' 6,<' <> J.<; .8' 6'<6' ?7 ' ?, ,1'
6.6' <E 1< 5 68' ?'14<'11 7 4 =4.8' =4.' .6?1 7' > 4<.' <7,M
5.1'<; .' '0, / <'05.' '-' 7' > ;5 % # .67' >.' ; .7' '6 5.8' ,0Q.7' >.'
6.6' 1.J1.768' =4.8' >'<6' 5.' >.66. <' >.'6.'6,4671' 1.' ' ' ; :'1 '
<. / .<7>.' 6.6' ?.16 ;47.416% 5' E47' ; ,<51' <7' >.' E4 1I' .7'
?,41=4, Z%8% ?,41' ' -, 1' > ;:1 '> 4<.' / ' <' E.1 / ..7' ; ,4 '
1'J.46.'5.' -, 5.' ?' 6' =4 ' ; '.0' 7' '<' J.<1.' :4 / ' <' 5'' 54 '
/ 1;I' ?,41' -, 1' > / ,<71 ''4' >.6?,7 6 / .'5.' ; , / / .<; . / .<7'
. '5.' ?1,J1 6' >.' 6.6' 4641?'7 ,<68' .7' 54 ' .<' '-, 1' ?1 >' 5 5.'
7.1 / .I' ?,41' ' -, 1' '??1 6' '4?.4?5.' '01 6.1>.6' E.16,> . @8'
.7' '1.<7 .1' >'<6' 6'' 5 0.17.' ?1 / 7 -.I' ?,41' ' -, 1' > E.<>4'
5'' ;'46.'>.' 71.' 64?1 / .8' > 6'1 / '5.'E'<'7 6 / .8' ; ,<E,<>4'
P / ? . 8.7' 1.<>4' '5'' - < 7 ' 5.' ?546' ?418' 5.' ?546' 0.5'
: , / / 'J.' =4 '6, 5Q' / ' 6' 6,1&' >.'5''0,4.0.' > 4<' / ,17.5%
'' / / , 1.'>.'' % % ,466.'4' <,46' .67 ; : 1.8' / .6M
6 .4168' ' ?546' > 4<' 5 71.I' .7' ; , / / .' ; , / / .6' 5 01.68' .7'
; , / / .' ; 7,V.<6' E1'<E' 68' .7' ; , / / .' ' / 6' 0 6' > 4<.' ; ,<M
67 747 ,<' >,<7' 5' < ,46' '-' 5' ?1 ?'1 6' '1.66.<7 1' 5.6' 0 .<'
E' 768' .7' ; , / / .' :'0 7'<76' > 4<' 5 .4' ; ,<,- ?'1' 6,<' 6 Q,41%
34.' >.' / ,7 E6' ?4 66'<768' / .66 .4168' ?,41 Q467 E .1' . / '
?1.66. / .<7' =4.' / .77.<7' '<Q,41> 04 '5.6' ; 7,V.<6' >.'5'' - 55.'
.7' >4' ; '<7,<' >.' ,<7 / ,1.<;V ' -.< 1' -,46' >. / '<>11' >.'
> ;1 5.1' =4.' % % ,466.'4' .67' > J<.' >.6' ; ,<<.416' 1 '
6.1- 6' '4@' J1'<>6' ; , / / .68' .7' =4.' 6.6' ; .<>1.6' 6.1, 7'
71'<6E 1 .6' '4' '<7: ,<' E1'<; ' 65' ' .67' 64?.1E54' 6'<I'
>,47.' >.'6 7.<>1.' 641' / ?,15'<; .' >.'6.6' 6.1- ; .6I' -,46'
V ' -.0' > Q '1.<>4' 4<' 0, / / 'J.'6,5.<<.5' .<' > ;1 5'<78' 5'
V '' 04 7' 4 , 68' =4 5' 54 '6.1' 7' 1J ' 4<.' 67'74.I' / '76' '5,16'
-,46' E '- .0' ?, <7' ; ,<6' ;1 ' >.' 7. / ?5.' '4' J <.' .7' ' 5''
-.154% #.1 .68' '47.41' > 1' # ,<71'7' ' '' 0 .<' >1, 7'
> V' , ; ;4?.1' 4<.' ?5' ; .8' .7' 5' '??'17 .7' 5' '4@' E,<>'7.416' >.'
5'' 5 0.17.' E1'<;' 6.' >.'5'' 54 ' > E 1.1% <E <8' 5' < .67' ?.47 '
71.' ?'6' <> E1.1. 178' / , <6' ?,41' 5'' J5, 1.' >.6' : , / / .6' =4 '
,<7' 47 5.1' .<7' 6.1-' 5'' ?'71 .' =4.' ? , ,1' .<; ,41'J. / .<7'
>.6' ; 7,V.<6' >.' . / ? 1.8' >.' E1'??.1' 6,<-.<7' 5.416' V.4@'
>4' 6?.;7' ;5.' >.6' 71 , / ?0.6' =4 ' 6,<7' > ;.1< 6' '4@' > E.<'
6.416' >4' ?.7 ?5.8' .7' 6417,47 ' ; .4@' >,<7' 5.6' -.174.4@' .EE,176'
,<7' 7' ?'V 6' >.' ?.16 ;47 ,<6' .7' > <E,174<.6%
,46' <.' <,46' 6, / / .6' ?, <7' > 66 / 45 8' / .66 .4168' ,0'
Q.;5 ,< =< ,< ?,4-' 7' ?1 6.<7.1' ; ,<71.' .@ ;45 ,<' >4' > '
;1.7' =4.'<,46' 6,55E; 7,<6' .<E' -.41' >.' ,466.'4% .'6.1' 5 ; .'
?'68' > 1' 7 ,<8' / '<=4.1' >4' 1.6?.;7' >E5 '6.6' -,5,<7 6' >;1 '
1.6Z' 7' '' -,454' 71.' .<6.-.5 8' '?1 6' 6'' / ,178' '4@' ; :' / ?6

>,<7 5?1 E-1" ; ,<67' / / .<7 5.'6 Q,41'6,5 7' 1.' ' . .5, '>.6 ; 5>6% "%S_, / <;'>.'5" <'741.'>, 7 1.?,6.1'>'<6 6.6 01'6 I ,< ! '?5' 7 .<; ,1.' 0 5.' - , 1 5,16 '=4G 5 < .67 ?546 =4.' ; .<>1.8 .<7,419 >.6 / 'J.6 >.'6 / ?5 ; 7V =4 ,< 6'57 54' '- , 1 9 ' ; : ,1.68 .7 =4 ' 1'??.55.<7 5.6 1; ,<6 >.' / ,>.1"M 7 ,< .7 5.'J, 07 >.6 / , '416 ?'71 '1; '5.6 =4 5 6 .5 ,17" > <' 6? 1.1'0 6.6 ; ,<7. / ?,1' <6% 8

< 64??,6'<78 / .66 .4168 =4.' ; .6 ; ,<6 >.1'7 ,<6 - ,46 5,4; : '66.<78 7 <,46 1.67.1' 7 >4 / , <6 2 - ,46 >. / '<>.18 '- . : '7,45.' 5" H1'<; .8 =4 .< 5' 66'<7 5.6 ; .<>1.6 >.' % %'

,466.'4 '< 5 .4 ,>' 5.6 1.?,6.<78 - ,46 54 ' E'66 .0 .5.- .1' << ; .<,?: 'E.' >'<6 1 > 5 ; ' ; ,<6' .1>' 0 5" 6>?45741.' >.6 J1'<>6 : , / / .68 'E < =4 ,< < V ;0.1; : .'?, <7 -' < . / .<7 6" ?5' ; .8 5,16=4.5, 7 << - .16 6 '77.<>1' 7 0 V 71,4- .1%

.1 / .57.0 =4.' <,46 - ,46 ?1>6.<7 ,<6 5.6 >.4@ - . 75'1>6 >>1'07.6 = 5' ,<7 ->;4 5,<J7. / ?6 '- . ; % 88 '- . ; 5.61 =4.56 ; .'?5 5,6,?0.'<.'>>>' J<' 7 ?'6 >.'6 .<71.7.< 1 6,4 ' - .<78 .7 >'<6 5" ; ,<- .16'7 ,<>.6=4.56 5 '> / 1' 5 5.'0.< 6.<68 5"<'741.8 .76417,47 5" - .1 7V% , > 5.'0,< ?>1.K' ' 6 5.8 .7 - , ; '5.0,< ! 467 <8 >,<7 5 ?'15.'=4.5=4.E, 6>'<6 5.' ; , 16 >.' 6.6 ,4-1'J.6% & < '??5'4> 7%P

8 7 ' ' ' ' ' .6M

6 .4168 66. / 05>.'<'7 ,<'5.8 .<>.71 6'<7 7,<6 5.6 5 71.6 > ,1 4. 58 " >,<<.' 4< 4546 J1'<>'>;5'7 '4@ ->' 1 5'05.6 5 71.6 >.' J5, 1.% K 5.' " - , 454 =4.' >>6,1 / ' 6 5.6 7'5.<768 5' - .1748 5.' J.< .'E466.<7 5.6 6.45.6 / '1M =4 .6 >.' > 67 < ;7 ,< .<51.' 5.6 ; 7,V.<6 >.' . / ? 1.% # >7' 7 / .771.' ' '?1. / .1'1'<J ' ; .54 '=<'5.6 1'66. <' 05" 7 c 7.6 I; >7' 7 / .771.' %1 % 0 4<.' ?5' ; .' ,4 5 <. ' ? .<7 '- , 1 >.' 64?>1 .41% < 54 ' >>; .1<'<5 4<.'67'M 74 .8 66. / 05>.'<'7 ,<'5.'< " ?'6 ; .<7.<>4 ?,6.1 5.6 0,1<.6>.'5"1. ; ,<<' 66'<; .'<'7 ,<'5.% ,47.'5"J5, 1.' >.' K ,4 .'4 .67 >'<6 6.6 >;1 768 .7 ,< <.' ? .<7 V 'Q,47.1'?'1' 5;4<' : ,<<.418?'1'4;4<.'?, / ?.'71 , / ' ? : '5.I / ' 6; .57.?, / ? .8 / ' 6; .6 : ,<<.4161.<>46' ; ' =4 77.<75" <'7 ,< .7 4 >,<<.<7>.'J1'<>6 .@. / ?5.6% .6 H1'<; ' 6 6.<7.<7 >.'Q,41 .<'Q,41 >' - '<7'J.' ; .' =4 56>, - .<7 " ; .54 '=4 8 >'<6 6,<G ' A' >4 6 7 " 6"Q<67.' - '5.41 5.'?1>7. 5>4 >1, 7 >4 ?546 E,178 1.<> 7 '4@ : , / / .6 .J'5 7> >.6 >1, 768 '4@ ?.4?5.6 5.41 6,4- .1' <.7> >.?4 6 5,<J7. / ? ' <6<1?>.I ; .54 ' =4 '>'<6 7,<6 6.6 ,4-1'J.6 '??1 7 <,< 6.45. / #<7 " .71.' - .174.<@8 / ' 6 " ;0.1 1 5" - .1748 <,< 6.45. / .<7 ' 6.; ,4.1 5.6 ; : '7<.6>4 >.6?,7 6 / .' .7>.'5"64?.167 M 7 ,<8 / ' 6 '466 ' ; .55.6 >4 - ; .I ; .54 '=4 8 <,46 1'? ' ? .5'<7 6'<6 ; .66.' '=%@ 6.<7 / .<76 <'7<1. 684 ,46" ?1>?'1>6 6 '? 66' / / .<5 '< 6.<7 / .<7>.'5" 5 0.17>8 5.'?1. / .1 .7 5.'?: 6 / ?.1 .<@>.'7,46% 66. / 05>.' ; ,467 74'<7.8.< 1. / .77'<7 ' @ .?,<6.6 .7 '4@ / >1.6 '5.' & >?>7>.'5" ; ,<67 747 ,<8 " 647 6'< / .<7 .@?1 / .' 6.6 6.<7 / .<76 .< E' - . 1 >.' .;1 - ' < =4 ' " 1.<>4 " ; .6 5 71.6 6' ;1.68 / ' 6 71, ? 5,<J7. <? 6 / 6 .< ,405 8 5.'?546 >.'>, 4; .418 > >;5'7 U7>.'E,1; .%

66. / 05. .'<'7 ,<'5.' - ,57 '- . ; '6'7 6E' ;7 ,< 5.' - , .4 =4 ' 54 ' .67 ?1.6.<7> ?'1 4<.'1>4< ,< >.' ; 7,V.<6 =4 ' / >1 7.<E8 '47' 7 ?'1 5.<16 7'5.<76 =4.'?'1 5.416 - .1 ' 746 ; - =4.68 > >71.'5.6 ,1J'<.6 >.'5" 1. ; ,<<' 66'<; .' ?405 =4.' .<- .16 % % ,466.'4I .55.'?1.<>1" - ,71.' >. / '<>.' .< ; ,<6 >.1'7 ,<8 >7 - ,46 <- 7.'> '66 67.1 " 5" 6>'<; .%

66. / 05>.' ,1>,<<.' / ?1.66 ,< >.6 >.4@ ?>7 7 ,<6 .7 >.'7" 1>?,<6.'>4 ?1>6 >. 5%

' 'N 5 ' " ?546 >.' : 417 / , 6 =4.' - ,46 '- .0 ,1>,<<.'?'1 4< >>;1.78 > '?1>6 5" / ,7 ,< =4.'Q .< ' ' E' 7.' " 66. / 05. .'8 =4 5 6.1' 7 > . ->8 '< <, < >.'5" <'7 ,< E1'< ' 6.8 4<.'67'74.' ' '47. 1 ,)@ (' .7 >4 G ' '#, / / .<7 .67 5 '11 ->' =4.'#.'>>;1.78 1.<>4 > 4<.' - , @ 4<'< / .' & .78 5 >, 7 / >71.'?.11' 6% >.' 5.' > 1.'?,41 : ,<<.41 >.' ,466.'48 ; .'>>;1.7 " ,07.<4 >.6 '??5'4> 66. / .<76 4< - .16.56P8; , / / .<78 > 6 Q.8 - ,71.' >>;1.7 .67 5 1.67>'Q46=4 '4Q,41> : 4 ' 6'<6 .@. ;47 ,<Z , 5" ; .'=4.' - ,46 >. / '<>.<7' - . ; ' <=4 >74>.8 .7 ? .47 >71.''466' '- . ; ' 4< ? .4 > 1'?' ' 7 .<; .8 5.6 <, / 01.40 '> / 1'7.416 >.' , E66.'48 =4 ' 6.<7 =466 '5.6 ?546 -1' 6 ' / 6 >0 5" ; ,<67 747 ,<8 5.6

?546 0> >6 >>E.<6. 16 4.' ' ; 17.% E, 41=4, 8 4 6.47 ' 7568 5.'<, / '>4 / ,>.67.' ,466.'4 1.67. 7 B'6'<6 : ,<' <.4168 7'<> 6 =4.' 66. <05>.'<'7 ,<'5.8 ,1J'<.' .7 <7.1?1>7.'>.6 6.<7 / .<76 > '> / 1'7 ,< .7 >.' 1. ; ,<M <' 66'<; .'>.'5" ?'71 .8 6 .67 . / ?1.66>.' >.' >. ; '1.1A > J<.6>.'1. ; . - , 1 5.6 : ,<<.416 >> . .1<.6 '4@ J1'<>6 : , / / .6 .7 .'E' 1.'?,17.1 .<71 , / ? : .' '4 '<7: . ,< E1'<; ' 6 5.6 #.<>1.6>.' ,57' 1.' .7 >.' 1'0.'J Z

34, =<.' 66. / 05>.'<'7 ,<'5.'<.'?4 66.'>71.' ' ; ' ;46>.'> <> EE.1.<; .'?,41 '47.41 / / ,17.5 >4 G A' ' ' ' .55.'6.'>, 7 ? .47 U71.' ' .55. / > / .'>.'1>' ?,<>1.' " ; .77.' =4.67 ,<I .7 . .67 ; .' = .'Q.' ' 6 E' 1.' .<71.6 ?G '>.' / ,76%

.4 >; 'Q,416 '?1 6 - ,71.'>>>1.5 >4 C ' >>. . / 01.8 =4.5=4.6 Q. ,<.6 '17 67.6 - <1. 7 .' ?1>6.<7.1 ' 5" 0'11.'>.' 66. / 05>.'?,41 >. / '<>.1 =4.' 5" 67'74.' >.' ,466.'4 E>7 /] .' '4 ; ,<; ,416% 66. / 05>.' ,1' >,<<" =4.' ; .77.' ?>7 7 ,< 6.1' 7 1.<- ,V>.' ' 6,< ; , ' / 7> >.6 ?.<6 ,<6% < ; ,<6>=4.<; .8 5.' ; , / 7> 6 .67 '>1.66>' " ; '>> / .'>.' ;45?741.8 E ,41 =4 .55.' .E 7 '54 '?1,?,6.1 4< / ,>.'>.' ; ,<; ,416% , / / .8 '4M 7,1 6.'?'1 5.' ; , / 7>8 Q.' / .'64 6 71'<6?,17.'?546 .416 E, 6 ; : .0 > .1.<76 '17 67.6 I 7, 47.6 ; .6j >. / '1; : .6 ,<7>7.' <47 5.6% ,1 < 6'7 ,< ' ; 74.55.'>.'7 ; '>>' / .86, ' '> / < 671'7 ,<\ ; ,<; .<71>.' >'<6 4< ?.7 7 <, / 01.'> <> - >468 6 .67 7,4Q,416 ,??,6 .' ' ; .'=4.' ,< ?>7 ,07.< 1''< 1>6457'7 6'7 6E' 6'?78.7 / > / .' " . ' =4.'7,<6 5.6 '17 67.6 <7.1.66>6 ?466. 7 ?1.<>1.' ?'17 " ; .77.'>>5 0.1'7 ,<I 5.'#, / 7>54 <> / .8 / '5' J1.'5.'b.5.'>.6 / . / 01.6 =4 '5.' ; , / ?,6.<78 < " ?4 - ,<6 ?1,?,6.1 4< / ,>.'>.' ; ,<; ,4768 ?'1; .'=4 5 '4 ' 1' 7 ;1' <7 >.'?1>Q4J.1 ; .'=4.' - ,46 '41.0 " >. ; >.1 641 ,0Q.7 71.6 / ?,17'<'>.6 ; ,<; ,4168 5,16=4 5 6 'J 1" >.' >,<<.1 4<.' ,1J'< 6'7 ,< <,4- .55.' '4@ ; '>> / .6%

' 55.4168 / ' ; ,<; ,416 ,1>,<<>'?'1 66. / 05>.' <'7 ,<'5.''<1' 7 Q.7>5" <'7 ,< >'<6 4<.'>>?.<6.' ; ,<' 6 >>1'05.8 ?'1; .'=4 5 .E 7E'554 >,<<.1 >.6>>>, / / ' ' J. / .<76 '4@ '17 67.6 >,<7 5.6 / ,> 5.6 < '41' .47Q '6 >7> ?1. E>1.6% ,47.6 ; .6 1' 6,<6 1>'< .6 . / ?>. : .<7 =4.' - ,71.' ; , / 7> < .'?4 66.' - ,46 E' 1.'4< 1'??,178 .7 . .67 '4Q,41> : 4 8 >.' '- .< / > / .'>.6 / . / 01.6 >4 ; , / 7> =4.'Q ' ' ;14 >. - , 1 .< ?1>- .< 18 =4.'Q.'?,17.' > 1. ;7. / .<7>. - '<7 - ,4 ' ; .77.' / > / .' 'EE' 1.%

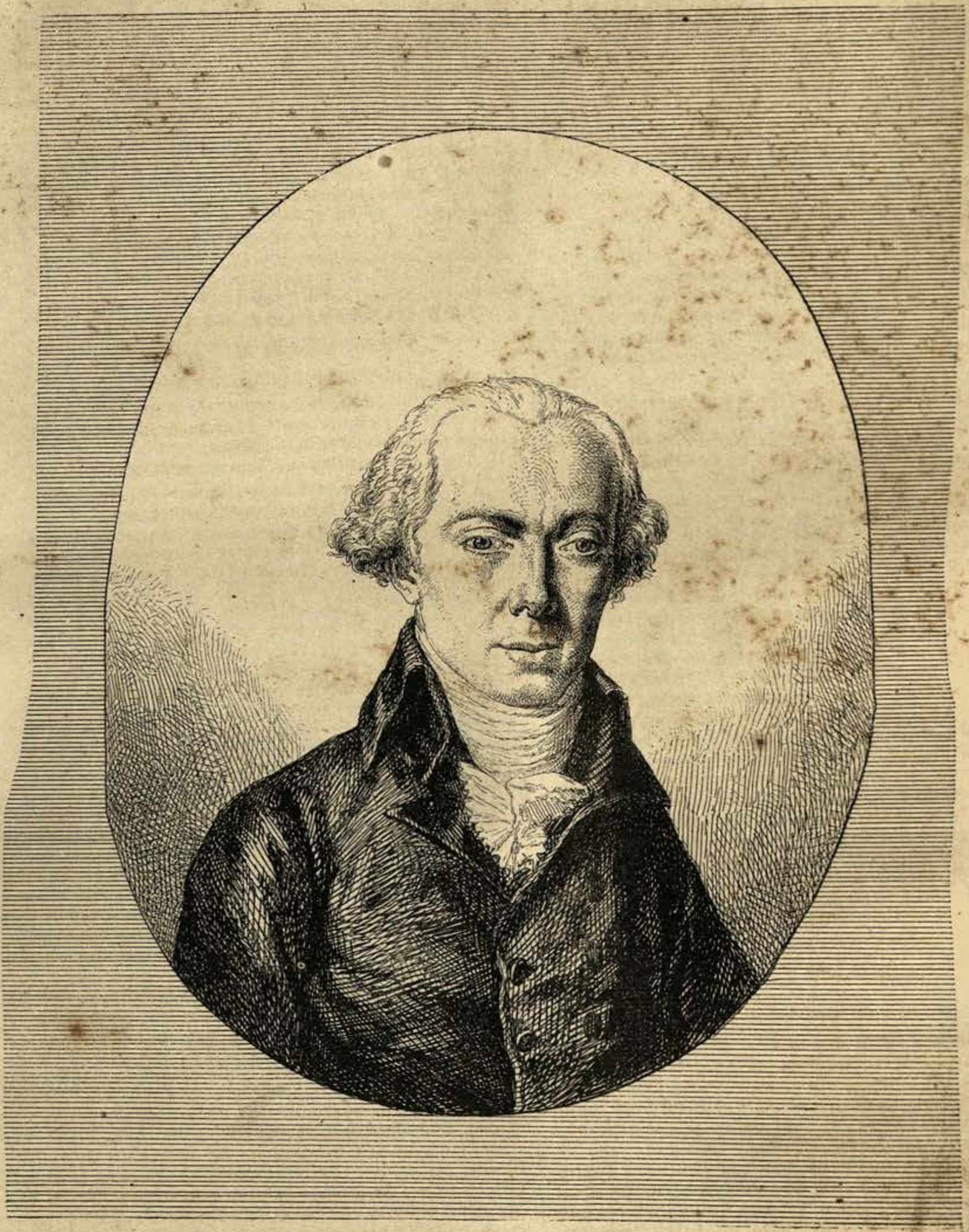
, 5" , : .< 6,<7 5.6; : ,6.68 >'<6 W / , / .<7 , : < J1'<>'< / 01.'>.' ; 7,V.<6 >.'7,47.6 5.6 ;5'66.6 - .<<.<7 - ,46 >. / '<>.1 .@. ;47 ,< >.' - ,71.'>>;1.7% ,46 - .4.0 > .<7.<>1.'5V6 : '0 7'<76 >.' ,<7 / ,1.<M ;V I 56; ,<6.1- .<7 4< 7.<>1.' .7 1.6?. ;54.4@ 6,4- . ' < 1 >.' ,466.'48 ' <6 ' =4.' >.6 .@. / ?5.6 >.' - .174 =4 5 5.?1" >,<<.6 8 5,16=4.8 E4V'<7 5.'014 7 .7 5" ; ,1M 14?7 ,< >.' '1 68 ' / .> 7' 78 5 ; , / ?,6' 5 '4 / 5 .4 > .4@ 6.6 6405 / .6 ,4-1'J.6 N 5.6 .5. ;7.416 >.' '1 6I 76 E41.<7 5.6 ?1. / .16 >.E.<6.416 >.'5" 5 0.17>'>'<6 4< 7. / ?6 >.'?>1 5 .7 > ' '1 / .\ ' ; .'5 71.' 76 : ,<,1.<7 .7 ; : >1 66.<7 7 " / . / , 1#>.' ; .54 ' =4 'E47 5" - ;7 / .' >4 >.6?,7 6 / .8 ?'1; .'=4 5 '- ' 5 >7> '?: 71.'>.'5" a' 0.17>' .7 5.'?1>;416.41 >.'5" 1>- ,547 ,<I 'J.<6 >.' 5.571.6I 7,46 : ,<,1'05. / .<7> 67 <J4>6 ?'1 5.416 7" ' 5.<768 56 ,<7 ; ,<<48 6 ,<7 ' / > ,466.'48 56,< ' > J<. / .<7 ?'15>>.54 >'<6 5.416 ,4-1'J.6 I 76 - .<M <.<7 .@? .1 5.' ;1 / .'> . . .4@ =4 ' ,<7; '5, / < > ? .<M >'<7 6" - .8 =4 ' ,<7 ?,4164 - 'Q46=4.' >'<6 6,< 7, / 0.'<I 56 - .<J.<7 '4Q,41> : 4 ' 5" / > / , 1.'> 4< J1'<>' : , / / .'>.6 ?.16>.47 ,<6 >.' .<- .' .7 >.'5" / >> , ;1 7>% ,<6 ; .6 ; 7,V.<6<.'6,<7=4.'5.6 <7.1 ' 8?1.7.6> 4< - '4 =4 ' - ,46 ?'1- .<>1' 5 >.'7,47.6 >6 ?'17 .6 >.' . / ? 1.8 6 .55.6 >7' .<7 ' ?,17>.' >.'6.' E' 1.' .<7.<>1.'>'<6 ; .' / , / .<7%

'<6 >,47.' 5 6 .67 ' ; =4 6 4<.''66.0 # '<>.'J5, 1.8 ; .54 ' =4 '<,<6 " 71' ; > '- . ; '4<.'6 '?1, / <>.' ; ,<<' 6 ' 6'<; .>4 ; ; .41 : 4 / ' < ; .'0.'4 ?5'< > .>- .'7 ,< =<' >.- .<>1" >.'Q,41 .<'Q,41 > 4<.' '??5 ; '7 ,< ?546 ; .17' <> .7 ?546 E' ; 5.8 > '?1 6 5.6 ; : '<J. / .<76=4>

Q1'' <>;;66: ; / .:5 5.65 , <77 .6.7>'K
5.6 ;:,6;6 5'' J1'<>.' &Q,7< / ,7 ,< =4.' 770<6% 1.<,<6
> ?1,77-.1I; / 4 '=4 '>'<6 6.6 ,4-1'J.6 ?,5 =4. Q
.7 6417,47 >'<6 5.'G ' '' 1..5' / ' ' ..
7'<5 ;5.<.1J .' 5.6 >1, 76 >.6 <'7 ,<6 Q =4 '< % 7'0 '
'-.;' '<7 >.'E,1;.'5'6.4-.1' <.7.' < ?1.6;-%?5 0 .' .7
<'5 .<'05.'>.6 ?#4?5.6 I =4 ' '' ?,6.' 76 ?1 <; ?.6 < '
/ 4'0 .6.7. .1<.56<<'6.?7 5.6 E.<>.Q<.<76 >.'#.77.'
;,<67 747 ,< .,<71.' 5'=4.5 .' - . 451,7 7 6.' 0B6. G 5.6
-' <6 .E5,176 >.'7,<6 ;.4@ =4 ' '41' . 7 ? 7 E.1 <.1 5.'
?1,Q.7 <6.<6.'>.' 5'' 1.<-.16.;I ;.54 %.<E < > ,<5 '< '
7,1 7.8 6'6>4-#<7 : ,=4..'>'<6 .#77.' 71 04<.' ' '0' '
5'< ' 7 'B ,41> :4 ' / # / .' -,6 64EE1'J.68 ;16=5 5
I 'J 66' 7 >.' ?1,<, ;.1 641 4<.'5, % '5'=4.5 .' ,<' ,? '
?06' 7 = .8 6 '.5 .' .5' 7 %?,17..' \Q81 \' ,466.'4 E.'
7104 .1' 7 .@.54 _4;,1?6 5.J 5'7 5% ! .7 :, / < .f > 6 '
.8 6 .65 ;0<-.15 > 4<.'J5, 1.' / / ,17.55.' '' 5'=4.55E.'
5 #67 > E5 ; Q.'>.'1 .<8 ? ,47.1I % / '6% 'E' 7 =4.' ..75.'
= 1.'6, 5 .<; ,1.' 47 5# '' 5'' <% 7 , / '<> 6 =4.' -,46
':#'<7 66.0 6'?68 7.7,4E >.6 > 67 <.7 ,<6 '...,1>.. '
?'1 5'' E'-.41 .5 6 '6,4-.<7 <Q.<> ..6 ?'1 5''0'6 . 6.Q
,75-1.08 ,<-1.0 >. '7 7<,46 5'' ;'11 #1.'>.6 0,B .7 '
?405 ;6%8 > 5H1.0 <.468 '' .@. / ?5.' >.68 'J. .<6I >.6
,0 .76%> . / 45'7 ,< =4 %8 ?,41 < .'6.14 1 >.6 .@?1.6M
6 ,< '>.' ,466.'4 1'', .<7 > J<.6 '' > #;:'4EE.# <,6
; K5 16 >.' 6.<5 Q4 .<56 > :,<<.%41 .7 >.' J5, 1E 6G ,71
E1.0 <,46 ;.6 1.;, / ?.<6.6 =4 ']41- -.<7 '' ;.4@ =4 '
5.6 0<7 007.<4. I .7.1< 6.0 ?'1 5.' / '101.' .7 ?'7 7 ' '
1'57 '5.6 / 'J.6 >.6 '<>6 ;, / <.6 =4 '>, -.847 :,46
6. - 1>.' / ,># .6 ''E < =5 .' 5.6 / ,<4 / .<76 >.' <,&1.'
'> / 1'7 ,< .7 >.' :=7E.'%1.;,<?' 66'<..' , .:7 '466'
>41'05.6 =4.'5.416 0 .<E' 76% d'?1E.6 ;.6 .,<6 >. ' '
,:68 Q '' :?<:.41 >.' -,46 ?10?.6.1 5.' ?1,Q.7 >.'
> 5; 1'7 64 - '<7N
W % '7057.'<'7 ,< .'>#;177.' Y % ,776 ;'> .67
4 J?.'>.1 %;.-, ; 5.6 5 ,<<. 16 >.1'55 .6 ''@ J1'<>6 0 55q
/ . ' .7%=4 E.< ;,<6 J<.<'.'6?6 .E.<Q .6%] .1,<7 1'46E. .6
$ '5 '<0#4< 7-'<8 '6G% 5.';:'1J.'5.'> 1..5,Q.'8> 5 > ?'16
/< .07 >.' '1 6 >.' .@>;47 ,< &Q.' ;. 7.'?'15 ? > ' ?1.6.<7
>..1.7f >1><<:.' . ' K 5E;' = .' 5.' / < 6 1.' >.' < .1 .41
E.7'' <.555Q.' : #.66'> 05<5%:' . 0., 0> E.'%> 7;1.7=4 . 7.0
E.0> 5 E.' 6 ' ;# <05# (>98 0015'E'7%= 5 6#1'' 95.Y9 7
'4E.01 9] ' '7 ' #0<1>E . ^ ' 50E.'867'5=.8 i -..
;.77.' <6;1 ?7 ,< 6 E > $ ' 5 ' ' ! =3 '& =
>? < >:' I 7 ' 'E.65 B5. E EE 7 0 ' ?>g
E17 E4.7 7 '>??5'0> I .7 #:V%
8 004# 5 N 0 7E0<-.' E,17 1' 60<:'05.' =<\ 5.6
:,<<.41 '1.6.10E.'0 @ JE' >6 <01,<7.6 6, .<7 >> '
;#1:#6 ' % % 0 66.04I '6 Q.' .10 6 =4.' ;.' 6.1'Q7
1,? 69 5 .1 =4# ># 1.:> .'E.'=.;1.7 .< ;.' / , / .<7Q
E.' >E.? 7 >.6 ;.<>1. '>.' ,466.'4 ?%67 >'<6 715
>>: ' <.''?0'17.<'<7%'' % ! 1'1> <, ;.'>.?97 .67 (
?'5E <? 7 E..7 '?E0?E .7.>.% > J 1'1> <%=8
V '#. ''< #67 ?'6 -7' %P &5 .67 %;,: 4 =4 5 ?67 5.'
J'1> E.:' .7 9 >.?>6 7' 1.% >.6 ;.1 >E;G >.' % % ,46 8
6.' 8 > 0? 56 E.6 <7.<6 ,<6 : > <.'>.' ,466.'4W%6,<
'/ % 7 7 ?1E.6 ;.77.' E.E5.@ ,<8 =7 ' / .' <'1'57 4< E' 5
>.;56 78 Q.'?.<6.8 = 7 5 E' 7 E.<-,V.1 8 '' ?1,?,6 7 ,<
= ' -,46 .6Q E' 7.' '>%;, / 7.'>.' ;,<67 747 ,<I 5.=4.5
6.1> 75 >1JE.' >.' ?1.<>1.' ;?< ' 66'<;.'>.6 <7.<7 ,<6
.' % ! 1' > 8.5 E.E' 4 7E.>.' -,46 / .7c18.'6,46%5.6 V.%4G
5.' ?1,QE.7>.' >E..E.7 5.' ?5 6 >,<-.<'0 E.' > .7'7 >.6
;:,6E.6% $
8 % 70B a ': B S ! .' < E.67 6EE1. / E.<7 ?'6 ?> 5E
/ ,??,6;1'4 :,5 <.<16=4.' ,< -.47 1.<>1.' '' %G '
,466.'4 =4.' Q.' ?1.<>6 5'' %?'E,5.I / ' 6 E. .67 ?'E.;.'
= .'Q.' .10 6 &Q4.' 5G,06WI1-'5 ,< >.' I K,4E;:.' / E.1 7.'
5'' ?546 6.1 .46.' '77.<7 ,<I) ' -,46 ,576 >.7E.1< <.0
'' - ,7.E 5'' ?1,?1 .7.'>.' ' ! 1'1 5 ,I Q.' -,46 >E.;5'1#Q
> '?1.6 5'' ;,< / 7 66'<;.' ?.16,<<.55.' =4.' Q ' ' >.' 6.6
<7.<7 ,<68 =4 5 E.1'' 7,47..' =4 ' .67 ?,66 05.' '' 4<; '
7,V.< 1.6?.;74.4@'?,41Q.6 5, 6 ?,41 <?E..:.1 =4 0<
5 4 .< .-.'7.6 1.67.6 >.' % % ,466.'4% % 1 / .<,<

- 55.-6><E 56I E E 77 > '*0.:>7'S. '5 00:.416 1 / E.'
01.6 U >57' 1E.8 U > 7 =4.% ' ,< 1E.:>' 7 5.6 / . / .6
:><:E. E. ' '6) 6) '=0E.'6 ' , 5 -;<' 5 . 5.-,1 >.' 5.'
>. ?. ?5 .168 6 74..8'4% 0 .4 > 'Q'1> <> 1< ? ,<'
- 57.8 5. H. 7.6 >.' Q% Q%8 5 V.J'1>.1' 7 .17 ';7. ''
;, / / .' . E.7>4 ?546 ;1 '<7 >.6?,5 6 / .% ! .'6.1'804
;,471' 1.-4:;, / / 'J.'1.<>4 '4@ ?1 <; ?.66';1. 6 5;
5''%?1,?1 .5.' =4.' >.' -, 7 5.' ;,1?6 ;,7 67 7<'<7 5 '
/ E. / .'>.6.E.<>1.'Q46=, '' 6,55 ; 5.1 7 7 ; 50V.1 '?0 1
'-, 1 47 .' ;:,6E.'7f 4 54 ' '??' 7 E.:7I & ! < >? ?5' / 5 7% '
% ' 55.416 'Q.;1, ' 4 5 V '<1' 7>.' 1 :;,<-. ;7 7Q
>7 66. QE.'E.51E.' 71'>5 7 , ' 6 'G 1 ' '' . >1..<
7 , 6 . / .6 7 % >75 E.>5 Q. ' / E.6 :,<<.416 = .'
-,46 \0 1.:>46 '4 '>. ' ?1.;,>.<76% .';1, 6 >,<.'
= .'1 66. 505E..'>, 85 1.<-0V.1 '4 %;, / E.' >.% ;, 65 '
7 5 ,< ?,41 , 16 5 < V '' ?'68 >'<6 5.6 >.7' 56 .7
>'<6 .' / ,>.8 >.6 <,V.<6 >.' 1. 7'05 1 ;E.57E.' ?1 ,1 7V
= ''?? 7 .<76 '. / <. / / .<7 '' N ,466E.'<%
% K, / 6V N 0<' '' ?1.5.<>4 =4.'5.6 1.<7.6 >.' % %
E.5'E.1 7 ' ?1>?1 E. 7.' >E.' % ! 1'1> < c ;.17.6I 5 6. / G
0 .' KE.< >71' :J.'> .7 .1 >1E.' > 1.' =4.' 5.6 1.67.6 > 4<
JE.'1 > :,E7 .' 0<7 <.G7P1& ?B.5.'' 71.' =7 <<.' ?1,M
?1 .5.' B'7 0<'5.% E < ' ?5'4' 7%5 / / ,17.5 '47.41
>4 ! 0E7717 7 '?E,7;1 58 ?. 6.; 7.I ,05 J.'>.'E4 1
6. '.<<. / ' .7 E.E.' :, / <.6 / . 5 ?;1.6 =4 ' ,<7 ,451' '
JE.'>.' > '- ->5 78 ' 1,4 .'41 ' 6 .8% 4?1.6%>.' ' / 7 E.Q
W ?1 '>,' % E. E'1> :'8 E.7 ;.' C75 4:01.' 5% ! 1'1> < '
QA%% Q18 '8 N%%% <05J?1, 6
6.6 1.6 '
% :,17 6<0 '
?>6 0;;4?.>.6.6 E 4 .1' 55.6%
! 66E. <05..' <> ,:>5.' > >. '' E.:> '>.4@ :,<<.416
E E.0 .6 >55 :E.1:E.' JE.:1.8 .5 Q.% 1.<5'E=4.' =4 56 ,<7
.5E.'E.E.B> '75B 6 5.6 >.4@ .,<71.'85'' V,5,<5.'>.' ;.4@
= ' K K5 7 .7 '5.6 0 Q.7 % I ,57' 1.' '-' 5 ,1>,< . '
?>E 0E' E.65' <E.:78 %= 7.'6.68 1.67.6 E466.?7 ?,15.6 U
H.EB.E .7 >E.?? .= >'<6 5.'70 / 0.'4 =4 5 ?-' 7 54 '
17. 5E.' .E.-E.'$ % 1'0.'4 '-' 5 ,<5,<<.' =4.'6.6
EE.67E.' E4 6E. '<015E.6 > 1J.:7. % ,46 '-.0%<E.'<'
:4 : '>.E.1.7E.'?>:1 . 5@ 58.6%%B, :<. 16 >4 7. / ?5.'>.6 '
7 E.' '' 1E.;. 0 18 5.\ JE'<>6%:=E=: .6I .7 >'<6 ;.' / , '
55.:5 E.'005 ?'E5Z>.'1 :7.1E.5>. I ! 1'1 5 ?5 ! .17.686 '
1 5 75 E 7>.' % ! E'1> 7 ' .7' 7 ;,<71' 1.' '5'' J ,01.'>.'
, 6E.'7 8 5 .1' 7 7 .:'?. '> J .' =4 ,< ?'15'7 >.'
54 8 &0B '??5'4> 7%P .'>. '<>.= .8 ?,41 :,< .41
>E.' 66. / 05E..8 , 5 ' 55.'6 E 5. ;<' / ?''4@ -, @ 641
5'' 0.7 7 0<I % ' % $ I $
& % I E.' 0 7 .:6%Q 0? < ,:';,<71' 1.I .7
. . 7 ?0 1 ''J5, 1.'>.' 8 % ,46%6.'4 < . / .' =4.'Q.'
6055E.7 % '#.77.' 0? < 0:% 4 .'' ;1, 1.' =4.' %' 7.41
,0@ '=4.' '47.41 >4 G ' .7 >.6 :0 '
7E.6 ,5 V5 > .' Q4 '?7 5 1 .17.' / / ,17'5 7.8 6 5 8YB' 7
>% 1 6 ;E.57E.' 6. 07..88 6.1' 7 5 57.' 54 < .< .' >.' ''
5 ,05.E.' <E.E..46E.'1.6 67'<;.'=4.' % ! 1'1> <8 =4.'
6E.6 + $'' 1,7 7 ' .<5E.-. / .:5 '4.' ,< ?1,?,6.I .'
.0< ' ';0 < .'41' '471.'70 7 &.' ?E @ >.' 5'' J5, 1.I
1:' 6 QE.' 'E. 1E.8 ?,41 5'' 1 >E'5 7.' <.< .>.'5'' 1.-,54M
7 ,<8 =4.'<,46 1E.;, / <.<6 ,<6 '-' 7 7,478 5.6 -.1746
>0 1 E. 7= E. .5 1 K 7 .% 770 .'57Q > 6?47.>'7 <.'<'M
7 ,< 8 > 6?47.' '' 7,47.6 5.6 <'7 ,<6 ?>E 6,< '< 8 ?'1
;, 77 ' =4 ' > 'E.E. E.55' 0E 055 7 >7> 7 1.?,466.' ?'1
7:46 E.6 ' 51E. Q ?>H E..57 '7Q45 54 ' > K -E.17 ,< ;E.. 1
5,H6=4 5 7 .'71, > 50:.0 .6'47E.6= E.1 J4. 18=4.'
:>5<.I = .:-E.I > 6E.> '> 0 5 8E @.1 '' 75E.1 .1.'
>. / . E.' E.:E.b ;E.5 7'7Q 5 7 ' > E> 7 .?H, -.1 E.%6 <;1 '
< E.1.6 #,5 6>5'7 01 I 0.'7B ,17 ?:E.'>.'6'' J5, 1.' .67 < '
>E.?.<>':7 7 4 7H'<6?0B'?:V6 =5 'E.7 : :7.E .'> '?.7 7
/ 0:E.E.B >.' .E.:>1E. ' =4 '7E. 7.<5>E.'7E.' JH':>'E , < / .I
.'?> E.0 46 ?>6I 6'1 6 E. ''B451 .E8 6'< ' '11';<.1
'' 6,4 > / 5 .E.'= 'H.67E.'>.'5 8 ? > ..E 601' 1<: <. 5
>'7 6 5.' 5 .4 E57 J 046 *-.C >.67 1 E.%> :E<017'5 6.1
;.4@ = '01 70 .1' / E.157E.>.'5'' >'7B. G ' BV '' ?'6 4<
>.' -,46 =4 '1E.'E 4 6.' ?.E>HE.' 45'E1 E.E.I 5 1 ?.1. 8 1
7 56 8 =4 ' / #1 7# 7 >.'5'' ?'71 .' 5.6 ?546 J1'<>6 :,

[illegible]



Typ. Henri Plon. Réimpression de l'Ancien Moniteur. — T. IX, page 529.

De Curt, membre du comité de la marine et du comité des domaines, député de la Guadeloupe à l'Assemblée nationale constituante.

! b ,Y K 8

[illegible]

3

[illegible]

- . - +) , / ; A

[illegible]

H #

[illegible]

8F 9

[illegible]

K

K 75 8

8 F

<F1 4D 0 $ 030 6W 1 02

[illegible]

ˢ 7, 1.ˢ>,ˢ> 671 ;7>.ˢ ' <S U8' ' 7>>?'17; / .<5>.6 ,6J.68
ˢ 75,4.18 '4@E1' 6>.6 '> / < 6717.8 5" ?'17 .ˢ>.ˢ 5" / ' 6,<
; , / / 4 a ˢ>.ˢ ' <7 9 >'<6 5.=4. 5.ˢ 5.ˢ > 1.;5, 1.ˢ ,7 .ˢ
71 04<'5>.ˢ;.ˢ> 671 ;7 ,<7 5,E / >ˢ5.416 '0 66. / .<76 I %
W ?71,4-.ˢ5.6 1 ?'1'7 ,<6 > 0 E' 5.6>'<6 ; .57;ˢ?'17 .ˢ
>.ˢ5" / ' 6,<ˢ; , / = 4' .8 5,16 >.ˢ 5" E,1 / '7 ,<ˢ>.6 .7'05 6ˢ
6. / .<768 .7 '47,1 6.ˢ 5.> 7 > 1.;7, 1.ˢ >ˢE' 1.ˢ ?1, ; >.1ˢ "
'>04> ;'7 ,< '< E'0' 6 >.6 1.?'1'7 ,<6 .7 '11'<J. / .<76
<7 .416 " E' 1.8 #,<7 ,1 / . / .<7 '4@ >.4@ >.- 6 >.6 C(
/ ' ' .7 C '04 5.7>. / .168 ?,41ˢ5.ˢ / ,<7'<7 >.6>7.6 '>04M
> ; '7 ,<68 1.?'1'7 ,<6 ?1. / 01.6 E' 7.68 .7 5.ˢ?1 @ >4ˢ5,V.1ˢ
'4 ?1,E 7>.ˢ5", ; / / 4<.ˢ>.ˢ ' < .8> 1.ˢ5.ˢ7,47 64??,17.ˢ
ˢ ?'1ˢ5.6 '> / < 671.68
66. / 0 ..ˢ <'7 ,<'5.ˢ ,1>,<<.ˢ .< ,471.ˢ '4@ > 1.;ˢ
07,51.6 >4ˢ>.?'17. / .<7 >.6 ,6J.6 .7 >4ˢ> 671 ;7>.ˢ ' <7ˢ
.ˢ>. 641-. 55.1ˢ5.6 ,4-1'J.68 ?,41ˢ=4 5 < 0< 6, 5 E' 7
=4.ˢ;.ˢ=4ˢ .67 <> 6?.<6'05.1, .<7 <.;.66' 1.%6
+ˢ 41ˢ5" ?1,?,6 7 ,<ˢ>.ˢ % .J<'457 ^>.ˢ ' <5ˢ
.'<_7 ˢ <J.5-P7.ˢ>>;1.7 64 -'<7 .671.<>4N
W 66. / 055.ˢ <'7 ,<'5.ˢ>.;105.ˢ=4 ˢ '-.< 1ˢ 7,<6 5.6
>.;1.76 =4ˢ #@.1,<7 0 . / ?5' ; . / ;<7 =4.ˢ>.-1,<7 , ; ;4?.1ˢ
5.6 ; ,1?6 '> / < 671'7 E68 5.6 71 04<'4@ ,4 '471.6 . '05 66.ˢ
/ .<768 <.ˢ?,411,<7 .71.ˢ1.<>46 =4.ˢ641ˢ '- 6 >4ˢ / < 671.ˢ
>.ˢ <7.1 .418 '4=4.5 5.6 >.?'17. / .<76 .7 > 671 ;76 6.1,<7
7.<46 >.ˢ6 '>1.66.18 .7 "=4ˢ 66. / 0 ..ˢ<'7 ,<'5.ˢ1.<1, .ˢ
5.6 >. / '<>.6 .<; ,1.ˢ.@567'<7.6 >'<68 6,4ˢ; , / 5 ˢ > . / ?5'ˢ
1' ;<7%Y
+ˢ <ˢ< . / 01.8 >4ˢ ; , / 7.ˢ.; ;5>6 '67 =4.ˢ?1.6.<5.ˢ
5.ˢ>. ;1.764 -'<7N
, 66. / 0 ..ˢ <'7 ,<'5.8 641ˢ5.ˢ; , / ?7.ˢ=4ˢ54ˢ" . .ˢ
1.<>4 ?'1ˢ6,<ˢ; , / 5 ˢ. ; ;706 '65 =4.8 >>;105.ˢW.ˢ=4ˢ64 7I
W 178 1% ˢ< V '41'">'<6 5 ˢ- 55..7 7.11 7, 1.ˢ > 4; ;ˢ
=4.ˢ>.4@ ?'1, 66.6 ˢ5" ?'1, 66.ˢ;'50.>1'5.8 6,<65 <-, ;' "
8 7 ,<ˢ>.ˢ ' <7. '1 .8 .5ˢ; .55.ˢ>D ' <7 <'5%
"<% #:';4<.ˢ>.ˢ;.6 >.4@ ?'1, 66.6 '41">.4@ 6<; ;41G
6'5.68 6'-, 1ˢN 5" ?'1, 66.;'55 >1'5.8 ; .55.>D ' <7 .11.ˢ
.5ˢ>. ' < . '1 .I .75"?'1, 66.ˢ>. ' <7 <'58 ; .5E.6 >.ˢ
' <7 #1 ;= ?5>.ˢ 41'4%
" % #.6 ?'1, 66.6 .5 64; ;<16'5.6 6.1,<7 . 1; ,<6;1 7.6
>'<65.65 / 7.6> 6J<0.6 ?'1ˢ5.ˢ 1, ;06 1.10'5 >4ˢ > 671 ;7
>4ˢ '04 5.7>.1< 018
W % .6 ?'1.6 . ˢ>.ˢ ' <5 ! 1 ;=8 >.ˢ ' <7 .11.ˢ .7
>.ˢ 41'<8 6,<7 .7>; / .41.<7 64??1 / 0.6%
#.ˢ>. ;1.7 .67 '>=?7>%
+ˢ 66. / 050.ˢ <'7 ,<'5.8 641ˢ 5" ?1,?,6 7 ,< > 4<
<. / 01.ˢ>.ˢ6,<ˢ; , / 70 >.6 1'??,1768 1.<> 5.ˢ>0;1.7 64 M
-'<7 N
" 66. / 0 0.ˢ <'7 ,<'5.8 '?100 '- , 1ˢ .<7.<>4ˢ 6,<ˢ; , ˢ
< 50 >.6 1'??,1768 >0;105.ˢ=4.ˢ5.6 6; .55.6 '?? ,606 641ˢ5.6
/ ' 6,<6 1,V'5.6 .7%;' 66;6 >0?.<>'<7.6 >.ˢ5" 5 67.ˢ ; - 5.8
.< ; ,<6.=4.<;.ˢ>.ˢ6,< >0;1.7 >4%%%%% 04 < >.1< 018 6.1,<7
5.-.68 ?,41ˢ5" > 6?,6 7 ,<ˢ>.6>7.6 / ' 6,<6 .7 ;' 66.6 05 .ˢ
1. / 6.ˢ0 ; .4@=4ˢ.<ˢ>, -.<5 051.ˢ; :'1J06%'
+ˢ % '0'4>ˢ / ,<7.ˢ '5"71 04<.ˢ?,41ˢ?1060<7.1ˢ=4.5
=<.6 '15 ; .6 '>>7 ,<<.56 ˢ ,1J'< 6'7 ,<ˢ>.ˢ5" J.<>'1 / .M
1 .ˢ<'7 ,<'5.%
0 66. / 0 0.ˢ>.; >.ˢ=4 56 6.1,07 / ?1 / 06 -'<7 > 071.ˢ
^46%
+ˢ < / . / 01.ˢ >4ˢ ; , / 70 >06 / ,<<' .6 >. / '<>.ˢ
?'1,5.ˢ?,41ˢE' 1.ˢ4< 1'??,17%
66. / 0 0.ˢ>0; >.ˢ=4 ˢ 6.1" .<7.<>4ˢ>. =' < 6, 18 ˢ
" 4<.ˢ60'<;.ˢ.@71' ,1> <' 1.%
% ˢ ˢ ,6ˢ; , / 7>6 >.ˢ ; ,<67 747 ,<ˢ.7 >;ˢ
1.- 6 ,<ˢ-,46 '??,17.<7 5.ˢ; , / ?5. / .<7 >.ˢ -,6 71' ˢ
-'4@ N ; .67 5.ˢ 1.6457'7 >.6 ,? < ,<6 =4 56 ,<7 1. ˢ
;4. 55 .6 >'<6 ; .77.ˢ 66. / 05>.8 ;7>.=4.5 < .60 ;1 76
6.<6>6 =4ˢ 5.6 ,47 >;5' 1.6% ,47.6 5.6 >..6 6,<7
E @>.6641ˢ; .6 ?1 <; ?.6N 5"<'7 ,< "5.ˢ>1, 7>.ˢ1.E,1M
/ .1ˢ f+ ; ,<65 747 ,4I 7,47.ˢ ; ,<67 747 ,<ˢ 6'J.ˢ>, 7
1.<E.1 / .1ˢ5.6 / ,V.<6 > '11 .1ˢ '5" ?.1E.;7 ,<% M
-.16 ?'17 6 6.ˢ?1>6.<7.<78 ; .<71.ˢ5.6=4.56 ,<ˢE' 7 >.6
,00.;7 ,<6 ?546 ,4ˢ / , <6 J1'-.6% L' '41' 7 5 4<.ˢ
#,<-.<7 ,<ˢJ. <>1'5.ˢ"4<.ˢ ,=4.ˢE @.8 =4ˢ6.1" < ˢ
-;67 .ˢ>.ˢ7,47.ˢ5" ?4 66'<;.ˢ<'7 ,<'5.ˢ .7 = ˢ?,411"
; : '<J.1ˢ7,47.ˢ5" E,1 / .ˢ>4ˢJ,4-.1<. / .<7Z L' '41' ˢ
7 5 5 <.ˢ#,<-.<7 ,<ˢ?>1 ,> =4.ˢ" 5'=4.55.ˢ,<ˢ?1.ˢ
6;1 1">.6 E,1 / .6 ?,47ˢ ,1>1.ˢ>.ˢ6.6 71'-'4@Z <E <

V '41' 7 5 4<.ˢ. ?,=4.ˢE @.ˢ"5'=4.55.ˢ4<.ˢ'66. / 0 >.ˢ
>.ˢ1.- 6 ,< 6 '66. / 05.1'8 641ˢ5.6 >. / '<>.6; , / 07ˢ
<. .6 >.6 ; 7,V.<68 >4ˢ; ,1?6 5.J 65'7 E.7 >4ˢ1, Z
34'<7 " 5" ?1. / .1.ˢ?1,?,6 7 ,<8 =4ˢ .67 ; .55.ˢ
> '??.5.1ˢ4<.ˢ'66. / 07.;ˢJ.<.1'7.ˢ; ,<67 74'<7.ˢ?,41ˢ
1.E,1 / .1ˢ5.ˢJ,4-.1<. / .<78 '<<.ˢ=4ˢ5" ?1.;.>.ˢ
1' 78 5.ˢ;1.> 7 ?405 ;ˢ6.1' 7 '<.ˢ'<7 8 5.ˢ<4 / .1' 1.ˢ6.ˢ
1.66.11.1' 78 .6 J1'<>6 ?1,?1 .7' 1.Z'?1. >1' .<7
5" E4 7.I .<ˢ4<ˢ / ,7 4<.ˢ'5'1 / .ˢJ.<.1'5.ˢE'7 J .1' 7
,46 5.6 ; 7,V.<6N ; .67 >,<.ˢ44ˢ< '5: .41ˢ=4 ˢE'47
.- 7.1% 34'<7 '4@ #,<-.<7 ,<6 ?.1 ,> =4.68 > .6
6,<7 0,<<.6 >'<6 4<ˢ 7'7 1.?405 ;' 8 , 7 5 .67 47 5.ˢ
=4.ˢ ,<.@' / <.ˢ5" ; ,<67 747 ,<ˢ?,41ˢ-, 1ˢ6ˢ5.6 E';M
7 ,<6 > -.16.6 < .<ˢ ,<7 ?'6 >.?5' ; .ˢ4<.ˢ?'17 .ˢ / ˢ
?,17'<7.N ; .67 '5,16 =4 4< .@' / .<>.ˢ " ; ,<67 747 ,<
. / ?>; :ˢ 4<.ˢ1.-,547 ,<% ' 6 .< H1'<; .8 , 5 5.6
; : '<J. / .<76 6,<7 7,40,4 16 >.6 1.6 '-.;ˢ4<.ˢ ;6?0; ;ˢ
> '- > 7.8 ,4 J.<>1'5. / .<5 5.6 ?'66 ,<6 6,<7 - -.6.7
5.6 ; '1' ;7.1.6 ?>745'<768 4<.ˢ'66. / 0 #.ˢ; ,<67 74'<7.ˢ
?.1 ,> =4.6.1' 77,40,416 .?,=4.ˢ> 4<.ˢ1.-,547 ,<%
^ '11 -.ˢ '4@ / ,V.<6 =4.ˢ -,46 ?1,?,6;1,<7 -,6
; , / 7.68 . .67 > 1.ˢ ˢ4<.ˢ '66. / 05..ˢ>.ˢ1.- 6 ,<8
=4ˢ<.ˢ?,411"0 / ' 6 6 . / ?'1.1ˢ>.ˢ5" ; ,<67 747 ,<8
/ ' 6 0 .< .@' / <.1ˢ6ˢ5.6 ?, -, 16 ; ,<67 7406 6,<7
1.67. 6 >'<6 5.6 ; , / .68 .7 6 ˢ5.6 ?, <76 641ˢ5.6=4.56
5.6 ; 7,V.<68 5.ˢ; ,1?6 5. J 65'7 E.7 5.ˢ1, ˢ6.ˢ6,<7.@?5 ˢ
=4. 68 >.-1,<7 E 71.ˢ1.E,1 / .6% # .67 5" 5.ˢ6V67. / .ˢ, 5
<,46 <,46 6, / / .6 '11>7.6% #.ˢ; ,<;,416 <,46 "?' ˢ
14% .ˢ / . 55.41ˢ / ,>.ˢ?,66 05.% .6 J1'<>6 8 J.<76 >4ˢ
J,4-.1<. / .<7 6,<7 ; .4@=4ˢ>, -.<7 5.ˢ / .4@; ,<ˢ
<' 71.ˢ=4.56 6,<7 5.6 '17 ;5.6=4ˢ . / ?0.5 .<7 ˢ ˢ
J.<>1'5>. 5" / ' ; : <.% .ˢ-,45'<7 >,<<.1ˢ=4.ˢ ' ˢ
?. ;4ˢ>.6 1' 6,<6 >.6 ; , / 7.68 .7 / .ˢ106.1-'<5ˢ>;ˢ
E' 1.ˢ5.6 > -.16.6 ,06.1-'7 ,<6 =4.ˢ5"> 6;466 ,<ˢ1.<ˢ
>1"<.; .66' 1.8 0.ˢ- ' 6 -,46 >,<4.1ˢ5.;741.ˢ>4ˢ?1,0.7
>.ˢ>.;1.7 >.6; , / 7.6%
$% 66. / 0 0.ˢ<'7 ,<'5.8 '?106 '-, 1ˢ1. / ? ˢ5" / 66 ,<
=4 54ˢ'-' 5 070 >,<<0.ˢ?'1ˢ5.ˢ?.4?5.ˢE1'<;' 68 '?106 '-, 1ˢ
07'05ˢ4<.ˢ; ,<67 747 ,<ˢE,<>0.ˢ641ˢ5.6 >1, 76 / ?1.6;1 ?5 ˢ
0 .6 >.ˢ : , / / .ˢ.7 >4ˢ; 7,V.<8 .7 641ˢ5.6 ?1 <; ?.6 >.ˢ5"
1' 6,< .7 >.ˢ5" / ,1'5.6
W #,<6 >01'<7 > 4<.ˢ?'17 =4.8 6ˢ5.6 / '@ / .6 =4 .55.ˢ"
?1 6.6 ?,41ˢ0'6.6 >.ˢ6,< ,4-1'J.ˢ?,17.<7 5.ˢ ;'1';5 1.ˢ>;ˢ
0- >.<; .8 .7 6ˢ 4< '66.<7 / .<ˢJ.<01'58 '>:.6 ,< "
?546 6,5.<<.5 .ˢ>.ˢ7,47.6 5.6 ?'17 .6 >.ˢ . / ? 1.8 .@#; ˢ
7E,< 1'? > ..7 6;14?45.46.ˢ>.6 5, 6 <,4-.55.68 < ,<7 5' 660
'4;4< >,47.ˢ641ˢ5" -,5,<70 >.ˢ5"<'7 ,< >.ˢ; <6'; 1.1ˢ.7
>.ˢ64 -1.ˢ5.6 >, ;1.76 ; ,<65 747 ,<<.56 E' 56 ?'1 6.6 1.?1E;ˢ
6.<7'<768 .5 641ˢ ,? < ,< J0<01'5.ˢ=4.ˢ ; .6 5, 6 '75. J .,7
5.ˢ047 >4<. J1'<>.ˢ .7 . .41.46.ˢ1.J.<.1'7 ,<I
$ #,<6 >01'<7 =4.8 6ˢ ; .55.ˢ104< ,< >.ˢ6.<7 / .<768 ;ˢ
/ ,4-. / .<76?,<7'<0 -.16 5" 5 0.1 08 =4ˢ" ?,170 7,46 5.6
'0 7'<56 >.ˢ . / ? 1;ˢ 6.ˢ?1.66.18 ?,4%1' <6ˢ> 1.8 5.6 4<6
641ˢ5.6 '471.6 ?,41ˢ; <E,<>1.ˢ5.416 >1, 76 .55.416 <501E568
6.ˢ1'55 .1 '4@ / 0 / .6 ?1 <; ?.6 .7 6.ˢ6,4 / .571.ˢ'4@ / 0 / .6
,05 J'7 ,<6 ˢ>,<<.ˢ ˢ 66. / 0 ..ˢ<'7 ,<'5.ˢ5.ˢ>1, 7 ;554ˢ
/ ?,6.ˢ5.ˢ>.-, 1ˢ> / ?1 / .1ˢ ˢ6,< ,4-1'J.ˢ5.ˢ;'1';7 7,ˢ
<- ,5'05.ˢ>.ˢ5" -,5,<70 J0<01'5.8 .7 >.ˢ> 6?,6.1ˢ>.ˢ7,47.ˢ
5" ?4 66'<;.ˢ?405 =4.ˢ?,41ˢ 'E .1 / 1ˢ.7 5.ˢ / ' <7.< 1I ; ˢ
? .<>'<78 'V'<7 .4ˢ ˢ5455.1ˢ; ,< 1.ˢ7,47.6 5.6 ?'66 ,<6 ;7
7,46 5.6 ?1004J068 'V'<7 0 0 ,05 J0.ˢ>.ˢ64065 54.1ˢ1'?>.G
/ .<7 4< ; ,1?6 > <6 747 ,<6 <,4-.55.6 ˢ4< ' / '6 <,<6ˢ
714.<@ > '0 ,6 >0.1 06I 'V'<7 .<E< >,<<08 '4ˢ / 5 .4 >;6
; : , ;6 >.ˢ7,47.ˢ .6?0..8 >.6 >'<J.16 >.ˢ5,47 J.<1.8 >.6 >06
,1>1.6 71 ? .@'J.1068 / ' 6 ?,417'<7 1..56 .7 / '5 .41.46;G
/ .<7 <60?'1'05.6 > 4<.ˢ10-,547 ,<8 'V'<7 >,<<0 4, ˢ
<,4-.55.ˢE,1 / .ˢ ˢ4< J1?<>ˢ. / ? 1.8 ,< ?.47 ;1' <>1.ˢ=<;
> '<6 6.6 <67 747 ,<6 5 <.ˢ6.ˢ6, 5 J5 660 =4.5=4.6 / ?.1E.;M
7 ,<6 =4.ˢ .@?01 .<; .ˢ6.45.ˢ?.47 >0; ,4-1 1I
W #,<6 >01'<7 > '471.ˢ?'17 =4.ˢ5"<'7 ,< "5.ˢ>1, 7 <G
ˢ 0<'05.ˢ>.ˢ1.-, 18 >.ˢ10E,1< .18 >.ˢ; ;ˢ'<J.1ˢ.7 5.ˢ6V67. / .ˢ
>.ˢ6.6 5, ˢ; ,<67 47 ,<<.55.6 .7 ';7.ˢ / 0 / .ˢ>.ˢ6,< '66,M
: '7 ,<I
W 34 ˢ.67>,<.ˢ<0; .66' 1.ˢ=4 .< / 0 / .ˢ5. / 16 =4.8 ?,41
45 5 70 >.ˢ7,468 5.6 1.?106.<7'<76 >.ˢ5"<'7 ,< .@J.<7 ,<
6,< <, / ˢ ,00 66'<;.ˢ '4@ 5, 6 =< 56 ,<7 >0; 070.6 .7
=4 .55.ˢ" '??1,4-..68 56 <> =4.<7 4< / ,0.< 6 1 .5

4. 4,' +(' (" .(# . (./ #' +(' 4. $(.' +' ((,'((,' -(' " $3" '(3 ."5 (' +' *+,$ *' 4 $'(.+' -+*" ("0(., '/ (" !' $.('/ (24 .$(*3(' - $$,' 3(" $" - (" 0 $$,' - (.(*$.' 4 .' ((' (,' +' ' .3('3,') (,7

Q $' #+ ,' '(((*,'5 (' ("# . ("4+.' ('5 ((" ((' #(.+' 3 **+ .(' ' *' 4$*$ *' ' $(*,' #$2((" -(' +*$.(' !' *(' 4+'(*,.+$*(.' -('(..(.'/ (,' $*(' 4+' - **(.' ' -(" !' % 0($*(*,", , (*2' *' +' -(" -($)(.+,$ *"$.. *(3 $$(" (' 3+.+3).(' $ 4 '+*,' -(' +' 0 * ' *+,$ *+ (/ (,' #$2(.' ,$' -($+$' + 5 ((,,(' 0 * -' '(,+' (2+ $*-(/ -- +$' 5 $' *(' - $,' (,.(' *$' +''(2' -$ $9* ' 4 $.' 5 (' +' *+,$ *' ' .(' -(' 5 (5 (" 4+.$(" 0 3$('(" -(' ' *' .9+*$'+,$ *' ' -,+ (/ *$' +''(".+44. 36('4 .'5 (' %(24 .$(*3(' * +$,' 4+" (' (',(4" -(' - **(.' '(" '(- ,+$.(" (*'/% ' 5 (' %('4$$,' -(' 4+., 8' (' ' 0(*$.' -(" +*3$(*" 4.(9$" 4.(**(*,' +' 4 +3(' %-(' +' % .+$' *' (,' -(' +' ',$3(' 4+.' ('5 ((", *" ("3 , 8(*" - ' .(*,' --' . +$" -,.('9 $-('7

+ *'$-(.+*,' (*#$*' 5 (' +' #$2+,$ *' -('3(' -($+$' (,' +' -(1 ,(. $*+,$ *' -("# . (" .+'' .+*,("4 .' +' 0 *,(' *+,$ 1 *+ (' - $0(*,/ (*' 4 .,+*,' ,(" (" $--(" 0(." 145 5 7.' 3 *(' (,' ('4(.#(3,$ **((*,' -(' .9+*$'+,$ *' ' 3$+ (/ +0 $.' .$$(.(2' (##(,' -('3+ (.' ("+9$,+,$ *" -(' (4 5 (' 4.-'(*,('(,' -(' .+ (*(.' $ '(*'$) ((*,' (" ('4.$," $' +' .(1 36(.36('4+$'$) (' - ')$(*' 4) $3/ +' -((.-,('(,' -(3.(,('3(' 5 $' ' $,;

'

'&=! ' ''0 (' '

& .,' D%' '8'+ .+' (*' +** ('$!'<5 (5 (" ( ).(" !- '3 $,(' ' *,' -%+0$" -5'BEIB?/ (' BD%' $*/ *('+''( ) -(' -(' .(0$'$ *' - *,' ('4 0 $.' '(.+' -(,(. $*(' +$*'$' 5 %$' '(.+' ' -$,' 3$=+4.(' ' /

& B' R (' '(.+' 3 4 '((' -(' -(2' 3(*,' 5).+*,(!*(# ( ).(" ('-+*" ()+5 (-(4+.,((*,/ - *,' *' ,$(.") ' .+$' *' - ' (..$, $.(/ (' -(2' + .(" ,$(.") ' .+$' *' -(' +' 4 4 +,$ *' +3,$0(' ' %

Q ' .'# . (.' $ +''( )$(('-('.(0$'$ *' (" +''(!) (("4.$ +$.(" '(. *,' 3 *0 5 (('/ (,' (" ($(3(." '(. *,' 3) $'$" $5 ((*,' 4 .' 3(,') (,/ -+*" (' (('$$).(' (,' ' $0+*,' (" (("# . ("5 ('4 .' (" ((3,$ *" + 2' + '( ) (" (9$' +,$0(' ' %

W % ('3 .4" (9$' +,$#' (,' (' . $' ' *,' 36+.9("4+.'5" /' 3 *',$, ,$ *' -('4. 3+ (./ ,. $' ($" + ' $$$" +0+*,' (' B_' $*' 7 /' +' .(*$ *' -("3$, 8(*" (*' +''( ) (("4.$1 +$.('/ (,' (' $(')' +''( )$(('-('.(0$'$ *' ,$(*-.+' '(" '-+*3(' ;

%& (' $('- '.+''( ) ((*,''(.+' ($ $9*-' -(' . *9,' $ (" + ' $*" - ' $(')' '$ $(.+' ('3 .4" (9$' +,$#

Q ' +''(.)$(('-('.(0$'$ *' *(' # $" .- *$(' '(.+' #$).(' -('(',.+*'4 .,(.' -+*" *' + ,(' $(' - ' . 8+ (+' $$3 *' 3 .4" -(' ,. 4(' *(' 4 ..+' (,.(' (,+) $' *$' 6.' .*(.'4 '4.)" -(('5 ' ,.(*,(' $ ('

+' ' +''($*)$(('-('.(0$'$ *' 4 ..+/ ' ' $0.('4 .' '(" -($)(.+,$ *" +' # . (' -(" +''( ) ((" (9$',+ $0('/ ' ' (*' 4.('3.$.(' -+ ,.('/' 4 .0 '5 ($('/* +).(9(*,' 4+" (' ,(4" -(' $+ -$'3 ''$ *

+' ' (2' 5 $'(. *,' + ." ( ).(" - '3 .4" $' +!' ,$#' *(' 4 .. *,' 4+"),.(')$*"$ ( ).(" -(' %+))(' -(' .(0$'$ *

+3 $ *' /

$ ' ' '* ' ')

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+' ' +''( )$(('-('.(0$'$ *' (*' BEII' + .+' (*3 .('4 .' # *3,$ *" -(' 4. * *3(.' ' (" -(+*-("5 $/' ' $0+*,' (" # . ("5 $' 0 *,') .(' (,+) $('/ 4 .. *,' +0 $.' .7.' #+$ ('/ 4+.' ("4(,$,$ *" -(" 3$, 8(*'/ 4+.' ('3 .4")9$' +,$ ' ' 4+.' (' . $/).((,' -(' .(# . (.!'5 (5 ('4+.,$('-(' +' 3 *1 ',$, ,$ *

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" 17% G% 4;4'.' ?.7 7 ,< ?,41' ; :'<J.1' ' *!

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W %' ?17 ' ; .57.' 0?, =4.8' 7, 47' ; 7, V.<' =4 %; 1, 1" =4 4<.' >.6' ?'15 .6' >.' 5" ; , 467 747 , 5' >, ' 71.' 1.E, 1/ ..' 6.1" 701.' > .@?1 / .1' 6, 4' -..4' ?'1' 4<.' ?.7 7 ,<' 6 J<.>' >.'54 ' .7' >.' ; .4@' =4 ' ?'17' J.<7' 6, <' , ? < , <I' ; .77.' ?.7 7 ,<' 6.1" >0 ' ?,6 .' 0' 5" / 4, ; ?'5 70' >4' >, / ; 5.' >.6' ?.7 7 ,<<' 1.68% .7' P' .<' 6.1" 7.<4' 1.J 671.%

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' ("+$6*$*$' .+,(." -+*" ()+5 (' -(4+.,((*,'(*!' ',+,(. *' (' *).(' -("3$, 8(*"5 $' + . *,' -(+*-(' +' .(# .4$(' -% *' ' -('4 '$(."4 $*," -(' +' 3 *',$, ,$ *' &$,' -@,$*9 +*,' 4 '$ $0((*$' (") (,'/ '$$' 8' (*' +' 4 " -% *7' (,' '$' +' + .$,)' -(" 3$, 8(*" +3,$#+' - ' -(4+.,((*,' (' .(*$(' 4 .' # . (.' 3(,(' -(+*-(' ' .' *' ' 4 '$(." 4 $*,' '/ .(* *3(' -($(.' 4(,$,$ *' '(.+' (*0 8('4+.$("+- $!' *$' .+,(."+ '3 .4" (9$' +,$#' '

& ' $$.'5 (' ("4(,$,$ *" ' .' ( ) ( ) (,'+ . *,' (,)' # .)('-+*"4 " -(5 +.+* ((,' *-)4+.,((* / ('3 .4" (9$' +,$$' #(.+' (' .(3(*'((*,' - ' 0$'+' 5 $' $' + .+' .7.' +-.('')')+5 (' -)4+.,((*,''(.+' 3 4)' -+*"3(' .(()*!' '((*,' 4 .' (' *).(' $,(' -(4 ,("5 $' + .+' # .*$")' ''( )$(((' (9$' +,$0(/ -(' +*$).('5 (' ('3+ 3 ' '),+) $.+' ' .''(4,' 3(*,' 5 +.+* (!3$*5' *$,('

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3' ' ('3 .4")9$' $+,$#)* *3(.+' (*' $,(' ' *' 4$$#$ *' ' .' +' 5 (',$ *' -('+0 $.' '$') (,- $,),.(' $") (2+.')*' -(' +''( )$)(' -('.)0$'$ *

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W .' 6 5.<; .' ><' 1, 8' '?106' >.<@' / , 6' ><' Q, 41' >.' 5'' Q 10' 6.<7' 7 , ' >4' >0.1.78' 6.1" 10?470' '>006 ,<%

& ' -,'5 ('$+' 4) $,$ *' 4 .,(.+' ' .' 4 '$(."+.,$3 (" 3 *',$, ,$ **('/ ('3 .4")9$' +,$#(,' (. $' (" -$',$*9 (!' . ,'(*' -)3+.+*,' (.' 4$*$ *' -(')*$).(')' #+$.('4 .,(.' (.'+-))'$ *' ' ( )' 44 '$,$ *' ' .' , *" ("+.,$3 ("')4+!' .) (*,

+' ' $' ('3 .4")9$' +$#(,' (. $' *,' - +33 .-' +0(3' (" 3$, 8(*" 4),$,$ **+$.(" ' .' ( )(' $*' -(' ' (,.(')' $ +*!' '( )$)(' -('.(0$'$ *' ,$*' +.,$3 (' -(' +' 3 *',$, ,$ *' /$' '(.+' -)#$$$$,$0((*,')' 5 ('3(,' +.,$3 ('(.+' 4.)'(*,)')' ('!' '( )$)(' -('.)0$'$ *

& ' $' +')9$' +, .(' (' (. $' *,' - +33 .-' 4 .' ' 4!' 4 '(.')' ('5 (') (,/ '5 (5 ('! *"-(") (,'/ *', ' (") (,"3 4.$" (*" ("4(,$,$ *" *'/ ' $(*,' $" (*' -$'3 '1 '$ *' 4+.' . '( ))(' -(' .)0$'$ *' */ +' 4(,$,$ *' */ (' -(')(.(,' - ' 3 .4")9$' +,$#(,' (' .(' . $' '(. *,' *' 4.$)" (,' 4*!') $)'/ (,' (, ' '(.+' +$'')')' 4$*$ *' *' 4) $5 ('4(*-+*,' , ,('$+' - .)(' -(' +')9$' +, .(' ('5 $' +' +*$#(,')' ' ' N$$!' *$ */

& $/ $' +' + .$,)' -("-(4+. ((*,'/ (*' ("3 4 +*,' ' $0+*,' +' .)9 ('4.('3.$('3$!-(' ' '/ (,' -(,. $" + .,'/ +' *' + ,((*,-('3$' 5'3(*,'3$ 5 +*,(!) $,**) ('$'/+4.)" -$2'!) $" + ' $*" -(4*$"5 ('+')9$' +, .(' (' (. $' $' + 1 . *,' #+$,4) $(.' (.' 4$*$ *' */ ('4.($(.'0((' ' -("3$, 8(*" *' +' 4+" (,)' .) +3,)/ -+*" 4 " -(' -$2' -)4+.,((*,'/ ' .' 5 (5 *' -(") (," *' ' ., " ( ) (,"3 4.$" -+* % $(.'4) $,$ */ ,$' 3 .4" (9$' +,$#(.+' ,(* ' -(' -(3+.(,('5 (' +.,$3 (' ' ("+.,$3 ("3 *' ,$ *6("'(. *,'4.)(*,)" D +''( )$)(' -('.)0$'$ *' */ (,' +' '+*3,$ *' *' - ' . $' '(.+' 3(' ')(' / - **)(

& ' $/ -+*"4 " -(' -$2' -)4+.,((*,'/ ("3$, 8(*" *,' 36+*9(' - 4$*$ *' */ (,' 5 (' +' + .$,)' +)' *(' ' $,' *)+* $*" (*3 .('+35 $'(/ +')9$' +,$$.(' 5 $' '$$$0.+' 3(

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7,465.6'0,<6; 7 V.<6I'=4 / ?,17. '?41.75'>.' ,71.' 7:.,1 .'6'5.6' / ,>.6'>.'J,4-.1<. / .<7' '4a=7.56'.55.' ;67' 44 .' ?.1?.74.47'?'1/ '<,46'5.6'>>6,1>1.6'6,46' 5.6=4.56'<,46'J>/ 66,<6S -.0' -,46'>,<.'?1 6'=4.5' =4.6' / .641.6' ?,41'=4.,.77.' / 457 74>.' >.' ,, >7>6' 7V1'<< =4.6'=4 ;,11, / ?.<7' .7'640Q4J4.<7'^,?< ,<' ?407 =4.8' =4' <E54.<7'6416,47.6 .6'>5.;7 , 8'=7 ' >, / 4.<7'7?47.6'5.6''47,1 7 -'<,46'1.67 74.<7'5''5 ' 0E17.'.7'5''?' @'=4 .55.6'<,46',<7'1'- .6'Z' .0 -,46' ?1 6' = 7.5=4.6' / .641.6' ?,41' =4.' ;.77.' / 457 74>.' > 0, / / .6''1 / '>,<7'5'' H1'<;.' .67' ;,4-.17.'6,E7' <1 <; 05. / .<7'.,<7.<4.'>'<6'5.6'5 / 7.6' =4.'5''5,' 4'?1.6;1 7Z' ' >,<.'5'' ;,<67 747 ,<' .'7.<>'?' '' 1.?1 / .1' '0 6'>.6' / ,V.<6' .@71',1> <' 1.6'>,<7' ,<' 6 .67' 6.11 ' ?,41' 1>7'05 18'; , / / .<7' ?.47 ,<' <,46' ?1,?,6.1'4<'5,<J'.6?';.'>.'7. / ?6''?'1; ,41 1''-'<7' =4 >6, 7'?.1 / 6'>.'5''1.E,1 / .1Z'B' / .'6.1' 7'E'; 5.8' .<'?'1; ,41' 7'7,47.6'-,6' <67 747 ,<68'>.'-,=6' / ,<' 71.1'; , / / .<7' .55.6V,<5%6 '57.1.1'.7'].';,11, / ?1.'6 8' '<' 5 .4'>.' 5.6' ;,<E .1''4@' .?1. -.68'-,<6'<.'-,46' : 7.0'>.'5.66, 671' 1.' '';.'E'<'7 6 / .'014V'<7'=4'5.6' ;.5E.01.8'?,41'5.6'5 -1.1''4<.' 1' 6,<' 6>-E.1.'=4'5.6' !,11 J.8'=4'6.45.'?.47'1> / 67.1''4'7. / ?6'.7';, / / '<M >.1''4@'.-><1% / .<76%

,46'-,45.0'>.6' #,<-.<7 ,<6'<'5P,<'5.68'; .67 ' > 1.'>.6'1.-,547 ,<6'?.1 ,> =4. 8' >.6' ;, / / ,7 ,<6' .7.1<.55.6'I;'18>'<61P<7.1-'55.'>.';.6'#,<-.<7 ,<68' =4.'E.1, 6 <,4 '>.6'- ;.6'.7'>.6'>.6,1>1.6'<' 66'<76' 4 4<.' / '4-' 6.'5, ';,<67 747 -.Z' K67 ;.'5''?'7 .<;.' ,4' <6411.;7 ,<'=4 ,<'<,46' ;,<6. 55.8' '?1 6'<,46' '-, 1'; , / / '<>.'7,41'2'7,41' ,0. 66'<;.'?'66 -.' .7' 5'' 1.6 67'<;.'' ,??1.66 ,<'Z' #.?.<>'<7' =4.5' '471.' Q4J.'=4.'4 , / . / .''-.0G-,46' .5'05'>.';.77.',??1.6' 6 ,< '5'=4.55. 5' / .67'?.1 / 6'>.'1.6 67.1Z34.''471.' Q4J.' =4.' -,46 / . / .6' '-.0 -,<6' .7'05' >.' #.77.' ,0. 66'<;.' ?'66 -.' =4.' -,46.@ J.0Z' <6' ?1.66.6' >'<6'7,47.6'5.6'; 1;,<67'<;.6'>.'<,71.'- .'?,5 7 =4.' .<71.'>.4@' ?1 <; ?.68' .<71.'>.4@' / ?456 ,<6',??,M 6.68'<,46'6.1 ,46'6'<6';,<6,5'7 ,<'>'<6'<,71.' ,0. 6M 6'<;.8' 6'<6' / ?>#1'7.41' .7' 6'<6'E1. <'>'<6' <,71.' 1>6 65'<;.% #1,V.0 -,46' =4 5' ?4 66.' .@ 67.1' 4<;' ;,<67 747 ,<8'4<',1>1.'6,; '5';,<# 5 '05.''-.;'>.'7; 6' <; >.<768'6 '-,46' .<'6 ? 1.08'?.<>'<7' 4<' .6?';.'>.' 7. / ?6'>.7.1 / <.8' 5.' ?,4-, 1' 1.E,1 / '7.41Z' ' ;.' < .67'?'6'>'<6' ;.77.' :V?,7:16.'6.45# / .<78';.55.'>.6' - ;.6'>.'5'' ;,<67 747 ,<8' =4.'5.6'#,<-.<7 ,<6' ?>1 , ' > =4.6'6,<7'> 4<' J1'<>' >'<J.1I' .55.6' <.'6.<7' ?'6' / , <6'1.>,47'05.6.<'64??,6'<7'=4.;.'=4.-,46'-.0' E' 7'.67'0,<8' .7'=4.'5.'0,<0.41'>4'?.4?5.'V' .67' '77'G' ;:.%0 <;,<-><.<7'<.- 7'05.'>.7,47J,4-.1<. >,<7' ?,?45' 1.'.67'>.' / .571.'>'<6'4<' / ,4-. / .<7' ;,<7 8' <4.5' 5.6' 'EE.;7 ,<68'5.6' < / 7 6' B'7,47.6'5.6'?'6G' 6 ,<6'>.'5'' / '66.'>.'; 5,V.<6'=4'V' ?'17 ; ?.<7' / >' &5 '7. / .<7' ?'1'5.6'.5.;7 ,<68' ,<' / / .> '7. / .<7'?'1' 5.416' . / ?54 6% .' .4@'=4.'5'' ;, / 0 <' 6,<'>.' ..' J,4-.1<. / .<7'6, 7'5'' ?546'?'1E' 5.'?,66 05.8'=4 .55.' 6, 5' '66.0' :'0 5. / .<7' ;'5;45..'?,41' =4.'7,47.6'5.6' E,1;.6' / ,71 ;.6'6.'0'5'<;.<7' .7'6.' ;,<7 .<<.<7'6'<6' ' ,??1 1'.18'>.' / '< .1.'=4 5'1.6457.'>.';.7.=4 5 01.' ;,<67'<7'5.' / . E5.41',1>1.'?405 ;I' '4' / , <6' 5' .67' .- >.<7'=4.'5.6> . / .<76'>.';.7,1>1.'?.4-.<7'>.-.' < 1' .<'4 ' <67'<7';.7 @'>4'> 6,1>1.'.7'>.6'E';7 ,<6I' ;7;.7' <67'<7' '11 -.1''5,16=4.' 5.6'<,-'7.416' .7'5.6' E';5 .4@' '41,<7' 5'' ?.16?.;7 -.' > 4<.' #,<-.<7 ,<' >'<6'5'=4.55.' 56'?,411,<7E' 1.'?1 -'5, 1'5.416'<7.\' 1>76'.7'5.416'6V67 / .6% # .67'5,16'4'?546'E,178''4'?546' '>1, 78'=4.'6. ''>.-,54'5.'?,4-, 1'>.'>.714 1.'?,41' 1.;1..1I' 5'6.'71,4-.1''7,4Q,416' ' E,416' ,1>1.6'>.6' 71,4?.6'>.'?1,6.5V7.6' .7'>.0.5'7.416'=4'>> / ,<71. ' ' '4'?.4?5.'=4.'6,4' 15.1 7' .7' '0,<:.41';,<M 6 67.<7'>'<6>.'<,4-.'4@ ;:'<J. / .<76%

<6 8'>'<6'4<.';,<67 747 ,<'7.55.'=4.'E''- 7 .8'=4' / .7'7,47' '<.4E'.7'<.'5' 66.'1 . '6<06 67.1'>.';.'=<5' ;7' 7''<; .<8'5.6' #,<-.<7 ,<6'? 1 ,>7=4.6' 6,<7'>.6

'Q,41<. / 76'>.'1.-,547 ,<8' .7' 1 ,5.1-'55.'>.' ;. ' #,<-.<7 ,<6'?,EE11' 7' 5 1.' 4<.''<'1.0 .';,<7 <4.% ,45.0 -,468'>.-.0 -,46' 5' 66.1';,41 1'>.' 7.56'1 6 ' =4.6' '5''<'7 ,<Z' '6Q.'> 6'?546N =4'<>';.'6.1' 7' -,71.' -05,<7>'8' ;1,V.0 -,46' =4 .55.' EE57 .@>;40E.Z' @'1, <.0'E1, >. / .<7' ;, / / .<7' -,46' >7.6' '11 -.' V,<6 / E / .6''4'>.1< .1'7.1 / .'>4'?,4-, 1'=4.'-,46' .@.1;.0' / ' <7.<'<7% .6';1;,<67'<;.6' .77.6'>-><.' / .<76'-,46',<7';,<>4 76'>.'5''; ,<-,;'7 ,< .<' .7'76' J><>164@' '5'';,<67 747 ,<' .<' 66. / 05.'<'7 ,<6'5.I' / '>.' ' ,1'7.416'-,46''' .<6< 7.' > ;5'1>6' ?,4-, 1' ;,<67 74'<78' .7';.77.'& <, / <'7 ,<8' =4' < ''Q' / ' 6' .7 '?1,;5' / .'?'1'4<'> E,1.78' .67'5.'6.7 E'7 71.'=4'' 7' ,? 1.''4' / 5 .4'>.'-,46'5''1 << ,<'>.'7,<6'5.6'?,4' -, 16%#.?.<>'<7' -,46'-,46' 7 ;0'6,4 / 68' .<'>.-.' <'<7'5.6' / '<>'7' 1.6'>4'?.4?5.8' ' ,06.1-'7 ,<'>.' ,6' / '<>'76I'-,46''-.0';14'>.-, 1'5.6' '01,J.1% 1' ?.<6.0 -,<6=4.'-,66<;;.66.<16<.'6'41,<7?'6''<66' 6 ' >.1'>.6' # 1;,<67'<;.6' .7'>.6'.-9<. / .<568' .7'=4 5' E,41'6.1''>E!; 5.'>.'6 'EE1'<;: 1'>.'7,<6'5.6' 5 .<6' =4 56'<.'6.'6.1,<7'?'6' / ?,6.6Z

,16=4 5'' .7.'=4.67 ,<'>.6<6?.<>1.' .@.1; ;.'>.' '47,1 E,'1,V'5.8' ,<' -,46' ''> 7'>'<6';.77.'71 04<.N $' ,46'41 ,<6>E';, / / .4;.1'?'1'5 8' / ' 6'<,46'<.' #,<<' 66 ,<6'?'6'<,71.'E,1;.%G' <6' 7'<.6 'J 7'?,41' ,6' 64;;.66.416' =4.' >.' / .641.1' E,416' E,1;.6'?,41' .66'V.1'>.'<,4-.5516'.<71.?1 6.68' .7';.17.6';.'>'<J.1' / .EE1' .'0 .<''47'<7'=4.';.54'>.6' #,<-.<7 ,<6'<' ' 7 ,<'5.6I' ;'1'>'<6' 7'' E.1 / .<7'7 ,< ,EE'6,<7'.<;,1.' 7,46'5.6'.6?1 7 ' > '?1 6' 5.' ;'1'.E,1.'>.';.<@'=4'6.' 1.>4 6.<7''4'6 5.<;.8'Q.;1' <6''<7'<7E.6.66' 6>.'5'' ,4-.55.'5 65''741.' =4 4<.' #,=V.<7 ,< <' ,<'5.8' .5'.678' .7' 5'<.'E'47'?'6' -,46'5.'< 66 / 45.V8'5.'>'<M J.1'>.E' 1.' / '1;:.1'>.'E1,<7'4<.'1>-,545 ,<'- ,5.<7.' .7'4<.';,<67 747 ,<'5 01.% 4<.'<.'6 ,? 1.'=4.'>'<6' 5.'74 / < 7.'>.6'?'66 ,<6',4'>.?1 / .68'1'471.'<.'?.<7' 6 .7'05 1'=4.'?'1'>.6'71'<6';7 ,<6' / '07.6' .<71.'5.6' <7>1>76' ':..<6' .7' 5.6' <E,1>76'<,4-.'4@% <' <.' ;, / ?7.'?, <7'5.6'-, @8' ,<'<.'> 6;47.'?'6'5.6',? < ,<6' ?,41'E' 1.'4<.'1.-,547 ,<8'6, 7'=4.';.'6, 7'5.'?.4?5.' 4'5.'?1 <;.'=4';;:'<J.'.7'>>714 6.'7,47';.'=4'.@ 6' 7' 7''4?'1'-'<7% <.'1.-,547 ,<' .67'4<.'7. / ?>7.>4' 1'<7'5'=4.55.' 5'E'476.11.1'5.6'-, 5.6' ,4'>77.'640 / .1M J.'I' / '76''?1.6'5''7. / ?>7.'..4@=4 ' .<' ,<7'> >'0''7746' ;, / / .';.4@'=4 ' < .<' ,<7'?'6' 6,4EE.17'Q,4 66.47'.<' ;, / / 4<'>.'5''6>1>< 7.'>4';.5' .7'>.' >;5'7 01 55'<7' >4' 6,5. 5I7,47' .67' ?41' .7' ?' 6 05.'6,46' 0,1 0,<% <6 8' '?1 64<.'1.-,547 ,<8' 7'E'47'=4.'5'';,<67 74M 7 ,<8'6' .55.'.67'0,<<.8'1'55 .'7,46'5.6';7,V.<68' .7' 5' E'47'=4.'7,<6'5.6'; 7,V.<6'>'<6'5''?546'?'1E' 7.'6. .4' 1 7.'?4 66.<7'5'' 71,4-.1'0,<<.',4' / '4-' 6.I';'1' 5' < .67'?'6'> '471.' / '< .1.'> .7'05 1'4<.';,<67 747 ,<' 1' 6,<<'05.' .7'> .;:'??.1' '4' >.6?,7 6 / .' ,<' ' '' <'1;: .%

.'64??,6.'>,<.' =4.'7,<6'5.6' ;:',J. / .<76' =4.' -,46'-.0R' 76'>'<6'7,47.6'5.6'?'17 .6'>.' ,1J'<6' ' 7 ,<'?,5 7 =4.';,<- .<<.<7 5'' / 'Q,1 7.>. ''<'7 ,<8' .7'=4 .57.'6, 7'.<7 .1. / .<5';,<-'=4.'=4.'6,<'0,<M :.41' .76''5 0.17.'.<'>.?.<>.<7I'5'';,<67 747 ,<8'?'1' ;>'6.45'E' 78'71 , / ?0.'>.'7,47.6'5.6'> EE5;457. 6I'5''67'' 0 5 7.'< .67'?546'..Q' -,=4.8'.7'5.6' / ,V.<6'> ' / >5 , ' 1'7 ,<'6,<7'E';5.6 8' 6'<6'1.;,<1 1''4@' #,<-.<7 ,<6% ' 68'?,41'=4.' ;.'E' 7'6, 7';,<67'7.8' 5'<.'E'47' ?'6' =4 5'V' 74<'6;45';, / / .'>'<65.1,V'4 / .'=4'?4 66.' ;, 1 1'5.'1 6=4.'>.'6'' - .8'>.'6''5 0.17.1.<'6 .''?5 ' =4'<7 E1'<.<. / .<7'641'5'' ;,<67 747 ,<% '<6';.77.' . 7 >1.'6>.41 7.8' 5'<'V''?, <7>.'-,.4';.17' <8'>;5' ' 1>8'4< -.16.5I' 5'<'V''=4 4<'?,4-, 1'?1.>, / <'<78' ?1>7'';:'<J.1' ';:.=4.' <67'<7'>.';'1'.E,1.8'>.'> M 1.;7 ,<'.7'>.' / ,V.<68'?1,?1.' 'E'-,1 6.1'5''7V1'<< ;' ;, / / .'5''5 0.17.% 7' <47 5. / .<7'-,<6' J<.0'>.6' 1.J .68'>.6'E,1 / .6'.5'>.6' .?,= .6' ' .@.1;;.'>.';.' ?,4-, 1I'< .@?>> .<7> 4<.'#,<-.<7 ,<8'<'4;4:' '471.'< .<'6.1''5.' 1>J45'7; 18'Q 6=4 ';.'=4.'-,<6

'V.0' 6.?'1 ' 5'' ; ,<67 747 ,<' .7' 7,47' ; .'=4 ' < ' '??'1 ' 7 .<7' >.6' / ,4- . / .<76' >.'5'' 1.- ,547 ,<% ' 6' 6 ' / '5 ' E .41.46. / .<7' ,<' - ,46' ?.164'>.'5.' ; ,<71' 1.8' 6 ' 7,47' ; ,<; ,417' '' / ?1 <7.1' '' 5'' ; ,<67 747 ,<' 5.' ; '1' ;7.1.' >.'5'' 1.- ,547 ,<8' ,4' - ,46' ' - .0' '' ;1' <>1.'5,<J7. / ?6' ;<; ,1. 5'' - =5.4..>.'6.6' / ,4- . / .<768' ,4' 5'' ; ,<67 M 747 ,<' ?%.1 1'8' >'<6' 'EE' 66. / .<7' =4 ' 64; ; >.' ''>.' 5,<J4.68' 'J 7'7 ,<68' 0 .<' ' - '<7' =4.' - ,46' 6,V.0' ?'1M - .<46' '' .?,=4.=4 ,<' - ,46' ?1,?,6.'>.' E @.1' ?,41' 4<.'1.E,1 / '7 ,<% <6 8' 6, 7' =4.' - ,46' ; ,<6 >.1 .0' 5'' ; ,<67 747 ,<' ; , / / .' .@; .55.<7.' ,4' ; , / / .' / ?'1E' 7.8' 5' 6475 7' =4 .55.' ?1.6.<7.' 4<' 6V67. / .' '06,54 / .<7' <.4E' >.'5 65'7 ,<' .7' >.' J ,4- .1<. / .<7' ?,41' =4.' - ,46' 6,V.0' ,05 J.6' >.' 5'' 6,4 / .751.' 4 4<.' '471.' ;?1.4- .'=4.' ; .55.' >.6' # ,<- .<7 ,<6' <'7 ,<'5.6% .' 1,<6' ''>. / , 71 '=4.'>'<6' 5.6' >.4@' :V?,7: .6.6' ; .7 .@?. > .<7' .7' 7' >'<J.1.4@' ,4' / ?1'7 ; '05.% ,16 ' =4 '4' 5 .4' >.'1.;4. 77 18' >.' E @.18' > .?41.1' 5.6' '< ' ; .<<.6' <67 747 ,<68' ,<' '' 7,47' ; : '<J.8' 7,47' >.714 78' '??.5.1' '' ; .17' <.6' ?,=4.6' >.6' : , / <.6' '47,1 6>6' '' ; : '<J.1' .<; ,1.8' ; .67' ?1>?'1.1' >.'<,4- .'4@' 71,4M 05.68' ; .67' E,<>.1' 4<.J>< 1'7 ,<' 7.1<.55.'>.' 6V67. ' / .6.7' >.'>.6714;7 ,<6% '66'<7' .<64 7.' '4@' ; 1; ,<' 67'<; .6' =4 ' <,46.<- 1, / 7.<78' .7=4 ' 5' 66.<7' .<; ,1.' 6<15'' / .' J4;' .7' 6,46' 5.6' / <.' ; ,45. / 6' 5'' 1.M - ,547 ,<' .7' 5'' ; ,<67 747 ,<8' Q.' - ,46' ' E' 7' - , 1' =4.' 5'' 67'0 5 7V' >.' 4<.' .7' 7' <; , / ?'7 05.' ' - .;' / ?.74, ' 6 7.>;' '471.8' .7=< '5,165'' ?.16?. ;7 - .'> 4<.' # ,<M - .<7 ,<' ?1,5,<J.1' 7' 5.6' > 1>1.6%

#.77.' ; ,<6 >.1'7 ,<' .67' 71'?' / ?,17'<7.' ?,41' <.' ?'6' 5''>.- .5,??.18' > '47'<7=4 .5 .'<,46' ; ,<>4 7' '4@' 6. 5.6' - , .6' 1' 6,<<'0E.6' =4 ' ?4 66.<7' 1' / .<.1' ' ?' @' .7' 5.'1 4 .'>.6' 5, 6' >'<6' ; .7 . / ? 1.% '47' =4.' 5.6' ;11.7 16' .7' 5.6' - .1 456' =4 ' 1. J 66.<7' 5.6' ' ; ,<6.1- .47' 4<.'J1'<>.' '47,1 7>'67 1' 5.6' .6?1 768' , ' >1.' '<; .<' 6. / ' <7 .<7.7' 5.'J B - .1<. / .<7' ; ,<6.1- .' 6,<' > .1J .I' 5,16= .' ; .6'??4 66 .01'<5.<7%>'<6' , ' ? < ,<' ?405 =4.8' 5' 6.' ?1.?'1.' 4<.' 1.- ,547 ,<% ' < '??'17 .7 7' =4 '4@' : , / / .6' 6'J.6' .7' > 4<J1'<>' ; ' ' 1' ;7.1.'>.5'' ?1; - .< 1' ,4' >.5''> 1 J.18' / '76' 6 17, 7' >.' 6.' 6. ?'1.1' >.6' : , / / .6' ; ,11, / ?468' >.6' / . . : '<56' .7' >.6' E,46' =4 ' 6.' : 57.<7' & V ?1.<>1.'?'17% '47' =4.' ; .77.' 5 J<.'>.'>. / '1; '7 ,<' <.' 6.1'' ?'6' 71' ;>.8' 5'' 1.M - ,547 ,<' < .67' ?'6' ; ,<6, / / . I' 7'7' .67' 7,4Q, 16' N .<' ?.1 5I' 5.6' E5, 6' >.' 5'' 5 ; .<; .' 6.' 1,45.<7' ; , / / .' ; .4@' >.' ; .'<641' 4<.' - '65.' .7. >4.I' ;7' 5'' ; ,<67 M 747 ,<8' =4 ' 6 . E.- .' 641' ; .77.' / .1' ,1'J.46.8' V' E5,77.' ; , / / .'4<' .6=4 E' 6'<6' 0,466,5.' .7' 6'<6' - , 5.6% .55.' .67' <,71.' ?,6 7 ,<% 34.5=4.' 71 67.' =4.' 6, 7' ; .77.' - .j' 1 7.8' .55.' - ,46' ?1.66.' >.' 6,<' .- >.<; .I' - ,V.0' 7,<6' 5.6' ?1 <; ?.6' >.% / ,1'5.' .7' >.' 5 0.17.' =4.' - ,46' ' - .0' ?,6.6' ' ; ;4. 5 6' ' - .;'>.6' ;1 6' >.'Q, .' .7' >.6' 6.1 / .<56' 1.>,405.68' / ' 6' - ,5.6' ' - .;'4<.' '4>' ; . .7' >.6' 741.416' <,4 .6S # .67' '4' / , / .<7' , : 8' ?,41' / .' 6.1- 1' >.6' .@?1.66 ,<6' 46 7. .68' 5'' ?5466' <7.8' 5'' ?: 6' E 01.' >;6' ; ,<67 747 ,<6' 6.'?1, ; ' / .8' =4.'5.6' '77.<7'76' 5.6' ?54% ' : ,11 05.6' ; ,<71.'5'' 5 0.17.8' 5'' ?1'?1 . .8' =<.'>E6 Q.' f ; .<71.' : 4 / ' : 7.' .7' 5'' ; ,<6; .<; .8G6.' / 45E ?5 .<7.7' %6.' ?1,5, J.<7' ' # , / / .<7' ; .' ; ,<71'67.' <.' - ,46% .E ' E1' . 7 5' ?'6Z' .' - ' 6' - ,46' 5.'> 1.% 1, / ?.6' - ,<6 ' / <.6' 641' 5.' / .; '< 61'.'> 4<.' 6, ; .7.' ?,5 7 =4.8' - ,46' .<' ' - .0' ; : .1; : .'5'' 1.J.<.1'7 ,<6' '<6' '1>' '' 6'' > 66,547 ,<' I' .7' ?1.<'<7' '5,16' 5.6' .E .76' ?,41' 5.6' ; '4M 6.68' - ,46' ' - .0' ; ,<6 >.1.' ; , / / .' ,067' ;5.'5.' / . ; ,< ' 7.<7. / .<7' Q5.6' 4<6' .7' ; , / / .' / ,V.<' .@'57'7 , '>.6' 471.6 <' <.' ;1,V'<7' >,<.' - ,46' 1, > 1' =4.' ; ,<71.' %5.6' ,067' ;5.6' .7' E' - ,1 6.1' 5.6' <,V.<68' - ,46' 1.<- .16.0' 041<.55. / ,<7' - ,6' ?1 <; ?.68' .7' - ,46' '??1.<.0' '4' ?.4?5.' ''5.6' 01' - .1N - ,46' >.714 6.0' ; ,<67' / / .<7' > 4<.' / ' <' . .' =4.' - ,<6.> E .0' >.5 '471.% # .67' ' <6 ' =4.8' ?1 76' '' - ,46' .?'1.18' - ,46' 5' 66.0' - ,71.' ; ,<67 ' 747 ,<' 6'<6' '??4 ' .<71.' 6.6' ,067' ;5.6' .7' 6.6' / ,V.<68 4' <.' 6,<7' '471.6' =4.' ' / ,4- . / .<76' ; ,<- 4E6 E6' . 5'' 1>- ,547 4<% 7' ?, ,1' '4J / .<7.1' '<Q,41> : 4

' ;7 - 7.' >.' ; .'7,410 55,<8' ,<' - ,46' ?1,?,6.' >.' ?5'M ; .1' >'<6' 6'' 6?: .1.'5.6' # ,<- .<7 ,<6' <'7 ,<'5.6S # .67' #5.- .1' 4<' .> E ; .' .<' .<' 6'?'<7' 5.6' E,<1 . / .<76%

.'5.'1.?.7.'>,<.' ' - .; '6641'<; .8' .7' Q.' <.' .1' <6' ?'6' =4 5' V' ' 7' .<' 41, ?.' 4<' 0,<' .6?1 7' =4 ' / .'>. ' / .<7.' N 5' < V' ''>.' ; ,<67 747 ,<' E 01.' .7' >41'05.8' 5' < V' .<' ''>.' ?,66 05.8' : ,16' ; .55.' >4' >.6?,7 6 / .8' =4.' ; .55.' =4 ' 7.1 / <.' ?' 6 05. / .<7' 4<.' 1.- ,547 ,<8' .7 =4' ,<' ?1,?,6.8' =4 ,<' ' ; ; .?7.8' =4 ,<.@. ;47.' ?'1>.6' E,1 / .6' ?41.68; ' / .68.7' 7,7'5. / .<7' > 66. / 05'05.6' >.' ; .55,6' >.'5'' 1.- ,547 ,<% ,47; .' =4 .5 ,1'E' 78' 7,47; .' =4.' ,<' - .<7' ' - .;' ?'66 ,<8' ' - '<7' > .71.' '11 ->' '<' ?, <7' >.'1.?,68' 6, 7' =4 ,<' ; , / / '<>.' '4' ?.4?5.' ,4' =4 ,<' 54 ' ,0. 66.8' 6, 7' =4 ,<' - .4 55.'5.'71, / ?.1,4' 5.' 6.1- 18' ; .67' ,.4-1.'>4' >.5 1.% .'7. / ?6' <,46' ?1.66.8' Q.' 1.66.11.' / .6' >. .68' Q.' / <7.1> 6' 7,<6' 5.6' >.- .5,?' ?.< .<76' f Q.' - ,46' ' ' / ,<71.' 5.' / '78' Q.' - ' 6' .<' <> ' =4.1' 5.' 1. / .>.I' .7' 6 ' Q.' 64 6' <7.11, / ?4' ?'1' >.6' / 1< <1.68' 6 ' - ,46' 1.Q.7.0' / .6' ; ,<6. 568Q.' .1' <6' 0 .<' =4 56' <.' 6, .<7' Q467 E .6' ?'1' 5.6' . ->< . <.<76%

' '> 7=4 .Q.' < .<7.<>' 6' ?, <7' - , 6E' 1.' 1.E,1M / .1' >'<6' ; .' / , / .<7 ; ' - ,71.' ; ,<67 747 ,<' I' ; .67' >.' .7'7' ' ;74.5' >.6' ; : ,6.68' >.' 5'' <. ; .66 7.'>.6; 1; ,<' 67'<; .6' .7' >.' - ,6' ?1, ?1.6' ?1 <; ?.68' =4.'Q.' - ' 6' E' 1.' 6,17 1' / .6' ?1,?,6 7 ,<6' I .78' ?,41' 5.6' 1.<>1.'?546' 6.<' 6 05.68' Q.' 5.6' 1.64 / .' > '0,1'' .<' ;' 6.45.8' 6' - , 1N W' =4.' 5'' ; ,<67 747 ,<' <.' ?.<7' ' - , 1' '4;4<' 64; ; .6' ?.1 / '<.<7' 6 ' .55.' < .67' 5 01; / .<7' .7' ?' 6 05. / .<7' ' ; ; .?7. .'?'1' 4<.'J1'<>.' / 'Q,1 7.'>.'5''<'7 ,<' .7' ?'1' 5.'1, I' CY =4 ;55.'<.' ?.<7' >71.'47 5; / .<7' .7' ?' 6 05. ' / .<5' 1>E,1 / . . ' =4 '?1>6' 4<' .@'1' .<' 5 01.' .7' 1. E5>; : 8' .5' 5 <.'<,<- .55 . . / 66 ,<' >4' - ,.4' J. <.1'5%

#.77.' ?1,?,6 7 ,<' <.' ?, 11' 7' / .71.' ; ,<7.67>.' =4 '47'<7' =4 ,<' 6,47 .<>1' 78' ; ,<71.'7,47.'>- >. <; .8' =4.' ; .'=4.'Q.'>. / '<>.' .67' >>Q''E' 7I' .7' Q.' <.' ?1,>4 6' ; .77.' ,0Q. ;7 ,<' =4.' ?'1; .' =4.'Q.' 6' 6' 0 .<' =4 ,<' '? ' ?;B.' - ' <' <'7 ,<'5' 7,47' ; .' =4.' <,46' ; ,<<' 66,<6' > >1.66.68' > '>:>6 , 8' >.' 6.1 / .<768>.' / .<' ; .68' > 'J 7'7 ,<6' .7' >.' - ,5.<; .6% ' 6' 7,47.6' 6<.6' ,06.1M - '7 ,<6' 7.<>.<7' ' - ,46' ?1,4- .1' =4 5' < V' ''?, <7' >.' - . .4' <'7 ,<'5' ; .17' <8' .;5' 1.8' 4< - .16.58' ?.<>'<7' 5.' ; ,416' > 4<.' 1.- ,547 ,<8' ?'1; .' =4 5' < V' ''>.' 5 0.17.' ;7' >.' 6E 1.7; ' =4.' ?,41' ; .4@' =4 ' .<' 6,<7' 5.6' 'J.<76' ,4' =4 ' 6 .<' / ,<71.<7' 5.6' 0>5'7.416% 1' 5' .67' >'<6' 5''<'M 741.' =4 <.'J1'<>.' ?,17 ,<' >.' 5'' 6, ; >7.;1' J .'5.6' 1.- ,547 ,<6' .7' 6 '067 .<<.' > V' ?1.<>1.' 4<.' ?'17' ,6M 7.<6 05.8' 7'<> 6' =4 5' < V' ' ?, <7' >.' 7 7,V.<' .;5' 1>' =4 ' <.' 6, 771.6 ' <7# .66.' '' .@' / <.1' .7' 'Q J; 1' 5 01;M / .<7' 5'' ; ,<67 747 ,<' >.' 6,<' ?'V6% '' ?1,?,6 7 ,<' 1.6Q.>,<; ' <'77'=4'05.% ,' 5' 64 7' =4 .<' ?1.6.<' 7'<7' - ,71.' ; ,<67 747 ,<' '4' 1, ' .7' ''5''<'7 ,<8' - ,46>. ' - .0' / .771.'5.'1, 8.77,<6' 5.6' H1'<=' 6' .<' >7'7' >.' 5''Q4 ' J.1' 6'<6' <=4 .74>.' .7' 6'<6' >'<J.1% ' E'47' >,<.' 7.1 / <.1' 5'' 1.- ,547 ,<8' . .67 ' > 1.' ; , / / .<; .1' ?'1' '<.'<7 1' 7,47.6' 5.6' > 6?, 6 7 ,<68' 7,<6' 5.6' ' ;7.6' ; ,<' 71'> ;7, 1.6' '4@' ?1 <; ?.6' >.' - ,71.' ; ,<67 747 ,<' I' ; '1' 7' < .67' '4; 4?' : , / / .'1' 6,<<'05.' =4 ' ?1.<<.' ; ,<' E '<; .' .<' ; .'=4 .55.'<,46' ?1,< .7' >.'641.5.8' >.'5 0.17>' <> - >4.55.8' >.' 5 0.17.' >.' ; ,<6; .<; .8' >.' 1.6?. ;7' ?,41' 5.6' ?1,?1 7.68' 7'<7' =4 5' .<' - .11'' 5'' - ,5'7 ,<% <6' - ,6' ; , / 7. 6' >.6' 1. ; : .1; : .68' 5.6' 5, 6' 6641' 5.6' / M J1'<768' 5.6' 6.1 / .<76' <457 ?5 ;6' .7' 5.6' - ,5.<; .6' =4' 5.6' 64 - .<785'' ?.16. .47 ,<' >.6?1E 71.68' 5.6' . / ?1 6,<' <. / .<76' '10 71' 1.68' 5.6' ?1, ; .' 1.6;1 / <.55.6' ; ,<M 71.' >.6' ' ; ;46.6' 6'<6' ?1.4- .68' 5.'E'<'7 6 / .' .7' 5''>,M / <'7 ,<' >.6' ;54068' 7,47' ; .5'' >, 7' > 6?'1' 71.' '' 5'' ?1.6.<7'7 ,<' >.5'' ; ,<67 747 ,<8' 6' - ,45.0=4 ,< ' ; ' ; ;?5.5 01. / .<7.7' =4 , '1.@. ;45.%

' 6' ; .' < .67' ?'6' .<; ,1.' '66.0' ?,41' 5'' 71'<=4 55 7V' ?405 =4.I' 5'' 5 ; .<; .' ''E' 7' 7'<7' >.' 1' - 'J.6I' 5'' 5.'>.' 5'' <'7 ,<' 0,4B5,<<. 6' - ,5. / / .<7' 641' - ,6' 7 7.6I' 1 640,1> <'7 ,<' .EH1'V'1 7.' >.6' 71,4?.6I' 5. '71,4M 05.6' 1.5 J .4@' I' 5.' / ; ,<7.<7. / .<7' >.6' ; ,5,< .68' =4' 1.7. ,7 7' Q ' ?J401. / .47' >'<6' 5.6?,176' Q5 <=4 74>.

P

641'7 .;' ' ' .6 <'<; .68 &2 4' 6' ';;1,4' ?'1'7,<7.6 ; .6
;.;,6.68 7.56 6,<7 5.6 / ,7 E6 =4 '>, -. 7 - ,46 >.; >.1
'' '>,?7.1 > 6 ;.' / , / .,7 . '>.6 > 6?,6 7 ,<6 J. <>
%1'5.6 =4 '1.<>.<5 5.' J,4 .1<. / .<7 '466 ' / ?,6'<78
' 66 '1.?1 / '<7 =4 5 .67 ?.4% ' ,1>1.'<.'6.'1>7' '
05 7 7,47 '' 5'' E, 6 >'<6 '1 / >.'.7 >'<6 5.6 ?,176 8 >'<6
J5 6.' .7 >'<6 7'7%>'<6 5.6 ;,5,< ;6 ;,1< / .'>'<6
1 <7.1 .<1'>,'1,V'4 ,.8 7'5 .01'<5>' 6 'J 7.1'' .<M
;,1.'5,<J7. / ?6 >'<6 5.6 ;,<-456 ,<6 >.%5 '<'1;: .%
#.6 > 6?,6 7 ,<6 8 ?,41'>71.' .E ;';.68 >, -.<7 >71.'
,05 J'7, 1.6 ?,41' -,6 64;;.66.416 I' .7 6' -,46 ;,<67'
>. 1.I =4 .<1.4< 66'<7 '4Q,41> : '7,<6 5.6 ?,4 -, 68
.< > 1 J.'<7 '> / < 671'7 ,< ;, < / .' 5''5.J 65'7 ,<8
-,46 <,7.6 ;.?.<>'<7 .<7,41.6 =4.' >.' >.6,1>1.68
-,46 < >7.Y.<;,1.''66 6 =4.'641'>.6 >#01 68 =4.55.'
%6.1'' 5'' ?,6 7 ,< >.' -,6 64;;.66.416Z' ' -,46 <.'5.6
%;,<7.<.0 ?'1' >.6 > 6?,6 7 ,<6 ?546 E,17.6 =4.' 5.41'
%-,5,<7.8 ' -,46 <.' 5.41'1. / .77.0 4< J,4 -.1<. / .<7
';7 E.7 - J,41.4@8 4<.' '66. / 05. .' =4 ' <.' ?.<7 >71.'
> 66,45.>.?'66.1''7,<7.6 5.6 5 / 7.6>.'6.6 ?,4 -, 16
%.7 '41'' ?,41' .@;46.' . / 0'11'6 >.6 ; 1;,<67'<;.6%
34.'>.- .<>1'' '5,16 -,71.';,<67 747 ,<Z' ,4 -.<.0'
-,46 >.' : 67, 1.'>.6 ! 1.;68 .7 ;, / 0 .< 4<.' ?1.M
/ .1.'1.-,547 ,<<,<7.1 / <>.' .< ?1,>4 6 7> '471.6
>'<6 .6?';.'>.'; <=4'<7.''<6%
% <E < 5.6 ?4 66'<;.6 >71'<J.1.6 >, -.?7 .@; 7.18
6 <,< -,71.' .EE1, 8 '< / , <6 -,71.' '77.<7 ,<% ' 5''
?' @ 6.'1>7'05 7>'<6 5.'1,V' / .86 '5.6 H1'<;' 6 6,<7
5 01.6 .7 5.41 J,4 -.1<. / .<7 1.6 ;7>8 <,46 < '-,<6
1 . ' '' .1' <>1.'>.'<,6 .,<. / 68 .7 <,46 <.'?,4 -,<6
?546 '-, 1' '4' / , <6 ?,41.<<. / 6 >.6 H1'<;' 6% E8
'4' ;,<71' 1.8 '<'1;: .';,<7 <4.8 414?.'7,47 .<M
7 ;.' .67 <7>1.66>.8 <.' ,46 5.'> 66 / 45.0 ?'68 '' 5''
E' 1.' ;.66.18 ==, =4 4<.' >.7.67'05.' ?,5 7 =4.' ?>7
%7.<7.1'>.' ';;1,571.%#.6,<7 7,47.6 ;.6 ;,<6 >.1'7 ,<6 '
1.4< .68 5.'>'<J.1'>.6 #,<-.<7 ,<6 <'7 ,<'5.68W. 4'
>.6 ; 1;,<67'<;.6 ';74.55.68 5'' 6 74'7 ,< >4' 1, 8 '5''
<.;.66 7V > 4< -;. '5 01.%.7 ?' 6 05. '7'<5' >.' 6'' 17'
=4.'>.'5''?'17 >.'5'' <'7 ,<8 641'5'' ;,<67 747 ,<8 641'
5.6 / ,V.<6 >.'5'' 1.E,1 / .18 =4 ' / ,<7 > .7>'5.'?1,Q.7
>.'>.;1.7 =?.'Q.' -' 6 -,46 6,4 / .771.N

'' 66. / 05>.'<'7 ,<'5.8 -,45'<7 '6641.1' '4' 1, ' .7 ' 5''
<'7 ,< 5.6 / ,V.<6 > ,< ;,<6.<7. / .<7 5 01.'.7 > 4< .@' '
/ .< 1.E5>.0'>.' 5'' ;,<67 747 ,< =4 .55.' '' '11#5#.' .7 >.6
;,<> 7 ,<6 '4@=4.55.6 .55.'?.<7 71.'1.E,1 / #. #,<6 >>1'<7
=4.8 6 5 <.' ?.'5 V '-, 1'>.'1'1 '5 ,4 641'5.6 ?1 <; ?.6 >.'
0.17>' <> - >4.5 .'.7 >.6 >1, 76 .66.<7 .56 >.6 ?.,?5.68 5''
E,1 / .'6,1'5'=4.55.' .@.1; ;.'>.';.6 >1, 76 .7 5.6 <,>.6 ><
J,4 -.1<. / .<7 6,<7 <67 7<>6 <.'?.<7 >71.' >>#<7 . / .<7
#,<6'.1#.' =4.' ?'1' 1.@?>1 .<;.' .7 5.' -..4 #;7'1# >.' 5''
/ 'Q,1 7.'>.6 ; 5,V.<6I' ;,<6 >#1'<7 =4.'5.'?'1E' 7 #7'05 6'
6. / .<7 >.' ,1>1.' .7 >.' 5'' ?' @ ?,05 =4.' .67 5.' ?1>'5'05.'
<#;.66' 1.'>.'5''67'0 5 7>' >.'5'' ;,<67 747 ,< .7 >.'5'' / '< M
E.67'7 ,< B01.'>4 -..4 <' ,<'58 >#;1#7.';.'=4 '64 7N
7' 178 F8' ';, / ?7.1'>4 Q,41'>.'5''?405 ;'7 ,< >,'?1.M
6.<7>#;1.78 5'' 1.-,547 ,<8 =4 ' '' 1.<>4' '4' ?# ?5. .@.1'
%; ;.'>.'6.6 >1, 768 .67 ;,<6, / / ..8 .7 <<5'<.'?.478 6,46
'<;4< ?1.7.@5.'>.'0 .< ?405 ;.'.7 >.'?'71 ,5 6 / .8 71,405.1'
,1>1.'>.'5''?' @ <7#1 .41.8 <'6 / / 6;.1'>'<6 5.6 E,<;'
7 ,<6 .7 '47,1 7.6 =4 ' =.'54' 6,<7 ?'6 6?.; '5. / .<7 '771 '
04#.68 ''?. <%.'> .71.'?,41 4 -' .7 ?4< 8 64 -'<7 '' 1 J4.,1'
>.6 5, 68 ?, / / .'?.17410'7.41'>,'1.?,6 ?405 ;8
W 8' ,46 ;6 ; 7,V.<6 ';7 E68 =4.56 =4.'6, .<77.'16 ,? M
< ,<68 .7'7 .7 ?1,E.66 ,<8 6,<7 '??.5#6 .7 <- 7.6 0 .@' / M
<.1' =416 >1, 76 >'<6 5.6 '66. / 05#.6 ?1 / ' 1.68 5'' 5 0.17.'
>.'5.41'64EE1'J.'>.-'<7 .71.'. K;';. / .<7 ?1,7.J..'?'1'5, 6
5.6 ,EE; .16 ;,<67 7'>6 .< '45,1 7.8 5.6=:.56 >. / .41.1,<7
1.6?,<6'05.68 641' 5'' 1.=4 6 7 ,<'=4 '5.41'.7'' 6.1'' E' 7.8 >.'
/ ?4< 7.'>.6 - ,5.<;.6 ;, / / 6.6%
$' %' .< 1#..75''6,17 .'>4' 1,V'4 / .'6,<7.7 >. / .41.<7
5 01.6 '' 7 46 5.6 1'<?' 6'.7 .71'<J.16 =4 ' <.' E.1,<7?, <7
?'17 .'>4<.'71,4?.' '1 <#.8 66. / 0 ..' <'7 ,<'5.' 1#-,'
=4'<78 '';.7 .EE.78 5.6> 1.76 1.<>46 ;.<71.'5.6 . / J1'<76%
W % ,46 ';;46.6 >.7.<46 ?,41'E' 56 1.6457'<7 >.'5''1.M
-,547 ,< .7 ;,<51.'5.6=<.56 '< V '' ?, <7 >.'?1.4 -.6 ' ,'
=4 6.6 >.';? / ?5,76 ;,471.' '7 ,< - ,5.<;.6 ;, / / 6.62

/ ' <'1 / >.8 6.1,<7>5'1J 68 .75.6 ?1,;.>41.6 ;, / / .<.E ;6
'<<45.;6%
W % .6 ;, / 7.6 >.6 1.;:.1;:.6 .7 >.6 1'??,176 6.<7 .7
>. / .41.1,<7 64??1 / .6%
$ % 7 .67 >.E.<>4 '4@ ,;>.6 ;,<<<.6 6,<6 5.'<, /' .'
;5406 8 .7 ''7,47.6 '471.68 >.'?1.<>1.'.7 ?405 .1' '4;4< '11.7.'
N6,1 5.6 'EE' 1.6 ?,05 =4;68 >.' 6.'?.1 / .771.' '4;4<.'1.=4 M
6 7 ,< '4@ / 'J 671'56 .7 '4;4<.';.<641.';,B.;5 -.1' <';'6
>.';,<71' -.<7 ,<8 5.6> 7.6 '66. / 05>.6 6.1,<7 > 66,47.6%8%.7
5.6 / . / 01.6 6 J<'5' 1.6 >.6 >.5 0.1'7 ,<6 ?,4164 - 6
;,1< / .'?.17410'7.416 >4' 1.?,6 ?405 ;
$' % 41'5''1.=4#5.'>.'7,< ;'?'17 .'?7' J<'<7.''>1.66#.'
'<@ > 1.;7, 1.6 >.' > 671 ;7 ,4 >.' >#?'17. / .<78 5%6.1''
>1.66.' ?1,;.6 -.10'5 ?'1'5.6 / 4< ; ?'7 7.6 >.' 7,46 >, / '
/ 'J.68 <;.<> .6,4 ?55'J.6 ;, / / 6 41' 5.6 ?1,?1 .7.6
>'<6 5.' ;, '76 >.'5''1.-,547 ,<8 .7 5.6 ?1,?1 . ' 1.6 6.1,<7
Q<>. / < 6.68 / , 7 # '4@ >.?.<6 >4' 71#6 1 ?405 ;I' ' 51.'
/ , 5 .6.1''1.?'17 .6 1'5.6 ;, / / 4<'4 .6=777< ,<7 ?, <7
. / ?#;0.'5.6 >, / / 'J.6%
W 555% .6 / 4< >?'5 7.6 <.'?,<11'<7 .<-,V.1' E',16
>.'5.41' .<;. <7.''4;4< >.7';:. / .<7 >.6 J'1>.6 <'7 ,<'5.6
6'<6 1'47,1 6'7 ,< >4' > 1.;5, 1.' >< > 671 ;7 ,4 >4' >#?'1'
7. / .<7%
' ''% ,47 '471.'6.1 / .<7 =4.' .>< '> .71.'6,4 / 6 '' 5''
;,<67 747 ,<8 E >#5.' '' 5'' <'7 ,< .7 '< 1, 8 .67 'O,5 %
$' ''% ,46 5.6 >'7:,5 =4.6 >4' 1,V'4 / .' ,47 5''5 0.17.'>.'
1.;,<<' 71.' '47,1 .'6? 1 74.55.'>.' 5.416 '<; .<6 ,77 >.'
5.416 <,4 -.'4@ ?'6 .416%
W'' % / ';,<6. 56 >.'J4.11.'6,<7 1.7'05 6 >'<6 '1 / ..'
>.'7.11.' .7 >.' / .1 Q46=4 '' ;.'=4.' 5'' > 6; ?5 <.'6, 5 .< - '
J4.418 .7 > ; ' '77 '<- .1 ?1, ;: ' <5.6 >#5 76 / 5 7' 1.6
6.1?<7 Q4 6' .7 ??< 6 / '?1 6 5.6 > 6?,6 7 ,<6 >.6 '<; .<<.6
,1>,<<'<;.6%
$' '' % ,<6 5.6 . ??5, 6 / 5 7' 1.6 '7'@=4.56 5 < '' ?'6
.7;' ?,41-4 6.1,<7 1.6 74.6 '<@ ,5K .16 =4 8 'V'<7>,<<>
5.41'>. / 66 ,<>.?4 6 >.4@ / , 68 6> ?1#6.<7.1,<7?,41'5.6
1.? .<>1.
$' '' % '' ;,<67 747 ,< .7 5''5.J 65'7 ,<>.6 ;,5,< .6 >>
?.<>1,<7 << =4. / .'7>.'54 6'<;7 ,<>4' 1, 8 .7 .771'> / M
< 671'7 ,< 6.1'' 6,46 6,< '47,1 7>8 66. / 05>.' <'7 ,<'5.'
<.'6.'1>6.1-'<7 >.' >>.1>7.1' =4.'5.6 5, 6 1.5'7 -.6 'Q.41'
; / / .1; ' '-.;5'' / >71,?,5.% ' %
$'' % .1, ' .1'' E5- 7>'?'1'K . >>?47'7 ,<>.'6, @'<7.'
/ . / 01.6 >.' / 05>.' '1.?1.<>1.'5.6 1><.6 >4' J,4 -.1M
<. / .<78 ';:, 6 1'6''c'1>.' .75.'5 .77 >.'6'' 1.6 >.<;.%
W'' % '' ;,<67 747 ,< .1' ?1>6.<7>.''4' 1, ' .7 '' 5'' <'M
7 ,<8 ?,41'.71.' .@>;47>.'?1,- 6, 1. / .<78 6'<> =4 5 ?4 66.'
V .71.'E' 7 >.' .0'<J. / .<7 =4 '4@ ;,<> 7 ,<6 .7 .< ,06.1M
-'<75.6 E,1 / .6 =4 '6.1,<7 ; '?1#6 .@?1 / >.6%
W'' % .'1, '6.1'' <- 7.' ''>>;5'1.18 >'<6 5.'>>5' ' =4 '
54 ' .,<- .<>1'8 5.6 / ,> E ;'7 ,<6 =4 5 Q4J.' <>..66' 1.6 ''
' .;7.';,<67 747 ,<<.EN 5'' >.;5'1'7 ,< >.' '' 'Q.6 .'6.1''
'>1.66>.' '' 7,46 5.6 >>?'17. .<76%
% . '' % ,<6 5.6 ; ,V.<6,<7 5.' >1, 7 > .@? 1, .1' -.1 ' '
0'5. / .<7 ,4 ?'1'#;1 7 .7 >.' ?405 .1'?'1'5''-,7.'>.' / ?1.6'
6 ';.' =4 56 '??1,4 -.<7 .7 ;.' =4 56 1.Q.77.<7>.' .'
;,<67 747 ,4<.58 .< V ,0. 66'<7 ?1,- 6, 1. / .<7I' 5 165>.'
E.<>4 6,46 ?. <,'> <E' / .' > 54;4 ?.1'>.' 5.55.6,? < ,<6
-.10'5. / .<7 ,4 ?'1'>;1 78 .7 >.' >>6 J<.1' '<.<< ; 7,V.<
6,<6 5.'5 71.'> .<<. / '>,' ?.4?5..7 >.'5'5 0.15>8 '' 1' 1'<
>.6 ;.<641.6 =4 5 6.'6.1'' ?.1 / 6.6 ;,<71.'5.6 > 6?,6 7 ,<6
>.' ' ;7.' ;.465 747 ,<<.5% ,47 ';7.' >.' - ,5.<;.' .@.1;#
;,<71.'4< ?'17 ;45 .1' ,4 ;,<71.']'' ?1,?1 >7>' 6,<6 # / . / .'
?1>7.@7.'6.1''?4< ' ?'1' '< ' '< >.'?1 6,<%8 <>>?.<>' / / .<7
>.6 >, / / 'J.'.7 / .1>76% % % % S
%$'' % .' G Q4 < (> 8 5.6 '66.1,05>.6 ?1 / ' 1.6 6.M
1,<7 6?.; '5. / .<7 ;,<-,=4#.6 2 .EE.7 >.'>#5 0.1.1'641'5''
>.;5'1'7 ,< >4' 1,5'.7 641' ';7.';,<67 547 ,<<.5% .' / ,>.'
>.' '>.5 0.1'7 ,< 6.1'' N $' '??1,4 -.' ,4 Q.'1.Q.77.%8%%I% 5.6
W / ,> 5 .'7 ,<6 ?1,?,6>.6 '' ';7.';,<6 743,<<.5% Y
$' '' '' % ' 5.6 / ,> E ;'7 ,<6 6,<7 1.Q.7..6 >'<6 4<.''6
6. / 0 ..?1 / ' 1.8 ,< ?1,; >.1'' / 77 .> '7. / .<7 ' ';0, '' '
>.6 . .;7.4168 6'<6 '471.'>.5 0.1'7 ,<% 8 -%D)'
$' '' ''% ' 5.6 / ,> E ;'7 ,<6 / <7 '> / 6.6 ' '66. / ..
.5.;7,1'7.'6.1''; :'1J..'_7' 1 > J.1'>< ; ' 4.1'>.'1.> ;66; '
1, .<7% 8 G $8
$' '' % .'1.645 '7 >.6 ;':.16 >.'5'' / 'Q,1 7.'>.6 ;,1?6
. .;7,1'4@ 6.1'' ?1 6 .< ;,<6 >.1'7 ,< ?'1' ' ;,1?6 #J6 'G
7 E8 = 'E.1'' >'<6 5'' ;,<67 747 ,< 5.6 .0'<J. / .<76 <> =<.6
?'1'5.' -,'' <'7 ,<'5g .'1, ' ' 1'' 7.'>1, 7 >.'1.E 6.;6'

.67 >E.' -, 5,5 E'55 68 .' 1 ?,<> ' 4E' ;.'
< .67 ?'6 > "?1.6 >.6?,66 0 5 7 6=4.' 5.' ; ,1?6 5.J 6 '
5'7 E>, 7 ?,6.1'>.6 17J5.68 / ' > '?1.6 5.6 ?1,0'0 '
E 7 6I ,1' E < .67 ?'6 ?1,0'05.'=4 4 .' #,<-.<7 ,<
:'7 ,<'5.'1.6 67.6.45.''1,? < , ?405 =<.'?,41 .<'
71.?1.<>1;'>.6 <<,-'7 ,<6
I' '<`6 'J 7 >,<.'=4.' >.' E @.1' 5.6 > 67'<;.6 >'<6
.6=<.55.6 5 6, 5?1.64 / '05.'=4.'5.'7. / ?6' ' 7 ' / .<>
5'' <.;.66 7.'>.'1.E,1 / .1'5'' ; ,<67 747 ,<I ; .'6.<7 >.6
;5 [<;.6 '' ; ,41 18 / ' 6 ,< 6,4 / .7 5.6 ; :'<;.6 ''>.6
; , / 0 6 6 .7 '>. ' ;'5;456 7 / .'6. / 05.'=4.'5.6
0,1<.6 >, [>.6 ', @ 5, 6 ; ,< 5 745 ,<<.55. ' <.'>, '
-.<7?'66 7.<>1.''4 >.5''> 4<.J. <.1'7 ,<I ;'18 - 5
5''<.;K66 '> ' ; ;.?7.1'4<.'E, ' ,<>.'5''1.Q.7.18 .7 -4
5'' 5 >;.66 7.>.' .'6, , / .771.' ' ' ?546 J1'<>'<, / 01.Q
5 '11 -.'= 1 .?,=4.' , 5 5''5, ' .67 E' 7.85,16=4 .55.'
.67;,< .<17.'?'15'' / 'Q,1 7.814<'< / 7>>.6; 7, L .<6
.67 ;.<6?.'6 .<J'J.1 '' 6,< .@.;47 ,< # .77.' 5, ' <.'
?.47?5466406 67.1'5,16=4.'5'' / , 7 .'>.6; 7,V.<6= '
H,<7 ;,<6.<7 .' ''>7.'1.1'?5';>.'?'1'> '471.6 <> - '
><6 <J7 '<6 .<- 1,< 64E5 6.<7 ?,41'1.J><>1.1'4<.'
<'7 , :8 6\ 5'' / 'Q,1 7> .67 E @>.' ' <J7 .7 4< '<6
,47 1.75>1.' ?546 6.<6 05.' ; .77.' - .1 7> Q.'64??,6.'
,4;' 5'' J5<>1'7 ,< ' ;74.55.' 6 '<.'<7 66.' 6'<6 5' 66.1'
4.'?,67.1 5>8 .7 =4 '?1>6 4< <7;1-'55.' 5'' <'741.' .<
?5' ; .'4<.'<,4-.55.'641'5''7.11. .67 5 ?'6 -1' '=4.'
; .77.' J><.1'7 ,< -, 4>1' 7 -, 1'6 '5'' ; ,<67 747 ,< =4 '
.@ 67' 7 ' -'<7 .55.' .67 0,<<. :' 0 .<8 =4, =<.'5.E7
:, / / .6 6.'64; ;.>.<7 ?'1'4<.'E 5 '7 ,<<,< <7.11, / G
?4.8 E'< .:' .67 ?'6 / , <6 -1' '=4 '?1>6 4< ; .17' <
7. / ?6 5'' <'7 ,< .67 ; , / ?,6>.' .< / 'Q.41. ?'17 .'
> := / 1, .6 7, 47 <,4-.'4@8 =41' ,<7 5.'>1, 7 > .@' / '
'.1' 5'' ; ,<67 747 ,<8 .' ?1,?,6. ;< ; ,<6>=4.=;.' 5.'
?1,Q.7 >.'>>;1.7 64 - '<7N
'6.'7 .<>1''7,<6 5. ' - <J7 '<6 47,.' #,<-.<7 ,<<'7 '
'5.8 ;:'1J#.'?'1'5.'?..?5.'>.6?, ,-, 16 <#;.66' 1.6 ?, ,1'
1.-,57 5'' ; ,<65 7,5 ,< .5 V E' 1.'5.6 ; :'<J. / .< 6 ; ,<-.<''
.6 +' .6 '66. / 5 ..6 ?1 < ' 1.6 5.41' 1. / .751,<7 5.416
/ # / , -.6 .7 ,06.1-'7 ,<6 641'5.6 '17 ;5.6 >.'5'' ; ,<65 547 ,<
=4 '5.41 ?'1' 51,<7 646;.?5 05.6 >.'1;1,1 / .' 4 >.' / ,>5 '
;'5 ,< +' #:'=4.'>.?'17. / .<7<, / / .1'' 4< 7 .16 >.' >.M
?47.6 >.' ?546 =4 ' @5.J 65'741.6 ,1>< '1.6 ' '' >41.'
>.6 #,<-.<7 ,<6 <'5 ,<'5.6 <.'?,411'' .@.>>.1 6 @ / , 68 +'
.41.' / . / 01.6 <.' ?,411,<7 ?'6 #71.' 1#.46 +' < <.'
?,411'' . 1.' ' 5'' E4 6 / . / 01.' > 4<.' 5.J 65'741.' .7 > 4<.'
#,<-.<7 ,<<'7 ,<'7. +' '' ?1. / #1.' #,<-.<7 ,<6.7 .: '
>1'' 5.' h < ' ') 8 5.6 '471.6 7,46 5.6 - <J7 '<6 \
- '*'N #:'15.6 ' / .E:8 '1,;5 .E,<'
;'45>8 >1 66# 4 4;' .5' / , ' ' -,<6 : ,<<.41'>.'
>.;5'1.1' '' H 66. / 05>.'=4.8 ; , / / .' <,71.'?5' ;.''4'
; , / 5.' ; ,5,< '5 .67 '06,54 / .<7 <47 5.''4 0 .<8 <,46
>,<<,1 6 <,71.'>> / 66 ,<
+ 'I .'>. / '<>.' 2' 5.6 '>Q, <56 '4' ; ,F'
/ 7.' #,5,< '5 =4.55.6 6,<7 5.416 1' 6,<6I .55.6 6,<7
6'<6 >,<7.' / ?,15'<7.6 '' 6'-, 1 66. / 05#.8 .<
<'<7 U ;.' ; , / 7# #'67.55'<.78 K1,65'1.78
N6 ' / .7:8 '1,;0.E,4;'45>8 #1 66. 754;' .7
1';V8 5.41' ' -' 5' ; ; ,1>#4<..<7 .1.' ; ,<E ' ;.
/ .66 .416 ' -' .<7 > '0,1>' ' ; ; .?7.I 56 1.E46.<7 '4 '
Q?41> 04 7 5 E'7 7=4 56 Z6, .<7 >.7.1 / <.6 ?'1'>.6
1' 6,<6 ?4 66'<7.6 7 1#.6 >.' 5'' ; ,<>4 7.' >4 ; , / 7#
7,5,< '5I <,46 5.6 ?1 ,<6 >.'<,46 .< E' 1.'?'17
' 546 .416 / . / 01.6 '??4 .<7 5'' ?1,?,6 7 ,< >.'
I ;55.6
' ' .'>. / '<>.' '' 5 1.' 4<.' 5.771.' 1.5'7 - .'
'7 @ ; ,5,< .6I .55.' <67 4 1'' H 66. / 05>.'>.'E' 56 / '
?,17 <7 I Q .4 ; .17 E .'H'47:.<7 ; 7>8 .7Q .<'>.?,6. '
1' ' H,1 J <'5 641'5.'041.'4
5 765.416 / . / 01.6 6 0??,6.<7 U ; .75.'5. ;741.
66. / 0 ..'>.; >.'=4.' ; .77.'5.771.'6.1'' 54.
' ' 'N K 5.' .67>.1 7.> <J.16 ?'1' ' :'0 7'<7
>55 #'? =4 ' .67 >.?4 6 ; <= / , 6 .< H1'<;. & < 1 7 P
8 4;'6 5 7 5'' 5.771.'>,<7 -, ; '5''64067'<;.'N
W 7 <;'E'47 ?'6 ;1, 1.'5.6 <, '-.55.6 >'' #'? .' ; ,<<' 6
)$; ,5,< .8 .7 Q.' '56 =4.?546 >.6 >.46 7 .16 >.6 ; ,5,<6
T' ^ < -'.

6,<7 >.'5e-6 >,'>>;1.7>,' K' E .5 7.E51; '?' 1E ;45 '
1.6 >4 #'?6<7,<;.7 7 =4 ,< >7' E > ;.01> >.'Q,4.1 4<''
.6? ;.>.; 1<>>.'?,41 E' 1.'?.'1'U5'' 1' 5; . 5 E' 7>.; ' '
.:.7.17,47.6 5.6 &.771.6 =4 '6,<7 .<-,V>.6><K '<;.8 .77,47. '
;.>.6 =4 '6,<7 E'-,1'05.6 ', '>>;1.7 ,'7 <7.1;.?7>.68d.5; \
' 'N ' <7.7 '<78 '??4V'<7 5'' / ,7 ,< >.'
'55.68 Q=>. / '<>.'=4.' E'>V E7, 7 ?1 > >.' 6 .@'
?5 =4;1
' # 'I <'>. / '<>.'=7 .'5.'>0: 7> ; ,5,M
< '5 6, 5 1. E,1 / .' .< .<7 .E8 & '6 >5.-.' >.' -5,5.<76
1<41 / 41.68 64 - 6 > 4<.'5,<J4.' 'J 7'7 ,< P
' ; 5 ' ' ' A- A , &! 3 '
.'<.';1, 6 ?'6 =4.' ,< ?7 6 .' '> / .771.' 5'' / ,7 ,<
>.' '7 Q< <' 6 55.' '41' 78 U / ,< ' 68>.'71.6 '
J1'<>6 <.=<-><.<76I .7; .17.6 ,<<.' / .'646?.;7.1''
?'6 >.'?'17 '5 5.' .< E'-.41 >7P #, 7.' ; ,5,< '5 '76
6 ' ,< 5.'1.<,4-.5' 78 5 6.' ? 411' 7 =4 '4;4< >.6
/ . / 01.6 =4 '5.' ; , / ?06. 7 ';74.55. / .<7 <.' EE 7 1. '
<, / 1'>I '5,16 7 .65 >- >.<7 =4.'5.'E 5 >.6 0?>1'7 ,<6
6.1' 7 .<7 .1. / .<5 ?.1>4 .'<> ;1, 6 ?'6 =4 5 V' '
4< 6.<S ; , / / .'=4 8 ?1 >. / / .<78 ?>76.; :'1J. '
> 4E7 71'-' 5 '466 ' & ' '466 ' ?>< 05.'U >?,=47
,:'<,46 6, / / .68 .7 .'64 6 ; ,<-' <;4 =4.'?.16,<<.'
>'<6 ; .77.' 66. / 05>.'< .<' ' ; ; .?7.1 7 5'' / 66 0< I .'
Q.'>. / '<>.'U '< 4 <' 6 < / >< > 8 < 'V'<7' <
;4<.' ; ,<<' 66'<;.' , ' 55 >.6 ,?.1'7 ,<6 >7E ; ,4 7>
6 8 < 'V'<7 '4;4<.' >.6 <,7 ,<6 =4> 7.' ; , / 7> 6 . 7
5,<J7. / ?6 ,E;;4?>U E.#7 . 55 E8 & 6> .:' .1' E > 4<.'
'466 ' / ?,17'<7.' / 66 ,<8 '4 / 5 .4 >> ' .-> . .<7 '
> - .16 =4 '?.4-.<7 640-.< 1 .'>. / '<>.'>, ;'=4.'
5'' / ,7 ,< >.' '<Q4 <' 6 <.'6, 5 ?, <7 / 6.'4@
-, @8 5 ' 6 =4.'5.' ;0 / E.' .05, 5'E 5 >77.'>'<6 6,?
71'-' 5 5.'0.E.'=< ,<'>, 7 .5' ' #<>1. 5 . 7>4'>.-, 1'
>.' ; .' , , / 7.' >.' <,46 ?E0?,6.1' ?E0< ?E. : .<7 6.6
- .68 6, 5 641'5.E7 / .641.6 .EE.;7 -.6 U ?1.<>1.8 6, 5
641'5.'?'17 8 ?.47 >71# ?1>E>1'05.8 =4 ' ; ,<6 6E.1' 7 '
'77.<>1.'5.6 >-><. / .<76 .7 >.6 0 -.55.6 ?546 '4 '
7:.<7 =4.E7
' - ' 'N .'<.N 7, >E.1 >E'5 7'6 41' <,6 / ,7 1 '
?'1;.'=4.' ; .'6.1' 7 1.<71.1'>'<6 5.'E,<>'>.'5''> 6;46M
6 ,< >.6 =4.67 ,<68 .7 / > / .'>.6 'EE' 1.6?'175;4 .1; '
=4 '<.'>, -.<7 ?'6 , ; ?.1' H 66. / 05>. ,56 < ' '
- ,<6 ; ,<6457> =4.'<,71.'0.5.'.< ' ; ;.07'<7 5'' / 66 ,<
=4.' -,46 <,46 ' .0 ; ,<E . I / ' ' '.?4 '=4.'< 46
6, / / .6 '< ; , / 7>8 <,46 <,46 6, / / .6 ; <-' <;46
8 =4.'<,71.' ?1>6.' ; .' ! '>7' 7 <47 5. ' ,< >. / '<>.'
>.6 / ,7 E6 <57>1 .41 8 Q.'> E' '=4.'Q ' ' .7.'>>7.1 < : .8
/ , '?.16,<<. 5.<7.<78 U >,<<.1'75 '' >. / 66 0 '?'1'5''
?.16 67'<;.' >4 ; , / 7> >'75 ' < 6V67. / .' .0<E1.'5. '
=4.5 Q ' '7,4Q,416 1.;5' / .8 .7 '4=4.5 Q ' ' -4 =4.'<''
?1.6.<;.'<.'?,4-' 7 6.1- 1' '' '??,17.1' '4;4<.' / ,> M
E ;'7 ,< 8 '
? 7N 7.' ;0,5@ =4.'H 66. / 05>.' ' '0 . '
-,454 E. 1.'>.'<,46 '' >> ?,46 E5'77.1I 5 ,4 'V '-,<6
1.?,<>4 ?'1'<,71.' . / ?1. 6. / .'5 U 5 04 ' 1.<>1.' '4
; , / 7> ,71.' ; ,41'J.' >J'5' 7 5'' > EE ;457> >.6 ; 1'
,6<67'<;.6 ,46 <.F <,46 6,< ? .6 '6 > 66 / 45>
; , / 0 . 5 6.1' 7 ?>< 05.' 5 ,717 / 66 0<I / ' 6 <,46
'-,<6 ;14 71,4-.1'.7 >'<6 <,71.' 0.5>8 ;5 >'< .? '
?1.66. / .<7 >.'<,6 ; ,55.J<.68 .7>'77 ' :051.' ' / ,41'
'?,41 E' 1.' 5.'0 .<8 5.6 / ,V.<6 > V ?'1-.1 18 ' .67
/ '5:.41.46. / .<7 >.' ; .6 ,067' ;5.6 = 5 < .67 ?'6
8 >,7 <.' '' 7,47 5.' / ,<>.'>.'641 / ,<7.18 ,067' ;5.6 =4 '
P1>6457.<7> 4<.> EE.1.?; .> ,? < ,<.7>.F6.< / .<76I
' .7 =4 .5 '' / <,1 7> <.'?.<7 -' <;1. '1' ; .61' / ,7 E68
1.6457'<7>.'5'' ; ,<71'1 .7>'>.'<,6 ,? < ,<6 ''-.;'0.55.6
>4 ; , / 7.8 ,<'?.<7Q4J.1'>.6 '<71.6 =4.'<,46 7' ,? '
; 8 ?'1; .'=4 56 <,46 6,< '?41. / . 7 ?.16,<<.56 .'
<.' / .'6.1' ['Q' / ' 6 '77.<>4 U 1.<;,<71.1'> 17 '17 . '
; ,55>J4.6 5.6 6.<7 / .<76 =4.'5.6 / .77 01.6 > 7 ; , / 7>
; ,5,< '5 ,<7 / '< E.67>6 '' <,71.' .J'1>I Q.' ' ' 7 '76
Q' / ' 6 ;14 =4.'<,46 ?466 ,<6 >71.' ; .7 . 55 8 c\041
>.6 / ,7 E6 >.'> - .16 7>'> ,? < ,<68 ' .;5'' :'5-. 5'
5'<;.'=4 '<,46 ''>7>7> :, J<>.'>0 5'' / '< .1> 5''?5 46

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! b ʿ ʿ ,>ʿ ʿ B # ʿ EB %

Y CUU% - ʿ Gʿ K B 77.ʿ (* 8ʿ 1GGʿ < ʿ ʿ ʿ ʿ

"

cʿ # K ʿ " %

! ʿ ʿ ʿF ʿa

" ʿ ʿ C : A ʿ

, ʿ ʿ , (ʿ ʿ- ʿG ! ʿ Aʿ

ʿ (ʿN "6.;,<>.ʿ ?1,?,6 7 ,<ʿ .67ʿ=4 5ʿ<GV ' 7ʿ?, <7ʿ>.ʿ#,<-.<7 ,<6ʿ<'7 ,<'5.6ʿE @>;6ʿ''.?,=4.6ʿ > 7.1 / <7E.68ʿ / ' 6ʿ=4.ʿ 66. / 05>.ʿ6.ʿ1 ` .1-.ʿ>W>>ʿ 7.1 / <.1ʿ4<ʿ / ,>.ʿ> '?1.6ʿ5.,4.5ʿ5" <'7 ,<ʿ ?,4 1" / '<E.67.1ʿ6,<ʿ-,.4% ,16=4.ʿ 66. <07>.ʿ'41" ?1 6ʿ <ʿ?'17ʿ641ʿ;.77.ʿ=4.67 ,<8ʿ ʿ4.6 'J 1" ?546ʿ=4.ʿ>4ʿ < ,V.<ʿ> '-, 1ʿ>.6ʿ #,<-.<7 ,<6ʿ<'7 ,<'5.6% .@' ʿ / <.ʿ;.?.%<>'<7ʿ5"=4.67 ,<ʿ.<ʿ.55. / > / .ʿʿ 7ʿ / .ʿ?' ʿ 1' 7ʿ / ?,17'<7ʿ=4.ʿ-,46ʿ>>7.1 / < .0ʿ >?,=4.ʿ'-0=0E 5'=4.55.ʿ 7ʿ<.ʿ ?,411"Vʿ.<ʿ'-, 1I 7,47.D .6ʿ ;; .7>6ʿ >4ʿ1,V'4 / .6 'J 7.1' .<7ʿ6'<6ʿ;.5"?,41ʿ?,17.1ʿ" <ʿ 65'<7ʿ>.6ʿ '77. <7.6ʿ "5" ;,<67 747 ,<I ,<ʿ> 6;47.1' E 6'<6ʿ;.66.Iʿ7,46ʿ5.6ʿ?'? .16ʿ?405 ;6ʿ6.1' .70ʿ71. / ?5 6ʿ >;ʿ?1,?,6 7 ,<6Iʿ0' / ' 6ʿ<,46ʿ< '41 ,<6ʿ5" / , <>1.ʿ 71'<=4 55 7>N 5ʿ .67ʿ>,<.ʿ <>..66' 1.ʿ8ʿ6ʿ-,46ʿ-,45.0ʿ =4.ʿ5.ʿ ;'5 / .ʿ6.ʿ1.7'05 66.8ʿ6ʿ-,46ʿ-,45.0ʿ=4.ʿ<,46ʿ 6,V,<6ʿ=4.5=4.ʿ7. / ?6ʿ71'<= 55.6ʿ" '01ʿ>.ʿ<,6ʿ5, 68ʿ 5ʿE'478ʿ> 6 0.8ʿ=4 B6, 7ʿ5 @.ʿ 4<.ʿ .?,=4.ʿ'-'<7ʿ5' ʿ =4.5 .ʿ 5ʿ< V '41" ?'6ʿ>.ʿ;:'<J. / .<7% #. @ʿ=4ʿ1' ʿ 6,<<.<7ʿ>'<6ʿ5.ʿ / > / .ʿ6.<6ʿ =4.ʿ / , ʿ>>6 1.<7ʿ=4.ʿ 7,47.6ʿ5.6ʿ?'66 ,<6ʿ6, .<7.7. <7.6ʿ" >?,=4.ʿ>.ʿ5" ?1,;:' <.ʿ#,<-.<7 ,<%

.ʿ>. / '<>.ʿ>,<.ʿ=4.ʿ >?,=<.ʿ'-'<7ʿ5'=4.55.ʿ 5ʿ<.ʿ ?,411"?'6ʿV'-, 1ʿ>.ʿ#,<-.<7 ,<ʿ<'7 ,<'5.6, 7ʿE@>.ʿ "71=<7.ʿ'<6% <ʿ / .ʿ> 7ʿ=4.ʿ1 .<ʿ<.ʿ?.47ʿ . / ?>.:.1ʿ 5"J.<>1'5 7>ʿ>.ʿ5"'<'7 ,<ʿ>.ʿ1.E,1 / .1ʿ6";,<67 747 ,<ʿ =4'<>ʿ.55.ʿ5"71,4V.ʿ / '4-' 6.I;.;ʿ.67ʿ4<ʿ6,?: 6 / .0ʿ 0.ʿ?,411' 6ʿ-,46ʿ> 1.ʿ '466ʿ=4 'V'<7ʿ>.4@ʿ'<6ʿ> ;ʿ 5<.ʿ <6411.;7 ,<ʿ6.1" <>..66' 1.N ' <6ʿ 5ʿE'4ʿ ?E.< ʿ >1.ʿ4<ʿ7.1 / 6ʿ7.5ʿ=4.ʿ7,465.6ʿJ.1<'.6ʿ>.> - 6 ,<8ʿ=4.ʿ 7,46ʿ5.6ʿ?1.04J>6ʿ=4 6406 67.<7ʿ.7ʿ=4ʿ6406 67.1,<78ʿ =4, ʿ=4 ,<ʿ5'66.8ʿ.<;,1.ʿ5,<J7. / ?686, .<7ʿ'<.'?7 6ʿ 55E'47?,415"?1,;:' <.ʿ#,<-.<7 ,<ʿ>.60, / / .6=? 8ʿ <;68ʿ ?,41ʿ ' <6ʿ> 1.8ʿ>'<6ʿ 5" ;,<67 747 ,<8ʿ==ʿ .<ʿ 'V'<7ʿ:4 / >ʿ5.6ʿ?1<; ?.6ʿ?'1ʿ >>4;'7 ,<8ʿ5";:.1 6ʿ 6.<7ʿ'66.0ʿ?,41ʿ,6.1ʿ< .<ʿ'77'=4.1ʿ ' / ' 6ʿ=4.ʿ5.6>>ʿ E'476ʿ. - >. 76I 5ʿE'47ʿ=4 .55.ʿ6, 7ʿE@..ʿ2ʿ4<.ʿ>?,=4.ʿ '66.b .5, J<>.ʿ?,41ʿ=4.ʿ5.6ʿ >..6ʿ '=; .<<.6ʿ6, .<7ʿ 7,47.6ʿ>5'J4>. >.ʿ5"641E';.ʿ>.ʿ5"H1'<;.% .ʿ;,<;546ʿ >,<.ʿ";.ʿ=4 5ʿ< Vʿ' 7ʿ?, <7ʿ>.ʿ#,<-.<7 ,<ʿ<'75, '5.ʿ '-'<7 [illegible] 8

ʿ ' 48 3. ʿN .ʿ;1, 6ʿ=4 5ʿE'47ʿ.@' / Gʿ <.1ʿ?1.'5'05. / .<7ʿ6 5ʿ< V '41' 7ʿ?'6ʿ>.ʿ / ,V.<ʿ>' ʿ -, 1ʿ>.6ʿ'66. / 05 .6ʿ>6ʿ1.- 6 ,<ʿ' ʿ / ,< .<7ʿ ʿ.55.6ʿ 6.1,<70ʿ4J>.6ʿ< ;.66' 1.6% $

8ʿ 1';Vʿ>. / '<>.ʿ5' ?'1,5.%

.ʿ5,<J6ʿ / 41 / 41.6ʿ <> =4.<7ʿ5.ʿ-,.4ʿ >.ʿE.1 / .1ʿ 5"> 6;466 ,<%

ʿ ʿNʿH.1 / .1ʿ.<ʿ;.ʿ / , / .<7ʿ5" > 6;46M 6 ,<8ʿ . .67ʿE.1 / .1ʿ5" 1 - ,547 ,<% .ʿ>. / '<>.ʿ=4 ,<ʿ ' 55.' @ʿ-, @% ʿ 7

ʿ 1';Vʿ <6 65.ʿ?,41ʿ,07.< 1ʿ5" ?'1,5.%

66. / 05 .ʿ> ; >.ʿ=4.ʿ % 1';Vʿ6.1" .<7.<>4%

ʿ- ' ʿ ,46'-.0> ;1. 7 ʿ=4 05ʿ < V '41' 7ʿ<5ʿ #,<-.<7 ,<6ʿ<'7 ,<'5.6ʿ?.1 ,> 4.68ʿ:ʿ".?,=4.ʿE@.% " ?1,?,6 7 ,<ʿ=4ʿ7.<>ʿ "E' 1.ʿ>.;5'1.1ʿ=4 5ʿ<.ʿ ?,411"V .<ʿ'-, 1ʿ'-'<7ʿ71.<7.ʿ'<6ʿ"7,<6ʿ5.6ʿ <;,< ʿ - < .<76ʿ>.ʿ ?,=4.ʿE@.Iʿ;'18ʿ> 1.ʿ=4 5ʿ< V.<ʿ'41" ?'6ʿ'-'<7ʿ71.<7.ʿ'<68ʿ. .67ʿ;,1' / .ʿ6ʿ,<ʿ> 6' 7I 5ʿV .<ʿ'<1"4<.ʿ>'<6ʿ71.<7.ʿ'<6% '-'<7'J.ʿ>.6ʿ'66. / M 05 .6ʿ;,<65 74'<7.6ʿ.67ʿ>.ʿ7.< 1ʿ.<ʿ01 >.ʿ7,46ʿ5.6ʿ?,<ʿ

Wʿ F ^<

, 56ʿ;,<67 74 6% B Vʿ" <<ʿ>.ʿ;.6ʿ ?,4-, 1.ʿ' / 0 Yʿ 5 .4@8ʿ 5ʿ. / ?5, .1"6ʿ< .<6,<7. / ?6ʿ046=4 " ?,=47ʿ 5@.ʿ=4.8ʿ ,16=4 .55.ʿ '11 -.1'8ʿ 0ʿ6.1" / ' 71.ʿ>.ʿ = / ' 6,<% 5,<,?< ,<ʿ6.1' 78ʿ<,<ʿ?'6ʿ>.ʿE@.1ʿ .<ʿ;.ʿ / , / .<7ʿ ?,=4.8ʿ / ' 6ʿ>.ʿ1.<-,V.1ʿ5"=4.67 ,<ʿ0ʿ46ʿ = '?1.6ʿ ' E,?7 ,<ʿ> 4<ʿ?5'<ʿ=4.5;,<=4.ʿ>.ʿ#,<ʿ -.<7 ,<%

ʿ& % & ʿ ʿ -ʿ4! -ʿ *ʿ$%ʿ ! (ʿ&

% '<>5.%

8ʿ ,0.6? .11.ʿ>. / '<>.ʿ5" ?'1=5.%

66.= 05 .ʿ> ; >.ʿ=4.ʿ5"> 6;466 ,<ʿ .67ʿE.1 / E.%

FAʿ ʿIʿ .ʿ>. / '<>6ʿ5" ?'1,5.ʿ ?=4Vʿ<" ' / .<>. / .<7%

ʿ 546 .416ʿ / . / 01.6ʿ>. / '<>.<7ʿ"E' 1.ʿ>.6ʿ / ,7 ,<6ʿ > ,1>1.%

% # KK ,<Nʿ .6ʿ / . / 01.6ʿ>.ʿ;.77.ʿ 66. / 05 .ʿ ,<75.ʿ>1, 7ʿ> .71.ʿ .<7.<>46641>.6ʿ / ,7 ,<6ʿ> ,1>1.Iʿ 7 ' 6 0ʿE'47ʿ?1 '5'05. / .<7ʿ?41J.1;.55.ʿJ4ʿ".7 E' 7.ʿ ?'1ʿ % '<>1ʿ'-'<7ʿ>.ʿ?'66.1ʿ2ʿ>.ʿ<,4-.55;6%

66. / 05 .ʿ>.;>.ʿ1 ʿ ,<ʿ<.ʿ?,411" 51.ʿ.<Zʿ 7.<>4ʿ=4.ʿ?,41ʿ?1,?,6.1ʿ>.6ʿ' / .<>. / .<56ʿ"5" / ,Gʿ 7 ,<ʿ>.ʿ % '<>1%

6 ʿ D ʿN % '<>1ʿ<,46ʿ?1,?,6.ʿ>.ʿ> ;1 ʿ c.1ʿ=4 5ʿ<.ʿ?,411" Vʿ'-, 1ʿ>.ʿ#,<-.<7 ,<6ʿ<'7 ,<'M 5.6ʿ?,41ʿ5" J <.1'7 ,<ʿ';74.55.8ʿ ,46ʿ54 ʿ 7.b .6?, 1ʿ >.ʿ1.7,4;:.1ʿ'4@ʿ'17 ;5.6ʿ=4ʿ6.1,<71.;,?'46ʿ / '4ʿ -' 6%.7-,46ʿ " 1.> 6.0ʿ?4ʿ> 6.6?, 1% .ʿ>. / '<>=ʿ =4.ʿ5.ʿ> 5' ʿ6, 5ʿE@.ʿ"=4 <0.ʿ'<<..6%

ʿN ?1 6ʿ'-, 1ʿ.7'05ʿ4<.ʿ;,<67 74Gʿ 7 ,<ʿ'4ʿ / > .<ʿ>.ʿ7'<7ʿ> ,1'J.68ʿ-,46ʿ'-.0ʿ>E, 7ʿ>.ʿ E @.1ʿ1 <5.1-'55.ʿ>.ʿ7. / ?6ʿ< ;.66'51.ʿ ?,41ʿ?,<-, Eʿ .<ʿ;,<<' 71.ʿ5.6ʿ?'17 .6ʿ> E.;74.46.6% "6.ʿ0,1<.<ʿ ʿ?,4-, E68ʿ;7ʿ '<6ʿ '>: 6 ,<ʿ7';7.ʿ>.ʿ7,?6ʿ5.6ʿ;Zʿ 7,V.<68ʿ=4 8ʿ?'1ʿ5.ʿ0.5.ʿ=4 56ʿ,<7ʿ / 6ʿ:ʿ.@ ;47.1ʿV,6ʿ 5, 68ʿ,<7ʿ0 .<ʿ?1,4- ʿ=71.55.6ʿ7'0.<7ʿʿ.@?1.66 ,<ʿ>.ʿ 5.41ʿ-,5,<7.8ʿ-,46ʿ'410.00.6, <ʿ> 4<.ʿ?'7E;'7 ,<ʿ J <>1'5.% 34.5ʿ.67ʿ1' 6,<<'05. / .:7ʿ <7.1-'B.ʿ>.ʿ 7. / ?6ʿ<.;;66' 1.Zʿ <ʿV 1.E5.;: 66'<78ʿ % '<>1.ʿ54 I ʿ / > / .<.ʿ?,411"?'6ʿ6,47.< 1ʿ=4 5ʿE'4>1"71.<7.ʿ'<68ʿ ,71.ʿ; ,67 747 ,<ʿ.67ʿE,<>..ʿ6<1ʿ5.6ʿ0'6.6ʿ>.ʿ5"046M 7 ;.8ʿ.7ʿ-,46ʿ<.ʿ?,4-.0ʿ64??,6.1ʿ=4 ,<ʿ ? 1.<-.16.ʿ >.E,<>.<ʿ., / 05.%ʿ'<V'41"0' / ' 6ʿ=4 <<.ʿ1. 6 ,<ʿ >.ʿ> 7' 5% .ʿ 4??,6.ʿ / / .ʿ=4.ʿ5" / '0=1 7.ʿ>.ʿ5" <'7 ,<ʿ-.4 55.4<.ʿ1 ?405 =4.8ʿ0<ʿ<.ʿ6.1' 7ʿ?'6ʿ / / .ʿ ,05 J.ʿ>'<6ʿ;.77.ʿ:V?,7E .6.ʿ>.ʿ;:'<J.1ʿ5";,<6 74Zʿ 7 ,<% ʿ-,46ʿE @ .0"71.<7.ʿ'<<..681.?,=4.ʿ;.ʿ .@ ʿ ?1 .<;.ʿ'41" / ,<71ʿ5"0,<7.ʿ,4ʿ5.6ʿ-;.6ʿ>.ʿ-,71.ʿ ,4-1'J.8ʿ'4ʿ5 .4ʿ>.ʿ1. / ?01ʿ-,71.ʿ0478ʿ= ʿ.67ʿ5.ʿ1 Gʿ 5'05 66; / ;<7ʿ>.ʿ ,1>1.8ʿ-,46.<;, 1'J.10.0'4ʿ;,<Gʿ 71' 1.ʿ .6ʿE';7 ,<6ʿ"E, / .<7.1ʿ <6411;;7 ,<8ʿ .ʿ>.1ʿ / '<>.ʿ=4.ʿ 66; / 05 .ʿ>.;1.7.ʿ=4 ,<ʿ<.ʿ?,<17" ?1.6.<7.1ʿ>.ʿ?7 7 ,<6ʿ?,41ʿ>. / '<>.1ʿ4 ,.ʿ#,<-.<M 7 ,<ʿ<'7 , '5.ʿ'-'<7ʿ> @ʿ'<<..6%

ʿ+ ʿN c ʿ .67ʿ / ?,66 05.ʿ> '??1 ; .1ʿ'4ʿ 467.ʿ 5.ʿ0.4>.ʿ5"<,4-.55.ʿ / ';: <.ʿ=4.ʿ-,46ʿV.<.0ʿEE 7' ʿ 05 1'-'<7ʿ> .<ʿ'-, 1ʿ-4ʿ5.6.EE.76%55E'474<.ʿJ.< ʿ 1'7 ,<ʿ> :, / / .6ʿ?,41ʿ?41J.1ʿ;.77.ʿ7.11.ʿ> ʿ5 0.17ʿ >.6ʿ.6;5'-;6ʿ=4ʿ5"634 55.<7 .<;,1.8ʿ.Eʿ?,?1ʿ=? .55.ʿ ?'1' 66.ʿ>'<6ʿ7,47.ʿ6"1,'0.65 Iʿ . .67ʿ?,41ʿ;.ʿ1,,7Gʿ =<.ʿ0.ʿ>. / '<>.1'ʿ=4.ʿ5.ʿ?.5ʿʿ ,7E@.ʿ" - :J7ʿ'<68 '66.<7 / .<7ʿ=4.ʿ 66. <05 .ʿ"7 Zʿ 1,, J<.ʿ"5" ?1. / .1.ʿ?1,?,6 7 ,:ʿ=??0'ʿ.?ʿ ; , / ʿ <.?1>.ʿ54ʿE' 1.ʿ / .ʿ?1,4-.ʿ=4.8ʿ6ʿ0.ʿ / .ʿ64 6ʿ71, / ? 8ʿ >4ʿ / , <6ʿ0 ʿ?'17'J ʿ / ,< .11.41ʿ'-.;ʿ0.'4;,4?ʿ>gʿ ?.16,<<.68ʿ .<.ʿ1.- ,<>1ʿ'?'6ʿ6<1ʿ5.6ʿ1' 6,<6ʿ=4ʿ / ,<7ʿE' 7 '??4V.1ʿ / .6ʿ?1,?,6 7 ,<6Iʿ;'1ʿ.55.6ʿ,<7ʿ 5 ʿ0 .<6.<7 .6ʿ?'1ʿ 66.1,<5..% .ʿ-'76ʿ>,<D Zʿ 0,1<.1ʿ".@' / <.1ʿ64;; <;7. / .<58>.4@ʿ,00.;7 ,<6ʿ=[

,<7HHE'7. ' '1'5''?1./ .1.8 ,< <,46''> 7=4 ;<
? <;?.'<,46 < ' ,<6 ?'6 5.' >1, 7 >.'E @.1 4<
7;1/;'?,41 ."'/.<>.'5'';,<67 747 ,< .'> 6=4.8
8 <,46 77 '-,<6 ?'6 5.' >1, 7 >.'E @.1 5.' 7.1/.8
5,46< '-,<6?'6 ?546 ;.54 '>.'E @.1> @ '<6 ,4'7,47
5471. ;.5'' ,< /.'1>?, > '76 <,46>./'<>,<6
.45./1<7 =4.' .@?>1 .<;.' ' 7 ?4 E' 1.' ;,<<' 71.'
c4.56 .7' .47 5.6> [<76 5,16 Q.'-,46 >./'<>.';.'
k5 .'-,46 . 7;<>.0 ?'1 .@?.1 .<;.' 67 ;.' 46'6.'
1.; '>.'> @ ? 76Z , 8Q.' /.'..; I ;'1>' .67 ?,66 05.'
k4 ' a' ' 77.5 - >'?65''.,<67 747 ,<=4 '<.6, 7?'6
5.-.5,??.> ; ''> @ '<68 7,47 ;,1' /.' 5 .67 ?,66 05.'
7 5V ' 77.5 '1'<7'J..66.<7 .5 >'<6 5'';,<67 747 ,<8
>'1'<7'J.'=4 ' .< E'Q7 5'' 0'6.' ?1 <; ?'5.8 =4 ' <.'
,411' ?'6>71.'- 1 7 05./ .<7 6.<7'7'<7 =4.'5''<' '
,< 6.1''> - 6>.' .<>.4@ ?'17 6I =4.' ;.'<.'6a1'' =4.'
' 7> .6 >.4@ ?'17 6 6.1,<7.7. <76.7 ;,<E,<>46 .<
<6.7 58=4 ,< ?,411''6.<7 1 5.6 -.1 7'05.6'-'<7'J.6
.'5'';,<67 747 ,< <'' ,0Q.;7.' .<64 7. ' 6 5 <.'
'J 7 =4.'>.';:'<J.1>.6 '17 ;5.6>.'>>7' 5 5.6 0' '
.6>.'-,71.';,<67 747 ,< <.' 6.1,<7 ?'6 ;:'<J..6I
55.66,<7 6 0,<<.6 =4.'Q' /' 6 ,< < V7,4;:.1' ' 68
-@;.?7>'5'' .5'1'7 ,<>.6 1, 768 7,47 5.'1.6 .'?.47
>71.' ;:'<J.' ' ' ;,1?6 ;,<67 74.<7 '' .;5'1'M
7 ,<>.6 1, 76 '??'1E .<7 ''7,46 5.6 :, / <.6I / ' 6
5.' /,>.'>.'J,41. / .1<. 78 / ' 6 5''> - 6 ,<>.6 ?,4 '
-, 168 / ' 6 1>7'05 66. / .<7>.6 '> / < 671'7 ,<68 / ' 6
.5.;7 ,<>.6 Q4J.6 ?'1 5.' ?.4?5.8 / ' 6 5.6 ;7,V.<6
';7 E6.7 <';7 E 8 / ' 6 5.6 ;7,V.<6 .5 J 05.68 7,47.6
;.6 ?'17 .6 >.'5'' ;,<67 747 ,< ?.4-.<7 .71.';:'<J..6
?'1 5.;,1?6;,<6 74'<7 7; .67.<-' <=4.' ,<-,46
' 1''=4.' 5.' ;,1?6 ;,<67 74'47 <.' ?,411'' >71.'=4.'
;,1?6 >.'1.- 6 ,<8 <.' ?,411''>#5 0.1.1 =4.641 5.6
?.7 7 ,<6=4 '54 '6.1,<7 ?1>6.<7>.6 .7 ,:''-.@ -,4 '
>,<.'71,4-.'=4.'-,<6 '- .0 5.'>1, 7 >.'E' 1.'>.6 5, 6
''4<;31?6.,467 7 '<7Z & <'??7'4> 7 5 .67.- 7.'7
=4.8 7,47.6 5.6 E, 6=4.'-,46 '41.0 4<;, ?6=4 ''41''
5.'?,4-, 1>.';:'<J.1 5'';,<67 747 ,<8 5 '<1''5.'?,4 '
-, 1>.'5''#:'<J.E7,47 .<7 :1. 546 .416 ?.16,<<.6
/.'> 6.<7 =4.'E 66./05..'>.'1.- 6 ,< < '41''?'6 5.'
>1, 7 >.'7,4;:.1 :'5'';,<67 747 ,<8 .@;.?7#',@<17 '
;5.6?,41 5.6=4.56 .55.' '41'' .7# . -,V.. '471.6
> 6.<7 .55.'.<'41''0 .< .'>1, 7I / ' 6 .55.'<.'5.'E.1''
?, <7 ,16=4.'=<.5=4 4 4< ''5.'>1, 7 >.'E' 1.'=4.5=4.'
;:,6.8,< <.'?.47 ?'6> 1.'=4 5 <.'5.'E.1''?'6 <6 '
5.'?, <7 >.'E' 7 .67 >;'17.I -.<,<6 '< ?, <7 >.'>1, 7
< ;,1?6 '66./05.8 '??.5.'?,41'1.-, 1 5.6 '17 ;5.6>.'
5'';,<67 747 ,<8 ?.47 5 '55.1 '4 >.5''>4 / '<>'7=4 '
54 ''41''#5.'>,<<>.'1.-, 1 7.5 ,4 7.5 '17 ;5.Z ' <; '
5''E,1/.'=4.' ,< -.47 ?1.<>1.

.6 '66./05 .6 ?1 / ' 1.6 E.1,<7 >.6 ? 7 7 ,<6 641
7.5 ,4 7.5 '17 ;5.'>.'5'' ;,<67 747 ,< 5.';,1?6 5.J 65' '
7 E .7 5.'1, ' .@' / <.1,<7 ;.6 ?.7 7 ,<6?'1 5.6E,1/ .6
=4.'-,46 '41.0 .7'05 .68 1.<-.11,<7 '4@ '66./05 .6
?1 / ' 1.6 ?,41 <> =4.1 5.6 '17 ;5.6 =4 5 E'471 - '
6.1 ,41 E' 1.';.6 ;<'<J./ .<76,4;.6 '>> 7 ,<68 ,<
<, / /.'>.4@ ,4 710 6 ;.<76 >.?47 68 =4 ' - .<>1,<7
E,1/ .1 4< ;,1?6>.'1.- 6 ,<8 5.=4.5 .@' / <.16 5.6
'17 ;5.6?,41 5.6=4.56 5 '' 7 ' .<-,V 8 .7 -.11''6 5 V
''5 .4 '' 5.6 ;:'<J.1 , 5'' -,71.' 6V67. / .8> '?1.6
5.=4.5 -,46 / .'> 7.6=4.';.';,1?6 >.'1 - 6 ,< 6.'0,1 '
<.1''4< =<. / . 7 ';:'<J.1 5.6 ?, <76 >.'5'' ;,<67 M
747 ,<=4 '54 '6.1,<7 <> =4.6?'1 5.6 '66./05 .6 ? Q '
/ ' 1.6 1Q. / ' <7 .<6 =4.';.' 6V]7 / . 5''<.' E 47
?'6 71.'6,47.<4I Q.' / ' <7 .<6 =4 5 .67 / ?,66 05.'
>.' 6,47.< 1 =4.' 5.6 '66./05 .6 ?1 / ' 1.6 ?4 66.<7
>, <.1>.6 / '<>'76 / ? 1'7 E68 =4 .55.6 ?4 66.<7> 1.'
''4<.' '66./05 .'>.'1 - 6 ,< ,46 <.'1.-.11;0 =4.'
7.5 ,4 7.5 '17 ;5. ' -,46 '> / .77.0>.6 / '<>'76 / M
? 1'7 E68 ;.'=4.'-,<6 '-.0 ;, / / .<;'?'1 '<.'<7 18
-,46 '> / .77.0 5''>.6714; ,4 >.'7,47 J,4-.1<. / .<7
1.?1.6.<7'7 E

< / .'> 7 #.'4.'6.1,<7 ?'6 >.6 / '<>'76 / ? 1'M

7 E68 / ' 6 >.6 / '<>'76 5 / 7'7 E6 >.' 1, 0Q.7I .67 '
> 1.'=4.'5.' / '<>'7 ?, 17.1' ,46 <.' ?4411.0 >.5 '
0.1.1=4.641 7.55.' ,4 7.55.' ;:,6. 1 Q.-, 60 ;<
>.4@ <, / 6 > EE 1.<76 5' >.>'<68 / ' 6 Q.' < V -, 6 - '
1 7'05. / .<7 <455.'> E .1.<;.'>'<6 5.'E4<> .7>'<6 .6 '
6.<;. ,46 6,15.0 >4 6V67. / .'1.?1 6. 7'7 E8 .7 -,46
-,46 Q.7.0 >'<6 5.'6V67. / .'>. <,;1'7 =4. ' 5.6 ?.1M
6,<<.6 =4.'-,46 .<-.11.0 6,<7 >.6 1.?1 6. 7' 56 5 '
?.4?5.8 '5,16 56 ,<7 5.'>1, 7 >.'-,7.18 ?,41 <7 1.5 >.'
5.416;, / / .77'<768 6415 ,0Q.7=4 <7 1.66.'5''<'7 ,<8
.7 > .@?1 / .16,<-;.4I6 56< ,<7 ?'6 5.'>1, 7 >.'-,7.1
.7 > .@?1 / .1 5.'-..4 >.' 5'' <'7 ,<8 56 <.' 6,<7 ?546
1.?1 6.<7'<76 >4 ?.4?5.8 56 <.' 6,<7 =4.'>.6 / '<'
>'7' 1.6 ' ' .'-' 6?546 5, <8 .7 Q.'<.'6' 6 ?'6;.'
=4 ,< ?,411''1.?,<>1.' '' ;.; <.;,<67 547 ,< 7' 7
.66.<7 .55. / .<7 5''> 671 047 ,<8 5''6.?'1'7 ,<8 5''> M
5 J'7 ,<>.6 ?,4-, 168 ;.'>, 7 71.'4< .<6. / 05.'=4 8
6 5 .67 0 ,<8 6.1'' <> - 6 05.I =4 8 6 5 .67 0 , 8 ', 7
/ '1;:.1 4< E,1 / / .<7 1 Q.' / ' <7 .<6 =4 5 .67
'06,54 / .<7 / ?,66 05.' '' 4<'1' 6, <.41 >.'6,47.< 1
=4.' ,< ?.47 >,< .1>.6 / '<>'76 ?,41 ;:'<J.1 4 .'
,.6 ?'17 .6 >.'5'' ;,<67 747 ,< 6'<6 -, 1> '-'<..=4.'
;.77.' ?'17 .' >.' 5'' ;,<67 747 ,< =4.'-,46 >.?5';.0
E,1 / .'4< - >.8 .7 ;:'<J.' 7,47 5.' / / -. / .<7 >.'E''
/ ';: <. < / .'; 7.'4< .@. / ?5.'=4.'Q.'-,45' 6 ?1 '
; 6 / .<7 ; 7.1I ,< / .'> 7 .'?,411' 7 ,< ?'6 7,4M
;:.1 '4 ?,4-, 1 Q4> ; ' 1.' 6'<6 7,4;:.1 '4@ '471.6
Q ,4-, 16Z .' / ' <7 .<6=4 5 V ''7.5;:'<J.< .<7>'<6
5.'?,4-, 1 Q4> ; ' 1.'=/'7,4;:.1' 7 '4@ '471.6 ?, '
-, 16I ?'1 .@. / ?5.8 6 ' ,<>,<<' 7 '< 1, ' 5.' >1, 7
>.'E' 1.'J1 ..8 < .67 5 ?'6;.17' <=4.' ;;5'' .67 >'<6
5.'6V67. / .'Q4> ; ' 1.8 .7=4.';.5''>.1'<J.1' 7 ;< ?'1 '
7 .' 5.'6V67. / .'>.6 Q 1V6Z .' ;7.' 4< '471.' .@. / ?5.8
.7 Q.'64??,6.'=4.'5.6 '66. / 05..6 ?1 / ' 1.6 71,4-.<7
=4.'5.6;:, @ >4 ?.4?5.'?,41 5.6 Q4J.6 ,<7 >.6 <;,< '
-.< .<76I =4 5 E'45 <.;.66' 1. / .<7 4< ;0' J. / . 7
>'<6 ;.77.'?'17 . 5'I . ' #,<6.=4.<;.8 =4.' ,< ?1.M
6.<7.16 '4 1, '71, 6 64Q.768 ?'1 / '5.6=4.56 5 ;:, 6 1'
;67 5 ?'6 .- >.<7 ?'1 5''=4.'-,46 >,<<.0 4<.' < '
54.4;.' ?546 8 J1'<>.' '4 ?,4-, 1 .@.;47 EZ .67 5
6 - >.<7=4 .< >,<<'<7 ;.77.'<, / <'7 ,< 5 E'4 '
' 7 54 >7.15.6 ;, / / 66' 1.6 >41, 8 '7 < > >7.14<.'
<E54.<;.' >4 ?,4-, 1 .@.;47 E 641 5.6 71 04<'4@Z
=4 5 E'4>1' 7 .7'05 1 4< / ,>.>.'1.6?,<6'0 5 7.'?,41
5. ' / < 671.68 1.5'7 - . / .<7 '4 ;:, @ >.';.6 Q4J.6Z '
.67 >,<.';.17' <=4 .8 =4.5=4.' '17 ;5.'>.'-,71.';,<M
67 747 ,< =4.'-,46 / .'>,<< .08 6 ' ;.7 '17 ;5.'.67 0,<8
5 '41''<.;.66' 1. / .<7 >.'5'' ;,11.6?,<>'<;.8 >.6 1.M
5'7 ,<6 '-.;'> '471.6 01'<;:.6 >.'5'' ;,<67 747 ,<8 .7
=4.'-,<6 <.'?,4-.0 ?'6>. 1'<J.1 4< 1,4'J.'6'<6 .<
>. 1'<J.1 0.'4;,4?'> '471.68 =4 ' E,E 7 '55.1> '471.6
,0Q.76 ' .67 >.' 7,<7.';.17 74>.'=4.'-,46 <.'?,4-.0
?'6 >,<<.1>.6 / '<>'76 5 / 7'7 E6 '4@ >.?47.6 =4.'
-,46 .<-.11.0 '' 5''1.- 6 ,<I 5 .67 >,<.';.17' <=4.'
6 ' -,46 <.'?,4-.0 ?'6 5.41 .< >,<<.1>.'5 / 7'7 E68
56 6.1,<7 ;,1?6 ;,<67 7<'<7 .< .<7 .1I 5 .67 >,<.';.1M
7' <=4.8 6 56 6,<7 ;,1?6 ;,<67 74'<7 .< .<7 .18 5 E'47
=4 56 ' .<7 5'' 5 0.17.'> .@' / <.1 5'' =4.67 ,< >'<6
7,47.'6,< .7.<>4. .' 10?,<>6 / ' 7.<'<7 ''>.4@
1' 6,<6 4<.'>.'>1, 78 ,??,6..' ?'1 K. [0.558 .5
5 <.'>.'E' 78 ,??,6. .'?'1 .6 / .4< .16

''1' 6,<>.'>1, 7 .67=4.'<,46< '-?<6 ?'6 5.'>1, 7
>.'E @.1 71.<5.''<68 .7=4.'5''<'7 ,< ?.47 6.'1.;,<67 '
74.1 =4'<> 0,<5 '6. / 05.1' .'?1,E.66.';.'?1 <; ?.'
;, / / .'5.'?10 ,? <'<7I / ' 6 6 .<64 7 5 >.'5''=4.'<,46
'V,<6 5.'>1, 7 >.'E @.1> @ ?5 7, 7 =4.'71.<7.''<6Z .'
<.'5.';1, 6 ?'6I ;'1 6 ' <,46 <.'?,4-,<6 ?'6 E @.1 ''
71.<7.8 <,46 <.'?,4-,<6 ?'6 E @.1 ''> @ '?1.6 ;.5''
c 'E'47 .@' / <.1 4< '471.'?, <7 >.' E' 7 ?546 / ?,1 '
'<7 < -,46 ''> 7 ' -,46 E @.0 4<7.1 / .'?546 5,<J
=4.'> @ '<68 -,46 E 7.05 .6?, 1 '4@ J.<6 & '>.6 1.<7
>.6 / ,> E ;'7 ,<68 .78 .< 5.41 7'<5 ;.5 .6?, 18 -,46
5.6 ,05 J.0 ''6.' -1.1 ''>.6 E';7 ,<68 '>.6 <71 J4.6

U

.7'' >W6 / ,4-;1'.<76?,<1 ;:'<J.1'5'' ;,<67 747 ,<
;'?.<6.'=4.'>'<6-,71.''-6-,46 ,4-1.0?1>; 6.7<. 7
5'' ?3'5.'' 7,<6 5.6 71,40 .6 .7'' 7,47;6 5.6 E';7 ,<6
;'1 6 5.6 J.<6=4 '>;6 1.<7>.6;:'<J. / .<76>'<6 5''
;,<67 747 ,< ,<7 .6?.1'<..'=4.'>'<6 > @'<6 > ;
,<?,411'' E' 1.'>.6;:'<J. / .<76>'<6 5'' ;,<67 74
7 ,<8 '5''?54?'17>. '=4 '6,<7''5''7 7.'>.6
E';7 ,<6 6,<7.<;,1.'Q.4<;68 5 .67.->.<7 =4 56,<7
.6?, 1'>.' 1.?'1'E71.' '' 5'' 7.7.'>.'7,<6 5.6 ?'17 68 .7
= 7 '5,16<,< 6.45. / ;<7 ,46 5.6 ?'17 6 .@ 6 '<768 .7
56 6,<7.<'66.0 J1'<>'<, / 01.8 / ' 6 .<;,1.'7,<6 5.6
?'17 6 ' 6.' E,1 / .18 ?1.<>1,<7 >.'<,4-;B.6 E,1;.6
;'1;.6 J.<6=4 ' 6,<7 E 6 '4Q,41> :4 '6;' 5 E 1,<7>.'
?546.<'?5468 ;,<6.1-.1,<75.416 1.5'7 ,<6 .7 5.416 .6 '
?.1'=;.6 ;.4@ =4 ' <.'6,<7 '4Q,41> :4 ' > '4;4 '
?'17 8 5.6 4 6>'<6 ;6?, 1'>'-, 1'5.6 ?5';.6>4Q\,<'
-, 1.@.;45 E8 5.6 '<71.6 >'<6 .6?>1'<;.'>'-, 1'5.6
?5';.6>4 ?.,?5.8 #.6 J.<6 5'' 8 >'<6 5.6 >.4@ 6.<68
E,1<.1,<7>.6;,'5 7 ,<68 .@; 7.E,<7>.6 <71 J4.68
.7<.'<,46 5' 66.1,47 '4;4<.'.6?.;.'>.'1.?,68 ?'1;.'
=4 .<;,1.'4c .'E, 6 5.'7.1< .'>.'> @'<6.67 1,?;,417
'?1.6;.5'8 5 .67.->.<7 =4.'-,46 -,46 ?5, J;0
-,46 / 9 <.6>'<6 5.'7,410 55,<8>'<6 5.' ;:',6 >.6
E';7 ,<68 .7 =4.'-,46>, / .0 '4@ .<<. / 6>.'5'' 1.
-,547 ,< .6?, 1'>;';:'<J.1'5'' ;,<67 747 ,<'' c.<1'
J1>'>'<6 > @'<68 ?,41.'<Q,4 1 ''5.41' ' 6. '?1 6 '
;.5'8Q.'-,46 ?1 .'>.'<,46>1.'6 5 .67 ?,66 05.'>.6,4 '
7.< 1'=4.'-,71.'6V67. / .'<'' '4;4< <;,<-.< .<78 .7
=4.'. .67 5.'<>71.'=4 '5.6 ?1>6. 7.'7,46

D0 A ' '.->.<7 =4 5 < V'' '4;4< :, / 77 .'=4 '
?4 66.'6.'?1,1'.771.''4Q,4 > :4 '>.'- -1.'>'<6 71.?7.'
'<6 > ;' .7 > >71.'5.';:.E>'4<.'E';7 ,<Z 34.5 .67;;'
54 '>.'5''H1'<;.'.<7 .1.8 / '1=4'<7 '4Q,41> :< 8 E,1
/ '<7 4< ?'17 8 = '?4 66.'1' 6,<<'05. <.<7 6.'?1, '
/ .771.71.47.' '<6 >.'- .8 .7 > .71.' J1'<>' - 6 1' 6 5
?<1- .<7 ''.7'05 1'5.'>.6?,7 6 / .8 '' ' ;:.E>4';,?6. 5
.@..<7 E 6 5 ?'1- .47 '' .7'05 1'5'' 1.?405 =4.Z & <
'??5'4> 7

.@4 / <,' '?1.6.<7 4<.''471.8 .6?.;.'>.'>'<J.1'
=4 '6.'?1.6.<7.'>'<6 5.'6V67. / .'>.'> @'<6 ' 7,46
;.4@ =4 '?.4-.<7 '-, 1'.<- .'>'4J / .<7.1'5.41'?,4 '
-, 1'-, .<7 4< 047 71.6 ?1,.0' <8 '4=4.5 56 ?.4-.<7
;6?.1.1'4<;:'4J. <.<7I6 8?'1'.@. / ?;8 5.'?,<-, 1'
.@. .47 E .7' 7 ;, / ?,6.'>.' < < 671.6=4 ' .466.<7 >4
;'1';7.1;' .7 >.'5'' E.1 / .5.8 .7 =4 56 > 66.<7 ' V ''
4< / ,V.<71.6 6 / ?5.'>.'<,46 E' 1.'>,<<.14< J1'<>'
?,4 1, 1 5 < V ''=4 ''<.'?'6.@.;47.S'5.6 5, 6'47'47
=4.'<,46 5.'?,411,46 ;0,46>.0 .< / .771.'' ;,<
-.17 <,71.' 1.6?,<6'0 5 7>I7 ;:,<6>.'<.' ?'6 1.'
>'<6 5.';'6> 51.> ;5'1 6;1 / <.56 >.'5.6. <'7 ,<8
.7 ?,41 7,47 5.'1.67.'5' 66,<6E5,77.1'5.61 <.6 5.'J04 '
-.1<. / .<7< 1''?'68 7,47 6.1'' .<>.6,1>1.8 .7 >'<6
> @ '<6 <,46>1,<6 '4 ;,1?6;,<67 74'<7 ' 6 5''
;,<67 747 ,<<.'-'47 1 .< -, 5''> @ '<6 =4 .55.'<.'
?.<7 ?'6 / '1;:.1 & .6'??5'4> 66. / .<76 1.;, / / .<'
;.<7 .'64??,6.'=4 5 V ' 7 >'<65.'1,V'4 / .'4< ?'17 '
<, / 01.4@ =< -,454 ''1>?405 =4.I Q.'64??,6.'=4.'
;;' ?'17 ' ' 7 >.6;,11.6?,<4'<;.6 71.6 . 7.<>4.6871 6
-'67.6 Q.'64??,6.'=4.';.' ?'17 ' -.4 5.'?,17.1'?.<
>'<7 > @'<6>.6>.?47.6 '4@'5.J 65'741.68 ?456=4 .<
.EE.7 5.6 ?.16,?<.6=4 ' ,47 5.6 ,?< ,<6 5.6 ?546 .@' '
J.1..6 6,<7 = ; =4.E, 6 ;.55.6=4 ' ,<7 5.'Q>46>.'E' '
-.41' ?,?45' 1. :0 .<8 ;.' ?'17 5'8 -, ;' =4.55.'
6.1' 7 6'' ;,<>4 7.I 5 >.<,<;.1' 7 ;,<7 <4.55. / .<7
5.6 / 4< ; ?'5 7.68 5.6>. ?'17. / .<768 5.6 J'1>.6 <' '
7 ,<'7.68 5.]' / < 671.68 .7>.<,<;'<7 ' <6 '64;;.66 '
-. / .<7 7,47.6 ('' '47,1 7.6 5.J 7 / .68.<71'-'<76'<6
;.66.'5'' / '1;:.'?'1'>.6 <=4 .74>;6 .7 >.6 / ,4-.'
/ .<76 ?,?45' 1.68 5 > 1' 7 '4'0,47 >4 7.1< .' ,71.'
J,4-.1<; / .<7 / ,<'1.0 =4.'<.'?.47 ?'6 '57.1 .'
-,V.0 -,46 ?'6=4.'5.'?,4-, 1'.@.;47 E.67;, / ?,6>'
>;'J.<6=4 '<.'E,<7 ?'6 5.41'>.-, 1Z <.'-,V#0 -,46
?'6=4.'5.6 '> / < 671'7 ,<6 6,<7;, / ?,6. .6>'1 67,

;1'7.68 =4.7. 'J'1>.6<'7 ,<'5.6 ':7 6.<7>.5.<1'<'
7,1 7.'Z 7 ' <6 '64;;.66 -. / .,78 & ,4-.'4@ '??5'4 '
> 66. / .<76P

,V,<6 / ' <@.<'<' 6' ''-6'.'71.<7.''<6 '' 4.'
<;, -.< .<76 <> 7 .6 J.<6=4 ' '<1, 7 ?.1>4
.6?, 1',;;'6 ,<<.1,<7>.6 <6411.;7 ,<68 >.6 / ,4 '
-. / .<768 >.6>.6,1>1.6 ' 6 ;.6 J.<6 5'' 6,<7 56 I
/ 'Q,1 7>',4'5'' / <,1 7 Z 56 6,<75'' / 'Q,1 7.8 56E;'
1,<7 7,47 >.' / > / .'>.6 / ,4-. / .<76?.<>'<7 > @@ /'
3, / <.'?.<>'<7 71.<7.'IW7 6';.6 J.<6 6,<7 5'' / 4,_
1 7.8 5 E'4>E'' ' 766 '0 .<'5'' 1.?1 / .1?.<>'<7 > @'<6
=4.'?.<>'<7 71.<7. 7 1.< '1=4.0=4.'?.<>'<7 -,71.'
1.- 6 ,<8 ?.<>'<7 =4.'-,46 7.6.<;,1.'.<'?5';.8.<
;,1.'6 J.'<7 ; I ?.<>'<7 =4 ,< ,4-'7 .6?. 1.7 = 4
-,46 E.1 .0>.6;:'<J. / .<76>.6 1.6 I =4 'V'<7.<;,1.'
5 <.' '47,<70 ;, 65 74'<5.' ,46 / ,> E .1 .0 -,46 '
/ J .6 ;.'=4 ' ?,4-' 7 ;:,=4.1I >'<6;.' / , =. 8
> 6 Q.8 ,<'' 'J'?'1'>.6 <6411.;7 ,<68 ?' '>.6;, / '
?5,768 ?'1'>.6;,<6?1'7 ,<6 :'0 .<8 6 '>'<6;.' / ,
/ .<7 ,<'J 7 ' <6 8 .10V.0 -,<6 =4 .8 ?'1;.'=4 , '
'41'' .<;,1.'> @'<6 '' ;,41 18 5.6 / .47.6.7 5.6 71,4
05.6;.66.1,<78 e 7 = 5 V '41''0 .<?546>.'> E ! ;457 '
'' E' 1.'>.6 / ,4-. / .<76 =4'<>' ,<'41''> @'<6 ' '7 '
7.<>1.'=4.' =4'<>' ,< < '41'' 4.'71, 6 K, 6Z ' 5.6
.<<0 / 6 >.' 5'' 1.-,547 ,<'-' .<7 ,454 E' 1.'E' 1.'
>.6;:'<J. / .476 ?'1'>.6-, .6 50J'5.] 8 ;.'<',1' 5
?'6 07>'?'1'>.6 / ,4-. / .<76 6 > 7 .4@ .7>.6;,<6?
1'7 ,<6=4 56 1'41' .<7 E' 7 ,46<.' ;:'<J.1.0 Q'
/ ' 6 5.6 .<<. / 6 >.'5'' 1.-,547 ,< .6 J.<6=4 '
6,<7 ' .<<. / 6 <.'5.'6,<7 ?'6 ?'1'5.416 <7.<
7 ,<68 56<.'5.'6,<7 ?'6 ?'1'5.416 ?1 <; ?.6I 56 5.'
6,<7 ?'1'5.41' / .' .7 ?'1'5.41' ;, .41 .41' / .' .7
5.41; / 41<;' ;:'<J.1,<7 ?']' >'<6 > @'<6 .'-,46
E5'77.0 >,<.' ?'68 .< .7'05 66'<7 4< ?546 5,<J' >>'
c' 8 >.'1'< / .1'.5'<6 7,47.6 5.6 / .6 ' / ,41'>.'5''
;,<67 747 ,< ,71.' ;,<67 747 ,< >, 7 ;@ 67.1' 7.57.'
= .B.'.6 I -, 6 >.-.0 7,<6>. 1.1'=4 .55.' ' 7 5.'
?546 >.'67'0 5 7.'?,66 05. ,6.'> 1.'=4 5 < V' '' ?'6
4< 0,< ; 7,V#<8 ?'6 4< :,<<>7.';, / / .'>'<6 5.'
1,V'4 / .8=4.5'=77.6, 5 6,?'-68=4 '<.'>,7-.> 1.'
=<.';.77.';,<67 747 ,<8=4 ''';,>7.'7'<7>.'6, <687'<5
>.'?. <.68 6406 67.'5.?5465,<J7. / ?6 =4 15 6.1''?,6
6 05.'8 ?,41' <.'?'6 .7, / 0.1'>'<6 5.6 1'> / .6>.6,1
>1.6 >.<7 <,46 6,17,<6 A& ,4-.'4@ '<?5'<> 66.'
/ . 76P 34.'-,46.7'05 66 .0 5.'7.1 / .' ''> @8 '' -<J5
,4 '' 71.<7.''<]8 5 < .<6.1''<'?546<7 / , <6?,41'5''
<'7 ,< .55.';,?6.1-.1''6,<>1, 78 =4 '.67 <>.?.<
>'<7 > 4<;,1?6?,5 7 =4. .',<;5 68 > 'Q .6;.5'8
=4.' '-6>4';, / 7.'.6764Q.5 ''?546> <;,<-.< .<75
=4.'7,47 '471.8 .5=4.'5.' / .<?1.6.<7.' .6?, 1'>_
-- .71' =4 55. / .<7 ?.<>'<7 71.<7.'' 6

<>. / '<>.''J1'<>6;1 68 >'<6 7,47.6 5.6 ?'17 .Q
>.'5''6'55.8 '' '57.1'4@ -, @ 6 1'c'' / ,7 ,<>.' '<'
>1>

66. / 05..'E.1 / .'>.'<,4-.'4'5''> 6;466 ,<
' ; ' .'>. / '<>.'5'' ?1 ,1 7V ?,41' '-5
>4';, / 5> F

! 8>.' A- A *, &,3 ' .' >.
/ '<>.'5''=4.67 ,<?1>'5'05.'641'7, 7.6 5.6 ?1,?,6
7 ,<68 < > / .'6J1';.55.>. '<>1>8 ?'1;.'=4.'7,4'
5.' / ,<>.';,<- .<7 =4.'<,46 ?1,Q.7,<6 ,<.'5, ' <4
7 5.'8 .7 =4.'<,46 ?317,<6 '77. 47.' ''5''6,4-.1' .?
<'7 ,<'5.

K'1<'-.'?'1'57 ''5''71 04<. $

:'01,4>'>. / '<>.'5'' ?1 ,1 7V ?,<1'5.'>>5''>'
71.<7.''<6

'E'V.77.'>. / '<>.'5''=4.67 ,<?1.'5'05.'641'5'
?1,?,6 7 ,<>. '<>1.

' <>. / '<>.'5''=4.67 ,<?1>''
'05.'641'5.'7, 47I Q.'-' 6 5'' / .771''4@ -, @
' 41'7,47.6 5.6 ?1,?,6 7 ,<68.@;.?7
641';.55.'>.' '<>1.

''( ) -(.((,,(4+.' +5 (',$ * d$.(+,+6 L

7,47.6 .6 ?1,?,6 7 ,<6 ' .@;.?7 '; E_'>,' % '<>1.%
% 'E'V.77.' <6 67.'?,41' ' - , 1'5'' ?'1,5.%
' " ' 'N .' !& !' +#!' +#! +#,# ' ' ! '
! # ! ' ' $ >! !
8 546 .416 / <47. ' 6.'?'66.<7 '<6 =4.'?.16,4<.'
?4 66.',05.< 1'5'' ?'1,5.%
% H 11 N ' '>. / '<> 'P'' _^4.67 ,<'?1.'5'05.'
6 1'5'' / ,7 ,<'>.' % '<>1.8.7 - , ; ' < .6 / ,7 ` 8 .'
?.<6.'=4.'5' / / . 66. / 05..'=4 ' '1. ; ,<<4'5'' 6,4 '
- .1' <.7.'>4'?., ?5.'E1'<;'' 8 =4 ' '' .;,<44'5.'>1, 7
=455' - ' 5>.6.>,4<.14<J,4 - .1<. <.<77<.?.47< . '
;?< '751.'5.'>1, 7=77 5 ''>.'5.' / ,> 7 .1I'Q.'?.<6.'=4.'
7,47.'0,<<.';,<67 747 ,<'>, 78 ;, / / .'Q ' ' .4' 7 : ,< '
<.41'>.' - ,46'5.'>1.'5.' 'Q4 55.7 ()7P>'<6'4<'?1,Q.7
>.6 .;5'1'7 ,<6 >. ' 1, 768>, 78> 6 Q.8 ,5E1 1'>.6
/ ,V.<6 ; ,<65 747 ,<<.56 .7 ?' 6 05.6 >.' 1.-, 1' .7
/ ,> E .1'5'' E,1 / .'>4' J,4 - .1<.< .<7I'Q.'?.<6.'=4 5
6. ' 7 '75.<7'7, .'8 ' ; .'>1, 7 6,4 - .1' '>4' ?.,?5.'
E1'4=' 6> '>,?7.1',<.'?1,?,6 7 ,<'=4 ' .<'?1 - .%'0 '
6,54 / .<7 ?.<>'<7 71.<7.' '<68 ; .67 ' > 1.'?.<>'<7
4<.'J.<.1'7 ,<'7, 7 .<7 .1.8 AW
%Q 4! K' ' # .67 4<' ?1 < ; ?.' < ; ,<7.67'05.' .7
J><>1'5. / .<7 1. ; ,<<4'=4.'1 .< .' ?.<7 5 / 7.1'5''
?4 '4;.6,< - .1' <.'>.'5'' <'7 ,<8 .7 =4 .5 .' ?,47
.@.1;.1'7, 6 6.6>1, 76'=4'<>' .7 ; , / / .'.5 .'5.' - .<7I
/ ' 6 ,16=4.8 ?,47 6,< <7.1>78 - ,<6>.7.1 / .0 ,<.'
>?,=4.8 ; .'<.'6.<7 ?'6>.6 5 / 7.6 =4? - ,46 / .77.0 ''
6'' - ,5,<7>'7,47. ? 66'47.I ; .67 4<' ; ,<6. '=4.' - ,46
54 >,<<.08 4<.' < - 7'7 ,<'=4.' - ,4 '54 E' 7.6% . E.7
>,6 1. - ,547 ,<6 .67> '57. 1.1' E.' ;1>> 7 .7 >.' >. 514 1.'
$%.,<E '4; .'<>; ;66' 1.' '' 5'' ?1,6?.1 7>'> 4<' 7'7 f .'
1' - ,<6 <,46 ?'6>?1,4' - .<,46 / >7<.'Z#1, 7 ,<'=4.'
5 ,71.'<4 / .1' 1.' 1.?'1'571'8=4 ,<'6 . / ?1.66.1'' >.'
1.?5' ; .1' .< H1'< ; .' 5.6E,<>6 =< ,< .< '' 1.7 1. 68]'
,< ;1, 7 =4 '' ; : '=4.' <67'<7 <,46 ?,4 - ,<6 1.7, / '
0.1'>'<6 ; .7 .7'7>.'1. - ,547 ,<8 ,<'=4 ' - ' :7 ?.4' <,M
1.' ; ,<67 747 ,<'?.<7 .71.' ; : ' J..' ,4' '57. ..'Z ,4 '
<.0 '' - ,71.'J,4 - .1<. / .<7 >.'5'' 67'0 5 7.8 .7 - ,46
- .11.0 1.<'571.5'' ; ,<E '< ; .'.75.'#1.>7% <6 67.'?,47
=4 ,77 / . .' '4@ ,@5'' ?1,?,6 7 ,<'>.' % '<'1>%
66. / 0 ..' 1. .77.' 5'' =4.67 ,<' ?1.'5'05.'641' ''
? ?,6 7 ,<'>.' % '<>1.%
7 +) - ' 'N .' ;1, 6 =4.' E'' 6.45.' / '< .1.'>.'
1. 4< 51'7,46'5.6 .6?1 76 .67>.' ; ,<, 5 .1'5'' 1 J4 .41'>.6
?1 < ; ?.6 ' - .;'5.'6.45 / ,7 E=4'?4 66.' - ,46>.7.1 / M
<.1'2 '>,?7.1'5'' ?1,?,6 7 ,<'>.' % '<>1.%
'' 6.45.' ; : ,6.'=4 ' / '' 5,4Q,416 .E 1'V.' >'<6 #+
?1,?,6 7 ,<'>.' % '<>1.8 ; .67 5'' ;1' <7.'=4.' ; .4@
< > / .6 =4.' - ,46 - ,45.0 ; , :7.< 1'?.<>'<7 71.47.' '46
<.'6.' 6.1 - 66.<7 >.' - ,71.'>.;1.7 ?,41 .@; 7.1' >#6
/ ,4 - . / .<76 >'<6 + <'7 ,<% (64 6 <5 / . 0.<7
4(.' + - (=4.' ; .' - (3.(,' / . / ./ - #$,< - .47 <,46
E' V.' .6?.1.1' <71'<= 55 7.8 <,46 E,4 - < 1'' 4<.' '1 / .'
?,41' '77'=4.1' , .77.'71'<=4 55 7.% , ; ' ; .'=4.'Q.'?1,M
?,6.'N + <'7 ,<'' 5.' >1, 7 / ?1.6;1 ?7 05.'>.'1. - , 1'
'' ; ,<67 747 ,<'=4'<> 5 54 ' ?5' 7I' EE5' 6 66. / 05. .'
<'7 ,<'5.'>.;5'1.'=4.'6,<% <7.1.75 < - 7. ''646?.<>1.'
1.@.1; ; .'>.' ; .'>1, 7 ?.<>'<7 71.<7.' '<6% & <' '? '
?5'4> 7%P
<'>. / '<>.'>'<6 7,47.6 .6 ?'17 .6 >.'5'' 6'55.' '
'55.1' '4@ - , @%
66. / 05. .' '>,?7.' ' 44'< / . '' 1.>' ;7 ,<'> ;'
% 1, < ; : .7%
[% #4 HK 'I .' ;01 5.' >, 7 ?1.<>1.' / ' <5. '
0'<7 ' ,1>1.6 641'5'' >.5 0.1'7 ,<' 57.1 .41.% - .;'
5.' >.?1.7 =4.' - ,46 - .<.0 >.' 1.<>1.8 - ,46 ?,4 - .b'
' - , 1'4<.' ; ,< - .<7 ,<' <'7 ,<'5.' '<<. .' ?1, ; : ' <.%
5 6 'J 7 / ' <7.<'<7 >.'>.5 0.1.1' 641' .6 =4.67 ,<6
64 - '<7.6I '' 1. - 6 ,<'?,41 ' 7 .55.'?,17.1'641'7,4M
7.6 .6 ?'17 .6 >.'5'' ; ,<67 747 ,<Z ,4' 0 .<'6.1' 7 .55;'
5 / 7. . '' ;5 ,4' 7.5 0Q.7Z ,46 ?'66.1,<6.<64 7.'
'4@ E,1 / .6 ?'1' 5.6=4.55.6 66. 4K ..' <'7 ,<'5.' '('
E.1'' ; ,< 'E 1.%

546 .416 / . / 01.6 E,<7> - .16.6 ?1,?,6 7 ,<6 64E
,1>1.'457.1 .41'>.'5'' >.5 0.1'7 ,<%
66. / 0 ..'<.'67'74.'1 .<%
'' 6. '< ; .'.67 7. - >.' '71, 6 : .41.6%

8 # #' ' # <7 5 1%

41'5.'1'??,17 >.'55% ! ,66 <8 5.'>. ;1.7 6< - < 7 .67
1.<>4I
W 66. / 05. ;' <'7 ,<'5.8 '?1.6 ' - , 1' .<7.< ' E''
1'??,17 >4' ; , / 7.'>.' ; ,<67 747 ,<8 >.;1.7.' ; .' =4'
64 7N
W .'#5>.' .'4'>.'5'' 1 - .1.'>.' . <.'8 E,1 / '<7 5 '
< 7..<71.'5.'>.?'17. / .<7 >.' '1 6 .7 ; .545>.' . <. '
.7 6.8 E,1 / .1'' '466 ' ; .55.'>.6 >.4@ ?'1, 66.6 .7
/ 4< ; ?'5 7. 6 >.' ' <7 #5,4>' .7 >.' K,45,J<.% <
; ,<6.=4.< ; .'7,46'5.6 7.11' <6 .7 / ' 6,<6 6 74. 6 .< '
>.; ''>.'5'' . <.'6.1,<7>.' '' / 4< ; ?'5 7.' .7 ?'1, 66.' $
>. K,45,J :#8 .7 ; .4@6 54 6 '4 >.5''>.'5'> 7.'1 - .1.8
>4' ;E57.>.' ' <7 #5,4>8 6.1,<7>.'5'' / 4< ; ?'5 7V .7
?'1, 66.'>.' ; .77.' - 555.% ' 68'75.<>4'=4.'5'' 1. ?'17 '
7 ,<'>. ' ; ,<71 047 ,<6 ?,41 (* ' .67 E' 7.' ;<51.' ; '
>.4@'>. ?'17. / .<768'5'' / 4< ; ?'5 5.'>.'K,45,J<.' - .1 '
6.1'' 8 ?,41' ; .77.' '<<7.'6.45. / .<78 >'<6 5'' ; ' 66.'>.'
; .55 .'>.' ' <7 #5,4>'8 5'' ?,17 ,<'>.' ; ,<71 047 ,<6 '
5'=4.55.' .6 7.11' <6 .7 / ' 6,<6 1.<< 6 2' K,45,J<.'
6.1,<7 / ?,6.6 641'5.6 1E55.6 >4> 7 K,45,J<.% $
% ! 066 / N .6 ?1, ;41.4 6 '<' J1'<>' ' '
.7.'64??1 / . 6 >.'E' 78 ' - '<7 7,465.6 '471.6 ! '
/ < 65.1 .568 ?'AI '0,5 7 ,<'>.6 ?1 V 5. J.68 ?'1' 5''
>.6714;7 ,<'>.'5'' E>,>'5 .8 ?'1' .@7 < ;7 ,<'>.6 / ' '
7 1.6 0.<.E ; '5;68 .7 5 < '' .5.'Q46=4 ; 8 ?1, ,< ;>'
'4;4< / ,>.'>.'1. / 0,416. / .<7 .7 > <>. / < 7V =4 '
?4 66.'5.6 ; , < ; .1<.1%
#.6 ,EE ; .168 - ,45'<7 71,4 - .1'5.<7 6,17 7.@7 .55. '
/ .<7 >;1 7 >'<6 5.' >.;1.7 >4' C ' >.;. / 01.' >.1< .18
6 1'5'' 5 =4 >'7 ,<'>.6 ,EE ; .6 / < 67V1 .568 E,1; ' . 7
5.'6.<6>.' '17% '' ''' >.' ; .'>.;1.78 =4 ' 6 #67 71,4 - >'
'??5 ; '05.' '4@ ' - , ; '76 '4@ ; ,<6. 56I .<' ; ,<6.=4.< ; .8
56 < ,<7 ; .66.'>.'6,55 ; 7.1'4<' / ,>.'>.'1. / 0,416; '
/ .<7 .7 > <>. / < 7.' .<'7,47 6. / 05'05.'' ; .54 '=4 '
6.1' 7 '>,?7.' ?64 1' ; .6 >.1< .16%
.6 ' - , ; '76 '4' ; ,<6. ' < ' - % .<7 ?'6>7.'6,4 / 6 '
1. - '54'7 ,<'?1.6;1 7.'?'1' .> 7 >.' ((8 .7 ; .67 6,46
; .'?, <7 >.' - 4.'=4 56 6.' 6.<7 71,4 - .6 ; , <?1 6 >'<6
'17% '' ''' >4' >.;1.7 >4' C ' >. ;. / 01.' >.1< .18 = 5
- .47=4.'5.6,EE ; .16 <,<'6,4 / 6 '' . - ' '7 , '6, . 7
1. / 0,416. '641' .'? .>'>.6 ; ,<71'76'> ' ; =4 6 7 ,<%
.6 ?1, .41.416 'V' J1'<>' ; ,<6. ' ,<7 .@?,6.' '' - ,M
71.' ; , / 7V =4.'5.416 '< ; .<6 ,EE ; .6 >.' ?1, ;41.41 '
.< ; .'71 04<'5', 7.7V'64??1 / .6?'14<' .> 7>.' (9)%
' ; .77.'V?,= .' 56 ,<7 .7 ; '?,41 - 46> ,E5 ; .6 > ' - , ; '76
'4@ ; ,<6. 568 >,<7 56 .7' .<7 .< ; ,1.' 7 745' 1.6 5,76
>.' .> 7 >.' ((8 =4 '' .@. / ?7.'5.6 ' - , ; '76 '4@ ; ,<M
6. 56>.' 1V - '54'7 ,<' ?1.6;1 7.' '4@ '471. ' ,EE ; .16%
<' ((U8 ,<' '' ;1. .'5.6 ,EE ; .6 >.' ?1, .41.416 '4
J1'<>' ; ,<6. 8 >,<7 56 - .<<.<7 > .71.' >.?,66V>V68
.78 ?'1' 4<.' >.;5'1'7 ,<' >.' ((8 5'' E <'< ; .' >.' ; .6
<,< - .'4@ ,EE ; .6 '' >7.'E @V.' '' 4<.'6, / / .'>.'U8 %8
=4 56 ,<7 ?'V..'?'1'5.' / ?5.'1'??,17 >.'5. 1'=4 7M
7'< ; .'>.'E <'< ; .'> ' - , ; '76 '4@ ; ,<6. 568 =4 ' % '>.'
?'1. 55.'6, / / .'>.'U8 ' %
'?1E.6 ; .6 E' 768 >,<7 ;@' ;7 74>.' '' .7>' - V1 E >.'
641' 5.6 5, A=4 56 1'??,17.<78 5.6 ?1, .41.416 '4
J1'<>' ; ,<6. '?1.7.<>.<7 =4 56 < ,<7 ?, <7 .7.'6,4M
/ 6 '' 1. - '54'7 ,<' 5,16 >.' .> 7 >.' ((8 ?4 6=4 '%
; .77.'V?,=4.' 56 .7' .<7 ' - , ; '76 '4@ ; ,<6. 568 .5 =4.'
; .4@ ; ' .<' ,<7 V V .@; .?7.6I 56 'Q,47.<7 =4 56 < ,<5
?4' V' 71.'6,4 / 6 ?,67.1 .41. / . 78 ?'1; .' =4 5 .5' 7
/ ?,66 05.'>.604 / .771.' '' . - '54'7 ,<'5.6,EE ; ;6 Q4 '
6#1' .<7 ;#>V6 ?,67.1 .41. / . 7 '' . > 7 7 .' ((8 ?4 6 '
=4 .<'5.6 .1>'<7 ,<'>. - ' 7 <. ; .66' 1. / .<7 .< E @.1'
5 E <'< ; .8 ; .'=4 ' 7'05 66' 7 <47 5 7.'>.'6, ; ' ;

3(.' ' .(0+ +,$ *' -(' ' *' ##$3(/ '' (*(*(*,' -3'3(")'(.0+,$ *"5 $ " * *,' + +$" (,-' ' ,$ $" + <(0+ +,$ */5 (' (.'-.,3','4+.'3 *'(5 (*,' . 9 (4+.' %+.,$3 (' ' -* -(3.(,- 'PB' --3( ).(-(.*$(./ + ''$)$(*'5 ('3($-("+0 3+,"+ 2'(*'($ '

,71.' ; , / 7.' < " ?4' - , 18' .<71.' ; .6' >.4@' .6?5; .6' > , EE ; .16 / < 67.1 .568' 5.'1'??,17'=4.'5.6'?1,;41.416' '4'J1'<>' ; ,<6. 5' ,<7 -' <. / .<7 7.<7.'> .7'0 1%

' '$*' $,' *' 4. (,' -(' -(3.(,'5 $/+0(3'5 (D' 5 (" -$#$3+,$ *'/(','+- 4,('+$*'$'5 $' ' $,;

7' 17%' S$ %' .6' ?1,;41.416' '4' J1'<>' ; ,<6. 5' 6.1,<7 1. / \' 0,416.6' >.'5.41' 5 71.' 641' 5.' ? .>' >.' 5" ' <'<;.' E @7.'?'1'5" >.;5'1'7 ,<>.' ((%

W & %' .'641?546' >4' ?1 @' >.'5.416' ; ,<71'568' ?1. .-. / .<7 E' 7'>.' 5" 6, / / .'>.7.1/ <#.'?'1' #.77.' >.;5'1'7 ,<8' 5.41' 6.1" ?'V ' ?'1' E,1/ .' > <>. / < .8' " .@;.?5 ,<' >4' ?1 @' 65 ?4 .' ?,41' 5.6' 1.;,4-1. / .<768' .7' 5" > ' 54;7 ,< >4' 6.?G 7 . / .8' ,16=4.'5.' ?1 @' >.6'1.;,4-1. / .<76' <.' 6.1" ?'66?>G ; E .%

%' .6' < .1.76'5.41'6.1,<7?'V.]'0' >'7.1' >4' T'Q4 55.7

BHT: .'

$,(' ' ' ' ' . ' 'G '

%' ,64 '6N' B .18' 641'5" ?1,?,6 7 ,<>.' %' #' / 468' '??4V. .' ?'1' %' '<>158' -,46' '-.0' ?1 6' 4<' ?'17' =4' " '01.J.'0.'4;,,?1,51.'>.5 0.1'7 ,<f'Q.'>. / '<>6'=4.8' ?,41' '01 .1' '4Q<41> :4 8' ,< 6.' ; ,<7.<76' >.' ?1,?,6.1' >.4@' ?1,Q.76' 71.6 6 / ?5.68' 4< 6?1'5" / '< 01.'>.' ; ,<<'751.' 5.' -,.4 <'7 ,<'5' 5,16=4 5' 6.1" .< 0-.41' > 4<.' #,<-.<7 ,< '7 ,<'5. ' '471.' 641'Q' ' / '< .1.'>.,,<-,=4.1' ; .6' #,<G V;777 ,<6%

%' 6 K?' N' .'1> 7 1.'> '0,1>5"> .>' '<>.'=4.'Q ' 'E' 7.' 5 .18' ?,41' =4.'7 ,<6' 5.6' / . / 01.6' =4' ,<7 >.6' ?5'<6' <,4G .'4@' " ?1,?,6.1' 6, .<7 64;;,66 -. / .<5' .<7.<>46%' ' ;.6' 5'46' 6.<7 0,<68' <,46' 5.6' '>,?7.1,<1f' / ' 6' =,'<>' / / .' 6<.6.1' .<7?'6' 0,<68' 56' ?,411,<7E' 1.'<'771.'>.6' ..6 k75.6%' .'?1 .' .<64 7.'5.6' ,?<' ,76' >.' ' ;,<-' <;1.' =4.8' 5.? 6' =4.' 66. / 05#.' " 1.Q.5 ' 5" ?1,?,6 7 ,< =4.'E.' 54' -' 6E' 7.'>.'E @.1' 4< 5.1 / .'?1,0 0 7 E' -'<75.=4.5' 5' <.?E 7 '6'V' '-, 1' >.' #,<-.<7 ,<8' 5' .67' ?546' =4.'Q' / ' 6' < ;.6' '1.'>.'?1.<>1.'>.6' ?1 ['47 ,,6' ?,41' =4.'5.6' #,<-.<7 ,<6' '7 ,<'5.6' <.'6, .<7?'6' 71,?'E'; 5.6' 0,07.< 1%

%' #', @N' " <'7 ,< < " > '471.' / ,V.<' >.' / '< E.67;1' '< -,.4 =4.' <6411.;7 ,<%

66. / 05.'>.; >.'=4.'7,46' ; .4@' >.' 6.6' / . / 01.6' =4' 41,<7 >.6' ?5'<6' <,4-.'4@' 0' ?1,?,6.1' 6.1,<7 .<7.<>46%

%' #', @N' , 'Q.'>. / '<>.' 0' ?1,<-.1' =4.'5" <'7 ,< " #Q0' <> =4>' 5.'6.45' / ,V.< ?,66 05.'>;' ; :'<J.1'6" ; ,<67 ' 47 ,<%

%' " '56 '< N' ,46' <'-.0'?'65"?'1,5.%

'3 'N' <'?.<7 >1?8' >'<64<' '471.'6.<68' >.6' #,<G .<7 ,<6' <'7 ,<'5.6' ; .'=4.' > 6' 7 4< ?, .7.' ; , / =4.'> 4< 546' ; .< N' <.' E4J4.' ,< / 46 =4.' .67 4<' / ,1;.'4' 0 .< :.1%' # .67 .< .5E.7 4<.'J1'<>.' / '@ / .' .< J,4-.1<. / .<7 k '.>.' > 1.' =4.'5.' 1, .4@' .67 6,4-.<7' ..<. / ' > " 74.<% 5,' ; ,<67:47 ,< .675' ;'? 745'7 ,<>4' ; ,1?6' 6, ; '5f 5' E' 47 '; ,<6 >>1.1' '-.;'4< .'6,17.'>.'1.5 J ,< .7'>.' 1.6?.;7f .78' 5,41' =4 ,< 6.'?,17.'0' 5" ; :'<J.18' 5' <.' E' 47 ?'6' =4' ,<V . / '1=4.'>.6' <; ,<10< .<76' =4.5; ,<=4.68' 5' E' 47 =4.' ; .6' <; ,<-0< ;<76' 6, .<7 - >. / / .<7 <7,5>1'05.6%' #.77.' -.170' S670 - >.<7.'?, ,1' ; .4@' =4 8' '<,468' ,<7 07>'7>/ , <6' 5.66.;,466.6' > ,<.' 15-,547 ,<%' 7 E' 47 >,<.'6,<J.1'6>1 .4' 5. / .<7 0' 107'05 1' 5" ?' @' ,701 ;41.f ; .4@' =4' ?.<6.<7 5471. / .<7 ,<76' <6' > ,47.'?1 6' =4.5=,.'5.E,<>.' " ' ; 7 8' =4' 5 7' =4.'5.6' -'41 .<' ' ;=4 01.<7 >.' 5" E,1; .' .7 <.'?.4-.<7 N<' ' ;=4>1 1' =4.'>'<6' 5.671,405.6' .75.6' 1.-,547 ,<6l%

.67 >'<6' ; .6' -4.6' =4.'Q ' ' 10> J0' 5.'?1,Q.7 >.' >0.1.7 54.'Q.' -' 6' -,46' 6,4 / .771.%' ,46' >.-.06.< 1' =4.'Q.'< ' ' \'6' #:.1;:0'0' '? '< 1' 5" -, ' ,' >.6' #,<-.<7 .<6' <'7 ,<'5.68' '0' 5' ; 5' 7.1' 5.6' '; .0 ' ?01 ,> =4;6' >.6' 5 0-1.6' 10-,547 / ' 5' 1.6%' ' ' ; :.1.00' '4' ; ,<71' 1.' 0' ,??,6.1' ,<.' 60J.'5.<G .41' '4@' >06 16' <=4 .76' >.'1 <<,-'7 ,<%

, ; ' / ,< ?1,Q.7>.'>0.1.7N

' ' '? 0< 74>.' >.'5' 6,4Q.1' <.50' >.5" <'7 ,< <.?.<7 71.' ;@.1;0.' =4 .<' ; ,<E,1 / 70' > 4<.' -,5,<70' <'7 ,<'5.' - >. / / .<7 1; ; ,<<<.' .7' 0J'5. / .<7 ; ,<67'70.%

7' ,,5' ; 7,V.<' ; 7 E' =4' ; 1, 1" =4 4<.' ?'15 .' =4.7; ,<=4' >.' 5" ; ,<67 747 ,< >, 7071.' 1.E,1 / 0.' '41" 5.' >1, 7'>.' >.' 1, ' ' >.1' =4 .55.'6, 7 1. -4.8' ?'1' 4<.'?07 ,< 6QJ<0.'>.' < .7'>.' ; .4@' =4' ?'17' <7' 6,< '- 6%' #.77.' ?07 7 ,4' 6.1" >0' ?,60.'0'5" / << ; ?'5 50' >4'5 .4' >.'6,<>, / ; 5.%' .; ,< 7 ; <>1" <> ; '7 ,< ?10# 6.' >.6,0Q.76' 641' 5.6=4.565' 10' f E,1 / .' 6.1" >. / '<>6%' .6' ,7K; .16' / 4 , >?' 4' 6.1,< 7.<46' >.' .<-,V.1' '< >0?'17. / .<7%

' '> / < 671'5 ,<>4' > 17. / .<7' ; ,<67'7.1"5.'<, / 01' >.6' 6 J<'5' 1.6f .7'>'<6' 5.' ;'6' ,0'5" ?07 7 ,< ,07 .<>1' 7' ' -,.4 >.'5" / 'Q,1 50' >.6; 7,V.<6' ; 5 E6' >4' >0?'17. / .'78' .55' 6.1" .<-,V0.'4' ; ,1?6' 5.J 65'7 E%

W ' >.6' ?07 7 ,<6' 6. / 05'05.6' '11 -.<7 >.' ?546' >.' =4" 1'<7..74<>0?'17. / .<768' 5.' ; ,1?6' 0J 65'7 E E.1" 5.'1.; .<% 6. / .<7>4' <, / 01.'>.6' ; 7,V.<6' ; 7 E6' =4 '5.6' '41 / 76' J<0.6'

'34'<7?'1'5.'1.; .<6. / .<7 ' '41" 070' ; ,<67'70' =4.' ' %' ?07 7 ,< .67 '??4V0.' ?'1' 5" / 'Q,1 50' '06,54.'>.6' ; 7,V. / ' ' ; 9'8$5.' ; ,1?6' 0J 65'7 E& @.1" ,0Q.7>.' ; .77.' ?07 7 ,<%

$' ' 1.<>1" .<64 7.' 4< >0.1.7 ?,17'<7 =4 5' 6.1" ?<05 ' >'<6' 7 ,7 5.'1,V'4 / 0' = .' 5.' ?.,?5.' E1'<E' 6" 0 / 66, ' ?1. / .1' -.4' ?,41' 5" 10E,1 / .' >.'5" ; ,<67 747 ,<8' &%' ,0Q0' >.' 5" 10E,1 / .'6.Z" 0<,<.0' >'<6' 5.' >0.1.78' 5.=4;56.< 6; .55; >4' 6; .'4' >.' 7'78' .7?<05 0' 6'<6' '-, 1'006, <>.'0' 6'<;7 ,< >4' 1, %' '

W' 8' ?.<>'<7' 5" 5 65'741.' 6, -'<7.8' 7' .67' >1.660' >W >0?'17. / .< 6' '4' ; ,1?6' 5 65'7 E' >.6' ?07 7 ,<6' 'V'<7 5' / 0 / .' ,0Q.78' .7' =4.'?'1' 7.'1.;.<6. / .<7 5' 6, 7' ; ,<67' ' =4 .55.6 6,<7 E' 7.6' ?'1' 5" / 'Q,1 70' >.6' ; 7,V.<6' ; 5 E68' ' %' ; ,1?6' 0J 65'7 ' 1.<>1" 4< >0.1.7 ?,17'<7 =4.'5.' ?.4?. ' E1'<.' 6' "0 / 66,< 6.; ,<>' -'<' 641'7.55.'10E,1 / .' <> =40.' ?'1' ' ; 7.'?10.0>.<7%

W' 8' ?.<>'<7' 5.' ; ,416' >0'5" 71, 6 0 / .'5.J 65'741.8' 5' .6' .<; ,1.' '>1.660' ?'1'5.6' >0?'17. / .<76' '4' ; ,1?6' 0J 65'7 E' >.' ?07 7 ,<6' 'V'<7c.' / 0 / .' ,0Q.7=4.'5.6?1. / 01.68' .7=418' ?' ' 5.'1.;.<6. / .<7 =4' .<' 6.1" E' 78' ' 6, 5' ; ,<67'50' =4.' ; .5' ?07 7 ,<66, .<7 6 J<0.6' ?'1'5" / 'Q,1 70' '06,54.'>.6' . 7,V. / ' ' ; 7 E68' 5.' ; ,1?6' 65'7 1'1.<>1" 4< > 1.7 ?,17'<7 =4 .8' ' ?.,?5.'E1'<.' 6' 'V'<7 0 / 6 ?,41'5"71, 6 0 / .'E, 66,< -,.48' 5' .]7 ,1>,<<0' '4@' '> / < 671'7 ,<6' >.' >0?'17. / .<76' >' E' 1.' ; ,<-,=4.1' >'<6' =4'1'<7.'Q,416' 5.6' '66. / 0 0.6' ?10' / ' 1.6' ?,41'<, / / .1' 5.6 64Q.76' =4 ' >.-1,<7 . , / ?,6.14 / ' '660 / 0 0.' >.'10- 6 ,< .0'1J0.'>.'1.-, 1' 5.6' ,0Q.76' 641' 5.6' =4.56' 5" 0E,1 0.' .67>. / '<>0 .%Y%'

'>,?7.'5.6' '17 ; 5.6' >,'?1,Q.7>.' ; , / 70' 641'5" ; , / ?,6 M 7 ,< .7 5.6' ?1,;0>06' >.' '66. / 050.'>.'10- <,<8' .7Q.'7.1' / <.' ?'1' 4<.' > 6?,6 7 ,< ?'17 ;45 01.' ?,17'<7 =4. W:' ; ,1?6' 0J 65'7 ' < 5.'1, '<.'?,,11,,7>.'5.41'?1,?1.' / ,4' -. / .<78' <' .<6. / 05.8' < '60?'10 / .<78' ,1>,<<.1'5" ; ,<-,' ; '7 ,<> ,<.'66. / 0.'>.'10- 6 ,<8' 6'<6' 5.' -.<4 .@?106' >.' ; 7,V.<6' 0J'5. / .<7 ; ,<67'50f / ' 6' =4 76' ?,411,<5' E' < >.6' ?1, ;5' / '7 ,<6' ?,41' <- 7.1' 5.6' >7,V.<6' 0' >. / '<>.' 4<.'66. / 0 0.'>.'10- 6 ,< ?, ,1'5"10E,1 / '7 ,< > 4<' '17 ;5.' =4.5; ,<=, .'>.'5" ; ,<67 747 ,<%' Y

%' #', @N' ,71.' ; , / 708' ' <6' =4.' ?546 .?16' / . / 01.' >.' ; .>.' 66. / 0 0.8' -,46' ,<7 ?106.470' >.6' >0.6' =4 55' .1?' .<7 =4.' -,46' >.-.0' '>,?7.1' ?,41' / .771.' 5" <'7 ,< 0 ?,170.' >.' 1.-, 1' 7 >.' ; ,11 J.1'5" ; ,<67 747 ,< =4.' -,4' '-.0' >0;1070.f' =4' <70' / , 8' Q.' ?.<6.'=4 ,< ?,411' 71.< >1.' ; .6' ?1. ; '47 ,<6' <47 5.6' 6 8' >06' ; ' / , / .<78' -,46' & <0J5 J.0' ?'6' 5.6' 1' ,V.<6' =4 .55. / 0 / .' -,46' " <> =40' ?,41'5" 1.<>1.'0,<<.' .7?,41' 07'05 1'5 5. / . , 7%

.67 641'5" 1' ' < 01.'> '77. <>1.'; .'0478' .76' 17,<7?,47 E' 1.' ; .66.1' 05'7 / ,<6714.4@' ,0'<,46' <,46' 71,4-,<6' ?' ' 5" 646?.<6 ,<>.6' E4<;7 ,<6' >.' '47,1 701,V'5.8' =4.'Q.'E5.' ?.1 / .771' '>.'-,46' ?1.6.<7.1' =4.5=4.6' 10 .@ ,< %

.G5.6' ?4 6.1' '>'<6' 5.6' 5 71.6' =4' / ,< 8' ' ,6' =4 0' -,468' >,<<0' 5.' >1, 7 >.' -,7.1' >'<6' ; .>.' 66. / 0 0.f' Q V' -,57' ?'17,47 =4.' ; 6' 5,76' E,<>' / .<7'5.6' =4 'V' 6,<7>. / '<>0.' <0'>, -.<7 ' ;=401 1' 5.' ; '1'.701.'=4' 5.6' 1.<>' ,05 J'7; >1.' =4.'5,16=4 .55.6' '<1,<70701.-07<.6' >; 5" 6'<;7 ,<>4' 1, ' #.4@=4' <,46' ; '1J.' ; 47>.'5.6' 1.?106.<7.1' / '< 5.6701.45' -<.'J1'<>.' ?14>.<; ' .7' ,<.' -,<70' >0>>0.' ' ; .7' '1>8' 56' 6.<7 1.<7' =4.'5.416' 1.?106.<7'<76' ? 4-' . 7 6 0J'1.18' .7 56' ; :.1;:01.<7 4<.' J'1'<7 .' =4' 5.6' '66,1 7=4.'5.<<' >1, 76' ?,5 7' = .6' .5' 5" 5 0.1 0<.' 6.17 <78?K6' ; , / c-, < 6' ?'1.<@%

#.>.' J'1'<7 .%' 6' 5" - 1.<7 >'<6' '47,1 70' 1,V'5.' .7 >'<6' 5.'1, ' =4' 5.6' '-' 5' ; ,<-,=406f 56' ,1>,<<01. / ' =4.' 5.65, 6 6.' 5 66.<5' '-..'6" ?'17 ; ?'7 ,<f .7' ; .67 641' ; .' >.1

E, 1ʻ /?, 5'<7=4.ʻQ ' ʻ-,4548 .< / ,<7'<5 ʻ;.57.ʻ71 04<.8
1' / .<.1ʻ?1 <; ?'5. / .<7 -,6 1.E5.@ ,<6 ;'1Q46=4 ʻ;.ʻQ,4 ʻ
,< "?197; >4 .<-.5,??.1ʻ ; .57.ʻ =4.67 ,< > 4< -, 5.ʻ 1.5 ʻ
J .4@=4 5 '47 .<E 4 >.;5 1.18 .7 5 .67 /?,66 05.ʻ =4 .<
5" > 6;<54<5 -,46 4.ʻ1.;?0<' 66 .0 5" ->1 7.ʻ >.ʻ ;.ʻ =4.ʻQ ' ʻ
;@?,6>% ʻ % F
$ '?176 ;.6 ?1 <; ?.68 5" ;,<> 7.ʻ=4.ʻ -,46 '-;0 ʻ5.< 1ʻ
?,41ʻ 1.;.-, 1ʻ.7 ; ,11 J.1ʻ -,71.ʻ ,4-1'J.ʻ /.ʻ?'1' 7 5,47.ʻ
1';..I .55.ʻ;,<6 67.ʻ 2 E' 1.ʻ?1.6.<7.1ʻ '4 1, ʻ -,71.ʻ 71'-' 5
?'1ʻ4<.ʻ>.?47'7 ,<8 .7 U?1,-,=4.1ʻ -,46 / ./ .6 5.6 ,06.1M
-'7 ,<6 =4.ʻ <5>1.7>4 ?.4?5.ʻ 4ʻ64JJ.1.1"%
.5 .;0 66.0 ʻ5"<.;.66 7>>.ʻ;.77.ʻ / .641.8 .7 -,V.0=4.8
6ʻ-,46<.5 '>,?7 .0?'68 -,46 -,4671,4-.1 .0 .< ,??,6 7 ,<
'-.;ʻ5.6 ,1>1.6 ?1>, 6 =4.A -,46 '-.01.?468 .7 ;:'1J.6 >.ʻ
1.EE1'Q'<5.ʻ1.6?,<6'0 5 5>>'-, 1ʻ67'54> 6.456 641ʻ5.ʻ6,17
> 4<.J1'<>.<'7 ,<8;,<71.5.ʻ-;.4=4 .55.'-' 7 / '< 1.65>%88
ʻ <>.5K'<>.ʻ7ʻJ1'<> ;1 6 ,1>1.ʻ>4 Q,41%
ʻ >ʻ, ʻ ' 0(.+$*(,-ʻ.('$-('-+*" +ʻ*+,$ */
G.7 3 ('ʻ2 ((/ (ʻ* *ʻ4+"+ ʻ. $/2 .+,$#(.ʻ5" 3 *ʻ,$, ,$ */
% #6 ,1EI E;%<.ʻ /.ʻ5 -1.1' ʻ ?'6 7 4<.ʻ ;1 7 =4.ʻ>.ʻ5"
;,<67 747 ,<I Q. / .ʻ64 6 ?.47 >71.ʻ .@?5 =4>ʻ71,?2 ; .7 .J'1>
?ʻ,1ʻ /.ʻE5'77.1ʻ> >51.>;,47> .<E.ʻ / , /.<7 ʻ-.; E' -.41I
'-ʻQ.ʻ /ʻ0,1<.1'ʻ ʻ>.ʻ/ '<>.1ʻ=4.5 .67;.54ʻ>.ʻ<,46=4ʻ
'E5 1' 7 55' / ?41 ?1,?1.ʻ>.ʻ;1, 1.ʻ ,4 >.ʻ 6,45.< 1ʻ =4 5 <.ʻ
6 .< .67Q' / ' 6 .;'17>>'<6 5.;,416 >.-,671'-'4@Z .> 1'ʻ
?546I =4.5 .67 ;.54ʻ=4 8 6 5 .<>7' 7 5.ʻ / ' 71.Q <.ʻ-,45557
ʻE' 1.ʻ=4.5=4.ʻ;E''<J. / .<7Z
ʻ -,46 E5'77.0 >,<.ʻ?'6 >.ʻ< '-, 1ʻ?' ʻ?4 7, / 0.1ʻ>'<6
>.6 .11.4160 .7 ?16=4 .55.6 ?.4-.<7 ;, / ?1, /.551.ʻ5.ʻ0,<ʻ
0.41ʻ>4<.ʻJ1'<>.ʻ<'7 ,<8 <.ʻ-,46 1.E46.0 ?'6 " ./ ?5,V.1ʻ
.6 / , .<6 =4 .55. / . /ʻ " <>=4>6 ?.41ʻ -,46 5.6 E' 1.ʻ
'?;1;.-, 1ʻ.7 -,46 / .771.ʻ" / . / ;>.ʻ5.61.?'1.1%
ʻ;<1 46 >,<.ʻ " ;ʻ=4.ʻ -,46 '>,?5 .0 5.ʻ?'17ʻ =4.Q.ʻ
-' 6 "-, 1ʻ ; ,<<.41ʻ>.ʻ-,46 ?1,?,6.1ʻ>'<6 4<?1,Q.7 1>6ʻ
;,4158 .7 =4.ʻQ.ʻ1.J'1>.ʻ;, / / .ʻ5.ʻ6.45 =4ʻ?4 66.ʻ1.<>1.ʻ
5.6 5, 6 ,05 J'7,51.6 ? ,41ʻ7,46%
17% 66. /05>.ʻ<'7 ,<'5.ʻ>>;1>5.ʻ=4 5 <V "?'6
5 .4 ">' 0E.1.1641ʻ5.6 > E5>1.<7.6 ?1,?,6 5 ,46=4ʻ 4ʻ ,47
>7"E' 7.6 ?,41ʻ1>J5.1ʻ5.ʻ / ,>.ʻ>.ʻE,1 / .1ʻ>.6 #, -.<5 ,<6
<'7 ,<'5.6I
% 34.ʻ >>6 . / ' <4<.ʻ>>?45'7 ,< 6.1" .0'1J>.ʻ>.ʻ
?1.6.<7.1ʻ'4 1,ʻ ;.7.ʻ;,<67 547 ,<<.5 1
% $ % 34.ʻ5.ʻ1, ʻ6.1ʻ"?15U%>.ʻ6.ʻ1.7 1.1ʻ>'<6 5.ʻ5 .4 =4 5
& ʻ) *2ʻ ʻ ʻ5 0.17>>.ʻ6"?.16,<<.ʻ .7>.ʻ6,4
@,<6. .1'.<7 I$
%%% 7a5 % 34 5 6.1".< ,471.ʻ?1 >>.ʻE' 1.ʻ?'1-.< 1ʻ " 6ʻ
. /05>.ʻ7.55.6 ,06.1-'7 ,<6 =4.ʻ6" 6'J.66.ʻ .7 5<7#1>7 >4
?.4?5.G?,411,<7 4ʻ> .7.18 ?,41ʻ =4 .55.ʻ ?4 66.ʻ.< >>5 ʻ
0>1.1%Y
% & 'N ! '1'<7 1ʻ '4 ?.4?5.ʻ6" ;,<67 747 ,<;.<71.ʻ
54 / U / .8 Q.ʻ -.4@ > 1.ʻ;,<51.ʻ;,ʻ?.<;:'<7 11>6 65 05.ʻ>.ʻ
5"<'741.ʻ 04 / ' <.ʻ=4ʻ5" ?,17.ʻ6'<6 ;.66.ʻ" ;.:'<J.1ʻ>.ʻ
?,6 7 ,< ?,41%'77. <>1.ʻ 4< / .4@ ;0 / >1 =4.I J'1'<7 1ʻ
'4 ?.4?5.ʻ6" ;,<67 747 ,< ;.<71.ʻ '57'=4.ʻ>.6 E';7 .4@8
;.<71.ʻ5.6 .<51.?1 6.6 >.6.6 >U5UJ4U6 ,4 >.ʻ6.6 1.?1>6.<ʻ
7'<76I .<E<>, 74.1ʻ" ;.ʻ?.4?5.ʻ6,4-.1' <5.ʻ / ,V.< >J'5
>.ʻ1.E,1 / .1ʻ>'<6 6.6 ?'17 .68 .7 / >/.ʻ;:'<J.1ʻ,< 7,7'555>
5" ;,<67 747 ,< =4 5"Q41 .8 7.5 .67;.ʻ /ʻ6. / 05.ʻ5.ʻ->1 7'G
05.ʻ,0Q.7 =4ʻ<,46 ;,;4?.%
.@ 67.ʻ>'<6 ;.7.ʻ / U / .ʻ.7 >'<%6 5.6 . E.56>.ʻ5" 1>E,1ʻ
/ '7 ,<?'17 . 5.ʻ,4>4 ,0'<J. / .<7 7,7'5>.ʻ5" ;,<67 747 ,<
,<.ʻ> EE.1.<;.ʻ6.<6 05.ʻ=4ʻ<.ʻ ?.47 >;:'??.1ʻ " ;.5 >4
>J 65'5.41% "1.E,1 / '7 ,<?'17 . 5.ʻ.67> '0,1>4< 0.6, <
?1.64 / '05.ʻ>'<6 7,47.ʻ;,<67 747 ,< I / '76 ?546 ?1, .0' <.ʻ
/ .<7 .<;,1.ʻ?,41ʻ4<.ʻ;,<67 747 ,< <,4-.55.% ʻ;.:'<J.ʻ
1, .<7 7,7'5 .67 4< 0.6, < ?546 > EE ; 5.ʻ2ʻ?1#-, 1I > 6,<6
/ .4@ 7ʻB .67 '4 >.6646 >.ʻ7,47.ʻ ?1U-,V'<;.% ;.7.ʻ>.ʻ
1.E,1 / .1ʻ?'17 .55. / .<7 5" ;,<67 747 ,< <.ʻ64??,6.ʻ?'6 <.ʻ
;.66' 1.ʻ . / ?5,ʻ>.ʻ7,47.ʻ5"6,4-.1' <.7.ʻ<'7 ,<'5.I ʻ;5.ʻ
>.ʻ;.:'<J.1ʻ.<5 .1. / .<7 5" ;,<67 547 ,<.@ J.8 '4 ;,<71' 1.8
5" ?5.< 74>.ʻ>.ʻ;.77.ʻ6,4-.1' <.7.% .@.;47 ,< > 4<.ʻ1.M
E,1 / .ʻ?'17 . 5.ʻ<.ʻ?1.6'J.ʻ '<;4< / ,41. / .<7 .@71' ,1> M
<' 1.I .55.ʻ?.47 6 .EE.;74.1ʻ6'<6 =4.ʻ5" ?' @6, 5ʻ71 ,40 ..I
.@,;47 ,< > 4<;5 '<J. / .<7 7,7'5 '<<,<;.8 '4 ;,<71' 1.8
4<.ʻJ1'<>.ʻ.E 6.ʻ?,5 7 =4.I >.ʻ--.6 'J 7'7 ,<6 ';.;, / ?'ʻ
J<.,5I .55.6 6406 67.<7 .<;,1.ʻ5,<J7. / ?6 '?1>6 =4 5 .67
.1.% !< 5" ?,66 0 5 7.ʻ>4<.ʻ 1.E,1 / '7 ,< ?'17 . 5.ʻ
,J<.ʻ5" <.;.66 .8 / ' 6 6417,475.ʻ>.6 1ʻ> 4<.0'<J. / .<7
7,5' %% " / ';:<.ʻ>4 J,4-.14. / .<7 ?,4-'<7 >71.ʻ ' <6

?;1E;; ,<<. .8 5'E';455>ʻ>.ʻ>. 14 1.ʻ1.67..< .7E.78 ;7;.ʻ
?.<>'<7 5.ʻ0.6, < > 46.1ʻ>.ʻ;.57.ʻ E';45 .ʻ< . 5.?546I ,<
;,< , 7 / . / .=4 ʻ?.47 < .@ 65.1Q' / ' 6% .ʻ>1, 7 > .EE.,
74.1ʻ4< .0'<J. / .<7 7,7'5 ' / > . '4ʻ;,<71' 1.8 '?17 654 8
5.ʻ0.6, < 7,4Q,416 1.<' 66'<7 >.6 1.E,1 / '7 ,<6 ?'1 .5 ;%6
.->.<;.ʻ> 4< 7,5ʻ;,<71'67.ʻ64JJ.1.ʻ<'541.55. / .<7 ;.77.ʻ
?1. / .1.ʻ=4.67 ,< I ;.ʻ?,4-, 1ʻ>.ʻ;:'<J.1ʻ5" ;,465 547 ,4
.6 5 %'06,54 / .<7 <6.?'1'05.ʻ>4 ?,4-, 1ʻ>.ʻ1.E,1 / .1ʻ5"
;,<67 747 ,<Z . 67 > 1.N 5,16=4 4<.ʻ1.E,1 / .ʻ?'17 . 5.ʻ>.ʻ
5" ;,<67 745 , ʻ.67>.6 1.ʻ?'15.ʻ?.4?5.8 E'47 5 ;.66'1.G
/ .<7 =4 '-.;ʻ5.ʻ?,4-, 1ʻ>.ʻ1.E,1 / .1ʻ 5 ;,<EE.ʻ:6.6 >;.ʻ
J4.6 5.ʻ7.11 05.ʻ?,4-, 1ʻ>.ʻ>.714 1.ʻ ʻ5.41ʻJ1.ʻZ
ʻ;:.1; ʻ.<-' <>'<6 5.6 ?1 <; ?.6 5" ;'46.ʻ.66.<7 .55.ʻ
>.ʻ;.77.ʻ <> - 6 0 5 7.8 .6 ?1 <; ?.6 <.ʻ5">. / ,<71.<'?'68
.7 Q.ʻ<.ʻ-,56 <455.ʻ?'17 =4.ʻ ,?< , " ;,<71' 1.ʻ6, 5 4<.ʻ
0.1.6 .ʻ?,5 7 =4.% .ʻ?.4?5.8 >.ʻ=4ʻ7 ,47 ?,4-, 1. / '<.8
> 671 04.ʻ=4'<> 5 -.47 .7 ;, / / .ʻ 5 4ʻ?5'7 .@.1;;.ʻ
5'6,4-.1' <.7.I 5 .<>. .J4.ʻ7.55.ʻ?'17 .8 .7 6.< 1.6.1-.ʻ
7.55.ʻ'471.% < .EE.78 >.ʻ / / .ʻ=4 5 1. / .7 '4 ;,1?6 5.J 65'G
5 E5" 6,4-.1' <.7.ʻ ?41. / .<7 5.J %65'5 -.8 >.ʻ / . / .ʻ5 ?.47
>,<<.1 ʻ > '471. %1.?1E..<5'<5%6 5" 6,4-.1' <.7.ʻ1.E,1< ' ʻ
1ʻ;ʻ>.ʻ5" ;,<67 747 0<8 6'<6 5.41ʻ>.?'17 1ʻ>.ʻ?5. <>1, 7 5"
6,4-.1' <.7.ʻ ;,<65 54'<7.% ">.5.J'7 ,<> 65 <;5.ʻ>.ʻ;.6
>.4@ ?'17 .6 >.5"6,4-.1' <.7.ʻ<'7 ,<'5.ʻ<.ʻ1U?4J<.ʻ>,<.ʻ
?'6 '4@ ?1 <; ?.68 ,4 ?547>7,< ' / .ʻ1.71,4-.1ʻ.<71.ʻ5.ʻ
;,1?6 1.E,1 / '7.41ʻ.7 5.ʻ; 6ʻ'<< : '7.41ʻ5" > EE.1.<;.ʻ
=4 ,< '?.1 , 7 .<71.ʻ ';7.ʻ>.ʻ1.E,1 / .1ʻ.7 ';7.ʻ>.ʻ>.M
14 1.% '6 <,< 6.45. / .<7 4<.ʻ7.55.ʻ> 67 <;7 ,< .67 ?,66 M
05.I .55.ʻ.67 ?1.66'<7.8 .55.ʻ .67 <> 6?.<6'05.% ʻ .< .EE.7 5.ʻ
?,4-, 1ʻ>.ʻ;:'<J.1ʻ5" ;,<67 747 ,< .67 <.;.66' / / .<7 4<ʻ
'4 ?,4-, 1ʻ>.ʻ5" 1.E,1 / .18 < .67 5?'6 .->.<71 02 .0'ʻ
=4.ʻ0.6, <> 4<.ʻ1.E,1 / .ʻ?'17 . 5.ʻ5"7,7'5 7.ʻ>.ʻ5"; ,<67 M
747 ,< .67 .< ?.15 Z <6 ?'1' 78 '4 ;,<71' 1.8 2ʻ?,4-, 1ʻ
>.ʻ1.E,1 / .1ʻ>'-.;ʻ5.ʻ?,4-, 1ʻ>.ʻ>.714 1.8 5 < .67 ?546
?.1 / 6>.ʻ;1' <>1.ʻ?,41ʻ5" ;,<67 747 ,<8 5" ?'71 ʻ< .67< .ʻ
<';U.ʻ> '4;4< 71,405.ʻ?'1ʻ5" ?1.6.<;.ʻ>4 ;,1?6 1.7,1ʻ
/ '7.41%
#.75.ʻ>. / '1;'7 ,< .67 >,<.ʻ47 5.ʻ .< 6,5 >'<6 5" 7006.ʻ
J.<.1'7.I / ' 6 >'<6 <,6 ;1;,<67'<;.6 ?'15 ;45 .1.6 .55.ʻ
.67 0 .< ?546 47 5.ʻ .<;,1.% ʻ .< .EE.75" ?1, .0' <.ʻ#,<-.<M
7 ,< <'7 ,<'5.8 ;ʻ=4.5=4.ʻ> 67'<;.ʻ>.ʻ<,46 =4 .55.ʻ6, 7
1'66. / 0 ..8 >.-' 7 '-, 1ʻ <.;.66' 1. / .<7 .7 >.ʻ?5. <>1, 7
;.54ʻ>.ʻ;:'<J.1ʻ5" ;,<67 747 ,< 5,47 .<5 01.8 <.ʻ6.1ʻ5 ;#
?'6 .<71.5.< 1ʻ> ;ʻ5ʻ7,47.6 5.6 .6?U1'<;6 >.ʻ<,6 ;
<. / 68 .75' 66.1'?106 <,46 >.6 J.1 / .6 E.;,<>6 >.ʻ71,405.ʻZ
;1' J<.0?'6 ;.?.<>'<7 =4.ʻQ.ʻ-,46 ?1,?,6.ʻ> .<;.:' <.1
5"-,5, ʻ<'7 ,<'5.ʻ>'46 '4;4< ;'68 <ʻ / . / .ʻ?,41ʻ5"
?1, .0' <.ʻ#,<-.<7 ,<I ; ʻ< .67 ?'6 5ʻ1, .< 6V65 1'.I ;'1
6ʻ .71,4-.ʻ>'<J.1.4@ =4.ʻ5.ʻ?1. / .1ʻ;,1?6 1#- 6.<1 6, 7
<.;.66' 1. / .<7 ;,<67 74'<78 Q.ʻ<.ʻ71,4-.1'ʻ?'6 ?546 6'J.ʻ
>.>.7.1 / 4.1ʻ>06 '4Q,41> ;4ʻ=4 5 6.1" ?41. / .<7 .E,1ʻ
/ '7.41% % % %ʻ $% %
" -.1 7'05.ʻ?14>.<;.ʻ .< ;.75.ʻ / '5 01.ʻ< .67 ?'6 >.ʻ
,45, 1ʻ?,41ʻ '-.<18 / ' 6 0 0<>.ʻ '66.1ʻ2 5" -,5,<7.ʻ
<'7 ,<'5.ʻE07<1.ʻ5" ?546 J1'<>.ʻ5'7 74>.% ʻ<.ʻ>. / '<>.ʻ
>,<.ʻ?'6 =4.ʻ -,46 <7.1?1.7 .0 ;.75.ʻ-,5,<.8 / ' 6 =4.ʻ
-,46 4ʻ>,<< .0 5.ʻ / ,V.<>. 6.ʻ>.;5'1.1ʻ.55. / . / .8 >.ʻ
6 .7.<>1.ʻ,4 >.ʻ6.ʻE.651. <>1.I .< 4< / ,78 Q.ʻ<.ʻ?1.7.<>6
?'6 .<5.-.1ʻ ʻ5" J.<.1'7 ,< ?1.6#<7.ʻ<ʻ'4@ J.<.1'7 ,<6
E4741.6 5.ʻ>1, 7>.ʻ;:'<J.1ʻ5" ;,<67 747 ,<7,47.<7 .1;8 Q.ʻ
;:.1;.ʻ ʻ5.41ʻ'6641.1ʻ;ʻ>1, 7 ,4 ?547 7 5.ʻ / ,V.< 5.J'5
> .< 46.1I / ' 6 Q.ʻ>. / '<>.ʻ =4.8 5.ʻ>1, 7>.ʻ;:'<J.1ʻ5"
;,<65 745 ,<7,47 .<7 01.ʻ<.ʻ6, 7 ?'6 .66.<7 . 5. / .<7 <.;.M
1.<7 '4>1, 7>.ʻ5" 1.E,1 / .1ʻ.<?'17 .I Q.ʻ>. / '<>.ʻ=4.ʻ5.ʻ
?.4?5.%<.ʻ6, 7 ?'6 E,1;.ʻ>.ʻ>0<<.1ʻ '6.6 1.?1.6.<7'< 6 5.ʻ
>1, 7>.ʻ>.714 1.8 5,16=4 5 <.ʻ-.4ʻ5.41ʻ>.?'17 18 5,16=4 ʻ
;,<-.<7 ʻ6,< < .1.7>.ʻ<.ʻ5.41ʻ>.?'17 1ʻ> '4 1.ʻ>1, 7
=4.ʻ;.54ʻ>.ʻ1.E,1 / .1% ʻ >. / '<>.ʻ .<E < =4.ʻ5.ʻ?.4?5.ʻ
6';0.ʻ;ʻ=4 5 >,<<.8 =4 5 / .641.ʻ6" >.5.J'7 ,<6.5,< 6"
-,5,<7.ʻ.7 6.6 0.6, <68 >. 7.55.ʻ6,17.ʻ.< 4< / ,7=4.ʻ6.6 1.W
?1.6.<7'<76 <.ʻ?4 66. , 7 .< '046.1%
#. < .67 ?'6 7,47 ,<;,1.I 5.ʻ;5 '<J. / .<7 7,7'5 ,4ʻ5.6 K
E,1 / .6 ?'17 .55.6 >.ʻ5" ;,<65 47 ,<>.?.<>'<7 4< =4.1, .<7
>.ʻE" -,5,<7.ʻ>,ʻ?.4?5.8 5 E'47 <,< 6.45. / .<7 =4 5 6';.ʻ;.
5.=4.5 >.ʻ;.6 >.4@ ?,4-, 16 5 >. 0J4.ʻ'6.6 1.?1.6.<7'<568
/ ' 6 >.ʻ?546 5 >, 7ʻ;,<<' 71.ʻ?441=4, ʻ 5 5.ʻ5.41ʻ>,<<.I
.7 >'<6 5.ʻ;'6 >.ʻ5"1.E,1 / '7 ʻ?'17 . 5.8 ;.67 ʻ4ʻ ʻ<ʻ
> =4.1ʻ ,0Q.7 ʻ1.E,1 / .1% "0,<<.ʻ6,547 ,<>4 ?1,060 / .ʻ
..4,4-.1'ʻ>,<.ʻ>'<6 5.ʻ?1,Q.7 4ʻ1. / ?5 1" E6ʻ;,,>5

64 1'<7.6N 5G<< / ,V;<>.1.E,1 / .1?'17 .55; <.<7P'' ; , ,67
745 ,< 6'<6 / .771.W ;.66' 1. /W<7 5'' 7,7'5 7V >. 5'' ; ,<67 54
,<.<? 1 IC 4< / , f \.< >;. ,<<' 1. 5'' - ,5 ,<5 >4 ?.4? ,
?,41 ; .4. 1 E,1 / ; S F '< , ,I.< 5 J'5 >, ;51'<J.1.<7 1.G
1, .<75' ; ,<6 47 ,<I Up 4< / ,V.< >. ; ,<<' 71. 7. - , .4 >4
?.4?5. ?,41 ;. .1WE,1 / .% 5 5.7 >, 7 71. 5. - 1 7'O5. 6.<6
>. 5'' < =4. <,46 ,O.1;O,<68 5 .< 1.6457. =< '4;4<.
.6? ;. >. ? 1>> ; 7 <. ?,411' 7 51. '> / 6.8 = ' '<;4<.
>?,&c4. ; .17' <. <. ?,411 7 71. > 7.1< , .% '' 1' 6,<
V'47 / .4@ =4. 5.6 ;5 '<; .6>. 5'' ?1, - 6 ,< ?4 >4 O'6'1>I
.55.<; > 7%?'6 >. E' 1. 7.55. ;O,6. .< 7.5 7. <<6 6 .55. .67
<47 5. ' 16W8 / ' 6 .55. > 7 >. 5'' E' 1. =4><> .< .67 O.
6, <I .55. > 7 6415,47 >. ; , ,1>,<<.1 6.6 , 6 O ,< < / .
6V67 < .\ .7 >. ; : .1; : .1 >'<6 5.6 , 6 > QO E'>.68 >'<6 5.6
?1 ; ?.6 >. '5? 6 > QO '>,?5 .68 5'' O'6. >. . .55.6 =4 6,<7
O%E' 1.8 >.6,17. =4. 7,478 >'<6 5'' / ' ; : <. ??5 =4 .8 6 .< 8
5' ; .8 6. & .< . .7 6. ; ,11.6?,<>. ?'1E' 7. / .<7% U .67 ?,41
7. ?.4?5. 4 5 ; ,<- .<7 >. 1 E,1 / .1 5'' ; ,<67 747 ,< ,< >.
5'' ; : '4J.E8 .7 ; .67 O 54 =4 5 '??Q17 . 7 >. >. ; >.1 6 5
7'47 5'' 1.E,1 / .1 ,4 5'' ; : '<J.18 .7 =4'<> Q5 E'47 5. E' 1.%
>,<. 5 .@ 67. 4< / ,V.< >. ; ,<<' 71. 5. - , .4 >4 ?.4?5. O
. .5 J'1>8 ; . / ,V.< >, 7 .71. '>,?7 ?1.E 1'O5. / .<7 O 7,47
'471. 6 67 / .% . 1'??.55. > 'O,1> ; 5'' > 67 <;7 ,< =4. Q.
,46 ' ?1,?,6>. .<71. 5. ; ,1?6 1.E,1 / '7.41 .7 5. ; ,1?6Q
?,41 ' <6 > 1.8 >.6714;5.41 >. 5'' ; ,<67 747 ,<I
.> 6 J<. 5. ?1. / .1 6,46 5. <, / >. G A
6. ; ,<> 6,46 5. <? / >. .7 Q. 5.6
>>E < 6 ' <6 I

G (.67 O66. / O5 .>.61.?1.6.<
7'456 'V'<7 5. >1, 7 >. 1. - , 1 .7 5. ?,4- , 1 >. 1.E,1 / .1 ?'1
>.6 ; : '<J. / .<568 64??1.66 ,<6 ,4 '>> 7 ,<68 4<. ,4 ?5,
6 .416 ?'15 .6 >.7.1 / < .6 >. 5'' ; ,<67 747 ,<%
% .67 '66. / O5. . >.6 1.?1>6.<7'<76
,V'<7 5. >1, 7 >. 1. - , 1 5'' ; ,<67 747 ,< >'<6 6,< .<6. / O5.8
>. ; : '<J.1 5'' > 671 O47 ,< >.6 ?,4- , 16 ?, 7 =4.68 .7 >.
;1. .1 4<. ; ,<67 747 ,< <,4- .55.% #.77. >.E < 7 ,< '> / 6.8
- ,V,<6 ; , / / .<7 5. ?.4?5. ,O7 .<>1'' 5. 1'66. / O5. / .<7 >.
4< ,4 '471. >. ; .6 ; ,1?68 6.5,< 6'% - ,5,<7. ' ;54. 5. .7
O .< >. ;1 / <. .% # .67 >'<6 5.6 ?1 <; ?.6 E,<>' / .<7'4@
>. <, 1. J,4- .1<. / .<7 =4. Q. >, 6 ; : .1; : .1 O 1.6,4>1.5''
=4.67 ,<% '' H1'<; . .67 4< J,4- .1<. / .<7 1.?1.6.<7'7 E
< < V; ,<<' 7 =4 4< 6.45 ; ,1?6 .66.<7 .55. / .<7>O5 O.1'<7
.7 >.6 ?.7 7 ,<<' 1.6 <> - >4.56% . ; ,1?6 5.J 65'7 7 >.
OO1.I 5.6 ; 7,V.<6 '>1.66.<7 >.6 ?.7 7 ,<6N 5. ; ,1?6 5.J 6 'G%
7 5 .@?1 / . 5'' - ,5,<7. J.<.1'7.I 5.6 ; 7,V.<6 < .@?1 / .<7
=4. >.6 - ,5?<7.6 ?'17 ;45 O1.6% ' ;7. >. 1'66. / O5.1 5''
#,<- .<7 ,< <'7 ,<'5. ,4 5. ; ,1?6 ; ,<67 74.<7 .67 4< ' ;7.
.66.<7 '5 >. 5'' - ,5,<7. J.<>1'5.% 1 5 < .@ 67. - .1 7'O5.G
/ .<7> ' ;7. >. 5'' - ,5,<7. J.<.1'5. =4. 5O ,O 'V '' .4 >.5 O.\
1'7 ,< >. 5,47.6 5.6 ?'15 .68 .7 5 <. ?.47V ' - , 1 >. >.5 O.M
1'7 ,< =4. 5O ,O 5'' 1.4< ,< .67 .EE. ;7 - .% <6 8 O / , <6 >.
>. 14 1. 7,<6 5.] ?1 <; ?. '>4 J,4- .1<. / .<7 1.?1.6;<5'5 E8
5 .67 . - >.<7 =4 '4; ,< ; ,1?6 '> / < 671'7 E8 '4;4<. ; ,55. ;G
5 ,< >. ; 7,V.<6 .?'16 <.?.4- .<7?'68 ?546 >'<6 ; . ; '6 ?'1
H ;45 .1 =4. >'<6 7,47 '471.8 .@?1 / .1 ; .77. - ,5,<57 #.77.
G6.1 . >. 1' 6,<<. / .<568 ?4 6O. >'<6 - , 1. ; ,<67 747 ,< .55.
/ O / .8 ; ,<>4 7 '' ; .55. >.1< 1. ; ,<6.=4.<; .N '' - ,5,<7.
J.<.1'5. 641 5. E' 7 >4 1'66. / O5. / .<7 > 4<. #,<- .<7 ,<
<'7 ,<'5. ,4 >4 ; ,1?6 ; ,<67 74.<7 <. ?. '7 .71. .@?1 / . .
=4. ?'1 5.6 1.?1.6.<7'<76 >4 ?.4?5.% '>,?7. ; .77. ; ,<6.M
=4.<; .8 .7 .55. >. - .<7 '' O'6.>4 ?5'< =4. Q. - ,46 ?1,?,6.
1' % #.?.<>'<7 5. ; ,1?6 5.J 65'7 E < .@?1 / . ?'6 7.57. / .<7
5'' - , , , . J.<.1'5. =4 5 6, 5 7,4Q,416 ?1.64 / . ' - , 1
.@' ;7. / .<7 ?1,<,<. . .% <66 8 >'<6 O ' ;7.6 >. 5.J 65'7 ,<8
.67 5 '11. . ?'1 5. 1W_, >4 1,5%
'' >. ;5'1'7 , >4 ; 1?6 >J 65'7 E ?'1 5'=4.55. Q. >.
/ 64>. 4<. #,<- .<7 ,< <'7 ,<'5. ,< 5'' ?1.6.<; . >4 ; ,1?6
. ,<65 74'<7 <. 6.1' 7 >,<. ?'6 64 E 6'< . ?,41 >,<<.1 5 .4
O 5,41 1'66. / O5. / .<7I 5 E'47 =4. ; .77. >. ;5'1'7 ,<8 . / 6.
'4 <, / >.5'' - , , , . J.4>1'5.8 1. .O - . .< .EE.7 5'' 6'<;7 ,<
>. ; .77. - ,5, 7.I 5 E'47 =4. - , .4 ?1,<,<; . ?'1 .6 1.M
?1.6.<7'<76 ?4 66. .71. '<<4 . ,4 ; ,<5 1 / .% '1 =4 5.
;1' 5 5 Z #. <. ?.<7 ?'6 .71. ?'1P. 1, $; '1 ; . ; .67 <
7 '7 - . > 4< ' ;7. >. ,4- .1' <. . <'7 ,<'5. =4 >, 7 1.5,41
<.1 O 6'' 6,41; .I 7 E,47 >,<. 1. ; ,41 1 '4 ?.4?5.8 .7 ; .
1. ; ,416 .67 E' ; 5. .< 1.67'<7 7,4Q,416 >'<6 5.6 ?1 <; ?.6%
?. ,?5. 6 .@?1 / .1'' >. 5'' 6.45. / '< O1. >,<7 5 ?4 66. 6 .@
?1 / .18 ?'1 >.<,4- . '4@1 - .6; ,7 ' 76 8 . .67 O > 1. ?'1 5''
6. ; ,<>. 5.J 65'741.I .<E < O' ' ; 7 ,56 7' . .7 O16=4.

; .6 71, 6 5.J 65'741.6 ; , :6. .<7 - .6 O<7 > / 6 . 4
< .@ 67'<7 ?546 '5,16 '4;4< >,47. =4. 5'' - ,5,<7. J.<>1'5.
<. >.6 1. 5'' ?1.6.<; . > 4<. #,<- .<7 ,< <'7 ,<'5. ,48 ; .55.
>4 ; ,1?6 . ,<65 74'<78 5 6 >, - .<7 .71. 1'66. / O7.68 .< .
; ,<<' P ,4 >4 / , <6Q. <. ?1>- , 6 =4. >.4@ ,OQ. ;7 ,<6
; ,< 1. ; . 6V67 / .I ; '18 < 'V'<7 .<; ,1. > . 6,45;<4%?'1
?.16 <<.8 5 4 '' ?'6 (,(; , / O'754% d F

<%> 1'' =4. 5. ; ,1?6 >J 65'7 E8 <'5J1. 5. - , .4 < -5
>, .5 >4 ?546 J1'<> < / O1. >.6 ; 7,V.<6 >. . / ? 1.8 ?.=7
<. >. / '<>.1 Q' / ' 6 5'' #,<- .<7 ,< <'7 ,<'5. < . ; ,1?6
. ,<65 74'<7% ; . ?1. / .1 '1J4 / .<78 Q. ?,411' 6 ,??,6.1
5.6 ?1 <; ?.6 7O>,1 =4.6 >4 J,4- .1<. / .<7 1.?1>6.<5'7 5Z
=4 <. ?.1 / .57.<7 ?'6 ; .77. 64??,6 7 ,<I / ' 6Q ' < . / .4@
1>?,<>1. ?'1 >.6 - >1 7>6 ?1'7 = .6 = . ?'1 >.6 'O651' ;
5 ,46% .47 ,< > 1. = . 5. ; ,1?6 >J 65'7 < 'V'<7 '4.<<
>J'1> O >.6 1. ;5' / '7 ,<6 - 'J4.68 ?'17 .57.6 ,< , ; '5.68
%6 'O67 .<>1'' >. >. / '<>.1 5'' #,<- ;=7 O=%<'7 ,<'5. ,4 5'I
?1.6.<; . >, ; ,1?6; ,<67 54'<5I Q. 5.?1, 6 >. / E. / .8 .7 ; .
6.1' 7 4<. J1'<>. E'47. >. ?1.<>1. >. 7655.6 ? ' / .416 ?,41
5.6 <> ; .6 >. ,? < ,< ?4O5 =<.% . ?.16,<6 Q' / ' 6 >.
-4. =4. 5. ; '?1 ; .8 1.<J=? . / .47 O ' 5 .<5O,46 '6 / . >54
Q,41 <. >, - .<7 ' - , 1 '4;4<. ?'17 '4@ 1.E,1 / .6 ,4 ' @
; : '<J. / .<56 >. 5'' ; ,467 7<7 ,<I 5 5'<5 >,6 / ,7 E6 1>.568
4< - , .4 ?1,<,<.>8 4<. ,? < ,< ? O5 =4. E,1 / >.% E. 1,6?6
5.J 65'5 E 1>6 67.1'' >,<. .7 >. -1'' 1>6 65.1 O 4< - ,O4 >J.1' 8
/ .<7 '17 ;45> ?'1 =4.5=4.6 6 J, '7' 1.6 1>?'<>46 ?O .7 5O
641 5'' 641E' ; . >. . / ? 1.I / ' 6 O 4< 7D4 1>.55. <.47 ?1,
8 <,<.>8 O 4< - , .4 7.5 =4 5 5. 7'47 ?,41 >.7.1 / <.1 4<.
/ .641. 6 / ??17'<7.8 .< 4< / ,58 O 4<. - >1 5'O5. ,? < ,<
?4O57=<.8 Q. 6,45 .<6 =< 7 < V 1>6 65.1'' Q' / ' 6% . < .<
>,<<.1'7 =4 4<. 6; '5. 1' 6,<V 6 Q. ;1,V' 6 =4 5 ?O7 .<
.@ 67.1 ,<. / ' 55.41.8 Q. 5'' ; : .1; : .1']%% '' 1' 6, 4< =4.
.67 =4 5 <. ?.47 V 1>6 67.1I .7 ?1.<.@ J'1>. =4.8 6 ,<
/ . < . ; .77. '6 17 ,<8 5. ?1, .>6 .67 E' 7 ?'1 5O / > / . '<
J,<- . / . / .<7 1.?1 <5'7 E% 34, - ,46 '> / .75.@ =4. 5.
. ,1?65.J 65'7 E ?1,<,<. . ; ,<E,1 / > / .<7 O 5'' - ,5,<7. J.<>
1'5. >'<6 5'' ; ,<E. ;7 ,< >.6 , 6I ; '1 .<E < 7,47 - ,71. 6V6
7> / . >. J,4- .1<. / .<7 .67 E,<>> 641 ; . E' 7I =4, - ,46
?1,6;1 - .O 46'J. >.6 ; ' : .16 .7 >.6 / '<>'768 ?'1; . =4.
6,46 '> / .77.O%>'<6 5.6 1,?1.6.<7'<6 5. >4< ,EE ; ' ; . >. 5''
- ,5,<7. J><>1'5.8 =4 <. ?.47 >71. .4; : ' <. . ?'1 >.6 - ,
5,47.6 ?'17 ;45 >1.6I .7 ; .?.<>'<7?1, 5O =4. - ,4O 64??,6.6
O ; .6 1.?1.6.45'<56 4<. '471. - ,5,< . =4. 5'' V,5> :7.J.<.
1'5.8 . .67 O > 1. 4<. 1.6 67'<; . E,1 / .55. O [- , ,<5.5
- ,71. 64??,6 7 ,< .67 E,<>>.8 =4.5 6V6 . / . ' - .O - ,4 > ;
'>,?7.8 .7 641 =4.55.6 O'6.6 1.?,6.1'' >>6,1 / ' 6 5'' 65'O 5 5
>. - ,71. J,4- .1<. / .<7Z

. ; ,1?6 5.J 65'7 E8 >\7 <8 6.1'' ; ,11, / ?4 ?'1 'J.<; .
.@. ;47 - . ?,41 . / ?>.O.1 5'' 1.E,1 / '7 ,< > 4< '17 ;5. <<
6 O . O <7.1>7 >4 ?.4?5.8 / ' 6 E. ; ,4> .< 'O'6 >'<6 5''
/ ' < >4 / < 671.% ,46 ?'15.O 7,4Q,416 >. ; ,114?7 ,< .7%
/ , '466 Q. 5'' 1.>,47.I ; '1 5'' ; ,<65 47 O< '' O .<>1 J> .<
/ '@ / . 5<- ,5'O 5 5. >.6 1.?1>6.<7'<768 / ' 6 .55. < .< ''
?'6 E' 7 <. >. 5.41 <; ,114?7 O 5 5>I .?.<>'<7 7,47 ; .5''
< .65 ?'6 5'' =4.67 ,<% . ?.4I 5. >.6 1#1' 7 58 ,4 , 4 <,<8
5'' 1>E,1 / .Z , 4 7 .67 5O8 .7Q. 6,47 .<6 =4. 8 6 5'' >>6 1.8
5 < V '' ?'6 >. 6V67> / . ; ,114?7.41 =4 ?4 66. . / ?>.O.1 5.
; ,1?6 5.J 65'7 7 >. 5'' >. / '<>.18 O / ? <6 =4. - ,46 <. 54
64??,6 .O O 54 / > / . < / ,V.< >. .O11, / ?1. O 6,< 7,41
'' 5,7'5 7. >.6 ; 7,V.<6 >. . / ? 1.% ,OQ. ;7 ,< / . ?1,4-4
>,<. 7,47 '4 ?546 =4. 5. ; ,1?6 >J 65'7 E ?,411' 7 >71. ; ,1
1O / ?4 ?'1 5. / < 6 >1. ?,41 <. ?'6 >. / '<>.1 5'' 1>E,1 / '
7 ,< > 4< '17 ;5. >,<7 54 6.45 '41' 7 '?.1,4 5.6 4; ,<- .
< .<768 ; >67 O > 1. =4 5 <. 6. >,<<.1' 7 ?'6 .< =4.5=4.
6,17. < 7 '7 - . .<- .16 5. ?.4? .8 .7 =4 5 < '??.55.1' 7 ?'6
6,< '77.<7 ,< 641 4< ,OQ.7% >.O'??> Q46=< '5,16 O 6.6 1.M
J'1>6% O O .<8 ; . ' / > / . .67 : .41.4@ ?,41 . ?1 <; ?.%
. ; ,1?6 >J 65'7 E <. >, 7 ?'6 ' - , 1 < 7 '7 - . .<- .16 .
?.4?5.I >, 7 < .@?1 / .1Q' / ' 6 =4. 5'' - ,5, ,7>>4 ?.4M
?5.8 .5 Q. 1>?>7.=4 .8 ; .77. - ,5,<7> 4<. E? 6 / '< E.67>.8 .%
; ,1?6 5.J 65'7 E 6 .@?1 / .1'' <>. .66' 1.1'.<7%% #.?.<>'<7I
'> / .77,<6 =4 .5. ; ,1?6 5. / 65'5 E ?4 66. 1>6 67.1 O ; . - / 'I
=4 .< 1>6457.1' 7 5 >. EO / .4@ Z 4< 6 / ?5. 1.7'1> >. >.4@
'<<>.6I ; '1 5. ?.4?5.8 <, / / '<7 O .<7>5 >.<,4- . '4@1.?1.
6.<7'<768 5.6 ; : , 6 7 5.56 =4 6 ?4 66.< .@?1 / .1 6'' - ,5,<5>
?1. ; 6. 641 ;> E' 7% 34. 6 8 '4 ; ,<71' 1.8 5.6 1.?1>6.<7'<768
?'1 <,4- .5 .EE.7 >. 5'' ; ,114?7 ,< >,<7 <,46 5.6 64??,
6,<6 7,4Q,416 <- .65 68 >. / '<>' .< 8 6'< ' - , 1 5. - , .4 >4I
?.4?5.8 4<. #,<- .<7 ,< <'7 ,<'5. >4 E' 1>6. , ; . > ' ; ,1JE

E <6755 <7 .: 4 . ;4-41.7 5Q4. c ;4 GQ 1.6> ;1 >; E>G
&0.4@Z " #, -.<7 ,< <'5 ,<'5. , " 5. ; ,1?6 ; ,<67 74 '<7
1, , 6 71. .< .#E.7 1'66. / 05 6 641 ; .77. >. / '<>.Z ? <.
E' 77 5?'6 '77.<>.. &&4. >.4@5.J 65'741.6 64; ;.66 -.6 . 7
?1,?,<.>>. 4 7 . / .<7 641 5. - .4 >. 5" ?1. / >1. S\
6 F E

; .6 > 6?,6 7 ,<6 64 -'<7.6 ,<7 > > >>.1>7>.6N
5G ,16=4. 71, 6 >J 65'741.6 ; ,<6>.47 -.6 '41,<7 > / 6
<<'1.64 4< E,<<. ?,41 5" 1. - 6 ,< >. =4.5=4.6 '17 ;5.6 ; ,<
67 545 ,<<.56 5V '41" 5 .4 " 5" 1>- 6 ,<%
CG " =4' a / . > 5'741. 6.1" ; : '1J>. > .@' / <.1
5.6 "17 ;5.6 >,<75.6 71, 65>J 65'741.6 ?1>.>>.<7.6 .7 ; ,<6>
.<7 1.6 '41,<7 >. / '<>>%5" 1>- 6 ,<%
G G .61, . / 01.6>. 5"71, 6 > 4. >J 65'741. <. ?,411,<7
>71. 1>>546 > 5" ?1, ; . ' <.%7
"6>'<; . ">7. 7.1 / <>. ?'1 5"5. ;741. >; ?546 .416 5.
71.66 4<.1 >.6; 7 ,V.<6 <>J, ; '<76 <'1;0'<>6 .7; '? G
7' <<'>.'<'- 1.6>. 5" - 55. >. K,1>. '4@=4 >. / '<>.<75.
1'?? 17 >4 >>;1.7 >4 7 1, ' 8 1.5' -. / . 5 '4@ ; ,5,< .66%
'<71.8 > " >1. ;5, 1. >4 >>?'17. / .<7 >. 5" ! 1,<>.8 =4
>><,<;. 4<. '66. / 0 >. <; , 67 74 , ,<.55. &.<4. > 5"
K,416. >. K,1>. '4@8 .7 =4 ?1>- .<7 66. / 05>. >.
6. 7.< 1 .< J'1>. ; ,<71. 5.6 ?>7 7 ,<> =4 ?,411' .<7 ;7
> <', .11
d . / < 671. >. 5" / '1 <. " .<- ,V> > 66. / 05>. 5"
; ,?5>> 4'. 5.771. >. %K5'<;0.5'<>.1 =4 74 1.<>; , / ? ,
>. 5" E.1 / .<7'7 ,< =4 " , ; '6 , ,<>. &7,<6 5.6 ; ,5,< .6 5"
<,4-.55. >4 >>;1.7 >4 / " %
\ ,<<.1,< " .<64 7. >,<<> ; ,<<' 66'<; . > 4<. 5.771.
?'15 ;45 >1. =, 5 " 1.=4. > 4< : '0 7'<7 >.6 ; ,5,< .6I .55.
? ,17. =4. ?546 .416 ?'1, 66.6 ; ,<6 >>1'05.6 ,<7 '>:>1> >
; . >>.1.0
% K.J,<.< " 0 7 5. ;741. >. >. ,@ 5.771.6I 4<.8 >.6
; 7,V.<68 '<<'7.416 .7 ; '? 7' <.6 >. <'- 1. >. 5" - 55. >4
B'-1.8 .7 '471. >.6 / '>. 5" #,<67 747 ,<% K5.6 6,55 G
; 7.<7 '01,J'7 ,<>. ; .<> / . >>.1,
66. / 0 >. " ,1>,<<> 5. 1.<-, >. 5,47.6 ..6 5.771.6
6,< ; , / 7> ; ,5,< 5%

- (2 ! 8
.6 > . ;7.416 6. 6.<7 1>4< 6 5. C9G>. ; . / , 6 6,<6 5"
?1>6 >.<; . >. >.V.< > E7J.%
.C(8 ,< " ?1, .>>> >5" <, / <'7 ,< >4 ?1>6 >.<58 .75"
/ 'Q,1 7>>.664EE1'J.66 .671>4< . .<E'-.41 >; B%
.6 6.;1.7' 1.6 6,<7 B% ! ,4< ,4 K1,466,<<.7 >7
K55. ; , ;=%
B% K. '4-' 68 6,< .7 ! '55. / ' 77 ,<7 >7> <, / / >6
6;1,7'7.416 J>,>1'4@8 .7 % a.16' <78 ! ' ;1', #,45,< .7
K1 66,78 6.1<7'7.416 64??5 '<76%
66. / 05>. " E' 7 ;0, @ >. % 1'457 ?, ,1 6,< / \
?1 / .41%
<. >.?47'7 ,< >. ?546 .416 , ; >7>6 ?'71 ,7 =4.6 >.
'1 6 " >7. <71,>4 7. >'<6 '66. / 05>.8 .7 " ?1>6.< > 4?.
>1.66. 6 J<>. <> - >4.55. / .<7 > 4< J1'<> <, / 01. >.
; 7,V.<68 ?'1 5'=4.55. 56 <- 7.<5 5. , ,1?6>5. ;7,1'5 E' 1.
>.'0, 56 ;0, @8 .7 > ?1.<>1. 5" >.E.<6. >. ?546 .416>5. ;G
7.416 ' ;74.55. / .<7 ,4 >>7.<468 ,< >. ;1>7>6 ?,41 1' 6,< >.
'>' 1. >, (Q4 55.7% + '66. / 05>. .67 ?'66>. > ,1>1.
>4 Q,41%
'<6 5" 6>'<; . >,) 8 %5. ?1.6 >.<7 " E' 7>,<<.1 5. ;M
741. > <<. 5.771. >. % ' ;1.7.55.8 ?'1 5'=4.55. 5 ,<,<; .
> '66. / 05>. =4 5 6. / .7 641 5.6 1'<J6 ?,41 5" ?1, ; . <.
5.J 65'741.% '66. / 05>. '??5'4> 7 > ?546 .416 1.?1 6.6 >
; .77. >. / '1; ; . E1'<; ; .% % ! 1,4-.55. .7 a.16' <7 >.
/ '<>.<7 <6.17 ,< '4 ?1, ;>6 -.10'5 .7 5" ?405 ; '7 ,< >.
; .77. 5.771.% 546 .416 / . / 01.6 >. / '<>.<7=4 5 6, 5 E,1< >
>.6 5 67.6 >. ; '4> > '76% + '66. / 05>. ?'66. > ,1>1. >4
5,41% 8 %
" >7> <, / / > -(" ; , / / 66' 1.6 ?,41 .@' / <.1 5.6
? . ; .6 6.1-'<7 >. 0'6. >4<. >><,<; '7 ,< 0 7. ; ,<71. 4<
>.6 / . / 01.6 >. '66. / 05>.%
<6 .67 .<64 7. , ; 4?> >. 5" - .1 E ; '7 ,<>.6 ?,4- , 16 .7
>.6 > EE ;457>1 > .->.6 > ; 640.7 5,16 >.6 >.1< >1.6 6>'<; .6%
546 .416 > . ;7.416 >>7.<46 ,4 >> ;1>7>6 ,<7 .<- ,V> ,<.
?.7 7 ,< ?'1 5'=4.55. 56 1>;5' / .<7 '??4 > ; , ;1?6 .5, ;7,M
1'5 '4?1>6 >. 66. / 05>. '<'7 ,<' , % ?1>6 4<. ,41E. > 6M
;466 ,<8 .7 641 5.6 ,06.1-'7 ,<6 >. K, ; ,4 55,<% ,< .67
??66> > ,1>1. >, Q,4 . 8

; 5 / <" " + . / ' < & ' <
71'J.> . 5V1 =4.8 64 - .>4 0'55.7 >4 8 ; &
>. ! '1>.58 >'<6 5.=4.5 % >.5,7 >>045.1" >'<6 5. J.'1I
6>1 .4@8 '4 >.1< .1 ' ;7.%
- < " J + 4Q% G 7 ; , / >>
.< ' ' ;7.68 64 - . >. ')@ (&
'6 - ' " % & .4Q% 5" G%1.?1.6.<7'7 ,< >. ;
(2 ,4 < ?1>; >>>. >.6
) - H = 68 4. >. ; : .5 .4% + 4Q% 5" C9G 1.
?1.6.<7'7 ,< >. G & ; , / >> . <,4-.55.
?1.. >>>. >4 8 ; , / >> . .< 4< ' ;7.%
<'77.<>'<7 G '71'J.> . >. %#:>< .1%
- H - " 8 ; >.-'<7 >. ,<6 ;4
+ 4Q% 5" G 1.?1.6.<7'7 ,< >. 2 ,?>1" E1' ="
.< ' ' ;7.6%
' / .> 5" UGG1.? >6%>. 8 0 F
.< '77.<>8 5" GG1.?1.6.<7'7 ,< >. ')
> '4 '5'
,V'5% + 4Q% 5'5 G' 1.?1.6.<7'7 ,< >4 - 9
0@ 8 ; , / >> . <,4-.55. .< " ;7.68 64 - .>4
; , / >> . E ' ;7.6%
" '< '5' 6 ,V'5% + 4Q% G
V / ? ; ,< .6 > B'V>< .7>. ,6.77 % + 55. ' ; , / 0 , ;0'
7.1" 4< ' 1 >. ' ; .0 < % + % .E>-1. .0'<7.1" 4< ' 1 >
8 .7 4<.'6.><. > 7V6%
- %+ < 3)
4Q% 1 9 ' - . ; >.4@ > - .17 66. / .<76I 5.6 44
7. '16I 8 1 ')9 ! 5 (
& .7 '55. / '<>. 0'71, 6I (1 G (
'?'<7, / / . >J1'<>.6 / ' ; : <.6I (& *
'- . ;>.4@> - .17 66. / .<76%8 $ % 8
. 5) " ' '< 0,45.-'1> >4 . / ?5.% + 4Q,41>
F & G 9 ?1>;>>> >. ')'
& 64 - >. G@ (, , $ &
,?>1" ; , / =4. '- . ; 6.6 'J1> / .476%
< '77.<>'<7 5" G1.?1.6.<7'7 ,< >. E" H,1.7 , 1.8 ,
$
- % ! " =4 % + 4Q% D b
2 ,< E" : ! 1 ?'1 5.
; ,46 < ' ;=4.6%
K> K K , 0<'8 14. ' <7 '15 <% + 4Q%5' GG
1.?1.6.<7'7 ,<>. ; ,E.7E8 ; , / >> .
540 . .< 4< ' ;7.8 ?1>;>>>. >. E" & $ 1
<& .7 >. %

<'77.<>'<7 5" GG 1.?1.6.<7'7 ,< >. H1'<; . & A

K> K K , , -, 6% + 4Q% ('< ! .7
($

/ 8))
%
@1. / .16 / , 6 U(* % + B% 5.6 ?'V.416 6,<7 "5"5.771. H%8
TG & & #)
/ 67.1>' / % % % % % % 7 #'> @%%%%%%%%%%%%% %%% * % 6%
B' / 0,41J % % % % % C 9 ! ><.6 UU 8
,<>1.6 % % % % % 6 - ,41<. % % % % % $ C9
'>1 > * % 6 V,<8 , % % % % % 6 ?
' ,7 %

;7 ,<6>.6 <>.6 >. C8 5 -% % % % % % % % % (8
,17 ,<6 >. 9 5 -%%%%%%%%%%%%%%%%%%%%%%%%%%%% %%% GUCC Q
/ ?14<7 > , .7,01. >. 5 -% U U
+ >. >>;% ()C8 =4 7 >. E < % % ^8 G EG UG UG * G G1
+ > .5C / 55 ,<68 >>;% () % % % % $ $ $ *
+ >.) / 55 ,<6 '-. ; 0455.7 <6%%%%%%%%%%%%% %%% $ GU
+ 6'<6 0455.7 <6% @\ -D
,17 ,68 ,< - 'J.1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
;7% <,4-% >.6 <>.6% % % % % UCC 8 CC8 C 8 CU8 C 8C)
66.> .6; / ?7. □8 8)8 (8)89
. / ; 66.%%%%%%%%%%%%%%%%%%%%%%% *CC8 C 8 C 8 C9
34 77I >.6 '1<>. '1 6% U 8
/ ?1 >.) / 55 ,<68 > ,E77 ()*% 7 % \% \1
66. ?'71 ,5 =<. %% %% % % % $
6641% ; 1.5.6 <;% % % 9 % 9 % 9 8 9*8 9(8 9)8 (8 *
T U'1 . % 8 % %%%%%%%%%%%%%%%%%%%W 8 (8 (U8 (8 (9%

[illegible]

[illegible]

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[illegible]

3

[illegible]

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[illegible]

3

[illegible]

5 K J

[illegible]

[illegible]

0 F $

[illegible]

?;47 971.'<.'6.1' 6 Q;'?'6'E,1' . / O'11'66 '7E.<' 1,<G'
-.1'>.' ?5'46 05;6' ?,41'1.7.4>1.'>'1'<7'J.'.<.;,1.I'
/ ' 6'8'6'<6' - ,46'E' 1.' ,06.1-.1' ;, / 0 .<'6.1' 7'E'7'5' "
5" ; : ,6.'?405 =4.'4<' / ,V.<'71,?'E'; 5.'> ,07;< 1'>.6'
#,<-.<7 ,<6'<'7 ,<' .6,4' ' '>4' ; ,1?6'; ,<'
67 74'<7'8' ' ' ' ' '1>?,<6.N' ,4' .'0.GG'
6, <'>.'1'66. / 05.1;;6' ;,1?6'6.1" 4<' 0.6, <'1..58' ,4'
5'<.' .'6.1" ?'6I6 75' .67' 1..58'5.' -..4'6.'6,47 .<>1"
?.<>'<7' ;.7' <7.1-'55.8' .7' / > / .' 0.'4; ,4?' .<;,1.'
?'1'>.5" I6 5'<.' .67' ?'6'8' .'-;.4'6.'>.714 1" ?'154 G'
< > <.8'.7;0';4<'6 '??5'4> 1">.'< '- , 1'?'6';7.641 '
?1 6' ?'1' '7. / ?6'% #.7' <7.1-'55.'>,<7' ,<' ' ?5' <7'
.67'>,<.'4<' / ,V.<'6E51>.'>.- , 1'7 ,47' " 5"1.E5.@ ,<8'
1 .<' " 5" 7J.1;7.I' .7';1,V.0'=4 5' .67'?546' .@?.> .<7'
'4'6'547'>.' 7'7'>.'> EE.1.1'>.6' 1>E,1 / .6'47 5.6' ='.'
>.'>,<<.1' 5.' ?,4-, 1' > .<' E' 1.' U' ; : '=4.' <67'<7'
> <47 5.6' .7'>.'E>; : .46.6%

,41'>. / ,<71.1'5.'>'<J.1'>.';.'1.7'1>8' 5'E'4>1' 7'
64??,6.1' =4 5' .@ 67.'>'<6' 5" ; ,<67 747 ,<' 4<' '17 ;5.'
=4.5; ,<=4.'>,<7'5''1.E,1 / '7 ,<'> EE.1. ' ?.<>'<7' ;.'
; ,417' <7.1-'55.'?>7'11>7.1'5.'Q.4'>.'5" / ' ; : <.'?,M
5 7 =4.'.7'01 6.1'7,46'5.6'1.66,176'>4' J,4-.1<. / .<7%
18'Q46=4 ' ;.'=4.' 5" -.1 7.'>.' ; .' E' 7' / ' 7'.5.'>.M
/ ,<71..8' Q.'64 6'E,<>>' "%6,47.<1'5.'E' 7' #,<71' 1.I'
6 ' ?,417'<7' ;.7' '17 ;5.' .@ 67.8' =4 ,<' 6.' : 7.'>.'5.'
>.<,<; .1I .78' 7'<> 6' =4 5' .<' .67' 7. / ?6' .<; ,1.8'
66. / 05>.<'7 ,<'5.' ; ,<67B4'<7.' .EE'; .1'>7'; ,>.'
; ,<67 747 ,<<.5' .1>>'?,41'5.'0,<:.4;'>.'5" J.<.1'M
7 ,<' ?1.6.<7.'.7'?,41'>,<<.1'5"?' @'4@'J.<.1'7 ,<6'
E4741.6%' 55',??,6 7 ,<' " ##''1J4 / .<76' 8' > ' 55.416'
6 E 6' / / .<7' 1.E47.68' ?'1; ,41,<6' 5.6' ?1 <; ?'4@'
'-'47'J.6'>4' ?5'<'=4.'Q.' -,46'?1,?,6.%

7D' <' > 67 <J4'<7' .' ?,4-, 1'>.'1.E,1 / .1'> '-.;'
5.'?,4-, 1'>.'>. 714 1.8'.<'>,?7'<74<' / ,V.<>.'>.'
5.J4.1'5.' ?1. / .1'6'<6'>.?'17 1' '471.' <.;.66' 1.'
/ .<78' -,46' . / ?>.:.0'=4.'5" ; ,<67 747 ,<' <.'6, 7' .<'
?.1 5' " ; : '=4.' 0.6, <' >.' 1. ,1 / .%' ,46' >,<<.b'5"
?,66 0 5 7.'>.'1.E,1 / .1I' -,46'66<1.0'466 5. / ,V.<'
>.'>.714 1.N' ;.?.<>'<7' -,46'<.'E,1;.0'?' '5.'?.4?5.'
>' ;4 / 45.1'7,4Q,416' ; .6>.4@'?,4-, 168' / ' 6'6.45. '
/ .<7'=4'<>' 5'54 ' ?5' 7%' K. / '1=4.0'6417,<7'>'<6' '
: .41.4@' .EE.76'145 5 7.'>.' ; .57.' > 67 <;7 ,<%' ,V.0'
; ,1' / .' '-.''5.'7. / ?6' -, 1.' ; ,<67 747 ,<' 6 ' / .5 ,1.'
6'<6' '4;4<' >'<J.1'?,41' .55. 1<E / .8' 6'<6' '4;4<'
71,405.'?,41'5" ; : ,6.'?405 =4.%' ,46'< '??.5.0?'68'
?,41' 5" ?.1E.;5 ,<<.18' 5" / 'Q.67. / ?,6'<7.8' / ' 6'
7.11 05.8'>4'?,4-, 1' ; ,<67 54'<7I'>.6 / ?5.6'#,<-.<M
7 ,<6'<'7 ,<'5.6'6,<7' ; : '1J>.6'>.' '6, <I'5.' ; '5 / .'
>.' 5" 1' 6,<' ?1. 6 >.' " 5.416'47 5.6'71' -'4@I' 5.6' ?'6M
6 ,<6' - -.6' 6 .<' .5, J<.<5I' ,<'?.47' >4' / , <6' ; ,<'
; .-, 1'; .57.' .6?.1'<; .' I' ; '1' 5' < .67'?'6' ; ' =4.67 ,<'
>.6.?'17'J.1'5.'?,4-, 1'6,4-.1' <%' >6'5,<J7. / ?6'
5.6' 5,76' ,<7'.7.'E' 56I' 5.6'E';7 .4@' < ,<7'?546'1 .<' '
?1.7.<>1.%I

CD' <Q. / .75'<5''4' ; , =Q6' >J 65'7 E'5.' >.-, 1'>.'
>.;5'1.1'5" -,5,<5.'>4'?.4?5.'8' -,46' ; .<6;1-.05"
?<1.7.'>.6'?1 <; ?.6'>4' J,4-.1<. / .<7' 1.?1.6.<7' '
7 EI' -,46'E'>.6'?'15.1'5.'?.4?5.'>.'5" 6.45.' / '<>1.'
>,<7' ' ?4 66.'6 .@?1 / .1%

D' <' ,05 J.'<7' .' ; ,1?6' >J 65'7 E' " >.7.1 / <.1'
,0Q.7'>.'5" . ,1 / .8' -,46' ,07.<.0'>.4@''-'<7'J.6'
.J'5. / .<7' ? . ; .4@N' > '0,1>' -,46'E'>.6'=4.%' ,? '
< ,<' ?405 =4.'6.' ;1..'.<' ; ,<<' 66'<; .'>.' ; '46.8' .7'
=4 / .'E, 6' / '< E.67>.'?,41'5" #,<-.<7 ,<' 5" - , '
5,<7.'J.<.1'5.'< .65' ?'6' .=4 - ,=4.I' .<'6.; ,<>'5 .48'
-,46' 0>1<.0' 5.6' >.-, 16' >.' 5" #,<-.<7 ,<8' .55.'<.'
?.<7' 5.6>>?'66.1%' #.' ; ' : .1'<'7 ,<'5' .67' >;1 7' 5,<J'
7. / ?6' '-'<7' =4.' 5" #,<-.<7 ,<' 6, 5' 1'66. / 05..%'
' ;7.'>.'5" ?1. / 01.'5.J 65'741.'>.- .<7' .<' .EE.5'5.'
; ' : .1'>.'5"<'7 ,<' .<7 .1.'I' 5' 64??5..' " / ?,66 0 '
5 7. >.' E' 1.'>.6' ; ' : .16' ?'17 ;45 .16%' 18'Q.6, > .<6'
J4 '4;4<' '471.' / ,>.'<.'?1, ;41.1"; .7' '-' :7'J.'1. '
77'1=4'05.%' #.'71,4-.1.0 1,468' ?'1' ;@. <?5.Y' >'<6

' ! B$ % , ! ' ($!& ' +'&% ,'$,'36+*3(' -+
: '6'1>Z' N

UD' <'6,4< .77'<7' 5.'-, .<'>.' 5" ?1. / 01.'5.J 65'M
741.''4' , '>.6'>.4@' 5.J 65'741.6' 64 V,'<7.68' -,46G
K<$M!O$ 2 %6 * "

!' / j j j j j j j j j ' j j j j j j j j j' j j j' 4.($$-.+$,!
- +) .- 4 . *('$*'4$.+,$ *' '* ,(' -(' +'.+$' *' ',
5*$ *(' ' *,'(*'(#('5 (' (4. - $,'< *' -($$.(' (46('
).(' " +44((U ('4(4 (' +' *(' .(.(%#' (2$ 7
(*#$*'0 " *(' (24 '(U'4+"+4(.-.(, ,'(*' *' .'
. +0(.(U! " 3(" +0+* +9(" -+*" -(".(, .'4G!'
.$ -$5 ('/ 3(.,+$*" '$*3(., $*"c
D' <'- **+*,'+ '3 .4" (9$' +,$#' (' -. $,' -3'4. D'
0 5 (.' ('$',(*3(' -(' +' *0(*,$ *' +,$ *+ (' ' +'
4$> *3(' -+'3 .4" 3 *',$, +*,' / 0 " .(4 3!6(U '
+ +$" -(' -(0(*$.' *' (,' + ,.(' -('3(" 4 0 $.' ' ;
$/' .<64 7;8' '4@'> 6?,6 7 ,<6' ?1 <; ?'5.6'>.' ; .'? , '
Q.7'> '471.6' ; ,<> 7 ,<6' ' ; ; ;66, 1.6'6.<7' .<; ,1.' 'Q, - '
7..68' 6' -,46'>.;5'1.6' <.5 J 05.6' "5"5.J 65'741.'64 G'
-',7.'5.6' / . / 01.6' >.' ; .55.6' =4 ' '41,<7'>> / '<>0'5"
#,<-.<7 ,<'<'7 ,1 '5.' ,4' 5.' ; ,1?6' ; ,<67 74'<7I' 6'.<'
E <8' ?,41' 4<.' .7' ?,41' '471.'>.' ; .6' >.4@' '66. / M
05 .68' -,46' ;1. .0' 4<' / ,>.'?'17 ;45 .1'>.'1.?1. 6.< '
5'7 ,<' <'7 ,<'5.8' -,46' .;'17.0' .J'5. / . 7' >4 -..4'
>.7 < 7 E'>.'5"71, 0 / .'5. J 65'741.'.7'5.6'64JJ.67 ,<6G'
>.' <71 J4.' .7' ,067 <'7 ,<' >.' ' / ,41 ?1, ?1.I'
-,46'E'>.6'6417,47=4 '4;4<.' 65'741.8'>'<6'7.55.'
; 1; ,<65'<; .'=4. ; .'6, 78' <.'?.47'7.<7.1' 4641?'7 ,<'
>4' ?,4-, 1' ; ,<67 74'<7%' , >'>,<.' '<'5V6.'.@';7.'
>.' / ,<'?1,Q.7%

.'> 67 <J4.'5.'?,4-, 1'>.'1.E,1 / .1'?'17 .55. / ;<7'
> '-.;' 5.' ?,4-, 1' >.' ; : '<J.1' 5" ; ,<67 747 ,<%' ;'
<, / / .'G ' '5.' ; ,1?6'1 E,1 / '7.41'
?'17 .5' ?,41' 4<' ,0Q.7' >.7.1 / <>8' ' ' ; ,<67SG'
_ ,<&' ; .54 ' 'V'<7'5.'?,4-, 1'>.' ; : '<J.1'5" ; ,<67 74M
7 ,<%' .'>,<<.''4' ; ,1?6'5.J 65'7 E'5.'>1, 7'>.'>. / '<'
>.18' '=4.5='.' .?,=7 .'= . ; .'6, 7'>.'6,<' .@.1.E..8'
5.' 1'%66. / 05. / .<7'>.' 5" #,<-.<7 ,<'<'7 ,<'5.' ,4' 5"
?1.6.<; .'>4' ; ,1?6' ; ,<67 74'<7I' Q. 5 ,K5 J.'>.'>>7.1 '
/ <.1'?41.< .<7' .7'6 / ?5. / .<7' ,0Q.7.7<,<' 5.6' / ,M
7 E6'>.'5"1>E,0 / .',4>4' .0'<J. / .<7%' .7'E,E 6'5.' '
>.6'>.4@' 5>J 65'741.6'64 -'<7.6' 641' ; .' - ; .4I'6' 4 ;'
>.' ; .6'5.J 65'741.6' / ?1,4-.' ; .' - ; .48'Q.' '<445.I'6 8'
'4' ; ,<71' 1.8' ; .6' >.4@' 7 65'741.6' '??1,4-.<7'5"
>. / '<>.' E' 7.' ?'1'5" ?1. / .1.8' '5,16'5" #,<-.<7 ,<'
<'7 ,<'5.' ,4'5.' ; ,1?6' ; ,<67 74'<7' >, -.<7'>71.'1'6 '
6.<105. 6%' ' ; .6' > 6?,6 51,<6' ?1 <; ?'5.6' Q 'Q, '7;N'
D=4.' 5.6' / . / 01.6' >.' 5" ?1. / 01.'5.J 65'741.' <;'
?.4-.<7' >71.' .546' ?,41'5"6. ; ,<>.' IFCD=4.' ; .57.'6. '
; ,<>.' 5.J 65'741.' 6.1" 7.<4.'>.' ?1, <, <; .1' 641' 5.'
-; .4'>.5" ?1. / .1.'>4' ; , / / .<.. .<7'>.'5"6. ; ,<>.'
6.66 ,<I' D=4.'5.6' / . / 01.6'>.' ..77.'5.J 65'741.8' 6 '
.55.' '??1 4-.'5.'-; .4'>.'5"?1. / 01.8' <7' <.5 J 05.6'
?0 1'5"71, 6 0 / .I' UD=< .<5 <' 5" 71, 6 0 / .' 0J56E, '
741.'6.1" 7.<4.'>.'?1,<,<; .18'> .65 ,4-.1741.'>.'6"
?1. / .1.'6.66 ,<8' 6641'5.'-; .4' 4< E?1 / .'>.]'>.4@'5.G'
J 65'741.6'?; ;0>.<7.6%

.' / ,7 E'>.'..77.'>.1< .1.'> 6?,6 7 ,<' .67'E'; 5.'
6' 6 1I' Q.' >. / '<>.' = .' 5" 71, 6 0 / .' 5.J 65'741.'8'
; : '1J0.'>.'?1,<,<; .1'>0#< 7 -. / .<78'6 .@?1 / 0'>.6'
,4-.1741.'>.' 5" 6.66 ,<8' ?'1; .'=4 .<E <' 5'E'45'4<'
7.1 / .''7,478'.7'=4.'> ' 55.416'5.' / , / .<7'>.'71'<; : .1'
4<.'=4.67 ,<'6,4 / 6.'>.?< 6'?546 .416''7 <0.6' "E, '
? < ,<'?405 =4.'.67' -.1 7'05. / .<5' ; .54 ' ,E7'>.6'Q4J.6'
'??,17.<7'>.'7,47.6'5.6'?'17 .6'>4'1,V'4 / .' .7'7' ; '
74.5'>.' ; .57.' ,? < ,<%' 3 4'<7 '<@''17 ;5.6'?10.0>.<768'
5.4H' ,0Q.7' 7' .<; ,1, ?546'E' ; 5. / .<7'?.1E4I' Q.8'<.'
/ ' ' .:;1' '?'6' "5.6'>.-.5,??.18'

+$*,(*+*,' ' .(',('+'(2+ $*(.3 (*,''(.+'# .$)'
(,' .+''( )$)(' +' *0(*,$ *' *+,$ *+ ('/ 3 (*,' ('
3 .4" 3 *',$, +*,' +' *0(*,$ *' *+,$ *+ (' (%,+*,'
-(',$*((' +' -(' '$ 4 (" .)# . ('/ $' *('4+.+$,'4+"5 ('
'+' $''$ ' 4 $''(' + +$" -$.(' - *(' ('- .-(;'A(

;1, 6 >,<.'=4 7 6.1' 7 <<7 5.'>.'7'' ; ,<67 74.1'6.?'G
1. / .<78 .7= 5'?.47 64EE 1.'> ,1>,<<.1' <.''>Q,<;'
7 ,7'''<'; ,1?6 >J 65'71E8=4'>.- .<>1' 7'5,1Y#?<-.<'
_ ,<'<'7 ,<'5.% #.' / ,>.'>- 7.' .@ 67.<;.'6 / 457'<>.'
>.'5'' # ,<-.<7 ,<'<'7 ,>'5.'.7'>'' ; ,1?6 >J 65'7 El .7
> ' 55. 16 S5 .<'1>6457.'=4.'5.' ; ,1?6 >J 65'7 E8 E,<>4
>'<6 5'' # ,<-.<7 ,<'<'7 ,<'5.8 = ' 6 ?1.66>'>.'1.>.G
-.< 1'54 / > / .8 6.' : 7.'>.' ; ,<6, / / .1'5.'71'-' 5'>.'
5'' # ,<-.<7 ,< .7'>.'5'' ; ,<J>> .1%

.'?1,?,6.1' 6 >,<.'=4.8 5'' 71, 6 . / .' >J 65'741.'
6 >7'<7 .@?5 =4>.'' ,4-.1741.'>.'6'' ?1. / .1.'6.6M
6 ,<8 ; .67 U > 1.'>'<6 5.' ; , 1'<7 >'' / , 6 >.' / ' 8
5.6 .5.;7.416 E4]6.<7 1'66. / O5>6 >'<6 5.' / , 6 64 '
-'<78 ?, ,1'>,405.1'5''1 1>6.<7'7 ,<'7.11 7,1 '5.8 >.'
/ '< >1.'=4.'5'' # ,<-.<7 ,<8 ?,17>.' '' <.4E ;.< =4''
71. - 4J7 >,40.'1.?1>6.<7'<768 EE77 .<7 .1. / .<7 1>4'
< .'5.' U Q4 55.7%

3 4'<7 ''5''E,1 / '7 ,< >4 ; ,1?6 ; ,<67 7<'<78 Q '4 '
1' 6 >>6 1> 4< / ,>.'?'17 ;45 .1 .7 .66.<7 .55. / ;<7
> 67 <;7I / ' 68 >'<6 7,47.' ,1J'< 6'7 ,<'O6,54 / .<7
,4-.55.7 .'1.71, -;'7,4Q,416 5.'>'<J.1'>.' .@ 6'
7.<;.'6 / 457'<..'>4 ; ,1?6 >J 6Q'7 E .7 >4 ; ,1?6% ; ,<'
67 74'<7I'>'<J.1'=<.' ,< < .- 7.1' 7 ?'6 / > / .8 ,4

P.'?547 7 ,<'JJ1'-.1' 78 .<'? ' '<7 ; .6 >.4@ ; ,1?6
<6 >.6 5 .<@ > -.16%

$.'6' 6 O .< =4.8 66. / O5>.' ; ,<67 74'<7.'1. / '
d ? '='<7 7,478 ,<'?.47 ,1>4<<.1'P''1.71' 5.%>.'5''5.'
65'741.''466 7>7=4 . .'?'1' 7I / ' 6 .< ,1>,<<'<7
#.77.'1.71' 7.'>.'5''5.J 65'741.8 '<>'<7 1.O -,46 >>N
E < 7 -. / .<7 6.6 ?,4-, 168 ,4 5.6 >>;5'1.1.O -,46
<< =4. / .<7646?.<>468 6'4E'' 5.6 1.?1.<>1.''<' / ,M
/ .<7 >.'5''> 66,547 ,< >4 ; ,1?6 # ,<67 7 '<7Z '<6 5.'
?1. / .1' ;'68 -,461.<>.O <>..66' 1.' .7 <> / .' <>- '
7'O .' ?.<>'<7 8>.4@ ' / >.6 5'' ?1.6.<;.' >4 ; ,1?6
; ,<67 74'<78 . .67 ' > 1.'=4.8 ?.<>'<7 >.4@ '<<..68
-,46 .<71.7.<.O E,1.> / .<7 '4 / 5 .4 >4 1,V'4 / .'
5.6 'J 7'7 ,<6 1>-,547 ,<<' 1.68 7'<> 6 =4.'5.' ; ,1?6
; ,<67 74'<78 1'66. / O5>8 5 .]7 -1' 8 '-.;'5.'>1, 7 >.'
.1>.1'4<.' ; ,<67 747 ,< <,4-.55.8 ?.47 <>'< / ,5<6 6#
YO,1<.1' ''4<'7.J. ' .: 1'J. / .<78 ,?>1.1 .<'?.4 >.'
/ , 68 .7'1.<>1.' O .<7>7 ?'1' 6'' > 66,547 ,<'5.' ;'5 / .'
=4.' 6'' ?1>6.<;.' '-' 5 O'<, .' >.' KE'7% 3 4.'6 ' '4
; ,<71' 1.'5.' ; ,1?6 >J 65'7 E .67 ?41. / .<7 646?.<>48
6'4E '' 1.?1.<>1.' 6.6 E,<;7 ,<6 '?1.6 5''1.71' 7.'>4
; ,1?6 ; ,<67 74'<78 -,46 1.7, / O.O ; '>'<6 5.'>'<J.1'
>.' .@ 67.<;.'6 / 457'<>.'>.6 >.4@ ; ,1?6% <.'646M
?.<6 ,< '?,4-, 16 <G.67 J7 >1.''47 ' ; : ,6.'=4 4<.'
E ;7 ,< >.'5, 8 .7'>'<6 7.55.' ; 1; , 67'<;.'>,4<.' .6'
?1 7 >.'?'17'6'41' 7 O .< 6 .<'?1>-'5, 1% .'< .<'?'
?.55.641' ; .5'' =4 '' -,46 / > / .6I .< > 5E.1'<58 5 V ''
?.4 >.' / , 68 1.5.;7 ,< >.' <,6 64; ; ;66.4168 '- .O'
,46 > '471.6 / ,7 E6 =4.'5'' ;1' <7.'>.' ; .'>'<J.1Z 4
641?5468 . / O'11'6 >.' 5'' ?1>6.<;.' >.6 >.4@ ; ,1?6
< .67 ?'6 4<.'> E ;457> ?'17 ;45 .1.' '4 ?5'< =4.'Q.'
-,46 ?1,?,6.8 .5c.'6.'1.71,4-.'>'<6 7,<6 5.6 6V67>'
8 / .6% .'?546 6E51 / ,V.<'>.'?'1.1' '' ; .7 <; ,<-.>< .<7
67 >,<.' .<; ,1.'5''E46 ,< >4 ; ,1?6 >J 65'7 E>'<6 5.'
; ,1?6 ; ,<67 74'<7% .6 / > / .6 ''-'<7'J.6 = .E.-,46
''E' 7 1. / '1==.1'>'<6 ; .' / ,>.8 '' '1>'>.6 # ,<M
-.<7 ,<6 <'71,<'5.68 6.' 1'??,17.<7 >J'5. / .<7 '4
; ,1?6 ; ,<67 74'<7% %

8 ' ,OQ.;7;1''?.47 >71.'=4.8 5.6 / . / O1.6 >4 ; ,1?6
>J 65'7 E8 5,16>.5.41>5.;7 ,<8 < 'V'<7 ?'6 . 7> < '
-.67 6 >4 ?,4-, 1 ; ,<67 74'<78 c6 .'?.4-.<7E' 1.'
?'17 .'<'>.'5'' # ,<-.<7 ,< <'7 ,<'5.8 <' >< ; ,1?6
; ,<67 74'<7% .' ; ,<- .<6 =<.' ,OQ.;7 ,<6.1' 7 E,17.8
'?5 =4>.''7,47 '471.'?5'< =4.' ; .54 '?1,?,6.I 5 6.M
1' 7 'O641>.8 ?'1'.@. / ?5.8 =4.8 5.'O'6'1>' ' / .<'<7
1>?,=4.> 4<.'# ,<-.<7 ,<8 5.' ; ,1?6 5 65'7 E '5,16
;@ 67'<7 V EE 7 '> / E6 >.'?5. <'>1, 7I / ' 6 ; '1 .<'>.'
6; / O5'O5.8 ;'1'5.6 / . / O1.6 >.'5'' 71, 6 . / .'5.J 65''
1.''V'<7 >7> .<-,V>6 ?,41' ?1,<,<;.1'>>E / 7 -.'
/ .<7 641'5.'-,.4 >.6 >.4@?1>;>>.<7.6I .7> ' 55.416
5'' 5, ' ;=<67 747 ,<<.55.'>7'<7 ' <6' ; ,<;4.8 5 .67 ; .1M

7' < = 56 ,<7 >7> .<-,V>6 ?,41' .@' / <.1' 6' <<.'
,<-.<7 ,<'<'7 ,<'5.' ,4 5.' ; ,1?6 ; ,<67 74'<7 ;7' .<7
<>..66' 1.6 .' 66. / O5..8 ?,41'5.Q4J.1>; E 7 -.'
/ .<7I 5 .67 ; .17' <'466'=4 4<.'7.55.' / 66 ,< ; ,<'
7 .<7 >.Q'' .<J1'<>.' ?'17 .'5.'?,4-, 1' ; ,<67 74'<78
/ ' 6 <; ,<7.67'O5. / .<7 ; . <'>.'5.'>.-><1% .' / '1G
1>7.'>,<.''' ; .77.' > . . I .7 '4'5 .4 > 5 <'1'66; / O5.< .<7
?'17 ;45 .1'>4 ; ,1?6 ; ,<67 74'<78 '4'5 .4 > '<.<<7 18
' ?547 7 >.'7 > .1'>'<.'<7 1'>.-'<5 54 ' 5.' ; ,1?6
>J 65'7 E8 Q.' ?1,?,6.8 ; , / / .' ''1.J'1>'>; 6 # ,<-.<M
7 ,<68 =4.8 5'' 71, 6 . / .'5.J 65'741.'6 >7'<7 .@?5 =4..%
'4 ; , / / .<; . / .<7 >.'6'' ?1. / .1.'6.66 ,<8 . .67 ''
> 1.'>'<6 5.' ; ,41'<7 >4 / , 6 >.' / ' 8 5.6 >5.;7. 16
6, .<7 1'66. / O5>6 >'<6 5.' / , 6 64 -'<78 ?,41'>,4M
O5.1'5'' 1.?1>6.<7'5 4< '77' ; : . .''5'' ; ,<71 O47 ,< > '
1.;7.' .7 '' 5''?,?45'7 ,<8 >;' / '< >1.'=4.' 5.' ; ,1?6
; ,<67 74'<78 ; , / ?46>'>;'5''5.J 65'741.' .7 >.6 / . / M
O1.6''>> 7 ,<<.568 .<'7,47>.'>,40.' ; .<7 =4'1'<7.'
71, 6 1.?1. 6.<7'<768 6, .<7 1; 4< 6 5.' 'Q4 55.7%

.5 .678 >'<66 ,< .<6. / O5.' .7>'<6 6.6 >.7' 568 5.'
?5'< =4.'Q.'-,46 ?1,?,6.I / ' 6 '-'<7 =4.'Q.'?1.6.<7.'
6'' 1.>' ;7 ,< .< ' . .1.78 -.4 55.O ,O6.1-.1' ; , / / .'Q.'
' ; ; ,1>.' '-.;' -,6 ?1 <; ?.68 ; , / / .' 5 7<' <5 . 7
14< 7.'>4 6V67> / .'1.?1>6.<7'7 E 6'<6 / .5'<J.'> '4'
;4< '471.7,47 V .67 >.7.1 / <>?'1' 5'' -,5,<7.' ; '
74.55.' .7 ?1>; 6.'>4 ?.4?5.8 1 .<'?'1' 5.' ; '?1 ; .' ,4
?'1'>.6 ; , / O <' 6,<6 -'J4.6 .7 ?4.1 5.68.7 ?,41'
7'<7 1 .< < .67 E' 7 ?'1'5.'?.4?5.8 / ' 6 7,47 ?'1 6.6
1.?1>6.<7'<76% '-.< 1 <.'-,46 '??'17 .<7 ?'6I 4<
Q,41'?.47 >71.' 5 ; :'<J.1''-,6 5, 68 / ' 6 >4 / , <6
Q46=4 '5,16 .55.6 6.1, 7 44 E,1 / .6 .7 ; ,11.6?,<>'<'
7.6 .<71..55.6I 5.' / ,V.< / > / .'>.'5.6 >. 714 1.' ?,1'
7.1'' . / ?1. <7.>.'5.41;1>'7 ,<8'77;67.1''5.?1 <; ?.'
> ,4 .55.6>.1 -.<58 .7'5. ;'1';7.1.'=4.'-,46 .41'4 '
1.O >,<<>% ' 6 1. / '1=4.O '466 ; , / / .8 .< >.>' '
J<'<7 5.6 E1, >6 ;'5;456 >4 :'6'1>' ?,41 6,4 / .751.'
7,45.6 ; : ,6.6'4 1' 6,<<. <;<78 5.' ;J 67'7.41'> 6?,6.'
''6,<J1> 5. '.?,=4.6?,41 6. / ;1'O '-;< 1''47, 1'>.'
6.6 <67 747 ,<6 >.6 J.1 / .6 E.; ,<>6 >.'?'71 ,7 6 / .%

#1,V.O -,468 ?'1 ;@. / ?5.8 =4.' ; .'6, 5 4<.' ; : ,6.'
> EE.1. 5.'=4.'5.'Q,41 >4 1'66. / O5. / .<7 >.6 # ,<M
-.<7 ,<6 <'7 ,<'5.6 ,4 >4 ; ,1?6 ; ,<67 74'<7Z .'>.'
/ '<>.'=4.' ; .'Q,41 6, 77 @> '4 U Q4 55.78 '<< -.1'
6' 1.'>.'5'' 1>-,547 ,<I .78 >'<6 5.'?1,Q.7 =4.'Q.'-,46
?1,?,6.8 ; .77.' >?,=4.' 6. ?1;6.<5.' <'741.55. / . 7
6'<6 <7.1-.17 1 ,4 1.7'1>.1 .< 1 .< 5'' / '1; : .'>;6
,? '7 ,<6% >>' J<.1' ; .'J.<1.'>.' ; ,<6 >.1'7 ,<68
E47 5.6 .<'??'1.<;.8 / ' 6 1>.55.6 >'<6 5.416 . E.768
; .'6.1' 7 ; ,B 1' 71;' / '7 5.6 O, / / .6I >,<<.O 5.41'>;

(.'+'('' 4. 4.('' 8(27 $' '(-$# 3 (*$(,'(' (*D
#$.'A $! - (
'Q' ' 6 5'' H1'<; .'?,4-' 7 >.-.< 1' 5'' ?1, .'>4
>.6?,7 6 / .8 6'Q' / ' 6 4<.'6.; ,<>.'6>'<; .1,V'5.'.7' 7
,6. .8 ;1,V;O =4.' 5.' U Q4 55.7 <.' 6.1' 7 ?'6 ; : , 6'
?,41' .@>;47.1' 6.6 >.7.67'O ;6 ; , / ?Q,76% .' O .<8
1'66; / O5.O-,6 1.?1.6.<7'<76 5.' U Q4 55.7I ;41?1.M
/ .1.'?.<6..' .67 4< J1'<>'6,4-.< 1I 5.41'?1. / .1.'
?'1,5.8 4< 6.1 / .<7 ''5''5 O.17>%

3D *'4. (,' -(' -(%(.(,7 .'%(',' .--$9-' -('$*+!'
*$(.('$' -,.('4 +3-%+' +' $,(-(' +3,('3 *',$,$ **('
5 ('O ''+O(U -(3. ,

57 ' %
' ' ' ''O ') '
' (&
B ' 3 %
' ' ! ' ' ' ' 2 & ' ' ' I
) ' F%
% %& ' ' ' & ' ' ' ' & '
W ''<'7 ,<8 .< =4 ,45.'6,4-.1' <;5 '1.6 >.8 '5.?,4%

7, S1'>.'1 E,1 / .7 > ;><65 5'77,< >W]'6;]'?'17 .>7 .7 ;>4'
>.'5" .: '<J.1'>'<6 6,< .<6. / 05.%
;16=4 5 54 '?5' 7 > .@.1;.1 7 4< ,4 ' 7.'>.' ;.6
?,4E, 16 .55.'5.'>>50J4.'7
W .'?1. / .18 0 4<.'#,<-.<7 ,< <'7 ,4'5.7
& .'6.;,<>8 U'<';,1?6 ;,<67 74'<#

.<, 5 %

'G

T ' " #,<-.<7 ,< <'7 ,<'5.' .67 '6]. / 05U.'>.6 1.?1>G
6;<7'< 6 'V'<7 5.'>1, 7 >.'1.-, 1 .7 5.'?,4-, 1 >.'1.E,1 / .1
?'1 >.6 ;0'<J. / .<76 64??1.66 ,<6 ,<'>> 7 ,<61 ,<.' ,4
?5467.416 ?'17 .6 >.7.1 / <>.6 >.'5" ;,<67 747 ,<%
55.'<.?.47 >71.'??.5>.'?,41 7,4> .1 '<@ 0'6.6 E,7G
>' / .<7'5.6 >.'5" ;,<67 747 ,<8 <'?,41 ;.'<J.1 5">671 M
047 ,<>.6 ?,41, 16 ?405 ;6%
5.6.';, / ?,6.'>.'5" 1.?1.6.<7'7 ,< '4 ;,1?6 >J 65''
E"5,16 .< .@.1; ;.8 .7 >''>,405. / .<7 >.'5" 1 1>6.<7''
,< 7.11 5,1 '5.8 .< 6,17.' =4 .55.' .67?,17>.' .<7,7'5 7.'0
<.4E ;.<7 =4'71. - <J7 > @ / . / 01.6

+ '5 57'

((

0 7.';,1?6 ., <67 74'<7 .67 66. / 05>.'>.6 5.?1> .<7'<56
'V'<7 5.'>1, 7 >.'1.1, 1 5";,<67 747 ,<>'<6 6,< .<6. / 05.8
%>.';'4J.1 5">671 047 ,<>.6 ?.<-, 16 ?405 ,6 .7>.';1>.1
4<.';,<67 747 ,<<,4-.55.8
.67 ;, / ?,6.'>.'7"1.?1.6.<7'7 ,<'< ;,1?6 5.J 65'7 E
% '5,16 .< .@.1; ;.8 .7 >4 >,<05. / .<7 >.' " 1.?1.6.<7'7 ,<
'77';0..' U 5"?,?45'7 ,< .7 U 5" ;,<71 047 ,< > 1..7.I .<
6,17.'=4 ' .67?,17>.<7,7'5 7.'U=4'7,<.;.<7 =4'71. - <J7
> @ / . / 01.6%

+ ' 8

G

*

$ .6 ;7,V.<6 ?.4-.<7 '>1.66.1.<5.416 <, / 6 '4 ;,1?6
5.J 67'7 E >.6 ?.7 7 ,<6 <> - >4.55.6 ?,41 >. / '<>.1 7.
1'66. / 05. / .<7 >.'5" #,<-.<7 ,< <'7 ,<'5.' ,4 >4 ;,1?6
.,<67 74'<7I / ' 6 5.';,1?6 5.J 65'7 E ?.47 6;45>.;5'1.18 '4
<, / >.'5"<'7 ,<8 =4 '?.<6.' =4.' ;.'1'66. / 05. / .<7 .67
<.;;66' 1.%
E' 7 ;.77.'>.;5'1'7 ,< ?'1 4< ';7.' ?405 ;'=45 < .67
%?'6 6,4 / 6 U 5"6'<;7 ,<>"1, %
W ,16=4 5 6 'J 7 > 44.'#,<-.<7 ,< <'7 ,<'5.8 ;.7 ';7.'
>, 7 ;,<7.< 1 .<,<; '7 ,< ?1.; 6.'>.6 '17 ;5.6 >.'5" ;,<67 M
747 ,< =4.' 5.';,1?6 5.J 65'7 E ?.<6.'>.-, 1 .71..@' / <.68
,4 ,0Q.7 >.' '>> 7 ,< =4 5 E4J.'<>..66' 1.8
?16=4 5 6 'J 7 > 4 ;,1?6 .,<67 74'<7 ;.7 ';7.'>, 7
><,<; .1 4< =4. / . / .<7 .'-.. 'E,1 / .'?,41 5.'1'66. / 7>.'
/ .<5 >.' ;.';,1?6% %
W .';6 ?6 5.J 65'7 E<.'?.47 >'<6 '4;4< ;'68 'E,<7.5G U
;.77.' .@?,6 7 ,<5.'>.7' 5 >.'6.6 / ,7 E6 < ' <> =4.1 5.'6.<6
>.'5"1.E,1 / .',<>4 .0'<J. / .<7%
7 .6 / . / 01.6 >.'5"5 65'541.'=4 ' "?1,;5' / .%;?7';5.'
K.?.<-.< .71.. 46 / . / 01.6 >.'5"5.J 65'741.'6, -'<7.%
% W "5.J 65'741.'64 -'<7.' / .571";.7 ';7.'.<>.5 0.1'7 ,<
>'<6 5.' / , 6 >.'1,77-.17,1.'>.'5" 6.;,<>6 6.66 ,<8
Q7 '> .'1.Q.75.'5"?1,?,6 7 ,<8 .55.'5.'>>.1.7.1" .< ;.6
7. / .6 R
W 66. / ..'<'7 ,<'5.'5.J 65'7 -.'>>.1.7.'=4 5 < V "
"?'6 5 .4 >.'E,1 / .1 4<.'#,<-.<7 ,< <'7 ,<'5.8 ,4 =4 5
V "?']'5 .4 >.'1'66. / 05.1 5.';,1?6 .,<67 74'<7 $
8 5,16 5"?1,?,6 7 ,< 6.1"1.J'1>>.';, / / .'6 .55.'< '\'
E' 7 ?'6 .7.'E' 7.%
$ '5"5.J 65'741.'> / .7 5"?1,?,6 7 ,<8 .55.'5.'>>;5'1.1"
.<;.67.1 / .6N
'< 66. / 05>.'<'7 ,<'5.'5.J 65'7 -.'?.<6.'=4 '3 "5 .4
">.'E,1 / .1 4<.'#,<-.<7 ,< <'7 ,<'5.8 ,4 =4 5 V "5 .4 >.'
"1'6 5.1 5.';,1?6 .,<67 74'<7 $
W '<6 ;.;,68 5.6 / . / 01.6 >.';.77.'6..,<>.'5 65'0 1.'
<.'?.4-.<7 >1.'> <6 / . / 01.6 >.'5"5.J 65'741.'64 -'<7 /
$ "5.J 65'741.'=4'64;.>>.1" / / .> '7. / .<7 6.1" 7.'
<4.'>.'>. 0>1.1 >'<6 5.' / , 6 >.'1,4-.17<1.'>.'6"?1.M
/ .1.'6.66 ,<8.7 '-'<7 >.'?'66.1 U > '471.6 ';7.68 641 5"
/ . / .'?1,?,6 7 ,<%
7 '.55.'5"1.Q.75.8 .55.'7.'>>.1>7.1" .< ;.6 7.1 / .6 N
66. / 05>.'<'7 ,<'5.'5.J 65'7 -.'>>;197.'=4 5 < V "
c 6 5 .4 >.'E,1 / .1 ,<.'#,<-.<7 ,< <'7 ,<'5.8 ,4 =4 '
W 4 V "?'6 5 .4 >.'1'66. / 05.1 5.';,1?6 .,<67 74'<7%

.' +4. 4 '$,$ *'(.+ . +.--(3 ('$- (* ,$D
0+$,'4+ -$(#+$,(
W '5" >6?65'741.'??1,4-.'5"?1,?,6 7 ,<8 .5 .'5.'>>.1>' %
7.1" .<;.6 7.1 / .6 N
I 66. / 05>.'<'7 ,<'5.' >J 65'7 -.'>>;1>7.'=4.'5"#,<G
-.<7 ,<<'7 ,<'5.'6.1" E,1 / >.8 ,4 =4.'5.';,1?6 ;,<67 '
W 74'<7 6.1" E'66. / 0 > 6'<6 >>5' 8 ?,41 ?1.<>1.'.<;,<6 '
'>>1'7 ,< 5.6 ,0Q.76 <> =4>6 >'<6 ';7.'>.' &7.5 Q,41P8
W ?1,;5' / .'?'1 66. / 05>.'<'7 ,<'5.' >J 65'7 -.'>.'&7.55.'
W '<<>.P%
W < -.1777 >.';.'>>;1.78%5.6 >5.;7;416 6.1,<7 .,<- =<.6'
>'<6 .0'=4.'>>?'17. / .<7 '4 ;, / / .<;. / .<7 >4 / , 6 >,'
Q4 <8 > '?1>6 5.6 E,1 / .6 ?1.6;1 7.6?'1 5";,<67 747 ,<%
W 6 6.'1'66.1'05.1,<7 >'<6 5.'5 .4 ,1> <' 1.'>.'5.41 '>5.,G
7 68 5.' * >4 / > / .' / , 6%
G' 6 'J 7 >.'E,1 / .1 4<.'#,<-.<7 ,<<'7 ,<'5.8 76
<, / / .1 <78 >'<6 .0'=4.'>.?'17. / .<58 .'<, / 01.'>.'1.G
?1>6.<7'< 6 '771 04>6 U 6,<7.11 7, 1.%
N 7 5 6 'J 7 >.'E,1 / .1 5.';,1?6 .,<67 74'<7% 6 <, / / .G
1,47 5.' / > / .'<, / 01.'>.'1.?1>6.<5'<76 =4 ' '41" >7> .<'
-,V>'?'1 5.'>>?'17. / .<7 U 5">.1< >1.' > 5'7 1.8 .< 1' G
6,< >.'5" ?,?45'7 ,< .5 >.'5";,<71 045 ,< > 1;;7.' >"
>>?'17. / .<7% %

+ ' ' !

2 'G 9 %

.6 <,4-.'4@ 1.?1>6.<7'<76 <, / / >6 >'<6 ;0'= .'>>'
?'17. / .<7 ?,41 E,1 / .1 5" #,<-.<7 ,< 6.'1>4< 1,<7 '4 ;,1 ' %
5.J 65'7 E8 >'<6 5.' .4 >.'6.6 6>'<;.68 5.') >4 / ? 6 >.'
Q4 55.5%
W .'?1.6 >.<7 >4 ;,1?6 5.J 65'7 E =4 75.1" 5.'E'< .4 8 .7 %
7,556 5.6 1.?1>6.<7'<56 17,<0'6.'E,1 / .1,<7 ?1 - 6, 1. / .<7
6,46 5"?1>6 >.<;.>4 > V.<>>J.8 ?,41 -.1 E .1 6.45. / .<7
5.6?,<-, 1.>.61;?1.6.<7''56'>> 5 ,'<.56% 8
W 4 U Q4 55.78 =4.5 =4. 6, 5 5.'<, / 01.'>#6 / > / 01.6
?1.6.<768 56 6.';, 74.1,<7 .< G
W .6 1.?1>6.<7'<76 ?1 <,<;.1,<7 5,46 .<6. / 05.8 '4
<, / >4 ?.,?5.'E1'<?' 68 5.'6.<<.<7 >. - '1.' *
YT
Y 56'?1>7.1,<7 .<64 7.' <> - >, .55.1, .<7 5.'6.1 / .<7 6 >.'
E / ' <7.< 1 >.'7,47 5.,1 ?,4-, 1 5.6 0'6.6 E,<>' / .<5'5.6
W >.'5" .,<67 747 ,< ><'1,V'4 / . >0.1>7..'?'1 1 66. / 0 >.'
W ;,<67 74'<7.''4@ '<<>.6 ()*8 (* '.7 (* 8 >.'<.'?,17.1
'4;4<.' '77. <7.'U 5">671 047 ,<>.6 ?,4-, 16 ?405 ;88 .7
'>.'6.'0,1<.1 U 67'54.1 641 5.6 ,0Q.76 .<,<.>6 >'<6 ';7.'
W ?1,;5' / .'?'1 66. / 05..'5 6 ' .'>.'&7.55.%'<<>.P%
G " #,<-.<7 ,< <'7 ,<'5.'.<71.1">>6 5,16 '?5.5<.'#'
7 -57.% 8 8
% W 55.'<.'6. "1>?47>.'#,<-.<7 ,<=4.'>'<6 >6 ';7.61'
'7 E6 U ,0Q.7>.'6,<1'66. / 05. / ;<%
W 56'6.1,<7 ';;.? >6 ?'15.'1, 8 ?41. / .<7 .7 6 / ?5.'
1'.<7 ' G
$ '67,<6 5.6 ';7.6 >.'?41.'5.J 65'7 ,<=4 .55.'?,411'
E' 1.'?.<>'<7 5">41>.'>.'6,< .@.1; ;.'6.<7 6,4 / 6 U '
6'<;7 ,<%
$ #,<-.<7 ,< <'7 ,<'5.'<.'?.<7 6.%?19 ,<J.1 '<>.5
>,'7.1 / .'>>6 J<>'?,415.'1.7,41 >.'7"7.J 65'541.%
$ '6 .55.'?.47 6.'> 66,4>1.'-'<7 ;.77.'>?,=4.8 '466'
7 7=4 .55.'"1. / ?5' ,0Q.7>.5" / 66 ,<%
W '<6 ;.';'68 5.6 1.?1>6.<7'<76 '>> 7 .<<.566.'1.5 1.<
.7 5.';,1?6 5.J 65'7 E 6.'1. / .7 '< / J / .'> '5 >7' 7 '
Q,416>.5'1>4< , /
V + ' $ ' K 4.8
-* ' 9 ' ' ;,1V6
.6 <,4-.'4@ 1.?1>6.<7'<56 <, / / >6 >'<6 .0'=4.'>5
?'17. / .<7 ?,41 E,1 / .1 5.';,1?6 .,<67 74'<7 6.'1><< 1,'
'<;,1?6 5.J 65'7 E>'<6 5.'5 .4 >.'6.6 6>'<;.68 5.') >4 / ,'
>.'Q4 55.7%
W "-.1 E ;'7 ,< >.6 ?,4-, 16 >.6 E.?1>6.<7'<76 '>>
7 ,<<.566.1" E' 7.'>.'5" / ', >1.' <> =4 '>'<6 5" 6.;7 ,'
?1>;.>.<5.%
4 U Q4 55.78 =4.5 =4.'6, 7 5.'<, / 01.'>.6 <. / 01'
?1.6.<768 56 7.'>> / '1.1,<7 66; / 05>.'<'7 ,<'5.';,<67
74'< .%
W 66. / 05>.'<'7 ,<'5.';,<67 74'<7.''4@ '1<>.6 ()>
(* '.7 (* 8 >>;5'1.'=4 ;'.67 5.'7.1 / .'>.'6"?1>-,V'<;'
.7 5"E<>.'6.6 ?,4-, 16I 5.';,1?6 ;,<65 4'<7 <.'?.<7 1.'
;.-, 1 >.'1>J5.'=4.'>.'54 / . / .I .55.'< "1 .< U 54 '?1.6
;1 1.I 1,4-.1"7,47 >'<6 ;.77.'>.- 6.'=, .55.'54 '71'<6
/ .7 '@ '& 01.',< / ,77 51 S

HI

(

8' % A ''#.'& 6;,7 16.67> J<.'>.' ' / '>.' 1''
0.'4I' Q.<'>. / '77>.1 <5?1.66 ,<%'
W W6. / O5..',1>,:<.' / ?1.66 ,<'>4'> 6;,476>.'
% H1,;:,7% G G ' $
% + 'N '<6'5''> 6;466 ,<' '' 5'=4.55.'Q.'-' 6
/ .'5 -1.18Q.'<.';,<6457.1''=4.'7< <' / ,41'?,41'5''
;,<67 747 ,<I';, << .'Q.'5'';1, 6E,<>..'641'5''<'741.8
Q.'>>6 1.' =4 .55;'6, 7 '4 6' '<; . <;'=4.'5''<'741.'
.55# / <.G 0.1;:,<6'>,<.'>.6 <,V.<6 ?1,?1;6''
1.;7 E .1'5'' ;,<67 747 ,<'6'<6'5''>.714 1.% 4%5 .4'>.'
<,46 ,;;4?;1'>.6 3 ' ?066 05.6'>.' 5'' ;5 '< '
J.18 ,;;4?,7 6 <,<6'' 5''E' 1.'' / .18 .71.?,<4,<6 ''
;.4@'=4'6.'?5' 6. 7''5'';' , / < #18?'1;.'=4.'=4.5j'
=4.''17 ;5.';67;,<71' 1.''5.41',?< ,<8.<'Q41'<'7>.'
<, .'4'>.'5'' / ' <7.< 1 ' 8 N $\ $'
'' ?1. / .1.' =4.67 ,<' .67>.'6'-, 1'=4.55.'>, 7
>71.' .7.<>4.'>.6?,4-, 16'>.6#,<-.<7 ,<6<'7 ,<' '
5.6I' 34.5=4.6 4<6 -.45.<7 =4 .55.6 < ' .<7 ?'6 5.'
'>1, 7>.';:'<J.1'.<'6,<' .<7 .1'5'';,<67 747 ,<8 7 ' 6
> .<' 1.E,1 / .1' ?'17 .55. / .<7 =4.5=4. '17 ;5.6% <'
-,7 >1' 7 . / ?>.:.1'=4.'>.6 1.E,1 / .6 47 5.6 <.'7.< '
> 66.<7'' '<.'<7 66. / .<7 >.'5'';,<67 747 ,<% ' 68
.<.@' / <'<7;.'6V67. / ?8 ,<'-, 7=4 5'< .67?'6'6,4'
7.<'O5.% .6 '66. / O5..6 ?1 / ' 1.6>.;>.1,<7 .55.6
=4.'5'' ;,<67 747 ,<' .67 0,<<.8 .@;.?7>'>'<6 7.5' ,4'
7.5?, <7Z' ' 68?,41'>,<<.1'4<' / '<>'7 / ?>1'7 E8 5
E / >1' 7 =4 .55.6'> 6;47'66.<7I' 7 E'4>1' 7 =4 .55.6
.@' / <'66.<7 6' 5.' ?, <7 .67 / '4-' 6 .<'54 / X / .8
,4'6 5'.67 / '4-' 6'>'<6 6.6'1'??,176'-..' .<6. / O5.'
>.'5'' ;,<67 747 ,<% 5,16 66. / O5>.';,<67 74'<7.8
6.E71,4-'<5' ..' ?'1'6.6 / '<>'768 <.'?,411' 7 6,< '
-.<7E' 1.'5''1.E,1 / .' / X / .'?,41'5'=4.55.'.5 .'6.1' 7
.<-,V..8 ?74e.'=4.' ..77.'1.7O1 '.' <.' ?,411' 7 >71.'
' E' 7.'6'<6 .<' .<71'5<.1> '471.6?,415.6=4.55.6.55.'
< '41' 7?, <7>.' / '<>'76G .47 ,<'> ' 55.416.6?. '
1.1'=4.'5.6 '66. / O5..6 ?1 / ' 1.6 <> =,.<7 ,0Q.7
?1>; 6>4' .0'<J. / .<7 '' E' 1.Z' ,4-.<7 5.' ?.4?5;8
'77. <7 ?'1'5.'>.1< .1'1 6457'7 >.6 -;.6 <71,>4 76
>'<6 H,1J'< 6'7 7 / ' 6,; '5.8 <.'1. / ,<7.'%?'6 '' 5''
6,41;.'>4' / '5I' 6.6 ;, / / .77'<768 6 56'6,<7 5 6'?'1'
>.6 / '<>'768 <.'?,411,<7 >,<.' '??5 =4.1' '4' / '5
% =4.'>.6?'55 '7 E6 <47 5.6 ,4'>'<J.1.4@% G '< .67
?'6'7,47%8 5'.67;.17' <'=4.8?'1'5''64 7.'>.6 7. / ?68 5''
;,<67 747 ,<'6.'>. ?1'-.1'I =4 4<.' #,<-.<7 ,<'<' '
7 ,<'5.'6.1''< ;.66' 1.'?, 1'1.E,1 / .1'5.6'046 8?,41'
1'??.5.1'5.6 ?,4-, 16 ;,<67 74>6' '> >5'5 ?1 1' 7 E
>,<7 56' '4H,<7>.J><.1.G 1';, / / .<7 4<.''66. / '
O5..'5..'?'1'>.6 / '<>'7.?,411' 7 .57Y1>6 67.1' '4@
<71 J4.6'>4' / < 67>1.8 ' 5'' 5 J4.'>.6 ?,4-, 16Z
.67 5'?'6'-1''=4 4<.''66. / O5.';:'1J>.'>.'6'?.'
< O5.6'1.E,1 / .6'>, 7''-, 1' '47,1 7>'?E. <.'.7'.<5 .1.'
> 4<;'66. / O5..' ;,<67 74'<7.'Z ''6,4-.1' <.7.'.67
<> - 6 05.I'5'' ,:' .55.' .@]7.8.55.' .67 7,47.<7 ;1.%
''E';457>'>'J 1'?.47>71.'> - 6>.8<,71.'J,4-.1<;'
/ .<7.<'>,4<.' .@. / ?5.I / ' 6'5''E';457.'>.'-,45. 1'
<.5.'?.47?'6%
<'?1,?,6.'=4.'5''#,<-.<7 ,<' <'7 ?<'5.'?4 66.'
.@ 67.1 .<' / / .'7. / ?6'=4.'5'' 5.J 65'741.% .'-.1'
1' 7 <' ?'6 '5,16'5''#,<-.<7 ,<' <'5 ,<'5.' -,45, 1'
1'??.5.1' '66. / O5>.' >J 65'7 -.' ' ,1>1.I ;.55. ;'
'77'=4.1' '471.'> <;, / ?>7.<;.8 .7'5511'Q46=4 '' <'
> 6?47.1'5.6 ;,<6.=4.<;.6 5.6 ?546 / / >> '7.6>.6
?1 <; ?.6 ;,<67 7475,<<.56I' ,?< ,<'?4O5 =4.'?1.<M
>1.'?'17'>'<6;.77.'5477.'.<'E'-.41'>.'5''#,<-.<7 ,<'
<'7 ,<'5.'6'<6'>,47.8;'1';.'6.1' 7 4<?,4'-, 1'<,4M
-.'48 .7'54'>,<<.1'4<.'7.75.'E,1;.8 4<.'7.55.';,<6 6'
7'<;.'=4 .55;'?,411''6.'1.<>1.'?.1 / '<.<7.8 .7>.-.'
< 1' 4<.'6.;,<>.' ;:' / O1.'>'<6'5.';,1?6 5.J 65'7 EZ
.67'5'8 .<' .EE.78 ,4'7.<>';.'6V67 / .% .'64 6'5, <'>.'
-,45, 1' <;45?.1'5.' ;, / 7>I' / ' 6 Q.'>1'' =<.6''
#,<-.<7 ,<' <'7 ,<'5.' .67 E,1 / ..'?1.; 6> / .<7 >'<6
'' ?1,?,17 ,<' >4'6><'7 >.' ,4< .1% Q,47.O' ..5''
% ';7 - 7>>.6 <71 J4.6 '' 5'=4.55.'6.'5 -1.1' 7 4<.'
E';7 ,<'=4'< .41' 7?'6.<;,1.',4O5 .'6.6 ?1 - 5>J.68

' 8 <'741.S' '' 7,46'5.6 :, / / .68 .7
-,V.06 75'<.'6.1'' ?'6 ?,66 05.'=4.'=4; =4.' ,? <'<78
' / ,41.4@'>.';.6 <67 747 ,<6;<.-'5.1.6=4.68 E'66.'
5'' / ,7 ,<'>.'6.';,<65 74.1'.<'6><'7 <,O5.'.7':.1.> '
7' 1.% % G
.';,<;546=4.'5.6 #,<-.<7 ,<6<'7 ,<'5.6<.'>, '
.<7 71.J <..6 ?'1' '4;4<' / '<>'7 6?.; '58=4 .55.6
>, -.<7 5 1.' .66.<7 .''5.< .<7;,<67 74'<7.68. .67 ''
> 1. <-.67 .6'>.' 5'' ?5.< 74>.' >.' 5'' 6,4-.1' <.7>%
'<7.1 '<78 =4.56 6.1,<7 5.6 / ,V.<6'>.' ?'1-.< 1''
'-, 1'>.';.6 #,<-.<7 ,<6<'7 ,<'5.6 Z <'<.'6'41' 7
/ .771.'71,?'>.'6, <' ''> 67 <J4.1'5'' -,5,<7.'>4'?.''
? .'> 4<.';5' / .41'?4O5 =4.% ''-, .'>.6 6 J<'741.68
=4 ' ?.4-.<7 5 1.' 6' E'; 5; / .<7 641?1 6.68 <.' 6.17
=4 '' <71 J4.'.7'4@'E';7 ,<6% .61.4< ,<6>.;, / '
/ <.6 6.<7?546 >J'5.6N / ' 68> '?1.6 -,71.';,<67 M
747 ,<8 ,<'<.'>, 7>'<6;.6 '66. / O5..6 6 ,;;4?.1'=4.'
>.' <7.157';, / / 4<'5% .6;,1?6 '> / < 671'7 E6>, '
-.<7 ;,<67'7.18 / ' 6 <,<' ?' ` .@?1 / .1' .'-,.4 >4'
?.4?5.I 5.6 >5> / .<76 >.'5'' -,5,<7.' <'7 ,<'5.'6,<7
&5,<.'>'<6'5.6 '66. / O5>.6 ?1 / ' 1.6%%G
' 5 'N ,? <'<7 -''<,46'>,<<.1'>.6>>-. '
5,??. / .<76'>.'>.4@':.41.6% #.'< .67 5''<' .6?1 7
<' '' 7.771.'>4'>>;1.5'1.<>4'0 .1G .';1, 6 =4.'<,46
< '-,<6?'6 5.'7. / ?6'>.'> 6;47.18 / ' 6'0 .<'> 'J 1%
% 'N .'>. / '<>.'=4.' ,<';, / / .<;.' 4'1'
5 1.' 5.6?5'<6I' ;'1 5'.67 <47 5.' >.<7.4>1.'>.6 ;5 6'
;,416'>.'>.4@':.41.68 5,16=4 56'<.'>, -.<7.71.'64 '
- 6=4.'> 4<' / '4-' 6 ?1,Q.7% %
'' ?1,?,6 7 ,<'>. % #' / 46.67'>,?7..%
' + 'N 55'<.' / .'1.67.' ?546=4.'>.4@' / ,7.'
>.@?5 ;'7 ,<% & <' / 41 / 41.%P' ' ,4'7.'-.47 ?'6
/ .<7.<>1.8-, .' / ,<'?5'<'N
'#0'=4.''66. / O5..'?1 / ' 1.'.67'45,1 6#.'O. / .771.'6,<
-,.4 641'5.'?, <7>.'6'-, 1'6'5'';,<67 747 ,<>, 7 #71.'1#'
E,1 / #.%
' 1#64 7'7>.'5.,16 64EE1'J.6 6.1'' ?,17.''4@ '66. / '
O5#.6 #5.;7,1'5.68 ,O 56 6.1,<7 1.;.<6#68 .5 5.6>.?47.6 O 5''
5 65'541.'.4'6.1,<7;:'1J.6%
' .4 J#<O1'5 6.1''>.E <7 -. / .<7 1.;.<6#' >'<6 5''
5.J 65'741.%
W 'O ''5.J 65'741.' 64 -'<7.'5.6 '66. / O5..6 ?1 / ' 1.6
. / .77.<7 .<;.1.'5.' / . / .'-,.48 5'' 5.J 65'741.' 6.1'' 7.<4.'
> .<'>. 0.1.1%
> '5.' .6457'7>.5'' >.5 0.1'7 ,<' .67?,41'5'' <.J'7 -.8
5'5 05'741.' ?4O5 .1'6.6 / ,7 E68 .7 '41'' 5.'>1, 7>.646'
?.<>1.'?.<>'<7>.4@'<6'5'';,<-,;'7 ,<'>.'5''#,<-.<7 ,<'
<'7 ,<'5,%
W' '5''<'7 ,<'?.16 67.8 5'' 1, 6 O1<.'5.J 65'741.%>>.1.7.1''
=4.' '' #,<-.<7 ,<' <'7 ,<'5.'6.1'' ;,<-,=4..% #.'>#;1.7
6.1''?,17.' '4'1, 8 =4' .<'>. 0.1.1''>'<6 6,< ;,<6. 58 .7
?,411'8 .<' ?4O5 '<7 .6 / ,7 E68 .< 646?.<>1.' .@.;47 ,<'
?.<>'<7>.4@'<6%
. '66. / O ..6. .;7,1'5.6. 1,<55'' / , 7 ..<6<6'>.6>>'
?47.6 O5'5.J 65'741.'?,41'E,1 / .1'1' 66. / O5..';,<67 74'<7.%G
' 'N .'<.';1, 6'?'6'=4.'<,46'>.- ,46;,<'
6 >.1.1' ;'5.6 #,<-.<7 ,<6 <'7 ,<'5.6 6,46'5.'6.;,<>'
?, <7>.'-4.'>'<6 5.=4.5'5.6 '' ;,<6 >.1..6 % H1, '
;:,7G ,46 <'-,<6?'6'0.6, <'>.'>,<<.1' ''5''<'7 ,<'
>.6 / ,V.<6'>.'E' 1.'4<';:' J. / .<7 7,7'5'>.'5'';,<M
67 747 ,<NI' ;'1'6'5'';,<67 747 ,<'.7' 7 1.;,<<4.'7.<.M
/ .<7 < '4-' 6.' =4 5' E'55E 7 5'' ;:'<J.1'>'<6 6,<'
.<6. / O5.8 ' .@ 67.''4.4<.'?4 66'<;.':4 / ' <.'=4'
?E 7 .7<?>;:.1'5''<'7 ,<' >.' >,<<.1'';.7 .J'1>'>.6
/ '<>'76 ''6.6>.?47.6% ,46 < '-,<6'>,<.'' .@' / M
<.1'=4.'5''E,1 / .'> '?1.6 5'=4.55.'?,411,<7 6.'E' 1.'
>.6 / ,>E ;'7 ,<6 ?'17 .55.6 '' ';7.' ;,<67 747 ,<<.5
=4.' ,<6 '-.O >>,1#7>% .';, / 7>'>.';,<67 747 ,<8
'<6'=4.' G ! ,4?5 .7 % '55.68 -.47 =4.'5.'-,.4
<> - '4.5'>.6;7,V.<6 6, 5';,<6457.'641'5''< .66 7>'
>.' ;.6;:'<J. / .<76 ?'17 .56 I' Q.'> 6 =4.' ;.' / ,>.'
< .67 ?'6 '> / 66 05.'>'<6 4<' 6V67. / .'1.?1.6.<7'7 E8
.7 =4GSS .67 .@71> / . / .<7>5 3. 5.'8 ?,41' <.'?'6'> 1.'
/ ?,66 05.8 >.' ;,<<' 51;'>.';.77.' / '< .1.'5.'-,.4
?4O5 ;G .' ;1, 6 =4.' % H1,;:,5' '''';.7 .J'1>'?,17.'
5.'?1 '; ?.''' >-'.<..%

[

.'6.;,<>' 6V67 .'_P,7 ''>7>'?1,?,6>' .67>.'E' 1.'
>&_?.<>E.'5'';,<-,;'7 ,<'>.6#,<1.07 #36'<'7 ,<'56'
>4'-'<' ?405 ;8'.@?1<7>'?'1' ;1 1'<.'>4' ;,1?6'5. Y
#65'7 E% '<6' '?5'<'>4';, / 7>8' 5'E'47'5''6'<;7 ,<'
#1, I' / ' 6'Q.'<.';1, 6'?'6'=, '6, 7'<>;.66' 1.'>.'
'?1,4-.1'=,.' ;.7' '17 ;5.'>, 7'>71.' >5 / <>I'Q.';1, 6'
=4.8'5,16=4.'71, 6'5.J 65'741.6' '41,<7' # / 6'5.'-,;48'
5''-,5,<7.'<'7BB '5.6.1'6BE Q6'' <;<7;,<67'77.% .'
<.'?;<6.;.?. >'<7'?'61;, /<E' % H1,;0,78N= 1.'5''
71, 6 .< .' 5.J 65'741.' =4'' '41''>/ 6' 6 <'-;.4'>, -.'
b' 1.'?'17 .'>.'5'' #,<-.<7 ,<' <'7 ,<'5.I' ;'1'%;.'6`I'
1' 7'?'17 '5 6.1;.'-,.4%
#.5''?,6>8' 7' / .'6. / 05.'=4.'5''=4.67 ,<' <.'?.<7
55 6'6, EE1 1'>.'> 0'76N'Q.';1, 6'=4.' '1 6'=4'7.<>'5'
5 1.. / .771.'>.6'-,.4@' < 5 - >4.56'>, 7'>71.> '0,1>'
1;Q.7.8'=4.'5.' -,.4'>.'5''<'7 ,<'<.'?.47' X71.'?1.64 / >'
= .?'1'5.';,<6;<7. / .<7>.'71, 6'5.J 65'741.6'.,<6.'
;47 -.6% .'E' 6'6.45. <.<7'>.4E' ' / .<>. / .<76' '% 5'%
/ ,7 ,<' >.' % H1,;;,7I' 5.' ?1. / .18' =4.' <,7 6<.'
<,46' ,;;4? ,<6' =4.' >.6' #,<-.<7 ,<6' ;:'1J..6'>.'
1.E,1 / .1' ?'17 .55. / .<7' 4<' ,0Q.7' >>7.14 <.' >.' 5''
;,<67 747 ,<8' ?'1;.' =4.' 7,47' <'1.67.' .67' :,16'>.' 5''
;,<67 747 ,< 8' 5.'6.;,<>8'=4.'5.6' / . / 01.6' >.6' 71, 6'
5.J 65'741.6 =4-' '41,<7' ;,<6>;47 -. / .<7' . / 6' 5.771'
' -;.4' 64 '5'' ;,<-,;'7 ,<' >.'5'' #,<-.<7 ,<' <'7 ,<'5.'
<.'?4 66.<78' 6,46' '4;4<' ?1.7.@768' >71.' 1..546' ?,41'
8';.77.'#,<-.<7 ,<%
'N' % '<>1>'<.'8-.47'?'6'=4.' ,<
>.7.1 / <.' 5'' / '4 .1.'>,<7' ?,411'' 5 1.';,<V,=4.'
4<';,1?6';,<67 74'<7I' Q.' > 6=4.' <6411.;7 ,<' <.'
?.47' 5 1.' 4<' / ,V.<' 641' 5.=4.5'>, -.'6.'E,<>.1' 5.' (A'
J 65'7.41% '5''<'7 ,<' ''5.'>1 7>.' ;:'<J.1' .4' 6,<
.<7 .1' 5'' ;,<67 747 ,<8' 5'E' 7' 54' 5' 66.1' 4<' '471.'
/ ,V.<'>.'5.'E'Q1.=4.';.54 >.' <6411.;7 ,<%
$
'&, :#! ! & >! P
% 'N' .'> 6'=4.8' < <> =4.1' '4;4<.'
.6?.;.>.' / ,V.<'?'1'5.=4.5'5''<'7 ,<'?4 66.' .@.1;.1'
6,<'>1, 7'>.' / 1.';:'<J.1' 5'';,<67 747 ,<8' . .67.- '
>. / 1<.<7'<.' 54' 5' 66.1'=4.' 5.' / ,V.<'>.' <6411.;G'
7 ,<% .' / 57,<<.'=4.';.' / ,V.<' 6, 7'.7'05'?'1';.4@'
/ / .'=<' <.' ?.4-.<7'<,46' -, 1' 1>;5' / .1' '4;4<'
?1 <; ?.'>.5 0.17.6'<6'> 1.'%=4.'<,46'-,45,<6'5.'>.6'
,1>1.' .7' '<'1;: .%
' 6' 5.6' #,<-.<7 ,<6' <'7 ,<'5.6' <.'>, -.7 7' ?'6'
8' 6.45. / .<7' ?,4-, 1' 71.' '??.5..6' ?, ,1' ;:'<J.1' 5''
;,<67 747 ,<' >'<6' 6,<'.<7 .18' <' ?,41' 5'' 1.E,1 / .1'
>'<6' 4<.' ?'17 .I' 5' .67' 4<.'71, 6 . / .' E,<;7 ,<' >.6'
#,<-.<7 ,<6N' . 67' > .@' / <.1' 6'5.6?,4-, 16';,< '
67 74. 6' < ,<7'?'6' E1'<;:'5.6' :, / .6'=4'5.41''-' .<7'
>7.'?1.6;1 7.68' .7'>.%5.6'V'E' 1.'1.<71.1% '<6';.';'68'
;, / / .<7' .6?.1. 7 ,<' =4.' 5.' ;,1?6' >J 65'7 E8' =4'
'41''4641?.'>.6'?, -, 16'=4 5'<.'>.-' 7'?'6'.@.1;.18'
'??.55.' 54 / / .'4<.' #,<-.<7 ,<' <'7 ,<'5.'?,41'
1.?1 / .1' '046'>,<7' 5'?1,E 7.'Z .'E'4c 5'?'6''5,16''
5''<'7 ,<'4<' / ,V.<'>'-, 1'>.6' #,<-.<7 ,<6'<'7 ,'
<'5.6' <>.?.<>'<7'>4';,1?6'55J 65'7 E'54 / / .'Z <'
,1>,<<.1' '471. / .<7' <.' 6.1' 7 ;.' ?'6' '< '<7 1' 5.'
?1 <; ?.'>.' 5''6,4-.1' <.75'<'7 ,<'5.'?,41'.<'1.-5'
7 1'5.';,1?6'5.J 65'7 EZ' '' 6,4-.1' <.7.'>.'5''<'7 ,<'
;,<6 67.' .<' .<.7' '' ?,4-, 1' 1 ?1 / .1' =4'<>' .55.'5.'
-.47' 5.6' 4641?'7 ,<6'>.6'?,4-, 16';,,67 7456\' 6'
5.'6V67. / .'?1,?,6.'.67>.6714;7 E'>.'5''5 0.17.% 1,4'
-.1' 7 <' 71, 6';,1?6';,<6.;47 E6'=4''??.55.<7';,<'
71.' .4@';.77.' '<7,1 5>'?4 66'<7.' =4'6.1' 7' ;4. S'
>.'7,47.6'5.41 '?1.7.<7 ,<6Z' #.'?5'<'< '41' 7'> '471.'
.5E.7'=4.'>.' >55 -1.1' 5.6' 7V1'<68';.4@'=4'4641?.<7'
'47,1 7>'>4'?.4?5.8'>.'5'';1' <7.'>.6'#,<-.<7 ,<6'
<'7 ,<'5.6%
' - ' 'N' .6' >.<@' =4.67 ,<6' ?1 <; ?'5.6'
4<7';.55.6 ; N'#, / / .<7';,<<'E71' 7 ,<' .'-;.4'<'M
7 ,<'5' 641' 5.6'15E,1 / .6' ''E' 1.'>'<6'5'';,<67 747 ,<'Z
34'<>';.'-,.4'6.1'';,<<48' =4.5';,1?6'6.1'' .:'1J5%
>.' .@?1 / .1'Z '' ?1. / E.1.' =4.67 ,<' 6.' 640> - 6.'
.4' 71, 6I' .6' -?5,47.6' <>5- >4.55.6' 6.1,<7 .55;6

;'5;455.6?'' % 'c # Y <*H
-.<7 ,<6' <'7 ,<'5.6' >.?.<>1' 7 .55.' >.6' >.5 0.1'M
7 ,<6' ?1 6.6'?'1'5.6' '6 . / 0 ..6' ?1 / ' 1.6' Z < <'5.'
-,.4'<'7 ,<'5'6.1' 7 5'?1.64 / .'?'1'5.;,<6.<7. / .<78'
>.'71, 6'5.J 65'741.6';,<6.;47 -.6Z' ''=4.67 ,<'?1<'
; ?'5.'?,411'' .55. / / .'6.'640> - 6.1' .<';.55.6 ; N'
.6' #,<-.<7 ,<6' <'7 ,<'5.6' '41,<7 .55.6'5.'?,4-, 1'
#,<67 74'<78' '6.45. / .<7' .'?,4-, 1'>.'E' 1.' ' A'
E,1 / .6'?'17 .55.6' ?1.'5'05. / .07' <> =4..6'Z .6'#,<M
-.<7 ,<6' <'7 ,<'5.6'6.1,<7 .55.6' 4<';,1?6'> 67 <;7' .7'
6.?'1.'?'1'6,<' .@ 67.<;.'>,';,1?6'5.J 65'7 E ',4'6. '
1,<7 .55.6' 5.' #,1?6' 5.J 65'7 E' 54 / . <.' '4J / .<7>'
> 4<';.17' <' <, / 01.'>.' / . / 01.6Z' .'>. / '<>.'=4,%
;.6'=4.67 ,<6' , .<7' 64;;.66'-. / .<7' / 6.6' '4@'-, @%
% 'N'55' / '6. / 05.'=4.' >7'7'>.'5''>.5 0> '
1'7 ><8' '4'?, <7' ,4' .55.'' .7>' ;,<>4 7.' ?'1'5.6' > 6M
;466 ,<6' ?1.;.>.47.68'?.<7'5 1.'1.>4 7' >' >.4@'?, <76'
71>6 .5' 168' 1.<E.1 / .6' >'<6' 4<.'?1,?,6 7 ,<' =4''
.7.'E' 7.8'.7'?,41'5'=4.55.'Q.' / .'?1,?,6.'>.'>. / '<'
>.1' 5'' ?1 ,1 7V% .-,<6 <,46' <,46' ,;;4?.1>.' 5''
E,1 / '7 ,<' >. ;,1?6' .,<67 54'<56I' ,4'>.-,< <,46'
6.45. / .<7' <,46'0;;4?;1'>.' ?5';.1'>'<]'5'';,<67 74M
7 ,<'4<' / ,V.<' #,11.;7 E7 1. >.'5'';,<67 747 ,<' / > / .Z
'=4''??'17 .<7 5' > > / .771.'4<'-,.4' 41' 46'J.>;' '
;.' / ,V.<' ;,11.#7 EZ' >7'05 68' =4'<7' '4' ?1. / .1'
?, <78' =4 5' .6';.<71.'5.6?' <. ?.6' .7';.<71.'5.'0 .<'
?405 ;'> >7'05 1'>.6'E,1 / .6'?,41'?1,-,=4.1'5'' ?1. '
6.<;.'> 4<';,1?6';,<67 74'<7%
.'?,4-, 1';,<67 74'<7' .67' <' .EE.7' >.'5'' ?5. <.'
6,4-.1' <.7.% .'?.4?5.'<,46' ''71'46 / 6'?,41'4<.'
E, 6I' 5' 6 .67' / , / . 7' . / .<7>>?.4 55.'>.'6''6,4M
-.1' <.7.'?,41' ';7.'=4 5'<,46' '' ;:'1J.'>.'E' 1.'
?,41' 54'8 / ' 6' 5' < '' <' .<7.<>48' < ' ?4' .<7.<>1.'
<,46';,< .1'6'6,4-.1' <.7>'?,41'5 / 7.18'?,41' < '
> =4.1' ,4' ?1,-,=4.1' '?1.6'<,46'>.6' '471.6' ';7.6\'
>.'6,4-1' <.7>'>.'5'' / . / .'>7.<>4.' .7'>.'5'' / . / .'
<'741.% .'<,71.'?'178' ,> =4.18'?1,-,=4.18'7 / 7.1'
4<' '471.'?,4-, 1';,<67 74'<78' . .67'>->. / / .<7';/ '
? >7.1' 641' 5'%6,4-.1' <.7.'>4'?.4?5.% '<.'?.47' 5.'
E' 1.'=4.'>.'6''-,5,<7>'?1,?1.'.7'>.'6,< / ,4-. / .<7'
6?,<7'<.I';' 18'=4'<>'<,46'> 1 ,<6N'>'<6' 71.<7.'<6'
5.'?.4?5.'?,411'' >5 1.'4<.' ']6. / 05>.';,<67 74'<7.8'
5.'?.4?5.'?,471' 78'>'<6'> @' '<68' 5''-,45, 1I'=4'<>'
<,46'> 1 ,<6N' ;.77.' '66. / 05>.' 6.1'' >.' 6 @' ;.<76'
/ . / 01.68' 5.' ?.4?5.' ?,411' 7' >5 1.' 4<.' '66. / 05>.'
;,<67 74'<7.'E5.>,40.';.<76' / . / 01.68' .7>.' / > / .'
;:'< 1'7,47 '5.6' '471.6'E,1 / .6'=4.'<,46''41 ,<6'
5 @>.6% #.'=4'.<71.'>'<6'<,71.' / '<>'78' . .67' > . / '
?>;:.1%=4.'=.6' ?,4-, 16' ;,<67 74'<76'<.'6, .<7'<. '
;.66' 1.6I' .67>.'?1>-.< 18?'1'4<' / ,>.'?' 6 05;.7'
;,<6.1-'7.418' ?1 6'>'<6'5'';,<67 747 ,<8'5''?1,-,;'M
7 ,<'>.';.'-..46?,<7'<>>4'?.4?5.8'=4'< '11 -.'Q'M
/ ' 6'=4.'?'1'5''6,441'<;.,4' ?'1' '57>1'7 ,<64;;.6M
6 -.'>.6'?,4 , 16';,<67 74>6% % %
, ;5''?,6 7 ,<' ,:'<,46' 6, / / .6N' <,46' '-,<6'
E' 7' 4<.';,<67 747 ,<8' 4<.' / ';: <.'?,5 7 =4.'7,47.'
<.4-.'.7' <>..66' 1. / .<7' ;, / ?5 =4>. I'1.@?>1 .<..'
<.' ''?'6'.<;,1.'>?1,4-..I' 5' '??'17 .<7'' ,4-1 .1'
>.'?5';.18'>'<6'6,<' ,.4-1.' / > / .8' 4<' / ,V.<' 5.<78'
6'J.8' ;1;,<6?.;78' > ,0-E.1' '4@' <;,<->, .076' >.'
>>7' 5' =4'' ?,411' .<7' > 1.' >> / ,<51 ' ?'1' .@?> '
1 .<;.8' ?'1' >?1.4-.' =4' < '' ?'6' .<;,1.' .4' 5 .4%
.67' <6' =4.' -,46'1.67.0'>'<6'-,71.'?,4-, 1I' ;'1'
;.5'' < .65' =4.' H';:.-. / .<7'>.' - 71.' ,4-1'J.8' .7'
. 67' '<6' =4.'-,46' ';:.-.1.0'-,71.'J1'<>' / ,<4M
/ .<78' ;.54'>.'5'';,<6.1-'7 ,<'>.'5''5 ?.15>' .7'>.'5''
71'<=4 5 7>'?400=4.68'?4 6=4.'?'1' U-,461.> ?5' '
;.0'5.6'?,4-, 16' ;,<67 74'<768' ;'46.'?.1?.74.75.>.'
5''1>-3547 ,<8' .7'=4 .< / .77'<7'>'<6'-,71.';,<67 74M
7 ,<' / '>' / .'>.6' / ,V.<6'>.'5.6';,11 J.1'.7'> .<'1>E,1 '
/ .1' 5.6'0468-,46>5, J<.0UQ' / ' 6' 5.6' <,4-.55.6'
1>-,547 ,<6'=4 ,<'?,411' 7' ?1,-,=4.1'.<' H1'<;.%
' <7.<'7 78' >, / / .<7'?,77-.Q -,46'>7'05 1'>'<6'
-,71.';,<67 747 ,<' 3(' ?1 <; ?.' -(1>E,1 / '7 ,<'Z' +.

5'' 5, ' 'J1' 1.8 # >7' ' ?'1 / ' .4@ 4'' / ,V.< 715G - '5I ;L7' 7 ;7' 1.4< 66' 7 ' <6' 4<.' ?.7 7 ,< =< ' 6. <0 ' 7 47 5.' ?,41 .?'411' '' ?.7 7 ,<=4 ' < 5 ' ' 7 47 5.' =4 '' .4@8=4 Q 6 ,<7 E' 7 ?.<>'<7 6 ' 5,<J ' 7. / ?6 7,46 5.6 / '4" .77, 465.6 71, 405.6 >;'5'' 1.?4 ' 05 =4.

1'Q;'>. / '<>.' 6 5 <.'6.1' 7 ?'6 E'; 5.8 .< 7 1'<5 5.' 5'0, 1.41 >.' 5'' ;0' 1 1.8 .< ? , - ,=4'<78 '' 5'' 6,17 .' >4 ;457.'> - <8 >.6 0, / 7<.6 : '0 7'<76 >.' 5'' ;' / ?'< J<.' .7 ?546 <6714 76 >.' 5.416 ?1. / .16 0.6, <.' =4.' >.6 ?1 <; ?.6 ?, 7 =4.6 6 ' <.'6.1' 7 ?'6 E'; 5.8 .4 ?1, / .<'<7 >'<6 5.6>.?'15. / .<76 4<.' .5,=4.<;.' ' ;.<> ' 1.8 >'V < .<> .1 .7 >dV ,07.< 1 >.6 / 7 7 , 76 >.6714;7 - .6 >.' 7, 47 ,1>1.'6, ; '5 Z 7 =4'<>' ;.6 ?> ' 7 7 , 6 6.1,<7 , 07.<4.6 =4'<>' 5'' / 'Q,1 .' >4 ?.4 ' ?5.' '41'' .7.' ; ,<67'7. .?'1 >.6 6 J<'741.6 =4'17>'5.6 5.J 65'7.4 6 .<' '?1,<7 5.'7'05.'4 >.-'<7 5.6V.4@ =4'<>'5.'?,4-> 1 ; ,<65 74' :7V - .11''6,<1. J45'7.41 =4.5 6.1'' 5,6.<7 / .<7 641 5'' 7.11.' =4 '5.41 >,<<.1'' 5.' ; ,41'J.' >.7>6 6 .1Z

' ' '<6 >, 47.8 ' - '<7 = .'5.' ?.4?5.' ' 7 > / 6 E, 1 / .5 ' 5.< .<7 .7 EEJ'5. / .<7 4< - / 4 5.6 >J 65'7.416 ,<7 5.8 ?,4L, 1 >.'1.E46.1 ; .' -..4 ?1.64 / .8 ?'1; .' = 5 56 5.' c4J.<7 >.1' 6, <<'05.I / ' 6 =4'<>' , .' -..4 '41'' .7.' . / 6 ?'1 4<.' / ?14>.<7.' ?1, -, ; '7 ,<8 5,16=4 5 '41' .7>' ; ,<67'7.' 641 5.' ?'? .18 '7 1.0 - ,46 >,<.' 4<.' '66. / 05. .>.' :>1,6 ?, 41 1.6 67.1 ''; .77.'?1,-, \ ;'7 ,< / ?14>.<7.Z Q ' - .0 - ,46 ?'6 - ,46 / E .6 '??.5.' 4<.' <6411.;7 ,<Z .' ?.4?5.' ; ,<6.<7 '' - ,6 >.;1.76 =4, =4 .< '??'1.<;.'6,< - ..4 ' 7 .7.' '4 ' ?'1' - '<7 ; ,<71' 1.I / ' 6 ; .' - ..4 < ' - 'Q7 ?'6 .7> . /]8 / ' 6 54 / > / .' J<,1' 7 .<; ,1.8 / ' 6 5 '7 \ 7.<>' 7 5'' ?'1,5.' >.6 5. J 65'7.416 ?,41 6.'>.; >.1

' 6 =4'<>' c ' '41'' . / 6 6,< - ..4 .< '66.7<05. .8 =4' > 7 '41''> 7 < / 'Q,1 7.N ' .6?.' 1.0 - ,46 =4 Q5 ,0. 66.' '5,16Z 6?.1.0 - ?46 E' 1.' .<' 71.1 >'<65 .6?1 7>4 ?.4?5.>.6 >. .6 7.55. / .<7 E <.6 ?,41 54 'E' 1.' ; ,<;. - , 1 =4 4<.' ?.7 7 ,< >.' 5'' / 'Q,M 1 7.' >.6 ; 7,V.<6 ' ;5 E.' < .67 - .1 7'05. / .<7 =4 4<.' ?.7 7 , EZ 34, ' ' - ,<6 54 ' '41.0 > 7 =4 ' .67 6,4- .' 1' < .7 - ,46 54 ' > 1.0'?1>6 =4.' 5'' / 'Q,1 7> >.6 - , @ < .67 ?'6 5'' - ,5,<7.' ?405 =4.' Z 34, S - ,46 54 ' '4M 1.0 > 7 =4 5 .67 6,4- .1' <8 - ,46 54 ' '<1.0 >. / '<>6 6,< ' - 68 .7 - >46 ,4>1.0 '?1>68 - ,468 '< <, / 01.' >.>,40.' ; .<768 >>714 1.' ,?< ,< 6 J<. .>.' ?546 >.'>.4@ / 55 ,<6> :, / / .6Z #.5''< .67 ?'68 ?,66 05. #.'< .67 ?'6 5'' =4 .67 5'' 6'J.66.8 5'' ; ,7 / ' 66'<; .'>4 . , .41 :4 / ' < .7 >.6 ->1 7'05.6 J,4-.1<. / .<56

.'?.4?5.' .67 6,4-.1' <8 / ' 6 6.6 1.?1. 6.<7'<76 ?.4-.<7 6.456 'J 1 ?,41 54 8 ?'1; .' =4.'6,< '?1,?1.' <7.1 7 .67 ?1.6=44 7,4Q,416 '77'; :>' ''>.6 - .1 7 6 ?, ' 5 7 =4.6 >,47 5 <.' ?.47 ?'6 ' - , 1 5'' ; ,<<' 6 '1 . .' 5 .77.' .7 ?1,E,<>. .'5 .@; 7.@QE5,<;?'68<.'5.'E,1;.6 >,<.'?'6 ''6.' / .1 ''; .671' - E4@ ? 1 << / ,>.'>'< ' J.1.4@ ?,41 54 8 ??.5,<6 5.' ?'1 6'' - .1 7'05.' / ' ' <7.-.'> .@?1 / .1 6'8 - ,5,<7.G?'1 5.6 .5.;7 ,<6I . .67 .< 0,< / '<7 0, / / .' .< =4 ' 5 ' ; ,<E '<; .8 >, <7 5.6 541' 01.6 6,<7 ;5' 1.6 ?,41 54 8 >=<7 5'' ?41.7.54 ' .67 ; ,<<4.8 =4 ' .@?1 / .' -1' / .<7 6,< - . .41 0 .67 ' <6 ' =4 5 E' 7 6,< 0,<: .41I 7, 47 '471.' / ,V.< .67 '0641>.' .7 <64EE 6'<7 18 ; .' - , .4 708 [,46 '41.0 =4'<>' ,46 >>; '1.1.0 =4.' ,?< ,< 4< E,1 / .' >.' 7 , 6 ,< =4'71.' 5.J 65'741.6 64; ; .66 - #6 6.1'' <>. .6 ' 6' 1.?,41 ; ,11 J.1 4< '17 ;5.'>. ''; ,<67 747 ,<

'1 ' - ,46 '41.0 . / ? ;0>==.'5'' >J 65'741.8 ' - .; 1'66.<7 / .<7 >4 1, 8 <.' >>?'66.'6.6?,4-, 168 E,1.>.' ?'1 5'' < 66 7> >.'1.E,1 / .1 4<. .0,6.'> - >. / / .<7 / ' - '6.8 6 ; .'< .67 ?'1 '??.5 > 4< ?,4-, 1 ; ,< 67 74'<7 =4.'5'' <'7 ,< .<7 >1.'1. < ,4-.1' 7I ?'1 5'8 .<7 <8 - ,46 '41.01.<>4 1'1.8 .7 - ,46 '41.0 1.?,466.' 'Q / ' 68 '4 / , ?6 >.'<,E1.' J.8 5.1.<,4-.55. / .7 7 >.' #.6 ?,4-0 16 ; ,<67 74'<768 / ,V.<6 .@71. / .68 ; .66' 1.6 ?,41 'EE1'<; : 1 4< ?.4?5.' ,??1Q / >8 / ' 6 >,<7 5'' 5 0.17; ; ,<67 747 ,<<.55.8 '6641. .'?'16.6 >>

.'WC * ' < ''.S

5 0>1'7 .<6 ?<05 =4.6 >, 7 ?1>6.1-.1 . ; - .7,4- ,7Y < ' - ;0 ?'6 5.' >1, 7 >.'5.6 5 / 7.1Q ; '1 - ,46 '77.<7. ' 1 .0 '' 5'' 6, , - .1' <.7> >4 ?.4?5.I - ,46 < ' - .0 ?'6 5W >1, 7 >.'5.6 ?1, - ,=4.18 ; '1'5'' <'7 ,< - ,46'' ; .' 4 J>6 >.'E' 1.'6,< 0,<: .418 .7 - ,46 5'' 5 -1.1 .0 '' 4<.'64 7.' >.' ; ,<-456 ,<6 >.6714 - .6 >.'7,47.'5 0.17V ->1 7' ' 05.' .7 >.'7,47.' ?1,6?>1 7> .'>. / '<>.8 6'<6 / ." ' ?5 =4.1 > ' - '<; .'641 5.6 ' / .<>.< .<76 =4 '?,411,<7 \;71.'E' 768 5'' ?1 ,1 7> ?,41 5'' / ,7 ,< >.' G '<>1> & < '??5'4> 7 > ?546 .416 1.?1 6.6P

' ; 'N .'>. / '<>,8 '4 <, / ' >4 >>;1.7 1.<>4 0 .18 >.' - ,45? 10 .<'4Q,41> :4 ' <.771.' ?546 >.; 1; <6?.;7 ,< & . - ,5.<76 / 771 / 41.6. 7,4 1.<5 5'' - , @ >.' . .>.1.1P .' 64??,6.' 5.' ; '6 , 5 5.' ?.4?5.'<.'6.;1, 1' 7 ?'6 0 .<1.?7 .6.<7>'?'1 5.' ; ,1?6 >.'5'' 5.J 65'741. & .6 / 41 / 41.6 ; ,777 < .< P

' 1 ' ' N .' E,<>' >.' < ,< ,?< ,< >7'<7 '>,?7 '?'1 K'1 ' - .8 Q '>,?7.' '466 ' 5'' 6.1 .' >.' =4.67 ,<6 =4 5 ?1,?,6. .' - .4@ 6.45. / .<7 1.E47. ' 5'' ?'17 .'>.'6''> 6; 46 <'>'<6 5'=4.55.' 5 '' ; , / 0'774 ,1J'< 6'7 ,< ?1>-4.' > 4< ?,4 , 1 ; ,<67 74'<78 K'1<' - .'1.J'1>.' ; , / / .'>'<J.1.4@>.' @ .1 . .77.' ,1J'< 6'7 ,<8 ?'1; .' =4.8 > 7 58 ; .5'' 64??,6.'5'' <0 ' ; .66 7> >.' 5'' ?1.6.<; .'>.' ; .' ; ,1?6 7'<7> 6=4.<, '6 <.'>.- <6 ?'6 / > / . .< ?1.64 / .1 5'' ?,66 0 5 7. j .'10?,<7E1'5 .< ?.< >.' / ,76 '' ; .77.' ,0Q. ;7 ,< .'<.' ;1, 6 ?'6 ?546 =4.' K'1<' - .' '' 5'' <0; .66 7.' ,< '' 5'' ?,66 0 5 7.' >.' .@ 65.<; .>4 ; ,1?6 ; ,<67 74'<7 .' 6 / ?5.6 #,<-.<7 ,<6 645 1,<7 6'<6 >,47.I / ' 6 .< .7'05 66'<7 ; .6 #,<-.<7 ,<6 ?41. / .<7.7 6 / ?5. / .<78 Q.'<.' - , 6E .<J4 <, J'1'<7 66.' ; .<71.'5.6 <64 ' ?'7 ,<6>.' ; .6 ;41? ' - .<6 5.41 / ?,6.1.0>.6 >.M - , 168 - ,46 10J5.1.0 5. 16 E,<;7 ?176I ' '

' 6 6 ' 5'' #,<-.<7 ,< <'7 ,<'5.' - .<7 ,471. ?'66.1 6.6 E,<;7 ,<68 / . ; ,<<' 51.6.6 >.- , 168 '4J / .<7.1 6'' ?4 66'<; .8 =4 '?,411'' .< . / ? ; : .1Z .' - ?V'<' 1 .<'4 >.6646 >.55.8 <.' ; ,<. . - '<7 ?'6 < < .E'.@ 6 ' 7.< ;E7> 4< ; ,1?6 ?546 1 ; : . / .<7 >,7> .11 ?,4-,518 .55.6.'?.164'>.1'> EK; 5. / .<7=4 .55.' 7>.6 0,1<;6 '' 1.6?.;7.18 ;7 >'<6 7. .6 ; 1; ,<67'<; .6 >,<<E.6 .55.'5. '>.?'66.1'' 6'<6 6;14?45. '

#.7 <; ,<-.< .<78 '@7 ,< > 78 .67 / - 7'05.' 'Q ,6.' ;1, 1.8 / , 8 =4 5 <.' 1.67 ?=68

'1 6 >,47.' - ,46 < .@7 1?;1WO ?'6 5.' J.1 / .'> . 5 ' - ': 66. / .<7I / ' 6 5 .67 4< / ,V.< > . / ?J; : .1 5.' >.-.5,??.1, .<7 >.' ; .' J.11, ;E.7 ; .' / ,V.< ; ,<6 67.' = ?5'; .1 4< ; ,1?6 '4 >.6646 >.' 5'' #,<-.<75?< '7 ,M <'5.'8 .7 ''>, <<.1 2 ; .' ; ,1?6 4<.' ,1J'< 6'7 ,< >E ' 1.<7. ' R ' W

< 4< / ,78 >.' / / .'=4.' '66. / 05>.'>;'1.- 6Q, 5 =4.Q '??.55.#,<-.<7 ,<<'7 ,<'5.8 >.' / 5 / .8> 6 Q; ' =4.' ; .' ; ,1?6 ;67Q4< / ,V.< > '11 7 ; ,<71.'5.6#<71.' ?1 6.6 >4 ; ,1?6 >J 65'7 E >.' / / .' ,1J'< 6'7 ,< ?1 - 4.' >4 ; ,1?6 ; ,<67 74'<7 >.- .<>1'' 5.' / ,V.< > '11 7 >.'5'' #,<-.<7 ,< <'7 ,<'5.' ,4>.'5 '66. / 0E5_S >.'1.- 6 ,< ' ' ' '

' 5.' ; , .?< >J 65'7 E - ,45' 7 4641?.1 ' ?,4-.>1 '771 045 '4@ #,<-.<7 ,<6 <'7 ,<'5.68 < .67 5 ?'6 . - >.<7 =4.'Q.'71,4-.1' 6 >'<6 6'' ?1,?1.' ,1J'< 6'M 7 ,< 4< ,067'; 5.' <- <; 05.' ''; .7.<-' : .< .<7Z < / . / 01.'6.' 5.-.1' 7 .7 5 > 1' 7N $ ''; ,<67 747 ,< '' >.7.1 / < ' 1, J'< 6'5 ,<>4 ; ,1?6 >,<7 - ,46 - ,45.0 - ,46 '771 04 .1 5.6 ?,4-, 16I ; .77.' ,1J'< 6'7 ,< E ' E.1.'>.'5'' - 71.I ?'1 .@. / ?5.8 ?,41 .@.1; .1 ; .' ?,4 ' - , 18 <,71.' '66. / 05.' >.-1' 7 5 1.' ; , / ?,65.' >.' <.4E ; .<7 =4'71. - <J7 > @'1.?156.<7'?76 .5 <><6 <.' 6, / / .6 =4.'6.?7 ; .<7 =4'1'<7. ; <=I 1.<,<; ,<6 = ;.77.'?1.7.<7 ,<I 5 64EK7 >.'<,46; , / ?7.1 ?,41 - , 1 =4.'<,46 <.' 6, / / .6 .7 =4.'<,46 <.?,4-, < ' 5 1. '471.' ; : ,6.' =4 4<.' '66. / 05. . J 65'7 - .Y

' :'0 .<8 5'' / / .' ; : ,6.' '11 - .1' 7 >'<6 '66. / ' 05. .'>.'1 - 6 ,< ,< >'<6 5'' #,<-.<7 ,< <'7 ,<'5.8 6 ' ,1J'< 6'7 ,< >4 ; ,1?6 ; ,<67 74'<7.7' 7>.7.1 / <.#8 6 ' ; .77.' ,1J'< 6'7 ,< >7' 7 > EE.1.<7.' >.' ; .55.' >.' 5'

*

[illegible]

[illegible]

ʼ ʼ |ʼ ʼ @ ʼ

C WFG Kʼ K ʼ Cʼ, + , 9ʼ BHTBʼ V] Gʼ ¥ʼ *) ʼ DQ) ʼ :) (

, $ e$7ʼ ʼ [ʼ !

'J. 57''1' '1.>. .1'4 / ,'7'?'1' ʼ>''

R\. ,>N W8ʼ + .8Y,ʼ>; 4E. ʼ ''7,<VG ,
5 < '<.5ʼ.>.;<QE.%6 [. < E ,K1' 1,55<7'J57,5 <8ʼ
5 ?45'5 ,<ʼ .677.? .8ʼ '4ʼ<, /ʼ>.
,45.ʼ5 ; ,7<&P E.ʼ& 5 ; 5W1 ʼ %641ʼ6,<7.41, GʼE.5,41%
%''5BP41J?, & , ; 5 P / .6 5' 66ʼY. <ʼ;>5 ?5 B .K5;1ʼ
ʼ6 4 .1' <E EE>. / '<> ʼ5''0.1 / 66 , [>.ʼE' 1.ʼE1'Q/. ʼ
<.ʼ / >' . .75E.05 0 8ʼ ʼ>.ʼ; . / , Y8ʼ5 <75 E.1YG
'E.ʼ>E5''1 - 5E, 1% 55ʼ 1ʼ'<1' ; . Q, 41 5 7Q<ʼ J1'<>ʼ0'5%
' 498ʼ.7 ʼ555< / 5<'5 ><ʼ >'<cʼ 4<ʼ>.6ʼQ' 1> ?6ʼ ^ 505 ;6ʼ
.; .57; ;' 5'5Wʼ 8
/ʼ ʼ %? , 7, ! K 8ʼ I EG

ʼ ʼ >M[6 ʼ .ʼ ʼ ,< 5ʼ?1, ;>1[ʼ?,41
ʼ?1. / E1?ʼE, 68ʼ '1] , - .7>'<Y ,47?]6ʼ - c .6ʼ>, ʼ , %
P<18ʼ ʼ ,5.;E ,<ʼ >.6ʼ >>?47 ʼ U'> .8%6.5?<ʼ 5.6ʼ5, 6ʼ.7ʼ
0KEʼ ʼE,1 / .Z>Z%5''<?4-W55g_; ,K Y1 45 , ?%ʼ <ʼ E. .0ʼ>. ʼ
' 6Wʼ< BK ?0 %ʼ]?.1 885 ,? EE5.> 7<U1 ` JG \>ʼ 6.<6\ʼ''
.5.219 `5'?1U6 >.? I.Pʼ W.75N?>7Y7 , %ʼ /ʼ %ʼ / j
8 %ʼ '[E;..>E .67 ' 5. >4 ; Z B Q?<'1>.1SQ ? . ?7Q .7Pʼ
,?'E5 1c 41ʼ5. .<>1 1 ?< 5 %ʼ IRT))ʼ G
> ,?<<;. >. '%66'4 Wʼ5. .4<> ; , / 5. >.8ʼ '7. Q 1J%ʼ
, /ʼ' K -7.0 .1ʼ>. .5,160?<1J%ʼ , :7ʼE' 7ʼ . <1W'>1ʼ '4jʼ
E;1 ?55 '17.<7ʼ.<6. / 05.ʼ>. / ' < ,41ʼ 5' # ?.55.Nʼ F

.8 '' ʼ *) * 2ʼ +%ʼQ0' ;7.>4 71'Q7 ;'>,54ʼ 'Y .ʼ
%ʼ >1 3 7 1ʼ6,5. / .55. / .<7'<<?, . >'<6ʼ5''6 ʼ
#(\ʼG Rʼd7.5ʼ ,<.ʼ % >Jʼ K '5; : 8ʼ6. [>7' 1gʼ 7.ʼ +ʼ G9+nʼ
B(< U E11 > 5.3<.7 ʼ >ʼ ? [,55>ʼ '' 1. 75.Eʼ 5ʼ. '7 ; ,<EQ7 E< 8ʼ 1
.6 .<E7.YW \ e%ʼ $ %TG Gʼ ʼ
%r E; . ʼ>>ʼ. . g , &>YN05ʼ 7Q'<05<ʼ 6,4J:7
'0> ' <ʼ>>6&,4 6ʼ01 '<< 4.ʼW7ʼ?B 6 . 1'?ʼ\ ' <6E='.ʼ
I.Q .5'7 7J <>1'4 <<ʼ7 E' 5 >.ʼ?' @ <71.ʼ5.6ʼ / , 671.68ʼ
50< ?0 7.4 ' 1.61>.8 %ʼ 7ʼ .7 >.ʼ5'' ,17. / 7 / G
'.> '70 / .<7ʼ=?106ʼ 5ʼ' 1 J g77<. ;?<-. ,<ʼ?'15 .4 N%ʼ
01.ʼ?'E%&'=<;57. '' ,17.ʼ ' ; K '' 61. 5<1 / 1 '5..7ʼ
,Q 'Q55.ʼ .>@ʼ 16, ' '-. ;5.ʼ> 67'5;E1Q46='\0 #0.1<'8ʼ
7ʼ 4<.%? 7 .>_>\ _, 7 >. ! < <'8ʼV; P cP<6_ .77 5.7ʼ
1.6Q < E Iʼ 1. ==. . E <0< .ʼ7. / Q 7ʼ '11 V. 5ʼJ10'05ʼ
3>-.55.ʼ=4. ?'1 55> / .<78ʼ '' / ,V.< > 7[ʼ; ;>1> ' < ;'5%
<51.ʼ% ʼ0, ,1Qʼ>.QZ>7.165Y41J >.ʼ W7>;'Y .7>.ʼE5.1 <8(''
' @%.< 5.ʼ 5'' 5< . / ʼ5'' ,17. '1 =4 6ʼ4<.ʼ0'6. >UE.1 %ʼ
& <>E. 17 EEʼ5.6ʼ >. <'<> .6ʼ77 ,>>10.J .7 >=< 1'05.6%ʼ>.ʼ
K5 '775; .'>.ʼ [6 08ʼ =<G9>; ,< '877>WQU%>.?4 6ʼ5,<. 1ʼ
[? ʼ I5.6ʼE5.>@ʼ ; ,<15 / .<7 ,5 / 0.6.<ʼ>.1< .1ʼ5 .4
'? ,E. ,<5 047ʼ =45ʼ> ?0<7E
1 ,ʼ%ʼ';=45.6. . 17<5E.'6'= <. /ʼ2ʼ; .60 > .ʼ
(+,$,$./ʼE'6ʼE.ʼ>.7? , ʼ. 6ʼ 5 >,E7E7>1,<5ʼ08 .4 4#(!
,-7ʼ;.ʼ=<ʼ 95 `6.ʼ? 6.<7. / .<7 '4#4 7>7 / 7.ʼ=7E'<617G
ʼ;.>0 50ʼ 6 >1174 4B 5 6.7'' 0 .<7ʼ 71177'05 .' .E7W95ʼG
' @Q . 2 66 7c W '? 1.ʼ,77, E7'<6
%M ʼ #Yʼ ʼ + :

#$ %&' ʼ, ʼ* * ʼ Aʼ '!(ʼ (

Iʼ a ! '11'7 45, 16ʼ979 6' / 9ʼ?1. < .Eʼ>.?4 ʼ>4ʼ> ʼ
5 17. / [7>. '1 ʼ W%Gʼ Gʼ Y R$_ $ Y
ʼ I <65;4U>.6ʼ>E. .416ʼ >5. 4. ?,41ʼ1' 6.6%>.Rʼ ' 1;ʼ
Q54ʼ (8 .7ʼU, ,5ʼ5 >>.1.56ʼ>.ʼ?1 6.ʼ>.ʼ1'1?6ʼ ,47ʼ .7 ; ,<G

75 15.< Q > 7 .E% 6
1 % ʼ .4Z> 4 ` [^7ʼ 8ʼ 7 E: .6<'V% ?V.VB4.<
) $'%ʼ ''- :3)(. I$(A+3,5$$;A, G4 -ʼ !(#+ . $ $. +,ʼ(,ʼ
7, %% $ G 8ʼ $ Tʼ

8G$ E7ʼ'' 1';'E77>ʼ>:1.16. / K7%4<ʼ '1,V'J.ʼE' ?'1% ;ʼ>''
>'6. / 05ʼ'.ʼ<'7 ,<'5.ʼ''55'00' J>.ʼ ,V 4?, ,7Q , ; ''1>Gʼ
1 5.G Eʼ 8 Q E%,I ʼ%8ʼ ʼ d
% ' : '<'4'' '<>.ʼ6'-'<76ʼ>7'05 .ʼ>.?, 6Q ,>Eʼ / , 6ʼ 5= / Gʼ
055J7ʼ:.=4%.ʼ>.6%34'71. 5'7 , ,6%ʼ % '1 68ʼ'V''7?1,?,6.ʼ ʼ 6G %G
6. / 05. . <'7 ' . >.V1>4<1ʼ' '00'V.ʼ>.ʼ ' <7ʼK.? 6ʼ .E7
1'<;.8ʼ5.6ʼ<,<4<6.<76ʼ>.8E'>'''G75_61,V'5G=1E6=71? '5.<7E
%>'<65.7.J 6.%6.7Q<' 6,<'E.5 J ,B . ʼ64?71 / >.'1.B 66. /ʼ''
0>.ʼ<'7 c . 'V''7';%.ʼ. 85''?1,?,645,0>' . 4G . ,>?'Gʼ''
J< .E;55.%5 <6714 6 78ʼ'1E1, 5 . Q>. < 5.78ʼ F ʼ&''%-. ,7.ʼU'' ʼ0ʼ
0'V.ʼ>.ʼ ,V'4 / ,<7ʼ .7%>4G- ,V'J. >0 %7.1177ʼ>ʼ?17 ,6ʼ > V

75E.ʼ ,E1 J18ʼ .7 .> ;7 :8ʼ / .5<01>ʼ>.ʼ ;'>. / 0ʼ> ʼK.EZ %ʼ
$5.E1 .771. 8ʼ .7ʼ <7: ,>%>.<' 6,<% ' J.8ʼ6,< ; ,<E1. ! .ʼ>'<6ʼ
1ʼ5'' .? E 5K 66 , ,% ?'< 1.K7ʼ>.<;>Gʼ '1 6ʼE.ʼG(ʼQ, B5.78ʼ .78ʼ '11 ʼ)ʼ
- .I ʼ'' ,V' / ,<7 .N / .E7.Q. 8ʼ,5E6. E' 7.1.E77ʼ> , 7.ʼ / .7E1.ʼ
5 >V1 'J .Eʼ 5'' ʼ \$ G ʼ %
A E7ʼ [? <6ʼ> 5 <.ʼ6. / ' <.ʼ 5''6 ,<7ʼ- .<46ʼ K047ʼ> . < . '>1.ʼ
5.6ʼ1.67. ʼ>. ʼ.? 7'?: .6ʼ .7% <6;1 ?7Z Y6ʼ71.4V>. 8ʼ>.ʼ. ,<? 5 .1ʼ
5.6ʼ%> >.1.' >6 >. ''=4.5=4.0ʼ> , ;7.6ʼ6?G 5.6ʼ E75,<4 / .<76ʼ >.ʼ
8 gVJ4 E7, 0ʼ .E7 1. . ,%<<'771 >. E 56ʼE101.6%.0<. , >> &ʼ
>>F ' <7ʼ / 68ʼ <; . 6060E76=4 ʼ Q,41ʼ>' 6ʼ : 67, ; ,%5ʼ
% 5.6ʼKE'461E>.''.<7ʼ>7>ʼ>>' .5 6Q =. ;ʼ?>7.66.8ʼ =6ʼ. .1.4. 56ʼ
%.4V.1 ʼ'V. ,ʼ 1; ,?6?. . 1'8 5.''. .E7><.6ʼ1. .<? 5 .6'- .ʼ4,1ʼ
6, < =45ʼ< .47ʼ1 .<ʼ5'566>ʼ''> 1.ʼ '4ʼ. '64 .7.ʼ5.ʼ?546ʼ6. -01.N
ʼ' ʼ'E75 41. 44.ʼ;66ʼ / .66 . 1 %6 <6714 6' .<78ʼ > .7' .<7' ʼ 5
6.;1.7' 1.ʼ>''> 671 ;7ʼ> ! ; <.66.ʼ/ (,ʼ;E5?1.6.<; ,ʼ>4ʼ4. ʼ$D
>.<78ʼ< ?1, ; .6 [0'5ʼE7 =4@E' 7ʼ 4,%0. '4; , ʼ>'471.6ʼ>.ʼ G

ʼ 4K48ʼ5.ʼ E 6. 5E7<ʼ''?, 17.ʼ 'E.0'V.ʼ .ʼE. / 7 K .< 65.6 ʼ
1. 7.''>.6Q.4 7.6ʼ?<: . .6>.5'5'K B.ʼ>.ʼ6' <75, 8ʼ5.6ʼ. . / 8ʼ
>1.6ʼ.7 ,U.<\.\ >7 >7ʼ>7 =4.7.6ʼ .7ʼ6; .55>68ʼ .75. ʼ< / 5>.6ʼ
>7+?7,?7466+'19(> (7ʼ ʼ !!!6!!!-1.%ʼ Kʼ'7
K 6ʼ$6($'' $.(-(,+ (ʼ - (ʼ ((ʼ0 8+9(ʼ '(.+ʼ * (.$36(''(ʼ4 .ʼ /
$ $$ʼ, $.(ʼ (, 6(ʼ3 . Q:$,-%4 .$(''9(*' - ʼ ()-(/ ʼ +$ʼ *D
9(ʼ'%(ʼ 33*4(Aʼ # .$#,(.+ʼ (ʼ H -('' 6 (* 7 -(DH+ʼ !
< 5ʼ#, . ('5 (%(-%ʼ) '3.$,ʼ!36($ʼ / . (ʼ-(c +.+$' aʼ
.ʼ&ʼ,) > &ʼ'''&,! ,$#,+$, ʼ3 $((ʼ + #, ʼ&$ʼ + +$'!DDʼ
8+ 7ʼ $''(.$ 8ʼ5 +7 -('' 9 ',$*'7ʼ''(-+$*#(*(/ . #/
+$*,D-+35 ('7(,ʼ ,$(.ʼ- (ʼ b$(/ . (ʼ + + ʼ +) (( ) *,!ʼ
7ʼ(,ʼ - (DFʼ $0 +*4((/BEʼ 8 ?('%ʼ'', +:$'/#,%+''(ʼ-(ʼ4 . ,/4+.%M
M,) , (ʼ. 8+ *(ʼ Kʼ #ʼ !ʼ Kʼ ʼ %ʼ ʼ D

E7>.5 ?.7 76ʼ .76>.ʼ9,ʼ
' .14ʼ>. - , E7 ,15 ;5.
1. 7 ,''< <7U1W GG. .%'4W .757')6.4 . ,7 5. 0 ' %
ʼ + '' , ; >7.>.6 / 6>.5''#, K67 7477'6 ;'<'' YG. G
*(.(3(%0.+ʼ4 *'c+ 3+*(6ʼ5(771(6ʼ <6ʼ4+5E5(76ʼ54ʼ <ʼ(6,$(.<7I)EF %ʼ
#.+*365ʼ/ (03(4,-ʼ3(Dʼ>. '5 , ; .7>6ʼ>.6ʼ >;00 <6ʼ .7>.6ʼH.4 5G%
) ʼ +.$'!/ +$#, 54(ʼ >.6ʼ , ; .7.68ʼ4@&? .55.6ʼ .55 , %.67%
ʼ $ʼ K $ʼ
, GG ʼ $
8Gd(ʼ

ʼ ʼ >.ʼ % .1 .E N8ʼ Q%ʼ1 Gʼ G
5ʼ@B @ʼ $.C + ʼ8@ ʼ 8E8
%Z I)- ʼ ** ʼ Cʼ 6)ʼ
V %
ʼ C k R ʼ8 C b 2? *$*(`(ʼ$ * * $ (%4Cʼ
C* $ ʼ ʼ =ʼ (% ,ʼ. ʼ ! ʼ U ʼ ʼ, (ʼ(%,ʼ% ʼ
? & ʼ$%) &GP$ % ʼ * ʼ%4% ʼ$%ʼ % ʼ
(! ! ʼ% $:+ & % 0 ʼ$ ʼ)% A @ ,ʼ(,% ʼ
XV ʼ((! , ,ʼ & Q $ʼ(%,'& # C) *$ E $,

=4.ʾ-,46ʾ>.-.0ʾ '55;<>1.ʾ5'ʾ ?.1E.;7 ,<ʾ 64;;.66 -.8ʾ
; .67ʾ>.ʾ .@?.1 .<;.ʾ6.45.% .ʾ;1, 6ʾ>,<.ʾ=4.ʾ 6ʾ
6. / 05..ʾ>, 7ʾ67'54.1ʾ4<ʾ7. / ?6ʾ '-'<7ʾ5.=E .7ʾ5.6ʾ5.M
J 65'741.6ʾ<.ʾ?,411,<7ʾ?'6ʾ6 ,;;4?.1ʾ>.ʾ1.- 6 ,<8ʾ.7ʾ
=4 5ʾ<.ʾ>, 7ʾ?'6ʾ.71.ʾ?.11'E6ʾ'4@ >.4@ʾ?1. / .1.6ʾ 1ʾ
J 65'741;6ʾ =<ʾ <,46ʾ64 -1,<7>.ʾ;, / / .<;.1ʾ>ʾ6 ,. 8ʾ
;4?.1ʾ>.ʾ;.77.ʾ1>- 6 ,< 5'8ʾ'77.<>4ʾ=4 '5,16ʾ5'ʾ1.-,M
547 ,<ʾ5 .6.1.ʾ?'6ʾ.<.,1.%7.1 / < .8ʾ.7ʾ .@?>1 .<;.ʾ
< '41'ʾ?'6ʾ?-,<0<;.% % % %$ d
'Ñ #.ʾ=4.ʾ ,<ʾ'ʾ>.Q'ʾE' 7ʾ.5, J4.ʾ'6ʾ
6.0ʾ7,?7.ʾ.6?E.;E>.ʾ#,<-.<7 ,1EQ .7ʾ / >1'.ʾ>.ʾ1.- 6 ,<8ʾ
?,41ʾ ,??,6.1ʾ'ʾ;. =4. 5><ʾVʾ / .77.ʾ>.ʾ<,4-.55.6ʾ
.<71'-.6% .ʾ>. / '<>.ʾ5'ʾ =4.67 ,<ʾ?1 '5'05.ʾ641ʾ5'ʾ
?1,?,6 7 ,<ʾ>.ʾ %K'1<'-.%
'EP'<6ʾ5.ʾ / , / .<7ʾ> 'J 7'7 , e ,Eʾ<,46ʾ
6, / / . 8ʾ 5ʾ.67ʾ - >.<7ʾ=4.8ʾ6ʾ-,46ʾ<.ʾ>>.1 7.0ʾ4<ʾ
7.1 / .ʾ'-'<7ʾ5.=4.5ʾ5.6ʾ5.J 651'7.ʾ;6ʾ<.ʾ?,411,<7ʾ?'6ʾ
?'15.1ʾ> ʾ1.- 6 ,<8ʾ5'ʾ ?1. / .1.ʾ ,?.1'7 ,<ʾ>.6ʾJ.<6ʾ
=4 ,4>10<7ʾ?'1' 71#ʾ>'<6ʾ5'ʾ?1. / .1.ʾ5.J 65'741.8ʾ
5'ʾ ?1. / .1.ʾ / '<,.4-1.ʾ=4 56ʾ71,4-.1,<7ʾ ?,41ʾ6.ʾ
E' 1.ʾ4<ʾ<, / ' .7ʾ 9ʾ'1.?47'7 ,<ʾQʾ6.1'ʾ>.%E5'77.18ʾ5.6ʾ
?'66 ,<6 >.ʾ=4.5=4.6?.16,<<.68ʾ.7ʾ>.ʾ?1,?,6.1ʾ>.6ʾ
;:'<J. =?<76ʾ>'<6ʾ5'ʾE,<67 747 ,<% 1ʾ; .67ʾ4<ʾ <ʾ
;,<->< .<7ʾ7106 6.?6 05. =4.ʾ;.54ʾ>.ʾ=,46ʾ.@?,6.18ʾ
5.ʾ1', 6ʾ?1,;:' <8%'-, 04<.ʾ<,4-.55.ʾ1.-,547 ,<ʾIʾ
Q '??4 .ʾ>,<.ʾ5' ?1,?,6 7 ,<>;ʾ %K'1<'-.%
Iʾ 'Ñ .ʾ64 6ʾ6ʾ05, J<.ʾ>.?.<6.1ʾ=4.ʾ;.ʾ
=4 ,<ʾ -,?6=P1??,6. 6, 7ʾ;,<71' 1.'4ʾ>0.1.7=4.Q.ʾ
-,46ʾ'ʾ?1.6.<7.8ʾ=4.ʾc.ʾ-' 6ʾ-,4 ʾ?1,?,6.1ʾ .ʾ5.ʾB.1ʾ
'-.Eʾ5.ʾ>0.1.7ʾ=4.ʾ-,46ʾ'-.0>.Q'ʾ1.<>4%ʾ ,46ʾ'-.0ʾ1.ʾ
/ 4ʾ6,5,<<.55E.7<.<7ʾ5.ʾ>1, 4>.5'ʾ7 / 7 ><8ʾ.7ʾ-,46ʾ
>. .b .ʾE' 1.Iʾ / ' 6ʾ-,46ʾ54ʾ'-.0ʾ> 7NW ,46ʾ-,46ʾ
>.;5'10<6ʾ>'< ʾ<,6ʾ> / .6ʾ.7ʾ;,<6; .<;.6ʾ =4.ʾ<,46ʾ
.J'1>,<6ʾ=4 5ʾ.67>.ʾ7,47ʾ < 1>7ʾ=4.ʾ-=46ʾ646?.<ʾ
> .0ʾ .@.1; ;;%>.ʾ;.ʾ>1, 7ʾ <;,<7.67'05.%$:ʾ0 .<8ʾ
; .67ʾ?'1ʾ4<.ʾ;,<6.=4.<;.ʾ / > / .ʾ>.ʾ;.77.ʾ>.;5'1'7 ,<ʾ
E' 7.ʾ'ʾ5'ʾ<'5 ,K8ʾ=4.ʾ-946ʾ>.-.0ʾ'>,?7.1ʾ5'ʾ?1,?,6 M
7 ,<ʾ=4ʾ-,7EV.67ʾE' 7.8%.<ʾ5'ʾ5 '<7ʾ ʾ '17 ;5.ʾ=4ʾ-,46ʾ
.67ʾ?1'6.<7.% , ; W, / / .ʾQ.ʾ?1,?,6.ʾ>.ʾ1>> J.1ʾ 'ʾ
?1,?,6 7 ,<ʾ>.ʾ %K'1<' -.ʾIʾ $ʾ Y
W <ʾ;,<6.=4.<;. 8ʾ.7ʾ?'1ʾ5.6ʾ / E / .6%- 176ʾ> 7 7.ʾ
1>7ʾJ.<.1'5ʾ.7ʾ>.ʾ5'ʾ <.;.66 7.ʾ> '77.<>1.ʾ>.66.;,416ʾ
>.ʾ .@? 1 .<;.8ʾ 66. / 05..ʾ<'7 ,<'5.ʾ>.;107.ʾ=4 5ʾ
<.ʾ?, 11'ʾX71.ʾE' 7ʾ'4;4<.ʾ / ,7 ,<ʾ?,41ʾ5'ʾ1.- 6 Kʾ
8>.ʾ5'ʾ;,<67 747 ,<ʾ'-'<7ʾ5'ʾ71, 6 / .ʾ >J 65'7,1.%Y
$ #.77.ʾ?1,?,6 7 ,<ʾ.67ʾ'>,?7..%
8ʾ " ^ʾÑ ,71.ʾ6.1 / .<7ʾ.67ʾ';;, / ?5 8ʾ-,6ʾ
71'-'4@ʾ6, 7ʾ';:.-.6 ;.6ʾ7.'-'4"8ʾ?,4164 - 6ʾ?.<M
>'<7ʾ- <J7 :4 7ʾ / , 6%'-.;ʾ4<.ʾ'1>.41ʾ>,<7ʾ5ʾ< Vʾ'ʾ
Q / ' 6ʾ.4ʾ> .@. / ?5.8,E5ʾ7ʾ7.1 / <>ʾ5'ʾ;,<67 747 ,<ʾ=47ʾ
ʾ1. J5.1ʾ5.Vʾ>.67<. .6ʾ>.ʾ5'ʾ H1'<;.% .6ʾ-,6ʾ?1.M
/ .16ʾ?' %>.6ʾ,067';5.6ʾ6.6,47ʾ?1.6.<7>6Iʾ>4<ʾ6.45ʾ
/ ,7ʾ -,46ʾ5.6ʾ '-.0ʾ> 66 ?>6ʾ;, / / .ʾ>.6ʾ;: / .1.68ʾ
?'1;.ʾ=4.ʾ;.ʾ 0, %1.<E.1 / ' 7ʾ4<.ʾ??,E,,>.ʾ-.1 7.%
' <;46ʾ?'1ʾ5'ʾ1 6,<8ʾgW ʾ.<<.< ` 1.;,4141.<7ʾ'ʾ5'ʾ
E,1;.8ʾ.7ʾ;. 547ʾ'<ʾ / , / .<7 ,<ʾE.416ʾ'1<.6ʾ / .<'ʾ
;' .<7ʾ-,E7.ʾ,4-1'J.ʾ=4.ʾ-, eQ)\'7ʾ>.ʾ ';:.-.1%
= / '7 ,<8ʾ>,<7ʾ5.6ʾV.4@ 7' .<7ʾE @.6ʾ641ʾ-,468ʾ<ʾ
> J<..ʾ>.ʾ-,6ʾ>'<J.16ʾ.7ʾ6'7 6E 7.ʾ>.ʾ-,71.ʾ;,<>4 7.8ʾ
6 .67ʾ1.-. 55>.ʾ .<ʾ6,4-.1' <;Iʾ .55.ʾ 'ʾ 7.<>4.ʾ6,<

7,V.<6ʾ6.ʾ6.<7ʾ '1 / E.ʾ?,41ʾ 'ʾ5 0.17.Rʾ34 <0.ʾQ,416ʾ
?. <.ʾ6 E7' .<7ʾ ;,45.6ʾ>'<6ʾ;.77.ʾE.1 / .<7'7 ,<ʾ6'ʾ
547' 1=ʾ5, 16=4 4<ʾ 5'<ʾ>4ʾ?'71 ,7 6> .ʾE1'7 ' 6ʾ.,<ʾ
6, / / '>'<6ʾ4<.ʾ6. .ʾ<4 7ʾ? <6ʾ>.ʾ6';1 E ;.6ʾ= ,<ʾ
' '41' 7ʾ?'ʾ .<ʾ.6?.1.1ʾ .<ʾ> @ʾ6 .;5.6ʾ8>.ʾ5'ʾ / '1,:.ʾ
& 1,J1.66 -.ʾ>.6ʾ54 / .1.6ʾ.7ʾ>.ʾ5'ʾ?.1E.;7 0 5 7.ʾ7'1ʾ
5 -.ʾ>.ʾ5'ʾ1' 6,<% .?4 6ʾ;.77.ʾ / . / ,1'05.ʾ ?,='.8ʾ
,47ʾ6 .67ʾ '?5'<ʾ6,46ʾ-,6ʾ?']% .6ʾJ1'<>.6ʾ-.1 7 6ʾ
$.;,<<4.68ʾ5.6ʾ>1, 76ʾ>.ʾ'ʾ:, / / .ʾ;,<6';1.6ʾ<.ʾ-,46ʾ
/ 7ʾ?.1 / 6ʾ>.% / .771.ʾ ʾ-,6ʾ;. / 0 <' 6,<6ʾ?,5 7 =4.6

> '471.6ʾ0,1<.6ʾ=4.ʾ ;.55.6ʾ <> =4..6ʾ?'1ʾ5.ʾ>.6 1ʾ
/ / .ʾ>.ʾ5'ʾ?.1E.;7 ,<% ,46ʾ'-.0ʾ.<;,1.ʾ.?1,4-.ʾ>.6ʾ
1.6 67'<;.68ʾ / ' 6ʾ6ʾ .55.6ʾ ,<7ʾ?4ʾ1'5.<5 1ʾ-,71.ʾ / '1ʾ
;:.8ʾ,4ʾ=4.5=4.E, 6ʾ71,?ʾ- -. / .<7ʾ.@; 7.1ʾ5.ʾ>. ?5, ;ʾ
/ .<7ʾ>.ʾ-,71.ʾ.<.1J .8ʾ.55.6ʾ< ,<7ʾQ' / ' 6ʾ1.<>4ʾ-,6ʾ
64;;.6ʾ>,47.4@% : 67, 1.ʾ;,<6.1-.1'ʾ'-.;6;14?45;ʾ
5.6ʾ / , <>1.6ʾ>.7' 56ʾ>.ʾ;.77.ʾ;1 6.ʾ <7.1.66'<7.Iʾ.55.ʾ
>.;1 1'ʾ 5.ʾQ.4ʾ>.6ʾ?'66 ,<6ʾ>.ʾ 7,47ʾJ.<1.ʾ=4ʾ,<7ʾ
.Z.1;>ʾ5.41ʾ. / ?1.ʾ6415.6ʾ:, / <.6;7ʾ .41ʾ <E54.<;.ʾ
641ʾ5.6ʾ>-> . / .<76Iʾ.55.71'<6 / .771'ʾ5.6ʾ / ,7 E6ʾ;,<ʾ
<46ʾ.7ʾ>.-, 5 .1'ʾ5.6ʾ1.66,176ʾ6.;1.76ʾ>.6ʾ <; >.<76ʾ5.6
$?546ʾ1. / '1=4'05.6ʾ>'<6 ; .77.ʾ .?,= .ʾ6ʾ <6714;7 -.ʾ
?,41ʾ5.6ʾ<'7 ,<6ʾ .7ʾ?,41ʾ;.4@ʾ=4ʾ5.6ʾJ,4-.1<.<5Iʾ
.55.ʾ?. 4>1'ʾ' ;E5.6ʾ;,45.4,6ʾ=4ʾ5.41ʾ;,<- .<<.<7ʾ
.7ʾ5.6ʾE,17' 76<71,;.6ʾ=4.ʾ-,46ʾ'-.0ʾ>.7.67.68 .7ʾ;.6ʾ
71' 76ʾ6405 / . ʾ> 0>1, / .ʾ;7ʾ>.ʾ-.17?ʾ=4ʾ,<7ʾ;,<ʾ
6,5>ʾ-,68;, 416ʾ>7Q467 E .ʾ .6?.;.ʾ<4 / ' <.%
\ 5 ʾ<.ʾ<,46ʾ'??'17 .<7ʾ?'6ʾ>.ʾ?1.-.< / 5.6ʾQ4J.ʾ
/ .<76ʾ>.ʾ5'ʾ?,67.1 7.Iʾ / ' 6;.ʾ=4ʾ '41'ʾ>.6ʾ>1, 76ʾ
<;,1 7.67'05.6 ʾ6,<ʾ '??1,0'7 ,<ʾ8ʾ; .67ʾ 'ʾ / '1;:.ʾ
=4.ʾ-,46ʾ'-.06ʾ:'0 5. / .<7ʾ;,<>4 7.ʾ.7ʾ?1,5, J..8ʾ
. 71.ʾ5.6ʾ>. / , 7 ,<6ʾ 4;;. 6 -.6ʾ>.ʾE'<; .<ʾ>>E;.ʾ
.7ʾ5.6ʾ1.;,<6714;7 ,<6ʾJ1'>4.55.6ʾ>4ʾ=?4 .'4% #.55.ʾ
#,<E54 .ʾ6ʾ?14>.<7.ʾ'ʾ.ʾ6 .65ʾ?'6ʾ>. / #<7 .ʾ>'<6ʾ-,6ʾ
1.5'7 ,<6ʾ'-..5.ʾ71E5QQ.% 4ʾE1,<7 6? ;.ʾ>.ʾ5'ʾ;,<67 8ʾ
E47 ,<ʾ-,46ʾ'- ?0ʾ'77';:.ʾ =ʾ;,<6.1-'7 ,<ʾ>'ʾJ,<ʾ
-.1<. / . ʾ / ,<'1;: =4.% 'ʾ 1,V'47>8ʾ >.?4 6ʾ6ʾ
5,<J7. / ?6ʾ<'74 6..ʾ>'<6ʾ5.ʾ6,5ʾ>.ʾ5'ʾ H1'<;.ʾ.7ʾ
>'<6ʾ5.ʾ;;.41>.ʾ6.6ʾ:'0 7'<76Y 7' 7 >E7-.<4.ʾ?'1ʾ;.ʾ
>.;1.7ʾ4<.ʾ <67 747 ,<ʾ. ,Q<0 <>.ʾ ʾ;,<67 7 7 ,<<. RE.ʾ
/ .<7ʾ;B, 6 .ʾ?'1ʾ5'ʾ<'7 ,<ʾ?,41ʾ ʾ:0.17.ʾ.7ʾ?, / ?,<ʾ
0,<:.41Iʾ / ' 6ʾ5ʾE'5 ' 7ʾ <;,1.ʾ>.E< 1ʾ;.77.ʾE,<;7 ,<ʾ
?,5 7 =4.8ʾ.7ʾ'66 J<..ʾ'Wʾ1.?1. 6.<7'<7ʾ:.1.> 7' 1.ʾ 4ʾ
1ʾ?,17 ,<ʾ> '<7,1 7. =<.ʾ <E.1>7ʾJ.<.1'5ʾ;, / / '<>' 7ʾ
>.ʾ1. / .771.ʾ.<71.ʾ6.6 <' <6% 46=4 'ʾ;.ʾ=4.ʾ;.77.
$>> . J'7 ,<ʾ>.%?,4-, 16ʾEE 7ʾ';;, / ?5 . 8ʾ B 71.ʾ>.ʾ1,
>.6ʾH1'<;' 6ʾ<.ʾ?,4-' 7ʾ?'6ʾ.<;,1.ʾ .@?1 <.1ʾ >>.ʾ
>.ʾ7,46ʾ ʾ'771 0476ʾ>,<7ʾ;=ʾ5 71.ʾ '4J467.ʾ>.-' 7ʾ
>71.ʾ';;, / ?'J<>I / ' 6ʾ>.6ʾ5,16ʾ 5ʾ< .7' 7ʾ?'6ʾ>,4M
7.4@ʾ=4 ʾ;E 77E7 c J< 7.% / <.<7.>.ʾ7< 6 / ?,15'<7.6ʾ
E,<;7 ,<6ʾ<.ʾ>466.<7ʾ 7.ʾ'75';:.7.6% 7ʾ.7' 7ʾ;=467'<7ʾ
?'1ʾ-,6ʾ?1. / .16ʾ>>;1.56ʾ=4.ʾ5.ʾ1, 8ʾ;:.E64? / .ʾ
>4ʾ?,4-, 1ʾ.@>;47 EQ '41' 7ʾ.<;,E.8ʾ=4'<7ʾ'ʾ5'ʾE,1M
/ '7 ,<ʾ>.6ʾ5,Q 8ʾ5<.ʾ'47,1 7.ʾ;,<67 ,<<;55.ʾ>.6ʾ
7<..ʾ'ʾ5. / ?.1.1ʾ;.55.ʾ>4ʾ..1?6ʾ5.J 65?7 Eʾ?'1ʾ4<.ʾ
646?.<6 ,<ʾ=4ʾ?E57>,<<.1ʾ'ʾ5'ʾ-,5,<7 ʾ? OE = / ʾ5.ʾ
7. / ?6ʾ>.6.ʾE,1 / .1ʾ.7>.6.ʾ ! ʾ 'Eʾ1 J<.418ʾ
;.6ʾ;, / 0 <' 6,<6ʾ'41' 7ʾ ʾ<Zʾ?'6ʾ6 '??B=4.1ʾ'4ʾ
?,1?6ʾ;,<67 74'<7ʾ>=<7ʾ.55.6ʾ 7' .<7ʾ ,4-1'J.8ʾ.Eʾ
=< 8ʾ':7 1.41 'ʾ5.4 ʾ.1>'7 ,<8ʾ'41' 7ʾ ʾ5. / ' ʾ
71.ʾ ʾ< .<8 / ?,6.1ʾ .@. ;47 ,<8=4 '42 d5.J 65'741.6Iʾ
5ʾ6.Q<05' 7ʾ < / .ʾ=4.ʾ 7ʾ?5. < .@.1; ;.8>. -,6ʾ>1, 76ʾ
<.,<7.67'05.6ʾ>E 7 .5, J<.Qʾ;.77.ʾE, < 7 7'47ʾ>.ʾ-,6ʾ
>.;1.76 5.J 65'7 E6ʾ=4.ʾ>. V,6ʾ> ` 1.76ʾ;,<67 747 ,<ʾ
<.5E% ʾ $ʾ ʾ F
ʾ7,47.6ʾ;.6ʾ;,E 6 >.1'5 ,<6ʾ-,46ʾ'-.0ʾ,??,6.ʾ5.6ʾ
/ ,7 E6ʾ> 4<.ʾ?1,E,<>.ʾ6'J.66.8ʾ.78ʾ1'??1,;<'<7ʾ5.6ʾ
?1 <; ?.6ʾ>.ʾ5.41'??5QY'7 ,<ʾ' @ʾ; 1;,<67'<?.68ʾ-,46ʾ
7,?6ʾ 7.6ʾ71';>ʾ5'ʾ / '1;:.ʾ=4ʾ?,4-' 7ʾ7 <-.< 1ʾ5.ʾ
/ 7.4@ʾ'ʾ5'ʾ6 74'7 ,<ʾ>. ʾ'EE' 1.6ʾ.7ʾ 'ʾ5'ʾ> 6?,6 7 ,<ʾ
>.6ʾ.6?1 76%ʾB / ?,17' 7ʾ0.'4;,4?ʾ=4.ʾ5'ʾ1,V'47.8ʾ'ʾ
=4ʾ>7' .<7ʾ>.5>J4..6ʾ>.6ʾE=<; ,E56ʾ> ,<ʾ6ʾJ1'<>ʾ <ʾ
7.1>78 .ʾ?.1>Q7ʾ1 .<ʾ>'<6ʾ .6?1 7 >4ʾ?., ?5. >.ʾ;.ʾ
1.6?.;7ʾ.78ʾ>.ʾ;.7ʾ' / ,41%>,<7ʾ7ʾ .670,<ʾ=4.ʾ7,47.6ʾ
5.6ʾ?'17 .6ʾ>.ʾ5'ʾ;,<67 747 ,<ʾ6, 7ʾ <-.67 .6% ʾ / ʾ
?,17' 7ʾ'ʾ ,?<,<ʾ?40:=4.ʾ.5ʾ'ʾ ';;,1>ʾ>. 6ʾ-,5,<ʾ
7.6ʾ=4 'ʾ / ; 1.ʾ=4.ʾ-,46ʾ'-'<; ?0ʾ>'<ʾ-,6ʾ71'-'4@ʾ8ʾ
.7ʾ=4.ʾ-,46ʾ1.<;,<71 .0 ,??,6 7 ,<ʾ>.6ʾ?'66 ,<6ʾ<ʾ
.a ->4.55.68ʾ-,46ʾE4667.0ʾE,77 E>%6ʾQ '1ʾ41 . 4< ,<ʾ
>71, .ʾ.<71.ʾ-,46ʾ.7ʾ5.ʾ71E5<.8ʾ=4ʾ<.ʾ5' 66 7ʾ?'6ʾ'4@ʾ
/ >;,<7.<76ʾ .6?, 1ʾ>4<ʾ' 1 ,<71' 1.ʾ'%85'ʾ5, .7ʾ
> 7 <ʾ64.; 6ʾ?,66 05.ʾ>'<6ʾ5.41ʾ1>6 67'<;.8ʾ.7ʾ5,16=4;ʾ
5.6ʾ6<<. / 6ʾ>'ʾ0 .<ʾ?405 ;\'ʾJ 66'<7ʾ.<ʾ6.<6ʾ;,<

1' 1;8 / ' 6; ,<6? 1'<7 7,<6 .J'5; / .<7 ; ,<71.' ; .77.'
/ 1;46;' : '1 / ,< ;8 6,<7 .<E < ?'1-.<46 U 5" 4'
5 5.1 f 5,16;Q4 " E,1;.'> .<7,41.1 5.' / ,<'1=4.'>.'?.1'
5 75.6 ; ,<6. 6 ,<'>.' ; ,4?'05.6 7.11.416 56 54 ' ,7 7 '1'
1'; : .' ; .77.' E'7'5.'>. / '1; : .' =4 ' ?,4-' 7 '77 1.1 641
5" H1'<; .' 4<.' 5,<J4? 64 7.'>.' / '5: . 16 7 -, 76 "
64E 8 ?,41 5" 6'4-.18 >.'1.66' 6 1 <7. J1 7> >.' -,6'
>1, 76 8 .78 >'<6 4? '6 ' .@71' ,1> <' 1.88 -,46 '-.0
71,4-> '66.0 >.'1.66,<1; .6 >'<6 '47,1 5>=4 ' V,46
'??'17 .<5 .5 >'<6 5" ; ,<E '<; .'=4 -,46 <-1,1' .%
4.' >.' / '5: .416 < '-.0 -,46 ?' ' .- 7.6S =4.55.6
E,1; .6 < '-.0 -,46 ?'6 ' ; '4 6.6 ?'1 4<.' ; ,<>4 7. 6'
?1 >.<7.S ,46 54 ' >.-.05.%0 ,<: .41 > >71.' '11 ->.'
'4 7.11'.' , 5 7,47 .67 ' ; : .-.8 , 5 ; : .=4.'?,4-, 1-"
?1.<>1.' ?,41 7,4Q, E16 5" ?5' ; .' =4.' 4 ' '66 J<.'5"
; ,<67 747 ,<% ' 6,4-.1' <.7> <'7 ?<'5.8 =4 ' 6 .@'
?1 / .'?'1 -,71.'0, 4; : .R -"7.1 / <.1 ; .'J1'<> .->'
<.' .<7%?'1 5">.< '1; : .'5"%?546 Q467.8 5" ?546 ?@?5.%%
5" ?546 6,5.<<.55.8 =4 ' ' 7 Q' / ' 6 .4> .4 > 4<G?.4'
?5.' "4< 1, % .' 0,<<.'1 > 44 / , / .<7 6 5,<J#. / ?6
>>6 1.'>, 7E' 1.'>56Q [1'E71. " -,6V.4@ 5.6 E'7 J .6.7%
5.6 ?. <.6 > 4<.' ; '11 1. 5'0,17.46. / .<7 71' -.16>.
< ' 6 5>, E1>466 ' 1'??.5.1 " -,6 ; ,.416 <67'<7 ['
-,46 7E77.6 ; ,?E,=4 6 .7 1.4< ?,41 5" ?'1; ,41: ' 5 M
<.'6.1' 7 ?'6J><.1.4@ > ,405 .1 =4.'6 5.6 1.?1.6.< 8
>'<76 >.' 5" <'7 ,< E41.<7 1'66. / 05.68 ; .' E47 ?'1
-,.4 >.' ,4 6 " F G ' R ' G
.?4 6 4<6 .;5.' .7>. / '5.'>.6?>7 6 / .EE-' 7 1>4<'
7,<6 6.6 .EE,176 ?,41 ?5,<J.1 >'<6 >: 4 7>7.1<.55.'
Q46=4 '4 6,4-.< 1 >. ; .6 '<7 =4.6 '66. / 05 .68 , / '
01.6> / ?'15' 7.6 '5"1.?1.>.<7'7 ,< <'7 ,<'5.8 / ' 6
;<?'<5.6 >4 / , <6 >.' 1 -. 55.1 >'<6 5.' ; ,.41 >.6
H1'<; ' 65" ; ,<6; .<; .'>.'5.<16 >1, 76 .75.'6.<7 / .<7
>.'5.41 5 0.1 .% ,4 6 " -,46 " .,<-,=4>68 .5 6 5
< "?'6 ?48 5.J 65'7.41 ?1,- 6, E.8 1.<>1.'>.6 5,16 '4
?.4?5.' E1' [E7 6 <7.J1 7.' >.'6.6 >1, 76 8 5 " ?5' ; .'
>'<6 5" >,405.' 1.? E..<7'7 ,< >.6 ; , / / 4<.6 5.'
J.1 / .'E.; ,7 > > , ' ; .6>1, 76 <.'?,4-' .<7 ?'6 / '<'
= .1 >.'1.<' 71.% .< <,'?.7 7 .E7 ' ; .1 5.'6,4-.< 1 >.'
; .7 ' ; 7.' >.'Q4 ; . <6.?'1'05. / .<7 5 .' 7 5" / / , 1.'
>.'-,6 71'-'4@% G Y
.6 H' 7.6 >.6 1, 6 6,<7 5.'?546 6,4-.<7 " ; .4@ =4 '
5.6 ; ,<6; 55.<7 f 5.416 0,<<.6 ' ; 7 ,<6 ,<7 7'<7> ,0 '
67' ; 5.6 " -' <.67 =4 .55.6 5.41 Q\?'17 .<<.<7>,4 .'
1'.<7%37 / ?,17.'4@.6; 5'-.6>.6; ,416 5.'6'547>.6
?.,?5.6 .7 ; .54 ' >.6 1, 68 ?,41-4 =4 5 .@ 67.'4<
?,4-, 1 >,<7 56 ?4 66.<7 '046.1 .7 4< 71 6 1 &E,<7
56 E'66.<7 5.41 ?1, .' E, E7 / .<7 < '41' .<E, 56 ?'6
E1. / '>.' ,? < ,< ?405 =4.'Z ,4 6 " ' '5"
<'7 ,< .55. / / .' "1.J.< 1.1 6,< .@ 67.<; .% 34.'<.'
>.-' .<7 56 ?'6 7.<7.1 ; ,<71.' 7'05 66. / .<7> 4<
,1>1.'6.-.1.'=4 ' >.714 7 7'<7 > 4641?'7 ,<6 "5" E, 68 '
.7 1.<-.16.Q46=< " .6?, 1 >.'7.6 1.<,4-.5.1Z ,46
'-.0 V4 5.41 > ` .6?, 1 5,16= .' 5" 1,- >.<; .8 =4 '
-. 57.641 ; .7 . / ? 1.8 ">.Q,4.'5.416 / ' ; : <'7 ,<6 .7
1.<>4 "5" H1'<; .'5.' / ,<'1=4.' =4 56 '-' .<7 7.<7>
>.'6.?'1.1 > .55; % 56 E1. / 66.<7 >.' -, 1 '??1, ; : .1 '
<67'<7 05" ; ,<67 747 ,<8 '66 6.'641 5.6 0'6.6 >.'5"
-,5,<7.' '7 ,<'5.' .7>.' .<J'J. / .<7 6'.1> >4 / '
<'1=4.8 '41" 11>-, ; '05. / .<7 >, < ; 7 > >'<6 6.7
. / ? 1.'5" 5 0.17.' .7 .J'5 7.% ' .67 -.<4 5.' / , / .<78
, 5 -,46 '55.0 >. / 6 <%>.1 '4 1, ' >.6 H1'<; ' 6 & .<J'M
J. / .<7 5.' ?546 c. 1 . @ '5.' ?546 6,5; <<.5 >,<7 5.6
E , / / .6?4 66; B7 ?1.<>1.'5.' ; .5 "7> / , <% ' .67 ?.1 '
/ 6 >.' ?1>-, 18 5 7 6 7 6'7 6E' 6'<7 > .6?>1.1=4.' 6"
>.7.1 / <'7 ,< 6.1" ?1>; '4. .' > < 1.; 4. 55. / .<7
?1,E,<> .7 > 4<.' / .> 7'7 ,< ?1,?,17 ,<<..' " 5"
J1'<>.41 >.' : ' E; 1 E,<65'<=.% ,46 '-.0 >. ; 5'1.'5"
1,V' 7.G <>.?; <>'<7.f / '76 ,46 < '-.0 -,454 <'
?4 'EE1' ' ; : 1 >.' ; .77.' / / .<6.'1.6?,7 6'0 5 7.' / ,M
1'5.'=4 4 ' H, ' ; ,<7, ' ; 7. <-.16 6" ; ,<6; E.<; .8 6,<
6 ; ; 5.' .7 5" ?,67.1 .% .6 / , / .<76 6,<7 ?1. ; .4@8
64<6 >,47.8 =4'<> 5 6 'J 7 >.'E @.1 5.6 >.67 <6 > 4<

J1'<>'?.<?5.' .7>.'? -.< 15.6 'J 7'7 ,<6% "H1'4; '
; 7 / ,?.' .<7 .1.' '77.<>.<7 .< 646?.<6 5"1.?,<6&
=4.' -,46 6,55 . 7.0f / ' 6 ; .' =4.' 5" H1'<; .' .7 4'
1,?.' '77.<>.<7 6417,47 . c 1. ; .-1, : 7 ' -.; 1.6?.; 7
. .67 4<.'1.?,<6.' > ; 7. .' ?'1 4<.'1.E5.@ ,< / 1.' .
?'1 4<.' -,5,<7.' 5 01. 8 7.55. = S ; ,<- . 7 '4 1,'
> 4<.'<'7 . / '5 V'5.' .7 E1' ; .'>.'5">,<<.18 .7 "6.'
.?1.6.<7'<76 >.'5"1. ; .-, 1% % ' f
"H1'<; .' .7 41,?.' -, .<7 .< ,46 ; >6 / > / .'
: , / < 6 =4 ' > 66 ? 1.<7 ' -.; ' ,<.' <> J, '7 ,< J.<>'
1.46.'4? ; ' / ? >.'6,5>'76 1'66. / 05.6 ?1 6 >4 5 .4 '
56>. 5 0. 1'5.<7641 5'5 0>17> ?405 =4.%8 4.4< 5'<'
J.1 '<6 >,47.'< .E57 E' 7 ?><>51.1 5.'>. ; 7,41 . / .<'
>'<6 -,6 / .68 .78 E 01.6 '4 < .4 >4 ?>1 5Q ,46 <7
71.<E 01 .0%?'6 ?,41 ,<6 / / .6f / ' 6-,46 1.>,4
7 .08 ?,4E : ,<< >.'5" ; ,<67 747 ,<88 5" ?1.E@ / 4
& 4<.' '1 / >.% W .'>'<J.18 > 6 .0 -,46 '5,168 / .<' '
Q' 7 5.6 71'-'4"' =4 ' >7' .<7 -,71.' ?1. / .1 5.-, 1
; .6 71'-'4@ <.'?,4-' .<7 '-? 1 4< ?5. < 6 E; ; .68> &
-.1 7'05.'?.1 / '<.<; .8 =4 '47'<7 =4.'5. '?.4?5.65; '
1.J'1>.1' .<7 ; , / / .' . 7 >E.7: .<7 E 01.6%Y W
, Q, 16 E5>. .6 '4@ ?> / . ?<<; ?.6% -,4E6 E.'
'77. <>1.0 .<; ,1.' '4Q,41> 04 ' .6 <. / .6 6=; ; .6N #
=4.'-,461. ; 5' / .0 '5,168 -,465 .1>,<<.1.0 ' c,41 '
' : 4 ,46.4'15.1.0 >.6 >.5 0.1'7 ,<6 >4 71><.'7,4E
5.654Q.56 >.' / .E '<..=4.'-,46 '-.0 Q467. / .<7 1.Q.E'
5, < >.' -,46f ' <6 '5.' -.45 <7.1>7 >.'5" ; ,<67 74M
7 ,<8 ' <6 5.'-,4>1,<7 '-.; ' -,46 7,4 ' ; .4 ' =4 '>>'
6 1.<7 ->1 7'05. / .<7 5" >41. .' >.' -,6 >>; 1.56 .7 E'
J5, 1.' >4 ?.4?5.' '4=4.Q 56 6,<7 ; ,<6'; 1.6f] ' 5.6
.<<. / 6 >.' -,6 71'-'4@ ?,4-' .<7 .6?. 1.E>.' ?5' . . '
>'<6 5.' 6. < >.' 5" ; ,<67 747 ,< =4.5=4. J.1Q; <.'>W
>.6714; 7 ,< W7 >.' / ,17 =4 ' ?.1?>74>7 .416 . ?>1'<'
; .68 ; .' 6.1=Q7 .< ; : .1.<'<7 "1.?'<>1. >.6 <4'J.'
641 5" 5 0 [7 >,<7 5" >.5 0.1'7 ,<Q>4 1, ' .7 6,<' ; M
; .?7'7 ,< 6.1,<7 ' ; ; , / ?'J<..6% .6 ?1. ; '47 ,<S
'466 ' 1.6?. ; 74.46.6 =4 < ` ?.<6'07.6 ,EE.17.6 ' '
/ ,<'1=4.' ?,41 5">J< 7> .7 5" ; ,<6; B07 ,< >.'6
?.16,<<.8 56 6 .EE,1; .1,<7 >.' 5.6 ?1>6.<5.1 ; , / / 7
>.6 '57; =7'7 ` . ,<71EE 6,< <>??.<>'<; .f / ' 6 5.'?' '
71 ,7 6 / . 5' 1 '>.6 0,<6 ; 7,V.<6 0.'5' 66.1" ?'6 E'
? <65.J.1 ?1.7.@7.'> ; .' <6 <4'7 ,<6?.1E >.6% f
H1.76 ' / ,41 1?,41 5" 5, '=< 56 6.8J,< >.<<..'
56 .<'6641.1,<5 5"67'0 5 7.'?'1 5"5 0.17.'>.'6,< ' ; M
; .?7'7 ,<% '1 / . .8 5.6 J'1>.6 <'7 ,<'5.68 7,46 '
: '0 7'<76 >.' . / ? 1.8 '< 1<>6> '0 . [1.' .6?1Y7\6.<'
7 1,<7 =4.'6 5"?.16,<<.'>4 / ,<'1=4.' .685 >'<6 7,4N
5.6 7. / ?6 <- ,5'05.' .7 6'.1>.Q 6,4 <>.?.<>'<; .' . S
.<; .' / , / .<7 ?546 =4.='< ' #5; =QQ46 J1'<> .7 '
?546 ?1.66'<7 <7. 157 >.' 5" <'7 ,<8 E5 / ?,17. -'EE
7,47 =4.'5.'1, '6, 5 '6641.'>.' ; .77.' <>.?.<>'<; . 1'
/ ?,17.'=4 .55.'6, 7>- >.<7.' '4@ V.4@ .%14< -.16
.7 -,46 1.J'1>.1.b6'<6 >,47.' ; , / / .'5.6 / .64 6 5.'
?546 6'J.6 ; .55.6 =4 8 1.<>'<7 5.'1, '54 / > / .' '10 7<
>.6 ?1. ; '47 ,<6%= @ J.6'> 5. 4 '1' 1,<7 5
?546 ?1,?1.6 " 1.1'1.'6"5 0.17.' / '< E.67.' .7 <>40 M
7'05.8 .7 6 5 1.67' %J ; ,1.' =4.5=4.6 <=E5 >74>.6 '
; .4@ =4 ' ' / .<7 "6 '5'1 / .1 ?'1 4<.' .@; .66 -.'?G '
-,V'<; .8 <,46 5.<7 > 1 ,<6 =4 5 .67>.6 .-><.1'.<7S
=4 '4; 4<.6 ?1. ; '47 ,<6 <.' ?.4-.<7 . - 7.18G / ' '
'=4 5 .67 '466 '>.6?1. ; '47 '<6= 546 >'<J.1.46.6 =4
&Q&6 . -.<. / .<76f =4.'1 .?'1 .'?.47 '6641.1 " 5" <"
5 , < =4> 6, EE.?,6 1Q.'6.1"Q' / ' 6 71,405.8 / ' 6 = /
7,47 '6641.' " 4< J1'<> ?.4?5.8 4<.' E,56>.-.<4 Q
01.8 =4 '4; <.'E,1; ' <.'?. [7 ?546 54 ' >,<<.1 >.'
E.16% " <'7 ,< =4.'-,46 1.?1.6.47.0 ; ,<<' 7 =Q .0>
1 7 .6 >1, 76% ,46 '-.0 .< 6,< <? / '0'<< '7,<6 5.'
?1>Q4J.68 ?1, ; 5' / > 7,47.6 5.6 -.1 7.68 / 6 .< ' ; 7 , '
7,46 5.6 ?1 <[illegible] ?.6f 4<.'7.55.'<'7 ,< .67 '66.0 ?1>?' '
*Sf ?,41 5.6 ; 1; ,<67'<; .6 5.6 ?546 > EE ; 5.6% 34,S
=4 5 ?4 66.' '11 -.18 .55.' '41" 7,<Q 4 6 5" 1' 6,<
?,4E J4 >.' .7 5.' ; ,41'J.'?, ,18 '??4 % #.'< .65 ?'6
<67'<7>.'1.71' ; . G ; c.7.<>4.'>.'-,71.'?4 66'<; .N

',4-1'J.6' .7' ,0 66'<;.'> 4<' J1'<>'?.,?5.'.<'
6.<7'> '66.0'J5,1 .4@'5 / , <6I'.7;. / ; 5''?'1'571' .<7'
;<'>,47.18',4';: .1;: .1' .<7' '' 5'' ; , / ?1, / .771.8'=4'
-,46';,<6. 55.1' .<7'> .<>.-.5,??.1' ;'4<'46'J.'1 '
J,41.4@',4' 4<''??'1. 5' <47 5.%' ,<8' / .66 .4168',<'
<.1.E46.'?, <7'4<'71 <.,EE.17'?'1'5''<'7 ,<'E1' 3'6.8'
=4'<>',<'6'57'=4.5'?1 @' <.67 / 'O5.';.77.'<'7 ,<' '
54'<7.'.7'J.<>1.469'1.6.1-.''4'< ,<'1=4.'=4S'1.6?.;M
7.16'54 / > / .'.7'=4'E.1''1.6?.;7.1'5.6'5, 6%'& ''6'55.'
1.7.<7 7'> '??'4> 66. / ;<76%P' ,46'-,46'?1,?,6,<6'
5.'>>;1.7'64 -'<7N

W' 17%' G%' '6.1''4, / / .' 4<.'>.?47'7 ,<'?,41'?1.6.<M
7.1' ';7.';,<6 747 ,<<.5' '' ';;.?7'7 ,<'>4'1,%
$' %' .'1, '6.1''?1 .'>.'>,<<.1'7,46'5.6',1>1.6'=4 5'Q4'
J.1'' ;,<-.<'0 .'? ['6'' J'1>.' .7'?,41'5''>J<7.'>.'6''
?.16,<'.%
W' %' '5.'1, '6.'1.<>''4'-.4'>.6'H1'< '6'.<'>,??<7'
';7.';,<6 747 ,<<.58' 5'6.1'' ?1 .'> <> =4.1'5.'Q,41' .7'>.'
1.J5.1'5.6'E,1/ .6'>'<6'5.6=4.55.6' 5'?1,<,<;.1''E,1/ .55.'
3',78' .<'?1.6.<;.'>.' 66. / 0 ..'<'5 ,<'5.8' ';;.?5'7 ,<'
>.'5''1,V'47.';,<67 7'7 ,<4.55.8' .7' .<J'J. / .<7'> .<'1. / '
4 .'5.6'E,<; ,<6%' +

66. / 07..',1>,<<.' / ?1.66 ,<'>4'1'??,17'>.'
%'K.'4 / .70%'

'1 'N' .'>>6 1.1' 6'0.'4#,4?'=4.8'6'5.'>.'
;1.7'?1.6.<7.'' 66. / 05..'>, 7'>71.''>,?7.'?'1'.55.8'
.5'Q.'>>6 1.'=4 5' 5.' 6, 78' 5' 5.'E#57' >.' 5'' / '< .1.'
J1'<>.8'<,05.'.7'J < 1.46.%%%

' E .'#, / 7<.'5''5 67.'; - 5.%

8' 'I' .'-,4>1' 6' .- 7.1'7,45.'> 6;466 ,<'
67 1'4<'?, <7'>,<7'?.47 >71.'>.?.<>8'Q.'<.'> 6'?'6'5''
?' @'>.'5'' H1'<;.8' / '6' ;.55.'>.' 41,?.%' .%'>.'
/ '<>.'=4.' ,<' ' 55.''40'-, @'641'5''?1,?,6 7 ,<'>4'
;, / 7.'6'<6'.<7.<>1.''4.4<.'> 6;466 , '&' .6' / 41'
/ 41.6'>7,4EE.<7'5.6''??5'4> 66. / .<76%P

' # 'N' .5 0>1,<6'E1, >. / .<7%'& <'?G'
?5'4> 7%P' 66.< 05>.' / .<7.<>%%%%' .'>. / '<>.'=4.'
;.54'=4''5''?'1,5.'5''?1.<<.%

'(' / ' ,46'6, / / .6>?<;.<E <''11 -.6'
''5''E <'>.'<,71.'5,<J4.' .7'?.< 05.';'11 >1.$ '?.'
<,46'1.67.'?546'=4 4<'>.-, 1''1. / ?5 1'.<-.16'<,71.'
?'V6N'. .67'>.'54'J'1'47 1'5''67'0 5 7.'>.'5'';,<67 74M
7 ,<'=4.'<,46'54'?1.6.<7,<6I'?,41'=4 .55.'.@ 67.8' 5'
<.'E'47'=4 41 .'6.45.';,<> 7 ,<N . .67'=4.'5''<'7 ,<'
5.'-.4 55.% 45' ;, / / .'.'< '' 5.'>1, 7'<'> '11.7.15.'
;,416'>.'6.6'>.67 <>.68' <'>.'#,<71.> 1.'5''-,5,<7>'
64?1> / .%' .6,17>.'5'';,<67 747 ,<'.67'>,<.' <>>?.<'
>'<7'>.'5''-,5,<7>'>Y ,4 6'' %'#.'?1 <; ?.''>.Q''
.7.'1.;,<<4' :'47. / .<7'>'<6' ;.77.' 66. / 05..%' #.'
< .67'?, <7''66.0I' 5'E'47' .<;,1.'V' ;1, 1.'6 <;.1.'
/ .<7'.7' ,06.1-.1''-.;'E>.5 7V%' .'<.'>,47.'?'6'=4.'
,4 6'' '<.' ';;.?7.''-.;'71'<6?,17%' .'?,4-, 1'
.@>;47'E 7,47'.<7 .18''6641.';, / / .'4<'?'71 / , <.'>'
54' .7'' 6'' 1';. I'5.'>1, 7'> '11>7.1'5.6' ,?.1'7 ,<6'
>.'?546 .416' 66.7<05..6'<'7 ,<'5.6';,<6>.47 -.6I'5''
E'; 57.'>.'5.6'> 1 J.1?'1'5''?1,?,6 7 ,<'>.6'5, 6'=4 5'
?.471.Q.7.18'5,16=4 .55.6'6.<7' [57.68'?'1' <E54.<;.'
>.'6.6' / < 671.6''>/ 6''4'6. <'>4' ;,1?6'5.J 65'7 EI'
4<'. / ?1.''06,54'641'7,46'5.6' ;,1?6' '> / < 671'7 E6'
>.-.<46'6.6''J.<76N'5.'?,4-, 1'>.'1. J5. '5.6' 7>1>76'
;7'5.6'1'??,176'>.'5''4'7 ,<''-.;'5.6'<'7 ,<6'. 71'<J '
1.6I'>.6' '1 / >.6' <<, / 01'05.6'>,<7' 5' > 6?,6.I' .'
71. 6,1'?405 ;8'J1,66S'>.'7,46'5.6'>, / '<.6'<'7 ,<''4@8'
1.4<'.<'6.6' / ' <6%%'& '6 .5E.-.>.' - ,5.<76' / 41 / 4'
1.6%P#.W.'6.<7'?'6'5''>.6';'5, / < .68'. .67'5';,<67 '
7 7 ,7HI'U ' / 55 ,<6'>.67 <.6'' 6,<'.<71.7 .<' .7''6.6'
?5' 6 16'?.16,<<.56I'7,47' / '<<,<;.'=4 5' < .@ 67.'
?, <7'>'<6' 7'7'>.'?,4-, 1'=4'<.'6 >.5 ?6.'>.-'<7'
5.'6 .<I'7,47' / .'?1,4-.'=4.'<,46'<'-,<6'1 .<' <>G'
J5 J.'?,41'1.<>1.'5''#,<67 747 ,<'J1'>'O5.''6.6V.4@%'
#.?.<>'<78';, / / .' 5' .67'=4.5=4.E, 6'>'<6'5.';'1';'
7.1.'>.6' / ,<'1=4.6'> .71.' / , <6'..<6 05.6''40''-'<

7'J.6'=4 56',47';=4 6'=4 '';.<@'=4 56';1, .<7''-, 1'
?. >46I';, / / .'5.'?'66.'?.<7'<,46' <6? 1.1'=4.5=4.'
>.E '<;.'?,41' '-.< 18' ;.' < .67'?.47 >71.'?'6'6'<6'
1' 6,<'=4.'<,46'<,46',;;4?,<6'>.'5'' / '< .1.'>.'54'
?1.6.<7.1'5'';,<67 747 ,<%' # .655''6'<6'>,47.'5.' / ,7E'
=4' ''>.7.1 / <.'5.';, / 7.' 7'-,46'?1.6.<7.18';, / / .'
5.'64Q.7'> 4<'?1,05. / .8' 4<.';:,6.'6'6 / ?5.''7'?1.M
/ .1';,4?'> / 5%' ,41' / , 8'Q.'5.'1.6,46'E'; 5. / .<7'
?'1'5.6'?1. / .1.6'<,7 ,<6'>.'5''?14>.<;.'.7'>4'0,<'
6.<6%' ,47'>.5'' >'<6' ;.' J.<1.' <.'6.1' 7' 0,<'=4''
?1,5,<J.1'>.'E4<.67.6''J 7'7 ,<68'' <,411 1'>.';,4'
?'05.6'.6?.1'<;.6'.5''6.;,<>.1' _5.'6 < 671.6'?1,Q.76%'
.';1, 6'>,<.'=4.'; .65'' '1 6'=4 5'E'47'?1.6.<7.1'5''
;,<67 747 ,<'' ,4 6'' 8.7%=4 5'>, 7'6 .@?5 =4.1'641'
;.7' ,0Q.7'>'<6'5.'?546' ; ,417' .6?';.'>.'7. / ?6'?,66M
05.%' '<.'-, 6''4.4<.'1' 6,<8' <> / .'6?. . .46.8'=4'
?4 66.'Q467 7 .1'5''?1,?,6 7 ,<'>.'5.'E' 1.'?'17 1'?,41'
5''54'?1.6.<7.1'' 55.416%' .'<.';, / ?1.<>6'?'6' / . / .'
5.' / ,7'>.'5 0.17.' ,4'>.' ;,<71' <7.''??5 =4>' 7';.77.'
; 1;,<67'<;.%' .<.;,<;, 6?'6;, / / .<55 '';;.?7'7 ,<'
>.' ,4 6'' '?,411' 7 71.'64??,6..''-, 1'.7;'E,1;..I'
;'1'5''?1.6.<7'7 ,<'>.'5'' ;,<67 747 ,<'?,411' 7' 1.'
71'>4 7.'.<';.6' / ,76N'$' ''<'7 ,<'-,46',E 1.' .'71,<.'
5.'?546'?4 66'<7'>.' 4< -.16I'-, ;'5.'5 71.'=4'-,46'
V' '??.55.I'-,45.0 -,46' ';;.?7.1'Z Y 7'5''1.?,<6.'
<.'?.47 >71.'=4.';.55. ; N' $' .'5.'-.4@8'$' ,4N'$' .'
<.' .'-.4@'?'6%Y
1'=4'?,411' 7' / 'J <.1'=4.' ,4 6'' E'<.'6.1' 7'
?'6'5 01.'>.'>1.'N .'<.'-.4@'?'6' '1, '>.6'H1' '
J' 6Z' 34.55.'1' 6,<'>.'64??,6.1'=4.'5.'?.,?5.'E.1' 7'
- ,5.<;.' '' 4<' :, / / .'?,41'5.'E,1;.1''>71.'1, 8',<

=4 '4' / 5 .4'>.'5''J'1>.''
7,V.<6'=4' .<- 1,<<.<5Z' .6.1' 7 5'?546'>'<6'4<.'
'471.'?'17 .'>.'5''H1'<;.8'64-'<,6'E1,<7 .1.6',4'>'<6'
4<'1,V'4 / .'>71'<J.18,4'?547>7'6'' 55.416' 5'6.'71,4'
-' 7' .<7,41.'> :, / / .6'.<<. / 6'>.'5'' 1.-,547 ,<'Z'
.67 ;.' ?'6' '5,16' =4.' ,<' ?,411' 7'E. <>1.''-.;'
?546'>.' -1' 6. / 05'<;.'=4.' 6'' 1.6,547 ,<'<'41' 7'
?'6'.7.'5 01.'Z' '6'=4.'6 J< E . 7';.6' 0 0'11.6'6;14'
?45.66415''5 0.17>'>.' ';;.?7'7 ,<'>4<.';,41,7<.Z'%'
.67'5.'6' <78' .67'5'' 6E 1.7.'>.' 5'' <'7 ,<'=4'>, 7'
>71.'6.45.';,<6457. .%' 1'<,46 ?.11'.7 .55.'>.'> 6 1.1'
=<.' ,4 6'' '6 > , J<.'>'<6';.' / , / .<7Z' -.0 -,46'
>.6'J'1'<76'?546';.17' <6'>.'6.6'> 6?,6 7 ,<6'?.16,<'
<.55.6%>.';.5 .6'>.6' ; , / / .6'=4' .<7,41.<78'=4''
-'<E' E7'C' Q4 <'>.1< .1Z' #.6'1'66. / 05. / .<76'646M
?.;76'>,<7'-,46'> .6'5.6'7> / , <68' ;.'?5'<'>.'5' 66.1'
'E1,<7 .1.6'>>J'1 .68'>.'>.6'1 / .1'5.6'; 7,V.<68'
>;'6. / .1'?'17,47'5.'71,405.'.7'5''> - 6 ,<8'5.6' / .<'M
;.6'>.' '.<<. / 6' .@7>1 .4168'5.6' / '<,.4-1.6'>;'
- 6'.<<. / 6' <5.1 .4168'5.41';,'5 7 ,<''-.;'5.6'E'4@'
' / 6'>.'5'';,<67 747 ,<'=4' 5.-.<7' ,4-.17. / .<7' .'
/ '6=4.8'7,47' ;.5''-,46' <- 7. 7 5' ' 1.67.1'>'<6'5''
?1,E,<>.'6>;41 7>' '-,46''-.O'?'14'?5,<J.6'Q46=4 ''
;.' / , / .<7Z' ,45.0 -,46'-,46'.@?,6.1''4'1.?1,,0.'
7E'-, 1>7>'5.6''47.416'>.'5'' / <.'>.'-,71.'?'V6'Z' .'
>'<J.1EE57 5' / , <6'1.. '=4 5'<.'5.'?'1' 78 '4' / , <6'
5''<'7 ,<' 5.';1' <7N'5.6''- 68'5.6' 7 1.66.6'=4'-,46'
6.<7'.<-,V>6'>.'7,47.6'5.6'?'17 .6'>.' 7'7'-,46'5.'
?1, -.<7%' 7G< .67 ;.'?, <7''66.0>.'<.'?'6';, <?1,'
/ .771.'>-.>. / / '<7'5.'6' <7'>>'5'' <'7 ,<'Z' 'E'47'
1.6?.;7.1'Q46=4 '' 6.6''5'7 / .68' 5'E'47'<,46'1'6641.1'
<,46 / > / .6' ;,<71.' 4<' '471. >'<J.1' =4' < .67'
?, <7' >,47.4@%' 'E'4E' ,46'?1> / 4< 1';,<71.'7,46'
5.6'?>J.6'=4'?.4-.<7'<,46'>71.'7.<>46'8' ;,<71.' '
7,47.6' 5.6' <71 J4.6'=4' ?.4-.<7''<,46' ,06.>.1'
>'<6';.' / , / .<7';1 7=4>'>.'5''1.-,547 ,<%' 'E'47'5.6'
>.;,<;.17.-'7,47.6'.<'>5.-'<7'>.6';.' / , / .<7' .<71.'
> .6' .7'<,46'4<.'0'11 .1. <641 / ,<7'05.8'.<'>7'<7'
'4@'.<<. / 6'>.'5''5 0>7.'7,47.'.6?.1'<;.'> .<7' / .1'
.<;,1.'4<.'E, 6'<,71.';,<67 747 ,<%' <'>, 7'>71.';,'

1. / 05 .'>. ; >.'&? .']><<, /'6.1" 3 '>4'>>;1.71.<>4'641' ' 5" ?1, ?, 6 7 ,<'>.' ! ,4<\ 5; '4%
+' % 6,< 6,4 / .7 5'5" >>5 0 1'7 ,<'5" 64 7.'>4' ?1, 0.7 >.'>. ;1.7 >.6 ; , / 7.6 >.6 >, / ' <.68 >.' / '1 <.8 > 'J1 ;4 ' 741.8 >.6E 4'4; .68 .7;88 1.5'7 E ' ' '>/ < 671'7 ,0' E,1.6G .1.%
.6 '17 ;5. '64 -'<76 [<7 >>;1.7 6N

/' 8

$ (' '&

$ 17% F% .6 J'1>.6 1 ` >.1,0 7 >'<6 5.' -, 6 <'J.'>.6 E,1>56 .5 71 'J.6 ; , E 6 7 5.41' J'1>.1' 5.'5 .4 >.'5.41' 1.6 % >;<;.' 6.1" <> =4.'?'1'5.' ; ,<6.1-'7.41' >.' '1 ,<> ;6.' / . 7%
' % 6 6.1,<7 7.<46 >.' E' 1.' >.6 - 6 5.6 ^,41<'5 1.6 >'<6 1.7.<>4.' >.'5.41' J'1>.8 ?,41' ?1>-.< 1' .7 ; ,<65' .1' 5.6 >.5 76 .7 1. ; ,<<' 71.'5.6 >. <=4'<56%
W % 6 >1.66.1,<7 0,41' ?'1' 0,41' >.6 ?1, ; .10'4J>.' 5,46 5.6 &5. 76 =4 5 1. ; , <' 71,<7%
$ % 6 6?. ; E5.1,<7 >'<6 5.416 ?1, ; -.10'4@ 5.' 0,41' >.'5" 1. ; ,<<' 66'<; .' .7 5.'5 .4 >4' >.5 78 5.6 ?.16, <.6 .7 5.' <, / 01.'>.6 >. <=4'<768 5,16=4 56 6.1,<7 ?'1-.<46 '5.6 ; ,<<' 71.8 .66.<; .' .7 5" J1,66.41' >.6 0, 6 ; ,4?>6 ,< =5. ' - 68 5.6 <6714 / .<768 -, 741.6 .7 '75.5'J.6 . / ?5,V.68 5" =4'5 .' .7 5.'<, / 01.'>.6 0.67 '4@ .< >95 78 .7 J.<>1'5. / .<7 7,45.6 5.6 ; 1; ,<65' ; .6 ?1, ?1.60 E' 1.' ; ,<<' 71.'5.6 >>5 76 .5 5.6 >. 5<=4'<76%
W % 6 64 -1,<7 5.6 0, 6 >.'> 5 7 >'<6 5.6 5 .<@ 90 56 '41,<7 7.'71'<6?,17.68 .7 5.6 / .771,<7 .< 6 =4.671.1' / ' 6 56<.'?,411,<76 <71,>4 1.' >'<6 5.6 '7.5 .168 0'7 / .<56 .7 ; ,416 '>0' ; .<5.68 =4 .< ?1.6.<; .'> 4< ,E5 ; .1' / 4< ; ?'5 ,< ?'1' '47,1 7.'>.'0467 ; .%
W 8 56 6.=4.671.1,<7 5.6 0.67 '4@ 71, -.6 .< >>5 71' ' <6' =4.'5.6 <6714 / .<768 -, 741.6 .7 '77.57 .6 >.6 >. <G =4'< 6%
$ % 566 J<.1,<7 5.416 ?1, ; .6 -.10'4@ .7 5.6 'E5 17<. 1<<7 >'<6 5.6 - <J7 =4'51.' 5 .41.6 ?'1'>.-'<7 5.' 04J.'>.' ?' @>4' ; '<7,<>.'5.41'>, / ; 5.8 .7 06,<>.7'47 ?'18>.-'<7 4< >.'6.6 '66.66.416%
W 555% ,16=4 4< ?1, ;06 -.10'5 >.'6>=4.671m '41" 95 ' E' 7 .< ?1.6.<; .'> 4< ,E5 ; .1' / 4< ; ?'58 5.> 7 ,E5 ; .1'V 6.1" >.<, / / .8 .5 5.' J'1>.' ?1.<>1" 6" 6 J<'741.' ' -'<7 'B1' / '7 ,<8 ' / , <6 =4.'5.> 7 ,E5 ; .1' <.' 6' ; .' ,4 4.' -.4 55.' 6 J<.1I' .7 '5,16 5 .< 6.1" E' 5 / .<7 ,<%
$ "% ,16=4 4< J'1>.' '41" 6' 6' >.6 0.67 '4@8 <67 / ' / .<768 -, 741.6 ,4' '75.5'J.68 5 5.6 / .771" ., ' 6 =4.671.' >'<6 5.' 5 .4 >.'5" 1.6 >.<; .' >4' 04J0 >.' ?' @I' .7 '466 7>7 '?1 6 1'EE 1 / '5 ,<>.' 6,< ?1. ; 6 -.10'58 5 .< 6.1" E' 7 4<.' .@?.> 7 ,<=4'>. / .41.1" .<71.5.6 / ' <6 >4' J1.EE .18 ?,41' .< . 1.'>,<<.' ; , / / 4< ; '7 ,< 0 ; .4@ =4'1.>' / .1,<7 5.6 ,00.76 6' 6 6%
W "8 .6 J'1>.g'41,<7 7 /'1.J 671.'=4'5.41'6.1" >.5 -1.' ?'1'5" ; ,<6.1-'7 ,< J.<.1'7.8 .7 =4 6 E01,<7; ,7.1' .7 ?'1'G ?0.1' 2' ; .'=4.' E.4 55.7 ?'1'5.' ?1.6 >.<7 >4' > 1. ;7, 1.' >.' 5.41'> 671 ;78 641'5.=4.5 56 71'<6;1 1,<7 1.J45 .1. <.<5 5.416 ?1, ;06 -.10'4@ ?'1' ,1>1.' >.' >'7.1' 56 6 J<.1,<7 ; .'=4.' 71'<6;1 ?7 ,< 8 .7 <6;1 1,47 .< / '1J.' >4' ?1, ; .6 -.10'5 5.' E,5 ' >.'6,< .<1.J 671. / .<7%
W " % 56 E.1,<7 ?'1-.4 1'5.416 ?1, ; 6 -.10'4@8 >#7 / .<7 ' 1 / .68 0 5.41' <6?. ;5.418 '4?546 7'1>'>'<6 5'04 7' <.' >.' 5.41' >'7.8 .7 <6;1 1,478 .< / '1J.'>.' 5" 71'<6;1 ?7 ,< 641'5.41'1.J 671.8 5" >'7.>.' '> 1 / '7 ,< .7 >.' .<-, %
W" % 56 ; ,<67'7.1,<7 1.J45 .1. / .<7 641'5.' / / .' 1.G J 671.8 5.6 ; .'05 6 ,< '101.6 '0'7746 ?'1 .6 -.<76 >'<6 >G 7.<>4.'>.'5.41' J'1>.8 .7 .< >,<<.1,<7 '- 6 0 5.41' <6?. ; ' 7.41% 56 -. 55.1,<7 0 5" ; ,<6.1-'7 ,< >.6>76 '101.68 ' <6' =4 0 ; .55.'>.'5,47 0, 6 J 6'<7 >'<6 5.6 E,1J768
' " % 56 '66 67.1,<78 0 7 ,47.'10=4 6 5 ,<8 5.6 ?1>?,606 >.'5" ; ,<6.1-'7 ,< >'<6 5.416 E,<;7 ,<68 ' <6' = .'5." ; , / ' / 66' 1.6 >.6 ; ,1?6 '> / < 671'7 E6 >'<6 5.6 - 6 5.6 =4 6 E. ' 1.<7 >'<6 5.6 E,1076I' 56 .@: 0.1,<7 5.41'1.J 671V .7 6 J<.G 1' ,<78 5,16=4 56 .< 6.1,<7 1.=4 68 5.6 ?17E;06 -.10'4@ =4' 6.1,<7 >1.66068 ,< > 1,<7 5" ; '46.'>.'5.41'1.E468
' " % < ; '6 >. / ?0; . / .<7 ?'1' / '5'> .8 5.J J'1>.6 .Y>,<<.1,<7 '- 6 0 <6?. ;7;41' '4 ?546 7'1>'>'<6 5.671, 6% 0,4168 ?,41' 5' 1.64??5 .1' 0 5.41' 6.1- ; .' ?'1' 5.6 J'1>.6 -, 6 <68 =4' 6.1,<7 7.<46 >.' 6.' ; ,<E,1 / .1' '4@ ,1>1.6 =4' 5.41'6.1,<7 >,<'>6 ?, 4'J.7 .E .

$ " % .6 J'1>.6 : .'?,411,<'6 '06.<7.1' >4' 5 .4 >.'5.41' 6.1- ; .' 6'<6<. ; .66 50 .5 6'<6 5" ?.1 / 66 ,<>; ' <6?. ;5;4-I' ; ;75.'?.1 / 66 ,<<.'?,411" 071.'>,<<0.8 '4'>.50 >.' < 7 0,4168 =4.'?'1'5.' ; ,<6.1-'7.41% ' 6.1" 64??599 '4'6.1- ; .' >.' '06.<7 ; , / / .' 5 .67 > 7 .< '17 ;5.'?1. ;>>.

/' %

$ ' ' (

W 17% SWr% .6 <6?. ;7.416 6.1,<7 7.<46 >.' 1>6 >.1' >'<6 5.6 > 671 ;76 , 5 56 .@.1; .1,<5 5.416 E,<;7 ,<68 '4' B.<=4' 5.41'6.7" <> =4>'?'1'5" ; ,<6.1-'7 ,< J.<01'5.%
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; '<7.1ʻ>'<6ʻ '1 / .8ʻ5.6ʻ .<ʻE 7ʻ.5, J<.1%ʻ .6ʻQ4 E6ʻ>. / '<ʻ
>.<7ʻ'4Q,41> 04 %>'<6ʻ4<.64??5 =4.ʻ'>1.66..ʻ0ʻ . / ?.1.418ʻ
> .71.ʻ> 6?.<6.6ʻ72Y..ʻ6.1- ; .8ʻ .7,EE1.<7ʻ ,<.ʻ ; ,<71 047 ,<ʻ
.@71',1><' 1.ʻ?,41ʻ.<7.< 15 .4%

%

.ʻ ʻ ʻ 9ʻ , : %ʻ +ʻ .ʻ?1<>E.ʻ 1,V'5ʻ .75.ʻ?1 <;.ʻ
,4 686,<E101.8ʻ 6,47ʻ?'17 6ʻ?,41ʻ5" 5>6ʻ.5.ʻ %ʻ .1, ʻV
.67ʻ'55V 5.ʻ50%ʻ ;ʻ5.<>. / ' <ʻ5.ʻ>4.ʻ> L ,1 ʻ"64 -ʻ %ʻ %
.ʻ ; ,5,<.5ʻ>.ʻ K 6; : ,16 [.1> .18ʻ =4ʻ .67ʻ.<; ,1.ʻ0ʻ .<<.8ʻ
6.ʻ1.<>1" '4?1V6ʻ>"1, ʻ0ʻ . 66%
<ʻ "E' 7ʻ?'17 1ʻ?,41ʻ5" 1466.ʻ %ʻ>.ʻ . / ?.5: ,E8ʻ; ,M
5,<.5ʻ>'15 55.1 48ʻ .0'1J>ʻ> 4 .ʻ ; , / / 66 ,<ʻ?'17 ;45 01.Iʻ
5ʻV ">.6ʻ?.16,<<.6ʻ=4ʻ?1.7.<>.<7ʻ=, . .ʻ .67ʻ1.5'7 -.ʻ0ʻ
ʻ<0 J%
<.ʻ?'17 .ʻ>.6ʻ;0.-'4@ʻ> '15 55.1 .ʻ=4ʻ6,<71.-.<46ʻ>.ʻ
5" 1466.ʻ "V7.ʻ1VE,1 / 0.8ʻ .7ʻ6.1" -.<>4.Iʻ ,<ʻ; ,<6.1-.ʻ5.ʻ
7.67.ʻʻ ; .77.ʻ ; 1; ,<67'<; .ʻE' 7ʻ<' 1.ʻ> - .16.6ʻ ; ,<Q.;741.6%
.6ʻ / '<, .4-1.6ʻ>.ʻ ,76>' / ' '41,<75 .4ʻ; , / / .ʻ0ʻ ,1> ʻ
<' 1.Iʻ5.6ʻ,1>1.6ʻ / 0 / .ʻ6,<7ʻ>00ʻ0ʻ>,<406ʻ?,41ʻ;.7 ,0Q.7%
<ʻ0.1 7ʻ=4.ʻ ' / 0'66'>.41ʻ741;'1.?'1 1">ʻ ;ʻ6,46ʻ?.<ʻ
>.ʻ7. / ?6%
.ʻ &ʻ ʻ 9ʻ ʻ +ʻ 4 - '<75.6ʻ '- 6ʻ=4ʻ6.ʻ
; ,<E1 / .47ʻ>.ʻ7,<7.ʻ?'178ʻ ,<<.ʻ>,47.ʻ?546ʻ=4 ʻ<V ' 7ʻ641ʻ
5.ʻ7'?6ʻ4<.ʻ'55 '<; .ʻ .<71.ʻ 471 ;E' .ʻ.75" 1466.8ʻ .7ʻ=4.ʻ
5" '@.ʻ<.ʻ6, 5ʻ <-70.ʻ0ʻV ' ; .0>.1% " ,5,J<.ʻ6.ʻ1'??1, ʻ
> .ʻ >.ʻ?546ʻ .<ʻ ?546ʻ >.ʻ1 471 ;0.8ʻ .7ʻ .<ʻJ0<01'5ʻ; .77.ʻ
>. / 01.?' 66'<; .ʻ ;0.1; : .0ʻ1.66.11.1ʻ7,<6ʻ5.6ʻ5 .<6ʻ=4

4< 66.<ʻ ' - ; ;5.6ʻ> - .16ʻ?1 <; .6ʻ> .5 41, ?.%ʻ ,47 <> =4.ʻ
=4 .55.ʻ ">.ʻJ1'<>6ʻ>.66. <6%ʻ <ʻ '6641.ʻ?,6 7 - . / .<7ʻ=4 .8ʻ
>'<6ʻ4<.ʻ>> 001'7 .<ʻ>4ʻ ; '0 <.78ʻ5ʻ "0 0ʻ106,54ʻ>.ʻ<.ʻ?546ʻ
'5E.1 / .1ʻ5.6ʻ0 .<6ʻ>.85 7'78ʻ / ' 6ʻ>.ʻ5.6ʻ - .<>1.Iʻ641ʻ=4, ʻ
,<ʻ ">. / '<>0ʻ4<ʻ>.- 6ʻ '4@ʻ> - .16.6ʻ '> / <671'7 ,<68ʻ.7ʻ
,<ʻ?107.<>ʻ=4.ʻ5" -'5.<1ʻ>.ʻ ; .6ʻ0 .<68ʻ>'<6ʻ5.6ʻ 7'76ʻ00ʻ
10> 7' 1.68ʻ6. / ,47.1" 0ʻ5'6,1' / .ʻ>.ʻ ʻ / 55 ,<6ʻ>.ʻE5, ʻ
1 <6%ʻ <ʻ6.ʻ1'??.55.=4;ʻ . / ?.1.41ʻ"E' 7ʻ> - .16ʻ . / ?14<76ʻ
>'<65.ʻ / , / .<7ʻ / 0 / .ʻ ,08ʻ601>.ʻ5" ?' @ʻ7106 ?1, .0' <.8ʻ
56ʻ<.ʻ?,4-' .<7ʻ?546ʻ>00ʻ0ʻ / 0 / .ʻ071.ʻ / ,7 -06ʻ?'1ʻ5.6ʻ0. ʻ
6, <6ʻ>.ʻ5" J4.11.% ,47ʻ6. / 05.ʻE'-,1 6.1ʻ5.6ʻ-4.6ʻ>.ʻ ; .ʻ
?1 <; .Iʻ5.6ʻ 41;6ʻ- .<<;47ʻ.<ʻJ1'<>ʻ<, / 01.ʻ54ʻ>. / '<>. ʻ
5" E' - .41ʻ>.ʻE' 1.ʻ>.6ʻ07'05566. / .< 6ʻ>'<6ʻ6.6ʻ 7'768ʻ .7ʻ ,<ʻ
>, 7ʻ' - , 1ʻ>00ʻ0ʻ '66 J<0ʻ 0ʻ4<ʻ; .17' <ʻ<, / 01.ʻ=4.5=4.6ʻ> 6M
71 ;76ʻ>'<6ʻ5.ʻ ; , / 70ʻ>.ʻ Kʻ;% .ʻ>4.ʻ>.ʻ ,>0<;ʻ - " 'Q,45.1ʻ
.<; ,1.ʻ4<ʻE5.41,<0ʻ; .77.ʻ ; ,41,4<.Nʻ5ʻ"E,1 / 05" 106,547 4<ʻ
>.ʻ;0>.1ʻ0ʻ6,<ʻJ.<>1.ʻ '1;0 >4;ʻ H.1> <'<>ʻ J,4-.1<;41ʻ
>.ʻ5" ,EE50'1> .8ʻ7,46ʻ6.6ʻ 7'768ʻ .<ʻ6.ʻ106.1-'<7ʻ6.45. / .<7ʻ
5" Q,4 66'<; .8 6" - .ʻ>41'<78ʻ> 4<ʻ 1.-.<4ʻ?1, ?, 7ʻ, <0ʻ0ʻ
6" > J< 7V8ʻ641ʻ=4, ʻ ,<ʻ1' ; ,<7.ʻ ' .;>,7.ʻ64 -'<5.% '<6ʻ
5" E' / .46.ʻ0'5' 5 .ʻ>.ʻ 1'J4.8ʻ5.ʻ?1 <;.ʻ001.> 7' 1.ʻ B.1ʻ
;45. . <'>78ʻ '4Q,41> 04ʻ>4.ʻ1 / <78ʻ .47ʻ5.ʻ / '55 .7 1ʻ
> 071.ʻ1.< .160ʻ>.ʻ; : .-'58ʻ.7ʻ< "?4ʻ0 1.ʻ107'05ʻ>.ʻ6.6ʻ05.6ʻ
641.6ʻ =4.ʻ?'1ʻ 4<.ʻ ;41.ʻ5,<J4.ʻ.7ʻ>,45,41.46.8ʻ=4ʻ6'<6ʻ
>,47.ʻ "?1 -0ʻ>.?4 6ʻ>.ʻ5" >,4; .41ʻ>'-, 1ʻ4<ʻ001 5 .1% .ʻ
J1'<>ʻ H1 01 ;8ʻ <6714 7ʻ>.ʻ ; .77. ; : '70ʻ>4ʻ ?1 <; .ʻ :010> ʻ
7' 1.8ʻ.5ʻ?10-,V'<7ʻ5.6ʻ64 7.6ʻ =4 . 5.ʻ?,411' 7ʻ' - , 18ʻ> 78ʻ
5,16=4 5ʻE<7ʻ=4.67 ,<ʻ>4ʻ / '<'J.ʻ>.ʻ5" ?1 <; .66.ʻ>.ʻ ,ʻ
>0 .' - .;ʻ .E 56ʻ>.ʻ 0, ?, >Nʻ W34E' ,1' :ʻQ' / ' 6ʻ?4ʻ?10ʻ
- , 1ʻ=4.ʻ5" 0'7' 55.ʻ>.ʻ 1'J4.ʻ>.-' 7ʻ?1, ;41.1ʻ05" / ' 6,<ʻ
> 471 ; : .5' ; ,<=,05.> 4<8>' . : 0ZYʻ 4ʻ1.67.8ʻ,< <.>,4 ,ʻ
?, <7ʻ=4.ʻ ; .77.ʻ ; .66 ,< < ' 75 .4Iʻ> 4<ʻ ;45.8ʻ?'1; .ʻ=4.ʻ5.ʻ
?1 <; .ʻ"5" ?546ʻ J1'<>.ʻ'EE.;7 ,<ʻ?,41ʻ5" ?1 4; .66.Iʻ> 4<ʻ
'471.8ʻ?'1; .ʻ =4.ʻ6,<0J.ʻ.7ʻ6.6ʻ < 1 / 70654ʻE,<7ʻ>06 1.1ʻ
5.ʻ1.?,68ʻ.7ʻ=4 5ʻ.67ʻ0 .<ʻ ' 6.ʻ>.ʻE@.1ʻ5.ʻ6,17ʻ>.ʻ6.6ʻ 7'76ʻ
.<; ,1.ʻ>41'<7ʻ6" - .Iʻ ; .?.<>'<75" ?54?'17ʻ>.6ʻJ'6;75.6ʻ'0ʻ
5. / '<>.6ʻ ,<7ʻ ,ʻ ,1> .ʻ>.ʻ>0 / .<7 1ʻ; .6ʻ014 76%

! %

ʻF ʻ ʻ) 4 ʻ +ʻ %ʻ5.ʻ; , / 7.ʻ>.ʻ '6.V8ʻ; , / "
/ '<>'<7.< #'7'5,J4.8ʻ"6 J< E0ʻ '4ʻ; ,<645ʻ>.ʻH1'<; .8ʻ10 ʻ
6 >'<7ʻ0 K'1;05,4.8ʻ ,1>1.ʻ>.ʻ6,17 1ʻ>.6ʻ1,V'4 / .6ʻ> 6ʻ
?'J, .% .>V ' ;E' . / .<7>.ʻJ1.<'> .165 " ; ,<>4 7Q776=4 '4@ʻ
E1,<7ʻ01.6ʻ>.ʻH1'<; .% #.ʻH1'< ' 6ʻ?'71 , .ʻ05' 7ʻ'; ;460ʻ> 'G
- , 1ʻ7.<4ʻ>.6ʻ ?1, ?,6ʻ <> 6;1.7.ʻ ; ,<71.ʻ5.ʻ J,4-.1<. / .<7ʻ
.6?'J<,58ʻ> ' - , 1ʻ?'15Vʻ' - '<7'J.46. / .<7ʻ>.ʻ5" 1V-,5<7 , "
E1'<I' 6.%%%%

B %

ʻ ʻ 3 ʻ ʻ 4 ʻ^ʻ ,46ʻ' - ,<6ʻ1.=4ʻ7,<6ʻ5.6ʻ>0 ʻ
5' 56ʻ>.6ʻ<VJ, ; '7 ,<6ʻ=4ʻ,<7ʻ .4ʻ5 .4ʻ.<71.ʻ5.ʻ;'0<.7ʻ>.ʻ
07.160,41Jʻ .7ʻ5.6ʻ / <671.6ʻ>.6ʻ?4 66'<; .6ʻ'55 0.6%ʻ ' 6ʻ
1 .< .<; ,1.ʻ<.ʻ<,46ʻ.67ʻ?'1-.<4ʻ>.6ʻ> 6?,6 7 ,<6ʻ?1,0'05.6ʻ
=4ʻ 6.ʻ?1.<<.<5ʻ>'<6ʻ5.6ʻ?1 <; ?'5.6ʻ; ,41 ʻ>.ʻ 41,?.8ʻ
.7ʻ=4ʻ6. / 05.<7ʻ'<<, <; .1ʻ <ʻ 6V670 / .ʻ<,4-.'4ʻ>'<6ʻ >=4 %
> 01.ʻ>. ; .6ʻ> - .16.6ʻ?4 66'<; .6% <ʻ<.ʻ?.47ʻ=4.ʻ6 J'1.1ʻ
.<ʻ ; ,<Q.;741.6ʻ =4'<>ʻ ,<ʻ - , 7ʻ5" / ' 6,<ʻ> 471 ;0.ʻ.7ʻE.ʻ
1, ʻ>.ʻH1466.ʻ6.ʻ1'??1, ; : .1ʻ .7ʻ6.ʻ / ,<71.1ʻ =4.5=4.ʻ ; ,<ʻ
E '<; .ʻ '4ʻ / 5 .<ʻ>.6.-V<. / . 76ʻ ʻ=, '7 .67.<7ʻ5.41ʻ
>VE ' <; .ʻ1 ; ?1,=4.8ʻ # .67ʻ>.ʻ <, 71.ʻ ; '0 <.7ʻ6417,47ʻ=4 5ʻ
6.1" ;41 .4@ʻ> ,06.11.1ʻ ; .77.ʻ .6?0..ʻ>.ʻ ?:V<, / 0<.% "
,5,J<.ʻ"6ʻ<6ʻ>,47.ʻ>.ʻJ1'<>.6ʻ1ʻ6 46ʻ>.ʻ6ʻV / ,<71.1ʻ'7M
7.<7ʻ- .% .1' 7 ; .ʻ?'1ʻ. 5.ʻ=4.ʻ5" 5 J4.ʻ <; ,4<4.ʻ-,4>1' 7ʻ
; , / / .<;V1ʻ6.671' - '4@Z

%

@ ʻ0 ʻ(ʻ ʻ8 ʻ ʻ ʻ 4 ʻ+ʻ' 'ʻ
'.<5.<>4ʻ' - .ʻ <> J<' 7 ,<8ʻ0ʻ / ,<ʻ?'66'J.ʻ0K.6'< <8ʻ'4@ʻ
; 'E.68ʻ '<@ʻ7'05.6ʻ> 047.68ʻ5.6ʻ?1, ?,6ʻ5.6ʻ ?0 6ʻ, / , .50ʻ
; ,<71.ʻ "10V0547 ,<IʻQ.ʻ5' ' ' ' >V<,<.06ʻ'4ʻ >V?'17. / .<76ʻ
0Q ' ' ʻE' 1.ʻ - 6.1ʻ / .6ʻ?'06. ?,E 6Iʻ5ʻ / "?'<7ʻ7106G

E'505.% 3.6, ; .16 / '< >?''@=4.0 ' -46/ ,<76. /0 '
/. 55.416?'71 ,5.6% .6'471.65 .4@ ,0c ' '?'6].'6, 7>.M
-,416 0 5" 0,<<.';'46.% .4 >.'7./?6 '-' 7 <5,<'11 - '
0 5" E1,<7 01.7 <.4E ,E ; .16 >4 10J /.<7> 4671'6 .8 0
=4 5" J'1>.' .<07' 7 , <E 0.8 -;<' .<'>.'>06.15.18 /'5J10
5.416 6.1/.<7 8 ?,41 6.'1.<>1.'0 ,1/6% < .<05' 7 <'
> J<08 .7 0.' / .< 64 6 1.66.<7'?'1 4<.' - 6 5.'71.6 6>-.1.8
';;,7<?'J<0.'>.?5007.6 >,<7 / ,<'?'71 ,5 6/.' /.'E'6' 7
64??,17.1 0<.1J '>.'0 . '0,<;,.41%%% ,47 ;.'?'V6 & ,'
1.<714 P<.';,<5 .<7 =4.'=4'71.';.<771;<7. >.4@ :4/ /.6
> <1'<5.1 .' '55./'4>0 .7 71.?7.'>1'J,<6% '?'1' 7 =4.' .6
0/ J '<76 ,47 E' 7>.6?'71 , .6 E1'< ' 68 .76415,47>4 ?'M
71 ,5 6/.8 4B?,171' 7 0 E' 16 ?.41% ''07> E,17 05,<<>'>.'
71, -.1 =4.' ,<;1' J ' 7 ,<.' <-'6 ,<% 34.7=4.6 ?;16,<'
<;6 1 ;5 .6 ,<7 =4 570 5" -55.I 5.'?1 <;. 0-.=4.8 =4' 5 '0 7.'
.<;,1.8 " .<-,V> 0 .4;5 07?5 6.6 . 076 .6 ?546 ?1.;; @%
'00.' >.' K.55;5'V " E' 5 71'<6?,17.1 0 ,5.41.'6,<71>6,1
.7 6.6 '1;. -.68 .7 5 '1.?4 .<>;5 '<J.'>.4@;'<,<6 .7>@
.'<,<< .16% ' V "?, <7>><J1'< 6 >'<6 ;.57.'?'17 ;I
7,46 6,<7 0 ,1/6 .7 5 .4@ -, 6 <6% < <>J,;'<7 "1.<'
;,<71> 0 K05.' .@ ?1?/ .1 ?1.6 >.<7.7 1, 6 ;,<6. 5 .16 >4
?'15./.<7>.' 0,<8 =4 '6 V1.<>' .<7N =4.5 1.<5,17' .'
?1<;.'>.' E,<50.55 '1> " ?'66> 0 ?1.<514 8 0 5" 7.5.'>.'
-<J7 ; <= ;'-'5 .16 .7>.'>@ 6.?7 ;.-'4@>.' /' <8 6'<6
-,1 .-0= .8 '-.;5.=4.5 5 07' 7 5 08 ;.'=4' " 6. /05> >1.'
>4<.'J1'<>.' <;,<-.<'<;.%

8 3 ' ' ' +' ' .67>,45,41.4@ ?,41 <,46 =4.8
>'<6 <,6 ;;'/?6 >.'5" 5 0.150% ,< ,5 ,05 J.'>.'6.'0467 '
D.1> '-, 1 ;0 .010 5" E>7.'>W 5" 5 0.1 .'&5.' ('04 55.5P8 .5
;67 ;.?.<>'<7 5.'6,17>.6 ?'51 ,7.6>.';.'?'V68 ;5 7.55.' .67
5.<7 <7.<7 ,<>'<6 ,<.' >1.66.' ,08 '?1>6 '-, 1 .@?1 /0
'-.'0<.1J .'5.4166.<7 /.<76 E1'7.1<.56 ?,41'5"<'7 ,<E1'<'
=' 6.% 6 6 0;1 .<7N -34, 5 <,46 6, /<.6 4 66.68 .7 5"
5 0.170 <,46 6.1' 7071'<J01.' .5559 .5;:7'55>H4167 '
9 7'4EE';:.15 554671.6 E,<>'7.416 >.' 5" 5 0.170 0.5107 '
=,;8 =4.57.<.'6.1' 7?'6 -,71.' <> J<'7 ,<8 6' -,46 .<7.<G
>.7 '>.6;.<>'<76 <,46 E' 1.'4< ;1 /.'>.'<,46 071.5 -106
0;.77.'0, .'?41.8 5.';'1';701.' .75.'?'17'J.'>.'5" -.1 4'\

'8 3 F '('C' 4 '+' ' '8 ' +' ,46
'-.7 <60108 /.66 ,4168 >'<6 -,71.'<DC 8 ?'J.'* U8 4<.'
?107.<>4.-01 7'05.' >1.66.'>.6 =4'71.'?'1, 66.6>.5' '4>%
.'<.'64 6 ?, <7>.'5" ;'67.' ?1 - 50J 0.'=4.' ,< " -,454 ;' '
5, /<.1 '>'<6 ;.7 0;1 78 '6 5" ,</ .' /G511 .8 =4.5
=4 .<6, 75 ,00.7% ,71.'E.4 77.' .67 . 7 /0.' ?'1/' <,46I
?.1/.7.0 =4.'0.'-,46 '-.17 66.'=4.' ,46 '-.08 6'<6 5.'6' '
-, 18 ';;4. 55'4< 5 0,55.%
.'<.'<71,1''?, <7.<> =0<7.'>.'?'71 ,5 6/.' ,4 >'1 6'
7,;1'5 .I 0.' <.'>.6;.<>1'' ?, <7 0 10E47.1 ' ?107.<>4.'
% >1.66.I 1,' 6 0.'>1' =4.'5'0467 ;' .67 '>/ <6 10.'>'<65.'
.'<7,<>.'K.1<.''-.' ?546 > /?'17 '5 50 =4. ?'17,47 ' 5'
5.416N =4 ;'7,46 .6 ; / /.6 6,<7 0J'4@ '4@ V.4@ >.' 5"
5, 8 ;.'=4' .67 5.' ?546 J1'<>'0 .<E' 7 > 4<.'5.J 65'7 ,<% "
?1,?1 070 >4 >.1< .1 ; 5,V.< .67 '466' -J,41.46. / .<7?1, '
70J0.'=4.' ;.55.'>4 ?1./ .1% < 6.45 .@. /?5.'>01,J'7, 1.'
05" 5 0.170 <> ->4.55.8 .7 <0; .66 708 6.5,< / , 8 ?'1 .6
;1;,<67'<;.68 <.'>, 7 ?'6 071.' /?47.'0;1 /.% ' <V "?'6
50 >.'=4, 'E' 1.'>07.67.1 ,<J,4-.1<. /.<7 =4'>' 55.41.'<.'
E.1/.' ' ;4< ';;06 0 =4 ;,<=4.'>. /'<>.'0467 ;.8 E'-.41
,<J10;.% .''=4.5 J,4-.1<. /.<7>0, / /.68 6,46 5.'>.58
= '6, 7 '66.0?'1E' 5 ?,41 ;,<5.,7.1 7,40,4168 0 ;:'=4.'
<67'<78 5" J0<01'5 70 ;. /?5.7.'>.6 ; 7 V.<65
% .'>, 6 '0,47.18 /.66 .4168 0;.'=4.'0.' -.<6>.'>1.'&0466 8
7. /.<7 ?'1;' = .0.';.<<' 6 .7 =4.'0 .67 /.' -,6?1 <;?.6
>.'5 0.170 .7> .J'5 70P8 =4.8 6,46 <,71.' J,4-.1<. / .<78
<,46 <.'6, / /.6 ?1 -06 <'>.'5 0.170 <'>.'0, <0.41I =4.'
<,46 <.?'V,<6<' /?,7 7.11 7,1 '58<' ;'?7'7 ,<8 <';:'1M
J.6=4.5;,<=4.6% #'10.'<.'=4'5 E .'?, <7> /?>75.6> /.6
=4.'>.6 ?'17 ;45 .16 ,<7 -.<>4.6 0 7'7 .<> 01.<76
7. /?6N ;.67 4<.'>.77.' 0J 7 /.I 0 .<>1''>.' /0/.'>.6
5,>6>,<7 4<.' /457 74>.'>.'E,<>66,<7 /0/.'7E1'<;0 68 .7;%
.?.<6.' .<'-, 1 >7 '66.0?,41 .;5' 1.1 >.6 0,41<'5 67.6
=4 8 ;, / /.'-,468 / .66 .4168 ' /.<7 0 1.6?.;7.15" -01 70
>'<6 5.6 ;5 ,6.68 .7 ;,<<.41 >'<6 5.6 ?.16,<<.6% .'64 6
5, <>0?,46.1 5.6 -'<6 ?1004J06 >.';.4@ =4'<,<7 0 5"
0,4;.'=4.'>.6 <, /6 <041 .4@ =4'<>' 56 ?'15.<7>.6 0 41'
<'4@8 ,0 6 .@.1;.'40,41> 04 8 6417,47.< H1'<;.8 4<.'
6,17.'>.' /'J 671'741.' '466'E'-,1'05.' '4@ 0,<6 J,4-.1<.G
/.<76 =4 '4@ 0,<<.6 /,.4168 .7;%

' ' ' ' +'C('

7 'G ' 3 ' '$ 3> A% ' ' '
!

,< >0?'17. /.<7 ?'1' 7 -,45, 1 ;,<6.1-.1 6.'5 ?,41'5"
?,65.1 50 4< 1@. /?,'>.' 07'7 > J<,1'<;.'.5 >.'E'<'7 6/.'
,5'5" H1'<;.'05' 7 ?5,<J0.'>'<6 =4.5=4.6 4<.6 >.'6.6 ?1,M
-<;.6 '-'<7 5" 1.-,547 ,<>.' ()*8 .7 >'<6 7,47.6 5.6 ?'1%
7.6 >.' . /?1.'0 >.6 0?,=4.6 ?546 1.;450.6% # .67 ;, / /.'
'.'6'<;54' 1.>.'7,47.6 5.6 >0;6 64?.167 5 .46.68 .5 5.1.?, '
6, 1 >.';.77.' <6,4; '<;.'=4 8 >.'7,46 5.6 7. /?68 " ?'14 6
;, / /,>.' '4 >.6?,7 6/.% 5.416 5.6 ?1071.6 <,<'66.1'
/.<7061.>,47.<75" ?.16.;47 ,<I ;';.'6,<75.6 ?1071.6 ;,<'
67 747 ,<<.56 =4'6,<7 ?.160; 706% .6 '<; .<6 ?'67.416 =4.'
5" ;,<67 747 ,< " >0?5';06 . /?5, .<5 5" 146.' .7 7,46 5.6 '1M
7E ;.6 >.'5" 64?.167 7 ,<?,41 ;0'66.1 10-0=4.' .7 5.6 / <6'
1.6 =4.'5.'?'71 ,5 6/.' " E' 7 05 1.% 5.416 5" E,1;.'?405 '
=4.'?1,50J.8 '4 <, /'>.'5"5, 8 5.6.;;5.6 '67 =4.6=4'< ,<7
?'6 ;14 ?,4-,51 ?105.1 5.'6.1 /.<7I ;'5" E,1;.'?405 =4;' "
0.6, < >.' >0?5,V.1 7,47.6 6.6 1.66,41;.6 ?,41 >.E.<>1.'
;,<71.'5.6 E41.416 >.'5" 0' <.8 ;.4@ /0/.6 =4.' 05.;7 ,<
?,?45'1.' " ?5';06 '4 <, /'>.'5"5,%
34.55.' " >,<.'0 0 5" 1'6,< ' ' ' ' & '
?,41 E5.1 0;.'>0?'17. /.<7>.4@ 10J /.<56 >.';'-'5.1 .';7
>.4@ 0'7' 55,<6> <E'<511 .Z # .67 ,5 .6?1 5 >.'5" ;,<67 M
747 ,< .67 5.' ?546 E' 05.' =4 5 E'47 ,??,6.1 4<.' ?546 E,17.'
1.6 67'<;.'0 6.6 .<<. / 6% ,46 '471.6 ?'51 ,7.6>.'5" .<
>0.'<,46 V6, / <.6 5.6 ?546 E' 05.6%%%%% .<'<, /01.'6;45.G
/.<78 .7 <,46 ;, /?5,<6 .<;,1.'641 4< ,5E ; .1 ?'71 ,7.=4'
;, / /'<>,';.% ' <,5E ; .1 J.<01'5 >'<65.'6.<6>.'5" 1.-,M
547 ,< -'47 ?546 .416 0'7' 55,<6I 0.' ;1' <6 0 .<=4.' ,<
<.<''7 5" ?1.4-.%

B ' 6, 0' ' " ' a 750K# "0'7 K%

' '8 A AG '

%#'1<,7>.'H.<5 <J &>.' ' <7 /.1P% + B'4>,4'158 %
?1.6 >.<7>4 71 04<'5 >.'K'?'4 / .% +' #'1<,75.0.4<.' &>.'
' <5 /.1P% j ' '55'17 &> 4@V 5. #:'7.'4P% + .55''
<,V &>.' '<5 / .1P% +'H1'<;, 6 &>.'K4<<.-55.P% + 4'
=4.6<, 8 ;457 -'7.41% +' .<6V8 0, / /.'>.'5,'&> 11'6P8
.704J.'>.'?' @% +'.'<K'170 &>.' ' <7 / .1P% + .E1'4;'
>.'#'5' 6%

' ' '

%>.' ,00.,<178 ?1.6 >.<7>4 71 04<'5 >.' 01,<<.%
+' . '48 > 00.-55.%)' .5'<<,%

+' 3$) ('-(" $"-(' +' *',$, ,$(*/-(' *,).$' */-(!'
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*(' (*('0(0('-% ($(./4(*'$ **(('-'. $/ +$"- *,'
+'4(*'$ */+4.(" ("4(.,("5 (('+'#+$,('/*(' ' ";4+"4 .'
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9,?$(7 ((''('36+.9(.+$,' (* ((,(4"-(' (- 3+,$ *' -('
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V +' 3$(,('-(" $"-(' +' *',$, ,$ */-(' $3! (U(*'+(/
*('.(,$.(.+'-(' +4 ',('+ 3 *'4+5 (,'5 $'*(' $,'+##.+*36$/
(,'(('+ .+' '$*'-+ .+* 6$.'<4"'$(*'' ('(23(4,('4. 0$' $!'
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-(" $"-(' +' *',$, ,$ *'-(' +.$'/'3+*,'+ 2 A+3)$*'
V' ''( ))('*+,$ *+ ('0$(*,'- +33 .-(.'+').+0(' *$"
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36(./'('-$',.$) (') +.$'/36(U +5,3 ./. (' +$*,!A+35 ('/

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*D' X' $,',. &.+'6'B:' R &'& .('f(' ('3 . * ((*,' '
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A+$ +/ *$ *'$(./ -+*"4 "- **('#& ('4) $5 (/ -(".(1 # (2$ *"(,' -("3 '($"' .' (' 36 $,' -(" 4(.' **("5*$'(',' $,(' - ((0(.'+' +'-$9*$,(' -(' ( ). ("- '3 .4" (9$' +,$#/ (,' ' .' ("5 +$,("5 $'- $0(*,'#$2(.' ("8(2'-("((3,(.'' (,,(' +,A(.((',' + ''$ (,(*- (' 5 (' *,-.(,'5 ((' $*'4$.(' (',' 4 $''+*,'(,' *$03.'(

'$(.'/ '(' 9(+*'-$9+("(,'3+4+) ("-D),(*$.'((,'6 *!' +(./ *(' -(+*-(*,'+' +*' .(4.-'(*,+*,' -(' +'*+,$ *'5*(' (" 4+"'$ *"5 $"'(*,(*,'(*' (2! ($('7 "* "4. (,,(*,' (' 4 .,.+$,'- *'-(4 ,(/ (,'$ "*(' * "- **(*,'5 (' (' (.
+ ,.('/' .'-(' (." ,+ (*," (,' -(' (.'# .3('/ .(''(!') (*,' + 2' # *-+,(." - '36.$',$+*$'*$(/ 5 $ *('36(.36+$(*,' -+*" (."+-(4,("5 ('# $ (,'5 +)*(9+,$ *'-(' ' $! ((' 8" *('0((*,/ ($/+''($./4+. $ (" -9$' +,(.'/5 (3("6 1 $*(") *"(,'+.-(*,'/ ,+*" 9((*,' (,' '+*"3.$,$5 (/ +'5 $ (" ,"-('0 '(,'-(' '*$*'4$.(*,'5 (' -("3 *!' , .'$ *'/'+*" (.+$''(.'+ 3 *(' $--('3 +$.(7' ' .'5 $ -("3.$" (,' (' ' *'-('5 (5 (" '8 +)(" ' *,' ,!4 $''+*,'/ (,'5 % *' (*,.+$*('+*"+0 $.')(' ,*'-(' ('3 *0+$*3.(

(' 6+$*('0$ (,('3(*,.(' +'3 . ' (*,.(' +*3$(*'.-9$ (/ 3(*,.(',(" ("3$!-(0+*,'4.$0$39$-'/ *(' ('( ) ('4+"' #!' #$.(' -+*" *' .(4.('(*,+*,' - '4 4 (' + ($$9(.+$"-+0+*,+9(' (',' - +) .-' *(' 36 '('5 $'(',',.$'!+$'('+('#3$*-.(7 3 (',' *' 0 $ (' ' " (5*(' *' 4(,'#+3$ ((*,'3 0.$.'-("$*$. $,$(" (,' -(" 0(*9(+*3(" 4+.,$3 $(.('7 (,' (*' ,.(/ *' 4(,/ (' 3. $'/ .+$' **+) ((*,'- ,(.'5 (' 3(2 5 $ '(' ' *,' (' 4 " .-4+*- '(*'$*0(3,$0("3(*,.(' (f',8.+*"#(-+ 2 -(' +' .+*3(' +4.(" (.' -(',. 3,$ *7 5 $ *,' +44 + -$ + 2 .$9*(."$ (!' 9+ ('/ + 2 ,.+9('/ + 2 (.,.4'/ - *,'5 (5 ("$*'(*'(" (*,'(,(' ("0$3,$ ('/ (,'5 $ *,'(*3 .+9(' +'4+.,$('4('(3 +$!' ' - '4(4$3' +' '(.'-(' .(4.('+$ ('/ '($(,'(*'(# (,'3(2 5 $ *,' (' $(2 '(*,2 $*(',$ +) (')$(*#+$,'-(' (9+ $,(/ '+*" +!' 5 (('$'* (',4 $*,'-(' ',$3(

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(' (9$' +,(.' *(' - $,'4+"( ).+''(.' *'/ -(2/ ,. $"4.$!' 3$4('' '#+ ,'5 $' (" '(*,(/ 5 $' ("3 **+$''(/ 5 $' (" (!').+''(', '' '#+ ,'5 $' (' .(' (" $ $,("4.(3$'("-(' , *'/ 4 $'5 ('3 (',' +' $ -('* " ("$*-$5 (./ 4 $'5 ('3 (',' $'5 (' * "36+.9(*"-(' *,.('+*"3(+'('+', ' ("3$, 8(*'/ 4+.' '(" -$'3 .'/ 4+.''(+'(2(4 ('/ '5 ('4 $*,'#2(' +'0 *,(' $*-$0$- ((- $,'' +..(,(.'(,''('4. ',(.*(.'-(0+*,' +' $

6+3 *' -$,,' (" .(4.('(*,+*, ' - '4(4 (' - $0(*,'(,.('$*1 -(4(*-+*,''@+$" (' ("0(2'(*,$(.3 (*,'$ -(%4(*-+*,'/3 (',!' 6!-$.(' * *!'(((*' -(" 9.,3(' (,' -('/3 .. 4,$ *"-(' +' 3 ./ +$"-(', ,('('4 3(' - $*# (*3('5 $*('('(.+$,'4+"3((' -(' +' ',$3(',(,' -(' +' .+$' *' /

+' # +,,(.$('('.+', ."+9(* $ -(' -(0+*,' ('4 0 $.'' 1 4.((' .('4 0 $.'' 4.((/ 6'(',!$' +$*,(*+*,'H ',!$'(*1 3 .(' -+*" (,' +$*"-(' (' +'3 .c' ('4(4 (' (' '(" 9('/ , "'(" +9$',.+ '/ '(" .(4.('(*,+*," ('' ' *' ' #.+9('5 ' -$'4(*'(' (") **(.'/ ('4 0 $./ +'.(* ((/ +'9 $.(' +'3 .' -$'4 '(' -(' 5 (5 (" (4 $" + 2Q< (" *'4+.0$(*,' 4+.'- + ,.("36($*'/ *')$(*'3(*,'- *,'((' (',''((' +!' ,.(''(' 4(0(*,' $'%-,.('+..+3)('/ 3 (' -(' # .3(/ 4+.' -(' *9"(,'(3 +,+*,"' 33("-+*" -("4 +3("4 4*$+$.(" +'3 .' +' -('4 " -(' +.9(*,/ (,' ,. 4' 4(*,!(,.(' +$"3(,' $*'#$ (' 9(*.(' -(' '(- 3,$ *' *'4(,' ,(*,(.'5 (' (' (" ("4 "0$!' ('7 +*' $('5 (' (" .(3 4(*'("5 $' *,' -+*" (" +$*"- ' 4(4 (/ .(,.+5+*,', ."-("$-((" -('9 $.(/ - ,$ $,(/ -(' .(3 **+$''+*3('4) $5 (/ # +,,(*,'(,'$..$,(*,' *' .9 ($'5 $/ -(''+' *+, .(/ (',3 *# . ('+' 6 **-,(,(/ (,''( ) (', ." +** *3(.'-(' ((0+,$ *'-+*" $ (' $*'$/ -+*" *' ,+,' $).(' +0(3' *'. $/ (" +,,(."-(' +'3 .''(. *,', ."-("6 !' (") (3,"(,'+ !-('' "-' (-$ 3.(7+' $('5 (' ("# +,!' ,(." - '4(4 (' '(. *,' -("684 3.$,("-('4+,.$,$' (' (,' -(' 0(. /' -("6 (" '+*"4.$*3$4("(,''+*" .+ (/ +$"' !' 0(*,'- (" - *'9(%*$('4 $''+*,/ (,'-('3(",+ (*,"5 $ ('+ !' ')$,$ *'-3 3' .3('.(*-', ." # *(',("+' +' ' 3$(3

(.*'+*+(("- 3 -.$(*3(' *,' 4+' *(0,' +44.(+-.('+0(' ' 5 (('#+3$$,-' *'#+%$,'(. $.(+' *'4(4 (' *('4(,$,('4+.,$(' -(' ,,$!'+- (/ (', '', ,'(*,$(.' *' $'4(.' +-('34$ *' (' 0(*9(' .'5 (*'*('0(*9('5 (' ' $' *' $'4+. ('-('+', ,(!' 4 $''+ 3(' .'+('.(*-.(', ,!4 $''+*,'4+.' $' *' $ -('$!' 9*('3 +'(**($"3(2'5 *'*+$ ('4+f (,' - *,' *'*(',' 4+"+$*$(7 (,' *'$*,(.(''('+'' 0(.+$*(,-'*+,$ *+ ('+ 2'5 (!' .(("(,'+ 2). $ (.$("-('3$*5' ''$2 + -+3$(2

*('0(.$,('$*3 *,(',+) (/ 3 (',' 5 (' (' -. $,' (,' ('-(0 $.' -("3$, 8("(',' -('' .0($ (.' ("# *3,$ *+$.("4) $3'' $' + .+$,' .'5 $''(',. 0(.+$,'-("6 ("+''(U'(#%. *,("4 .' ',$#$(.'4+.'3(' 4.$*3$4(' (" -(' .-.("6 ,(2 5 $ *,', .!' (*,-'(,'#+,$9 ('4 '$(."4. 0$*3("4 "(*3 .('5 (' +'3+1 4$,+ "' (" 3$, 8(*" *).(2/ (,'5 $'(',' $ 4 ''$) (' -(' 3. $.(' , " +$*,(*,$ **('/ 0$ (*,' ("+'$("- (',$5*('/ [.3(, (" 4.$' *"-(' +' $/ ,.+9(*,' (" +9$',.+,'/). !' (*,'-(" 4. 3(- .('!/ (++3(*,',(+' ,.$) *+ 2/ (,+44((*,' , ,'33$+' ' .0($ (.' ('# 3,$ **+$.("4) $3'/ *'$ +9$*(' *('+''( ) -(' *+,$ *+ (' 3 4 '((' -(' 4+.($"6 ('/ *' '(((*,' + '(' -('4 +$.(' ,' -('4+.($") ('7 (,' ('-(!' +*-('3('5 (' -(0$(*,' +' .+*3('c

(" ," ,+*,' .(4(,('/ - (+.+93.+ $ *$' '0 ''(1 . *,/ '$ *'0(*,/ *('(23 '('4 .' ("+ ,.("3$, 8(*'/ 4 .0 ' 5 (' *'3 *0$(**(' 5*%((' '(.+$,' $*+- $''$) ('4 .' *' .(1 4.('(*,+*,' -(' +'*+,$ *' \$' *(' '('(*,'4+" *('# .3('3+ (' (,' '+9(/ (,' '$' ' *'4+.$,$' ('*('(,'4+"-(' +'.+$' */!5 $'' (!' $9*(7 ('#+.-(+ '(',', 4' 4("+ ,'4 .' $
* "*(' +*5 (. *'/ (,'+ 3 *' ,+,'$).('*(' +*5*(.+' +1 +$"-) ("4+. (."(,'. '('/ , ."4.-," ' .(0($ (./ '4.(0(*$./ $ +,$'(.' ("4+''$ *"-('3(,,('3 +''('-('3$, 8(*" -3 *,(*,(' ('#+3$(' ' (9+.(./ 4+.3('5 ((' (',' 4+ 0.(' (,' $9* .+*,('$ $'#(. *,(*0$'+9(.),''++((+ 2' $"3 +' **'$*' 44 .,+) ('('-+0+9(' " $-%. *,'5 ('+'0 *,(' '(((',' +' $' "#+,,(. *,''+' $- '$(,. 4' *+, (('4+.'-("-(!' * *3$+ $ *"0+9 ("(,'+,. 3('' $3 *5 (.(6$'(.+-($ (36$.' -(0+*,' (2'(.+' # (,.$'4+.' (2 -(' -4$,66,(' +' 4 "# . $-+1) ('5 (' ("3+ *$+,(."-' ' (*,'+ . *,' $'('(*'0 9 (' (,+$,'+-$" + ' /' + *.- 6 $/ +.$+!' ' ' 0 ' 0 ' ' $"''+44((. *,' $* ((*,' ' G ' '0 0 / D'$ (."0$ (*3(" (,' (."$* ',$3("+,$.(*,'' .' (2' +*$ +-0(.'$ *'-(" $'/ $"3 4$(. *,' (' +*9+9('-('3('0$' (*'/ (') ,(!#('-(' *' .(4*,,$5 ('- ,6(*('/ 5 $/ -+*" *('3 --$('+*,$5 (/ (',' .(4.-'(*,-' -$'+*,'+ '4(4 (' (' & A('' #%. '4 .', $7 *' (')+$,'4+.3('5 (' (' ,%+$ (/ (,'5 (' ('*('0$"5 ('4 .', $:
+$'4 +$'('+*' $(,'5 $'' ((0('+ ''$4+. $ * ")(+*3 *4' -(' (") ("0.+$ (*,'9.+*-"(,'6 * .+) ('/ +.-(*,"4 .' ()$(,,/ 4+''$ **('4 .' +' 0(.$,-' (,'4 .' +' ',$3(/ - *(' .+$' *'' (0(.(/ (,'- *(' $*- 9(*,(') + $ -7 -('3(" ('4.$,'' $*+ ,(.+) ('/ , ."4.(," +' (2+ (*7 , ." 0(.,"+' +35 -.$.' -("3 **+$''+*3("*(,,(" (,'4.-3$'("5'-('3(" (" $*3 .. 4,$) (" 5 $ *('0((*,'-(' +' 9 $.('(,'-(") **(." 5 (' .'5 $$"' *,' *$"+0(3' +'0(., / (,'5 $ (4.$'(*,' +'4 !' 4 +.$,(% .'5 (' +' 4 4 +.$,(',' (',$ ('4) $5 (' *(' ' *,' 4+"' - ('36 '(

! $ '(' +' 4. 36+$*(' (9$' +, .(' .(*#(. (.')(+ 3 *4' -(' ( ).("-('3('3+.+3,(.(/ (,' +'4+,.$('(',' 6 ."-(' -+*9(.'

,'5 (' -('9.+*-(.'36 .(" .(',(*,' (*3 .('$'#+$.('6'3(,,(' 4. 36+$*(' (9$' +, .(' ' ***(*3(.' *#$*' (. 9*('-(' +'3 $ ' ',, ,$ ' (' -(' +' $7 .(*#(. (.'36+5,,('3$, 8(*'-+*" (") .!' *("-('("-. $,"(,'-('('("-(0 $.'7 +- (. *,' ('+*, .$,(" (1 9$,$ ('7.-4.$ (.'-(".-9$ (*,"@0.-" ' *('(%.+8+ ,('$*-$'1 3$4 $*(/ (,'(*6+.-$"-+*" ('0$3('(,'-+*"?('3.$ ('4+.' +' 4 " '3+6-+ ('('$ 4**$,(7 (,+) $.(*#$*' ('9 50(.*((*,/ (,',(.!' $ $*(.'3(,,(' +*+.36$('5 $ * "#+,$9 (7).+0(.'4 .' 3(' +' ("$* .(",' ("3+ (."-(, '3(") . $ *"5 $*(' 0$0(*,'5 (' -(' -(' .-.('74+.3 .$.'(,' -3 +$.($.' ('-(-+ (' -(" $"3$0$ ('7 +36(0(.' -(' -(,. $.(', ,' +.,''$ 0+*, ' -(' +' #$1 *+*3('/ (,' *+- (,,.(' -+*" ("3 4,(" -(' -(*$(."4) $3" 5 (0$-(*3(' (,' 5 (' '$ 4 3,(7 ' 44 .,(.' 4(,!-,.(' *(' 9 (..(/ (,' +0 $.' +' 3 *,(*$.' *(' 9.+*-(' *+,$ *' -+*" '(" ' 3('/ '+' (*3 .+9(.'3 *' -(' +'3 .0(,'Z' +$*,(*$.'/ ' $' -+*" ("+. ('/ ' $,'-+*" ("(9 3$+,$ *'/ +' -$9*$,('*+,$ *' !')+ (',. 4' *-9 $9((7 0 $+'5 ("4(*$) ('(,'-+*9(.(*2',.+0+ 2' ' *,'3 *#$("+ 2 * 0(+ 2' .(4.('(*,+*,"5 (' ('4(4 ('0+''(' * (.' (',' - (2'5*' $' -(4(*-'5 (' (" ,.+0+ 2'-("2 (2' +**-("5 $'0 (**(*,'-('' -3 (.'' $(*,'-,.*(((*,')-*$'7 3 (','+'(2 -(' *,.(.'5 (' +' *+,$ *'5 $' ("(*0 $('+ +'4+" #+$,'-('$9.+*-("36 '("4+." *'(*,6 '$+' ('+0(9 (',(,'*$!' (*,+*('7 (,' 3(,('9 .$('(' 3+..$ (.'(' +' .(4 $'(*,' -$9*('(*,+' +' 4+.' -(' +4+' -+*" ' $.'(' +' 4 ',-.$'4(.' -$'0$ ('' -4 .' -((."4.(-(3('' '/5 $ *,$+$'' .,$.' +' '1 ,$3(',(,' +'.+$' *'-' *' '/'6-(' -33( ).('75 $ *,'.('' '3$ (

9(C

(" .+$$#+$'(*'6 (+$(,'5,$$ *,.(*-$.'$ '4$(($ +$*('
,("4 "' n$-("(,' ("4 "(3+,+*," '(.0$3("- *' 6$', $.('
<("6 $*("+$,'9+.--' ('(0($.$' %
('PI' + $Y,'BHTB

"

F ' K ' %

8) ' 'F '

' ' ' O "' ' ' W' "

' :,41.7 5 7 5.'?1,Q.7 >.'1.>';7 ,< >.E<7-.'
>.' ';7.' ;,<67 747 ,<<.5% +' 'k?1,?,6.'>.4@'>>'
7 ,<6=4'6,<74<'<1/./.37>.;1.7>.6.<;.67.1/.6N
'556.1'>7'05>.6E>7.6<'5 ,<'5.6?,41;,<6.1-.1'5.'6,4M
-.<1'>.'5" .-,547 ,< E1'<?'6.8 .<71.7.<1'5" E1'5.1<7>'
3 $.('5.6; ,V.<68 5.6'77';:.1'"5"?'71 .'.5'4@'5,6%'
" '6.1"E' 74<;,>.'>.'5,6;-5.6;,//4<.6 '5,475.'
1,Q'4/. S

% :,41.75 78 6,46 5"E,1/.'> 4<'5 71.'E<'58 5"
1.>';7 ,<>.6?1<; ?.61.5'7 E6'4' /,>.'>.'1.-6 ,<
>.'5" ;,<67 747 ,<%

546 .416 /./01.6>./'<>'<7 5" 64??1.66 ,<>.'
5";5'46.'?,17'<7=4.'5"<'7 ,<.67 <-7.'"<.'?'6
E'1.'46'J.'>.'6,<>1, 7>.';:'<J.1'5";,<67 747 ,<
'-'<7 □%

' 'N 66./05>.'<'7 ,<'5.'"?.<6>'=4 5
6.1' 7 ?546'?1'7=<./.<7 47 5.'>.7'05 1'>'<6'5";,<M
67 747 ,<4< /,>.'>.'1.-6 ,<?'17 .55.8=4.'>.'E,1M
;.1'5"<'7 ,<2'6.@?,6.18 ?'1'5">.5.J'7 ,<>4'?,4'
V, 1' ;,<67 74'<7"W<' 0,45.-.16.1'.<7 4< -.16.S%
K.Q.7'<77,465.66V67E./.6>'66./05. .6;,<67 74'<7.68
.55.' ''>,?7>'5.'6V67.1'.'>4<;,1?6'5.J 65'7 E1.- '
6.41% '4.'1.67.'>,<.'?<6>4'?1./ .1'6V67./.'=4.'
5.'?1<; ?.'>4'>1, 7=4 "5"<'7 ,<>.';:'<J.1'.<.<'
7 .1'5";,<67 747 ,<=4'<>' .55.'5.'Q4J.';,<-.<'05.%
.';1, 6=4.'=4'<>' ,<'"> 7=<.'5"',4-.1'<.7.'>.'
5"<'7 ,<.67<' <'05.'.7 1<?1.6;1 ?B05.%,<'"7,47
>7";.E.J'1>%#.?.<>'<7 5<V'41' 7?'6'> <;,<'
-.4 .<7".7'05 1'E,1/;55./.<7 5.'?1<. ?.'=4.'5"<'M
7 ,<<.'?.<7'5 J<.1'5.'>1, 7>.' ;:'<J.1' .4.<7 .18
=4'<>'.55.'5.'-.478 6";,<67 747 ,<I /'6'>1.'=4.';.'
;:'<J./.<7<.'6.1"?'6 47 5.' '-'<7 71.<7.' '<6 ,4'
'-'<7'.47 <68 ..67 ' >1.8 E'1.'64??,6.1'=4 5'6.1"
<7 5.''?1 6;.'7.1/.8 . .67<.'J491.'6,<J.1'"5" 1'<'
=4 55 7.' .7'4'0,<:.41'>.'5"J.<.1'7 ,<64 -'<7.8 .7
<.'?'6'>,<<.1'5 .4 "<,6.<5'<76'>.'0><1'<,71.'6''
J.66.%

' '> ,41'7.1/ <.1'5">EE ;457.8'Q.';1, 6
=4 5'.67 47 5.'=4.'-,46 -,46'1'??.5 .0' .?,=4.'.7'5"
/'< .1.'>,<7 5.'>>.1.7>,<7 5'6 'J7 " .7>'1.<>4% '
-,46'-' 5' .7;' ?1,?,6.'?41./.<7 .7 6 /?5./.<7>.'
>.;1.7.1'=4 5'<.'?,411' 7V'-, 1'>.'1.-6 ,<'-'<7
71.<7.''<6I ./?,;7.'?'1'5" ;,<-;7 ,< <5 /.'=5 5
.7' 7 /?,66 05.'>.'5 / 7.1'";.7 .J'1>'5.6>1, 76'>.'
5"<'7 ,<8;.'<.67=4.'?,41 .<?.;:.1'=4.';.'>.;1.7
?'66 7=4.'Q.'?1,?,6'5=4 5'E`7>.;5'1.8?'1'E,1/.'>.'
;,<6. 58=4.' <7.1.7>.'5"<'7 ,< <-7' 7"646?.<'
>1.8?.<>'<7 5.'7.1/.'=4'.7' 7?1,?,6.8 .@.1; ;.>.'
6,<>1, 7% ,46'>,?7>7.6 /"?1,?,6 7 ,<I /'68>.'
?4 6=4.' 66./05. .''>,?7.'4< /,>.'5.<7.7'6'J.'
>.'1.- 6 ,<8 4< /,>.'=4' .5, J<.'5"<.;.66 7.'>.'
.@.1; ;.'>4'?,4-, 1';,<67 74'<78Q.';1, 6=4 5'<V"
?546'5 .4 ";.77.'> 6?,6 7 ,<%

% ' 'N '.67 4<?1<; ?.'E,<>'/.<7'5I . .67
5.'>1, 7 /?1.6;1 ?7 05.'=4 "5"<'7 ,<>.';:'<J.1'.<
.<7 .18 ,4'>.'1.-, 1'.7>.' /,>E .1'6" ;,<67 747 ,<
=4'<>'.55.'5.'-.47% 1;.'>1, 7"1. 4'4<.'57. 7.'
?'1' <Q,<;7 ,< a 7.':.1'>4<.'/'< .1.' /?.1'7-.'
'4@'>.4@'5.J 65'741.6=4'-,46 6<;;.>.1,47>.'<.

?, <7 6 ,;;4?.1'>.'5" ;,<-,;'7 ,< ><<.' '66./0 .;'
>.'1.-6 ,<% .'>./'<>.'=4.';.'>.;1.7 6, 5'1.71';7.'
;,//.';.54'>,<7?'15.' % 1,<;:.7%& </41/41.%P'
#.77.'1.71';7'7 ,<< '41''?'6> <;,<-.< .<7I;'18.<
64??,6'<7 5.'?546'J1'<>'./?1.66./ .<7 ?,66 05.'>.'
5"?'17>.'-,664;;.66.416"'>./'<>.1'4<.''66./05..'
>.'1.-6 ,<8 66./05..'<'7 ,<'5.'1.-6'<7.'<.'?,41'
1' 7'-, 1'5 .4=4 .< (* 8;.'=4'.67 <E< / .<7?1.6
>4'7.1/.'=4.' ,<'-' 5'>'0,1>'?1,?,6.%& .6/ 1'
/41.6;,<7 <4.<7%P' ,46<.'>,<<.0'>,<.'' ;4< <'
7.1E 7 ,'- ,5.1'5.'?1<; ?.%#.'=4.'-,46?,4-.0E'1.8
. .678'4'?5468'4<.' <-7'7 ,<'"7"<'7 ,<%

' ' .';1, 6=4.'5"?1,?,6 7 ,<'= - ;<7
> .71.'E'7.'?'1' % 1,<;:.7<.'?.47 6,45E1 1'>.';,<'
E5 7% 55.' ;,<6 67.'";,:6.1-.1'>'<6 '17 ;5.'>,<7 5'
6 'J 71.<,<; '7 ,<'>4' ?1<; ?.8 .7 ' 64??1 /.1'5"
?1.;'47 ,<'>.' -7'7 ,<8>.-.<4.' <47 5.'?'1'5.6
?1.;'47 ,<6'457.1 .41.6?,41'5"1.-6 ,<'>;'5";,<67M
747 ,<% ,46'-.0'5.'?,4-, 1'.7'5.'>1, 7>.'>.;1.7.1'
=4.'5.' /,V.< >.'1.-6 ,< =4'E' 7?'17 .'>.'-,71.'
;,<67 747 ,<8 .7=4.'-,46'-.0'1.J .8<.'6.1" .@.1;.'
=4.'>'<6=4'71.' '<68 ?'1;.' =4.' -,46 .< ;,<5;0
.@.1; ;.'">.6?,4-, 16;,<67 74.6.7'6,4/ 6>'<6
5.41' /'1;:.' '4@1.J .6>.'5" ;,<67 747 ,<I /'68
=4'<7'< ?,4-, 1' ;,<67 74'<78 -,46 <'-.0' ; <
/,V.<>.'?1.6;1 1.' '4;4<.'1.J .'641'5" /'< .1.'
>,<7 5>, 7 71.' .@.1.>% #>5' 7>4'?,4-, 1';,<67M
74'<7=4.'-,46-,46 ,;;4? .0 ,16= .' % 1,<;:.7
-,46E 76"?1,?,6 7 ,<% 5,16-,46 .47.6'1'6,<>;'
1.;,<<'71.'=4.'-,46<.'?, -.0'1 .<?1.6;1 1.'";.7
.J'1>8 .7=4.'-,46?,4- .07,47'4'?546 <-7.15"
<'7 ,< ' '?, <7>. .J4.1' .@.1; ;.' '?,4-, 1'
;,<67 74'<7'-'<7 71.<7.''<6I /'6>.?4 6-,46'-.0'
'>,?7.'4< /,V.<>.'1.-6 ,<=4'1.<>1"?1,0'05. '
/.<7 <47 5.8,4'4' /, <6.5, J<.1"0 .<'4'>.5">.'
71.<7.''<<>.6 .@.1; ;.>4'?,4-, 1';,<67 74'<7% ,46
<.'>.-.0'>,<.'?546 <> =4.1'4<'7.1/ .'.->.//.<7
71,?'?1,;:' <8 .7=4 5 6.1' 7>'<J.1.4@'>.'5' 66.1'
?1.-, 18 5,16=4.'-,46'-.0 / 6>'<6'5";,<67 747 ,<
4< /,V.<>.'6 .<?'66.1% 8'?1.6'-, 1'.7'05'>.Q"
<<' /,V.<>.'1.-6 ,<;,<67 747 ,<<.58-,46 >7.6
=4 5<.67?'6'47 5.'=4.'5.' ?,4-, 1';,<67 74'<76, 5'
.@.1;.''-'<7 71.<7.''<68-,46 .EE1'V.0'7,46'5.6 ; '
7,V.<6 ?'1'5"?.16?.;7-.'> 4<.'1.-,547 ,<?1.6=4.'
;>15' <.''4'0,47>.';.77.'>?,=4.8 .7-,46>,<<.0'4<'
.?,4-'<7' 5' "7,46'5.6 ;7,V.<6?' 6 05.6 .7 " 7,46
5.6'0, / /.6'6.<6>6%

' 'N ,46'-.0'1.<>4' 4<'>>.1.7 71E6 6'J.'
?,41'5"71'<=4 55 7.' .7?,41'5.'0,<:.41'/>/.'>;'5"
<'7 ,<% .'>./'<>.'=4 5'6, 5';,<6.1-.8<,<,067'<7
7,47.6'5.6'6407 5 7.6=4 ,<./?5, .'?,41'5.'>.714 1.N
-?;';,//.<7 .'>./'<>.'=4 5'6, 5'1>>J>'N

$ "<'7 ,<"5.'>1, 7 /?1.6;1 ?7 05.'>.'1.E,1/.18
>.'1.-, 1'.7>.';:'<J.1'6";,<67 747 ,<I /'6 6'
6./05>.'<'7 ,<'5.'>.;5'1.'=4.' <7.1>7>.%5"<'7 ,<
<-7.'"<.'?'6'46.1'>.';.'>1, 78 /><.'>4'>1, 7>.'
1.-6 ,<&,< /41/41.P'-'<7 71.<7.''<6I .55.'>>'
.1>7.'=4.'5"?1./ .1.' .7'5"6.;,<>.'5.J 65'741.'<.'
?,411,<7 6 ,.>4?.1'>.'5"1>-6 ,<%& <'??5'4> 7%P

' B'N .';1, 6 =4.';.77.'> 6;466 ,<<.'
?,17.'=4.'641'4< /'5.<7.<>4% .'>.;5'1.'=4.'<,46<.'
?' ,<6 ;8 <,468 /./01.6>4';, / 7>8 .7=4.'<,46
<.'1>6 67,<6 .<=4.5=4.'6,17.'4'-,.4=4.'7>/, J<.'
66./05>.'=4.'?'1;.'=4.'<,46>.61,<6=4.'5"<'M
7 ,<<46.'Q' /'68,4'=4 .55.'<46.'/ '5" >.1< .1.'
/?456 ,<>.'5"<>..667>'>4'>1, 7.<1'V'<7>.'0,4'
5.-.16.1'4<.';,<67 747 ,<% ,46>>61,<6=4.' 6'
6./0 ..8G=4' " .4'5"6'J.66.'>.' /.771.'>'<6'5";,<M
67 747 ,< < /,V.<>.'1>-6 ,< 6'J.8 >,4@8=4'
;,/?5.7.';.77.';,<67 747 ,<8.<V ?';'<7'4< J.1/.'
>'/>5 ,1'7 ,<I<,46-,4>1 ,<68> 6 Q.8=4.';.77.'
/>/.' 66./05>;'>5, J< 7 >.'>,'7,47.'#,<-.<7 ,<
<'7 ,<'5.';,/?5.7.% 47'<7 ! ,'1.J'1>,<6'

W (566 ; E.1,<7 ' ; ; , / ? '7I<.18>'<6 5. 16 - 6 5.68 ? '1 5.6 <6?. ;7. '16 .7 ? '1 5.6 J '1>.68 >. ?1, ;0. .< ?1, ;0.I 56 .@' / <.1,< ;416 1.J 671.68 =4 56 6. .1,<71.?1.6.<5.18 ' <6 =4. 5.6 ?1, ; `6 -.10'4@>.6 J '1>.6I 56 ->1 E .1,<7 5'7 >.6 7,1 68 0,1<'J.6 .7 ;5>541.68 5.6 >.076 ; , / / 6 >'<6 5.1-'55. > 4<. 7,41< O '471.8 >7'7 ? '15 ;45 .1 >.6 '66 .77.68 0'5 -'J.6 .7 / '15.5'J.68 ; ,4?.6 .7 .@?5, 5'5 ,Q 68 .7 6 '6641.1,<7 6 5.6 1 J5; / . ,76 ,47 >7> ,06.1-.68 .7 6 5.6 >.5 568-'046 ,4 / '5-.16'7 ,<6 ,<7 >70>3 / .<7 ; ,<67'7.6 ? '1 5.6 J '1>.6 .7 ? '1 5.6 <6?. ;5.4168 ; : ' ;4< ? ,41 ; . =4 5.6 ; ,Q ; . / .%

G

W % 56 1.<>1,<7; , / ?7. >.5.416->1 ; '7 ,<68 .7; ,<1 7'7.1,<7 .@' ;7. / .<7 5.6 > 5 768 / '5-.16'7 ,<68 ; ,<71'-.<M 7 ,<6 ,4 <.J5 J.<; .6 =4 56 1. ; , <' 71,<7%

$ % 56 >,<<.1,<7 '<@ ?1, ?,6.6 =4 5.41 6,<7 640,1 >,<<.6 7,46 5.6 '- 6 =4 56 Q4J.1,<7 >71. O, 6I.78 >'<6 5. ; '6 ,O 56 5.6 71,4-.1' .<7 .< / '5-.16'7 ,< ,4 <.J5 J.<; .8 56 .< <6714 1,<7 <; .66' / / .<7 5" ; ,<6.1-'7 ,< J.4> '5.8 ? ,41 '- 6.1 '4 ? '17 ; ,<-.<'05.%

W % .6 ; ,<6.1-'7.4168 .< ?1, ;0>'<7 O 5.41 - 6 5.8 E.1,<5 .@' / .<8 .7 1.<>1,<7 ; , / ?5. >.6 ;0'<J. / .< 6 >. ; ,4?.6 .7 ' / 0<'J. / .<768 >.6 ; ,4?.6 .@71' ,1> <' 1.68 >.6 71'-'4@ >. 1. ; . ? 'J.8 1.?.4?5. / .<768 >.660;0. / .<76 44 - >'<J.68 7 >.6 '471.6 '7<05 ,1'7 ,<6 >,<75.6 H,1>765.41 ? '1' 71,<7 64. ; . ?5 05.6I 56 6 ,7,1 / .1,<7 = 1.<>1,<7 ? ' 1. 55. / .<7 ; , / ?7. >4 ?1 @ >.6 0, 6 >'<6 5.6 ?1 <; ? '4@ 5 .4@ >. ; : '=4. >0? '17.< .<7% 56 ->1 E .1,<7 .7 >06 J<.1,<7 5.6 ; '<7,<6 >. ; .6 0, 68 .7 .< E.1,<7 ?405 .1 5" >0;5'1'7 ,< >'<6 5.6 ? '1, 66.6 46'J01.6%

$ "% .6 ; ,<6.1-'7.4168 O 5" 64 7. >. 5.416 - 6 7.68 < > =4.1,<7 '4@ <6?. ;5.416 '66 .77. >.6 ; ,4?.6 >. '<<0. 64 -'<7.8 ; ,<E,1 / 0 / .<7 '4@ ,1>1.6 =4 56 '41,<71.E46 >. 5" ; ,<6.1-'7 ,< J0<01'5.%

W "% 56 '41,<7 4< / '17. '4 ? '17 ;45 .1 =4 5.41 6.1" 1. / 6 ? '1 5" ; ,<6.1-'7 ,< J0<01'5.8 >4=4.5 56 >.?,6.1,<7 . / ?1. <7.8 7'<7 '< 6. ;107'1 '7 >.6 > 1. ;7, 1.6 >. >'?'1 5. / .<7 =4 '4 6. ;107'1 '7 >.6 > 1. ;7, 1.6 .7 '4 J1.E5. >.6 71 04<'<@ >. > 671 ;78 >'<6 07.<>4. >. 5.41 '11,<> 66. / .<58 ?,<16 .<6.1- 1 >'<65.6 ,?01'7 ,<6 =4 5. 1.=4.11,<7%

" % 56 >,<<.1,<7 5.6 ,1>1.6 <0; .66' 1.6 ? ,41 5.6 0'5 M -'J.6 .7 / '15.5'J.68 .7 56 ; , / / .751,<7 <6?. ;7.41 =4 ?1, ;0>.1" '-. ; <6?. ;7.41 5, ; '58 5,16=4 56 <. E.1,<7 ? '6 ?1, ; .>.1 '4@> 7.6 ,?.1'7 ,<6 .< 5.41 ?106.<; .%

W " % 56 <> =4.1,<7 5.Q,41 >.6 '>Q4> ; '7 ,<6I 56 .< ?10- .<>1,<7 5.6 > 1. ;7, 1.6 >4 >0? '17. / .<7 .7 >4 > 671 ;7 ,> 5.6 ; ,4?.6 6.1,<7 '66 6.68 .7 >,<<.1,<7 5.6%,1>1.6 <0 ; .66' 1.6 ? ,41 5.6 ' K;0.6 .7 ?405 ; '7 ,<6%

W " % 6 >1.66.1,<7 5.6 ; '0 .16>.6 ; : '1J.6 .7 ; ,<> M 7 ,<6 >.6 '>Q4> ; '7 ,<68 .7 .< E.1,<7 1. / .771. ; ,? . '4 6.M ;107'1 '7 >4 > 671 ;7 ,O .55.6 >.-1,<7 071. ? '660.68 ? ,41 =4. 16 / '1;0'<>6 ,4 .<;001 66.416 ?4 66.<7 .< ?1.<>1. ; ,< 7 ' 66'<; .I 56 E.1,<7 - 6.1 5.6> 76 ; ' : .16 ? '1 5. ?1, ;41.41 6V<> . .7 ? '1 ,< / . / 01. >4 > 1. ;7, 1. >4 > 671 ;7%

" " % 56 '66 67.1,<7 '4@ .<; :01.6 .7 '>Q4> ; '5 ,<68 .7 .5' 66.1,<7 '554 / .1 5.6 E.4@=4. 5,16=4.5" / 6.O ?1 @ 5.41 ? '1'771" 6. 1'??1, ; : .1 >. 5" -'5.41 >.6% 0, 6O '>Q4J.1%

" " % 56 E.1,<7 <; .66' / / .<7 ?1, ;0>.1 '4@ '>Q4> ; 'M 7 ,<6 >.6 ; : '05 6 .7 '101.6 >. >05 7 J 6'<76 >'<6 5.6 E,10768 ,4 6' 6 6 641 5.6 >05 <=4'<768 .7 " ; .55. >.6 ? '<'J.6 .7 J54<>0.6%

W " % 56 ? ,411,<7 ; , / 1, .771. 5.6 <6?. ;7.416 >. 5.41 '11,<> 66. / .<7 ? ,41 5.6 '>Q4> ; '7 ,<6 0<,<;0.6.< '15 ;5. ?10;0>.<78 .7 '451.6 6. / 05'0 .6 / .<46 / '1;0068 / ' 6 56 <. ? ,411,<7 071. 64065 7406 ? ,41 5.6 1.<7.6 ,1> <' 1.6 ,4 .@71' ,1> <' 1.6 =4. ? '1 ; , / / 66 ,< >. 5" ; ,<6.1-'7 ,< J. 01'5.8 : ,16 5.6 ; '6 ?1.66'<56 >. <0; .66 708 ,7 56 ? ,411,<7 6. E' 1. 64?? 0.1 ? '1 <6?. ;7.41 5, ; '5%

$ " % 56 E.1,<78 '45'<7 =4 565. ? ,411,<78 5.6 10; ,5. / .<76 >.6 -.<7.6 460.68 '66 6706 >. <6?. ;7.41 5, ; '5 =4 '41" E' 7 '66 .57.I .7 5,16=4 56 < V -'=4.1,<7 ? '68 56 ; , / / .751,<7 <6?. ;7.41 =4 >.-1" 5.6 1. / ?5' ; .1 ' <6 =4. '1?.<7.41 =4 6.1" ; : '1JO >.6 ,?01'7 ,<6 >. 10'1 ?.<7'J. '4 <, / >. 5" ; ,<6.1-'7 ,< J0<01'5.%

$ " % 56 6.1,<7 7.<46 >. ; , / / .751. ? ,41 5. 10; ,5. / .<7 4< '<71. <6?. ;7.41 =4. ; .54 =4 '41" '66 6 O < 6? ; ; .41 5, ; '5 5,16 >.6 0'5 -'J.6 .7 / '15.5'J.68 .7 56 ; , / / .771,<7 ? '1. 55. / .<78 ? ,41 5. 10'1?.<7'J.8 4< '471. '1 ?.<7.41 =4. ; .54 =4 '41" ?1, ;0>0 O '66 .77.%

$ " "% .6; ,<6.1-'7.416 >,<<.1,<7 5.41 ; ,<6.<7; / . 7

O 5" >5 -1'<; . >.6 . ,<J06 >. ; ,418 5,16=4 56 71,<-.1,<7 =4. 5.6 '>Q4> ; '5' 1.6 '41,<7 6'7 6E' 7 2 5.416 ,05 J'5 , 16%

W " "% 56 -'=4.1,<7 O 7,47.65.6 ; , / / 66 ,<6 ? '17 ;45 O 1.6 >,<7 56 6.1,<7 ; : '1J.6 ? '1 5" ; ,<6.1-'7 ,< J0<01'5.%

W " " 56 >1.66.1,<7 >.6 ?1, ;06 -.10'4@ ; 1; ,<67'<; .6 >.6 > 5 .1.<7.6 ,?.1'7 ,<6 >,<7 56 6,<7 ; : '1J06%

W " " % 56 '41,<78 ? ,41 ; : '=4. >0? '17. / .<78 >.6 1, J 651.6 =4 5.41 6.1,<71. / 6 ? '1 5" ; ,<6.1-'7 ,< J0<01'5.I 56 5.6 E.1,<7 ; .5.1.7? ' '? : .1? '1 5. ?106 >.<7>4 > 1. ;7, 1. >. >0? '17. / .<7% 56 V .41.J 671.1,<7 5.416 ?1, ; .6 -. 0'4@ ? '1 ,1>1. >. >'5.8 .7 1'??,17.1, 7 .< / '1J. >. ;5 4=4. ?1, ;06 -.10'5 5. E,5 , >. 6,< .<1.J 671. / .<7% #.6 1.J 671.6 6.1,<7 '4 <, / 01.>. =4'71.8 ' <6 =4 5 .67 > 7.< '17% " >4 5 71. ?10;0>.<7%

$ " "55 % 4 ?5467'1> >'<6 5.6 >.4@ / , 6 >. 5' ; 0741. >. 5.416 - 6 7.68 5.6 ; ,<6.1-'5.416 .< '>1.66.1,<7 5.6?1, ;06 -;1004@ O 5" ; ,<6.1-'7 ,< J0<01'5.8 .7 .< .@?.> .1,<7>;6 ; ,? .6 ; .15 E 0.6 '4@ > 1. ;7, 1.6 >4 >0? '15. / .<58 ? ,41; . =4 ; ,<; .1 .1" ;0' ;4< > .4@% 56 <6;1 1,<5 5" >'7. >. ; .6 .<-, 6 .< / '1J. >.6 .<1.J 651. / .<76 ?1.6.<76 ? '1 '17 ;5. ?10;0>.<7%

W " " % 56 '>1.66.1,<7 7,<6 5.6 71, 6 / , 68 O 5" ; ,<M 6.1-'7 ,< J0<01'5.8 5.6 1.6457'56 >.6 - 6 7.6 >.6 <6?. ;7.416 >. 5.416 '11,<> 66. / .<568 '-. ; 07'7 >.6 1.<7.6 >. ; : '05 6 .7 '101.6 >. >05 7 =4 '41,<7 .4 5 .4 > 4< 71 / .671. O '4 71.8 .7 E.1,<7 ? '17 .55; / .<7 5.6 / 0 / .6 .@?0> 7 ,<6 '4 > 1. ;5, 1. >. ; : '=4. >0? '17. / .<7%

W " " % '<6 5. / , 6 >. 5" ; 0741.>.6 '>Q4> ; '7 ,<68 56 .< >1.66.1,<7 05'78 ; ,<7.<'<7 <> ; '5 ,< .7 " ; ,<5. <'<; . >.6 ; ,4?.68 5" =4'<7 5O >.6 ' 01.6 -.<>46 ,4 106.1 -06I 5.6 <, / 8641<, <6.7 >. / .41. >.6 '>Q4> ; '5' 1.68'-. ; 5. / ,<7'<5 >4 ?1 @ >.6 -.<7.6 .7 5.6 7.1 / .6 >'<6 5.6=4.56 5 >, 7 071. ? 'VOI 56 '>1.66.1,<7 4< >,405. ; .17 E O >. ; .7 07'7 O 5" ; ,<6.1-'7 ,< J0<01'5.8 .7 4< ? '1. 5 O .O' =4. > 1. ;7, 1. >. >0? '17. / .<78 ? ,41 ; . =4 5. ; , , ; .14.1'%'

% S . -, 6 ?1.6.<7.1 " 66.7<05. . ,0 Q.7 >. 5" > 6 ;466 ,< =4 " , ; ;4?. . 7 5" E < >. 6" 6. '<; . > : .1% " 1.>' ;7 ,<=4. Q. -,46 ?1, ?,6. " .7> '>,?7. . 0 .1 '4 6, 1 4<'< / . / .<7>,<6 5.6 >.4@ ; ,M / 5.6 I Q. -' 6 5" E' 1. ?1. ; .>.1 >. =4.5=4.6 ,06.1-'M 7 ,<6% ,6 ; , 5.6 ,<7 ?1 6 ? ,41 0'6. >. 5.41 1.6,54M 7 ,< 5" > 67 <;7 ,< E,<>. . >'<6 5" <'741. / 0 / . >.6 ; : ,6.68 ;<51. .@.1; ; . >4 ? ,4-,71 ; ,<67 74'<7 =4 64??,6.1' 7 5" <. ; .66 7. >4 ; : '<J. / .<7 7,7'5 >. 5" ; ,<67 747 ,<8 .7 5. / ,>. >. 1.- 6 ,< <> =4. ? '1 5" ; ,<67 747 ,< / > / . ? ,41 >.6 1.E,1 / .6 ? '17 .55.6 67 1 =4.5=4.6 '17 ;5.6 >. >.7' 56% ,16=4. % 1, 5; : ;7 ?1, ?,6" " 66. / 05. . 5.>. ;1;7 ? '1 5.=4.5 .55. " E' 7 4<. <- 7'7 ,< " 5"<'7 ,< >. < '??.5;1 >. #,<-.<7 ,< <'7 ,<'5. '-'<7 71.<7. '<<. .68 5 .<7.<>' 7 '5,16 ? '15.1 >.6 '66. / 05. .6 'V'<7 5. ?,4-, 1 ; ,<67 74'<7 ; , / ?5.78 =4 6,<7 0 .< >'<6 5. ?,4-, 1 >. 5" <'7 ,<8 / ' 6 >,<7 5 .67 47 5. =4 .55. < 46.? '6 E1.=4. / / .<7% # .67 >. ; . ?,4-, 1 =4. ,< ?.<7 > 1. =4 5 .67 >4 ; ,<6. 5 >. 5" 6'J.66. >. <. .@.1; ;1 =4. 5,16= ; $ - .<5 / ?,66 05. >. E' 1. '451. / .<7% # .67 ? ,41 =4 ,< '-' 5 ?1, ?,6. >. > ; ;1.7.1 =4. 5" <'5 ,< 7 ; .@.1; .1' 7 ? '6 '-'<7 71.<7. '<6% ' 6 ; . >. .1.7 / ?.1'7 5 .E57 >7. 0- >. / / .<7 7 <. '77. <7. ? ,17. . '< >1, 7 >. 5" <'7 ,<I ,< V " >,<. 64067 74. 4<. <- M 7'7 ,<% ' 6 ; .77. <- 7'7 ,< ? ,17' 7 .55. .764 1;@,1 ; ; . >4 ? ,4-, 1 ; ,<67 747 ,<<.5 .7 641 .@.1; ; . >4 ? ,4-, 1 >. 1.- 6 ,< ? '17 .55.Z # .67 4<. 7 .6 =4.6M 7 ,<6 =4 ,<7 >7. >.0'774.6 >'<6 5" 6. '<; . > 5 .I% ' 6 <. 6. / 05.1' 7 5 ? '6 ?1.6, / ?7 .4@ >. ;1, 1. =4 5 <. 6.1" ? '6 0.6, <8 '-'<7 71.<7. '<68 >. =4.5 =4. 1. ;7 E ; '7 ,< ? '17 .55. " 5" ; ,<67 747 ,<Z ,7 6 '-.0.14 >.-, 1 '>,?7.1 4< / ,>. >. 1. - 6 ,< Q 'V 7 .55. =4 .678 ; ,<71. 5. >'<J.1 >. '??.5 > << ; ,1?6 ; ,<67 74'<78 4<. J'1'<7 . 0 .< ?546 641. =4. -<7 ; <- 7'7 ,<% , ; ' ,<; 5'% / '< .1. >,<7 -,6 ; , / 7.6 -, 6?1, ?,6.<7>. 1.> J.1 5. ?1. ' / 045. >4 7 71. 1; 5'5 E" 5" 1. - 6 ,<N

W% 66. / 0 0. <'7 ,<'5. >0;5'1. =4. 5" <'7 ,< " 5. >1, 7 / ?1.6; ? 05. >. ; : '<J.1 6J; ,<6 545 ,4Q .740'< / , <6%

(

; , / > 1'<7 =4 5 .67 ?54]' ; ,<E,1 / .' ' <7.1 5 <'7 ,<'5 & 46;1'6. '5. / ;<78 ?'1' >.6 / ,Q.<6?1 6 >'<6 5" ; ,<6 74 ?< / / .8 >4 >1, 7> .< 1>5,1 / .1'5.6'157;5.6>, ,7 .@?.1 .<; .' '41' 7 '56. ,5 1'5.6 ; ,<->< ;<768>>. 7.'=4 55 3 6.1" ?1, ' ;>>.' ?'1' 4<.' '66. / 05..' >.' 1>1 6 ,<8 >'<6 5" E,1 / .' 64 ' 1'<7.% Y

<6' ; .' &Q4' .67 .66.<7 ;5 " 5" <'7 ,<8 =4 'Q, 4 7 5 4<.' ; ,<67 747 ,< E, <>'7<.<7'5; / .<7 0 ,<<.8 . .67 >;' ?, 4- , 1' .< 1.;7 E .1' 5.6 >.E'476 >.' >.7' 56% ' <.' 7'47 '5,16 ?'6?1.- , 1' 5" <..;66 7.' > 4<.' 640-.16 ,< 7,7'5.' >'<6 <.' ; ,<67 747 ,< ,<>. .' 64 ' 5.6 0'6.6 / / 4'05.6>.'5"Q467 ; .' .7'5.6 ?1 <; ?.6.7.1<.56 >.'5" 1' 6,<% # .67> '?1.6 ; .5" =4 .'<,46 ?.<6,<6 =4 5 E'47 6 ??1 / .1' ; .77;' <- 7'7 ,< E' 7.' " 5" <'7 ,<8 >.' <.' ?, <7.@;1# .15.'?, 4- , 1' ; ,<67 74'<7'-'<771. 7.'<61' # '18=4, =4 .'# .77.' <- 7'7 ,<' 7 ?, 41, 0Q.7 > > , J<.1' 46'J.' >4 ; ,1?6 ; ,<67 74'<78 .55.' '41' 7 .5E.7 1..58 .5 64067'<7 .5 ?, 41' ?546 .416 .6?1 768 > >71.' 4<.' . ' A?. ; .'>.' ; ,<-, ; '7 ,<'>4 ; ,1?6 ; ,<67 74'<7 >'<6 71.<'5.' ' '<6 > ; I' .7 >.?4 6 =4 .' -,46 ' -.0 1.<>4 5.'1. / .>.' > 4< ; ,1?6 ; ,<67 74'<7 ?1.6=<.' <47 5.8 .55.' " ?.1>4 7,466.6 ' -'<7'J.68 .7 7 <.'1.67.' =4 .' 1 <., <-><.<7 >,<7Q.' ?'1 .%

% >7 ,<>. / '<>.5" ?'1,5.%

<>. / '<>.' / ?.74.46. / .<7 2 '55.7 '4@ - , @% " ?'17 .' # .<71'5.'6.' E.-.' ?, 41' , / / .1' 5.%?1.6 M >.<7 >.' / .775 .' .<>.5 0.1'7 ,<'5" / ,7 ,<>.E.1 / .1' 5" > 6;466 ,<%

6. / 05>.'E.1 <.' '> 6;466 ,<%

'17 ;5.'?1, ?,6.' ?'1 % : , 41.7 .67 '>, ?7>%

% 0,41.7 6,4 / .7 " 5" >.5 0.1'7 ,<'5" 1.>';7 ,< 64 -'<5.'>.6 '17 ;5.6 1.5'7 E6 '< / ,>.'>.1>- 6 ,<%

W 17% F% ,16=4.'71, 6 5.J 65'741.6 ; ,<6.;777 -.6'41,<7 # / 6 4< -..4 4< 7,1 / .'?, 41'5.' ; : '<J. / .<7 >.' =4.5=4.' '1M 7 ;5.' ; ,<67 747 ,<<.58 'V 41" 5 .4 0 5" 1.- 6 ,<>. / '<>..%

W 4;4<.'>.' ; .6 5.J 65'741.6 <.?, 411'6 , . ;4?.1>.' ; .7 ,0Q.7 =4.'>'<6 5.6 >.4@ >.1< .16 / , 6 >.'6" 6.66 ,<8 .7 6.6 >.5 0.1'7 ,<6 6.1,47 6,4 / 6.6 '4@ / # / .6 E,1 / .6 =4.'5.6 >. ;1.56 5.J 65'7 E6%

W % " =4'51 . / .'5.J 65'741.8 ' J / .<7..' >.' >.4@ ; .<7=4'1'<7.<.47 / . / 01.6. <6 . E; : '=4.>.?'17. / .<7?'1' >,405. / .<7 >4 <, / 01.' ,1> <' 1.' =4 5 E,41< 7 ?, 41 6" ?,M ?45'7 ,<8 E,1 / .1" '66. / 0 ..'>.'1.- 6 ,<%

W # .6 >.4@ ; .<7=4'1'<7. <.4E / . / 01.6 6.1,<7. 46 '?1 6 =4.'5" <, / <'7 ,<>.61.?1.6.<5'<76 '4 ; ,1?65.J 65'7 E'41" .7.'7.1 / <>.8 .7 ' .<6.1" E' 7 4< ?1, ;>6 -.10'5 6>?'1.%%

W % .6 / . / 01. '>.'5" 71, 6 > / .'5.J 65'741.'=4' '41" >. / '<>.'5.' .0'<J. / . ,7 <.'?, 411,<7 .71.'><6 2 '66. <' 05..'>.'1.- 6 ,<%

W % '66. / 05..'>.'1.- 6 ,< 6.1" 7.<<.'>.'6 , ; ;4?.18 >.6=4 . 5.6.1" E,1 / ..8 >.6, 0E.56 =4 ' '41, <7 .7.'6,4 / 6 2 6,< .@' / .<I .78 '466 7>7 =4.'6,< 71'-' 5 6.1" 7.1 / '<.8 .' >.4@ 0.<7=<'1'<7. <.4E / . / 01;6%<, / / .6 .77 '4J / .<5' ' 7 ,<6.1.5 1.1, 478 6'<6 ?, 4- , 1' ?1.<>1.'?'17 '4@ ';7.6 . ' J 65'5 E6%

W " ?1. / .1.' .7 5" >.4@ . / .'5.J 65'741.'<.'?, 411,<7 ?1, ?,6.1'5'1.E,1 / .'>'4;4< '17 ;5.' ; ,<67 747 ,<<.5% Y

' 3 ' .' ;1, 6 =4 5 E'4>1' 7 > 1.'=4.' 5.6 >.4@ ; .<7 =4'1'<7. <.4E / . / 01.6 =4 ' 6.1,<7 'Q, 47.6 '4 <, / <1.' ,1> <' 1.' 1.=4 6 ?, 41' E,1 / .1'5.' ; ,1?6 5.J 65'7 7 6.1,<7 .546 ?'1'5.' / > / .' ?1, ; .6 -.1' 0 '5I 6'<6 ; .5" Q.' - , 6 >'<6 ; .77.'> - 6 ,< 4<.'7.<M >'<; .' '4 6V67. / .'>.6 >.4@ ; : ' / 01.6% '>> 7 ,<=4' " .7.'E' 7.' " ; .7 '17 ;5.8 > 4<.' ;5'46.'?, 17'<7 =4.' ; .6 >.4@ ; .<7 =4'1'<7. <.4E / . / 01.6 <.' ?, 411,<7 ?1.<>1.'?'17 '4@ ';7.6 >.%5.J 65'7 ,<8 ;><E 1 / .% / .6 ;1' <7.6% %

.'>. / '<>.'>.'? <6 =4.'5.6 >.4@ ; .<7=4'1'<7. ' <.4E / . / 01.6 =4 8 '?1.6 5" 1.- 6 ,< E' 7.8 >.-1,<7 6.'1.7 1.18 6, .<7 7 1.6 '4 6,17% & <>. / '<>.'5" =4.6M 7 ,< ?1.'5'05.%P Y

66. / 05..'?' ' .' 5 ,1>1.'>4'Q, 41%

' ; 5 'N %H1, ; : ,7 " E' 7 / ?1 / .1'4< <,4M -.'4 ?1, Q.5 >.'>.;1.7 '>'?7.' '4@ > 6?,6 7 ,<6 =4.

-,46 '-.0 >>.1.7..6% .'>. / '<>.' =4.' 1 66. / 0E..' ?1.<<.' .< ; ,<6 >.1'7 ,< ; .'?1, Q.78 =4 ' ; ,<7 ;<7? ' 6 .<16 '>> 7 ,<6 47 5.68.7<,7' / / .<7; .55.=4 ' .671.M 5'7 -.' '< 6.1 / .<7 ?'17 ;45 .1' =4 '>, 7 971.'?1>7.'?'1' '66. / 0 ..'>.'1.- 6 ,<8 $

66. / 0 .8 '>, ?7'<7 5" ?1, ?,6 7 ,<>.' % . ' J<'4578 >.;1.7.' '17 ;5.'>.' %H1, ; : ,7 E< ; .6 5.1 / .6N ' Y '66. / 05..'>.'1.- 6 ,< ?6.7.1" .< ,471.'5,'6,1 ' / .<7>.'6.0,1<.1' " 67'74. / 641'5.6 ,0Q.76 =4' 54' '<' 1, <7 .7.'6,4 / 6 ?'1' .' -, .4 4< E,1 / .>.671,765.J 6M 5'741.6 ?1. ; .>.<7.6% $ % d

.'?1, Q.7 >.'1.>';7 ,<'>.' % : , 41.7 .67 '>, ?7.%

% / S '?, 411' 7 6 .5; - ;1' 4<.'> E5 ;457.% =4.'Q.' ;1, 6 >.'5" 6'J.66.'>.' 66.< 0 ..'>.'?1. - , 1% .' ;1, 6 =4 .<>.5.J '<5 '4@ 5.J 65'741.6 5.'>1, 7>.' ; ,<- , =4.1'4<.' '66. / 05..'>.'1.- 6 ,<8 .5" ; .55. ;5 5.' >1, 7>.' / ,> E .1'5" # ,<67 747 ,<8 5 .67 <> 6?.<6'05.' >.'>. ;1.7.1'=4.' .@.1; ; .'>.' ; .' ?, 4- , 1' <.'6.1" ?'6 64Q.7 " 5" 6'<;7 ,<>4'1, %

" ?1, ?,6 7 ,<>.' % .J<'457 .67 '>, ?7..%

%) # 'N .' >1, 7>.'E' 1.'J1' ; .8; >.M -'<7 .@.1; .'?'1'5.'1, 8 " .7.'64??1 <.% ' .67 ;66;7 ' 7 .5 =4.' ; .'>. .1.7 6, 5 ; ,<67 747 ,<<.5% # .67 4< >Q, 7 <'541;5>.6 ; 7,V.<6>.< >71.6,4 / 6=4 " 4<.'Q467 ; .' 4< E,1 / .'?, 41'7, 46%

' - ' ' ! ' '-.0 > 1>7 '?'1'4<'17 ;5.' 1. J5. / .<5' 1.' =4.'5.6 Q41.6 .@.1; .1' .<58 > '?1.6 >.6 E,1 / .6 ?1.6;1 7.685.'>1, 7>.'E' 1.'J-6 ; .I > '?1E.6 ; .5'Q- ,46 <.' ?,4-.0 ?'6 1.<>1.' ; ,<67 747 ,<<.5'5.' >. .1.7 =4' <7.1> 5 '4'1, ' .@.1; ; .'>.' ; .'>1, 7I .'1' 6' 5" 5.J 6 '741.'1.7 1' 7 5" >>5.J'7 ,< '4Q,41> :4' E' 7.' '4 Q41V8 -,71.' '17 ;5.' ; ,<67 747 ,<<<.5 <.'?,4 ' -'<7>71.' ; : '<J.' .< / > / .'7.< ? 8 ; .'>1, 7 < .@ 67. ' 1' 5 <455.'?'17%

% , 'N ' .67 -.1 7'05.8 >'<6 5" <'741.' / > / .'>.6 ; : ,6.68 =4.'5.' ' <.'>, 7 ?, <7 %'- , 1' 9 >1, 7>.'E' 1.'J1 ..% '5" 5. J 65'741.' 7.' ; .'>1, 7'4 " Q41.68 5 1.65.1" 5,4Q,416 0.'4; ,4? >.' / ,V.<6 5. ' J'4@ > .@.1; ;1'5.'>1, 7> . =4 7.%

A ' .'>. / '<>.'6 5 .67 ; '>.6 0, / / .6=47 ,<7 .<- .'>.'<,46 E' 1.'?.1>1.'<,71.'7. / ?68

% / &L & ' .67 ; ,<67 747 ,<<.5 &c4.' 5.' >1, 7>.'J1>..'<.'6, 5 . " .1; .' =4.'?'1'5.6 E,1 / .6 5. ' J'5.6>.' 5" Q467 ; .% # .'>1, 78 7.<'<7 .- >. / / .<7 '4' ?, 4- , 1Q4> ; ' 1.8 5 .67 ; ,<67 747 ,<<.5 =4 5 <.'6, 5 ?'6 .@.1; .'?'1' .'1, %

' ' % 1, <; : .7 " > 7 '-.;' 1' 6,< / .' '17 ;5.'=4 ' ; 7.' '< 1, ' .@.1; ; .'>4 >1, 7>.'J1' ; .' .67 ; ,11.5'7 E " ; .54 ' =4 '>.5.J4.' .@.1; ; .'>.' ; .' >1, 7'4@ Q41.68 ,<<.'?.47>, <.' / .77; .'>'<6 5" ; ,<M 67 747 ,< 4< 6'<6 '471.%

18 5,16=4.' -,46 '-.0 >.;1 7 '4< / ,>.'>.'Q41.6 =4 ' ; ,<71.4 7 .7 <67 745 ,<>.6Q41.6> <J5.7.11.8 .7 ; .55.'>.6Q41. 6> / 1 =4.8Q.'> 6 =4.'5.' ; ,1, 7.'<.' ?.47 ?1.<>1.'6411'6" 1.6?, <6'0 5 7.8 =4.' 66. / 05..' / X / .'<.'?.47 ?'6 ?1.<>1.'641' .55.'>.'E' 1.'>.' ; .77.' <67 747 ,<'7, .' : ,4- .5 .8.7 <, < .?1, 4-..?'? .@ ' ?.1 .<; .8 4< '17 ;5.' ; ,<67 747 ,<<.5%%% 'Q, 47.'=4.8 6' -,46 > 7.6 =4.'5.'1, '<.'?, 411" E' 1.'J1 ; .8 5 E'<' >1" > 1.' '466 '=4.'5.' ; , 1 ' >J 6 '5 E8 =4.'5.6Q4J.6 <.'?, 411,<7 E' 1.'J1 ; .%%%% .'>. / '<>.' =4.8 6<1'5" ?1, ?,6 7 ,<>.' % ' <7 '17 <8 ,< ?'66.' " ,1>1.' >4'Q, 41%

66. / 05.'?'66.' " ,1>1.'>4'Q, 41%

% : , 41.7 5 7 5" >.1< 01.'> 6?,6 7 ,<>.' H';7.' ; ,<67 747 ,<<.5%

% + 'N .'>. / '<>.'=4 '4'5 .4'>.'>1.'= .'5.6 '471.6'5, 6 6.1,<7 .@.;47 .6Q46=4 " ; .'=4 .55.6 ' . 7 >7.'1%.- ,=4. .68Q.'>. / '<>.' =4.' ,< > 6.'=4.' $5.6 >. ;1;76 1.<>46 ?'1' 66; / : >.' ; ,<67 7 '<7.' '41< 7

*! ' & '$! ' ,% ,'%4! '! ,! '% ,% ! O' 'b+' !'
(! 4% ' * , ',%',% ! ' C '% -'& ' CC$ #
% ,'&' ,, B$ ' ! , % $ ' $,2 , #
4 % ' 2$'(! % ' * , ' 2 - ! '(& , '
& ,'& , A$ % ,'$,'($, ,,% ,'& ,
& , & ,(,%B$,'%'$%' %) & ,'$! ,' ! [#
! $$,' '4! ,'%4 N'& %B ,
3%'(!(!, ! '&' ' %$$,' ,'%&!(&

' 3 +'R' 2 ,' '$' ! '&'& $% '
! *! ' ' $%' ! ! '&' %' (! ' # $%'
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' (! ' ,! '%' 2 ,% '&
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,'& ,' B ,' ' 2% ' ! , ! $' ,'
$! ,' ' 2$' 2 ', %'*% '% ')% A *C2

' " E'R' 8 '& % &' ' 2% ' ! ,$! #
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E '& % & '(%'% & ' $' ,! ' ! '%' '
$$ '& (% ! '&' % #4 A # ! ,' B ,

' " ' ' & ' ! ' +#, ' ! % > ' #
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'L 'R' !,' %4% -' ',! '(%,' &,' '
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, ,, ! 'C $,: ,'&' ! ,'(! % ' ($,' ,
! '$&,'(%'$' , '& '/1'E '/107'8 '& #c'
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,2%B, ',% ,' ! A ' ! ' $' '%' & &' (%'$'
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, B$ '$ A ,$% 4 ' % ,E '&& ,' % '%(&#
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$

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,% '$%', % ' ,! '$ 4
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' >'8 '& % &' ! ' ' $ ' '
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& (% ! '*%, ' (%$%B$ ' ! % ' ,! '& ,K
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'$'(, & '*% '$ '& '$%'$, '& ,' B ,'
'&! 4 ' ! (!, '$%'& (% !
3%' ,&% ,'$ 4 '%' ')

3$ " $+' ' % &' V' ' 7 ' ' G '
+ % ' V1 =4.8'%64 - .>4'0'55.7'- ' ' " (
>'<6'7.=4.5' 8' >.5,7',,'7 ,4.1"6.6'>>04 7' Tl

+ '" E' ' V ' 7 ('3 (-$('
(*' X' +3,('/' ' 0('-(' '$ ' ,&
&) &' V ' '@ ' (! '
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"+ "" ? ' . G' -(' $36($(' +' XJ .3Q
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.- 6 $' F ' ' ' ' ' '6$'+.$'
5 ('-+*" (5 (' ' +*(+ '-) ,(.+7' , G '
'(,' '8 ! '3 -$(
'+,,(-+*,' +' Bm'. 4.F'(* +$ *'-('8 '
&' ' &' &' + ' ++$'!'
8+ V ' +'T'.(4.('(*,+,$ *')' ' ' 3'
4 .+'* 0(+ '(*' '+3,('
$ % '@ $,/%&' + +$'! 8+ 'V' ' G '
8 46 *$3' - @+8-* V $(' '$*(' 36+*,(.+' *' +$.'-('
(*9 UU$' (,' *' +$.' - *# ''$'V' ' (%(0.(' 36+*,(.+' +'
G ' 0, ' V' (4,' .3(+ U' -(' '8 4) *$('V'
' (#F0.(',(. $*(.+4+.' *' +$.' -(' +33$$$*$
' ' ' !' ' ' & ' ' C '
'G, ' ! ' ' '8 '- '#+$,'6$', .$5 3Z'
(" '+ (."(,' ("(2(.3$3(" - ' (*(' *9 +$'7' ' '
5' '$ ' ' '% '), ! 2 5' ' ,#
' ' ' & 5' '$ ' ' 4+*, $ ('+03'
'("+9.- (*$'
! "& #$ " %& ' + ') (0+.-' - ' (4 ('V' !'
' 1 ' 4(.+') ## */ 4.((---' -(' +' $ ('
@ ' ' 0('-(' ' ' 'G ' (,'- '$ & '
4-.+'($5 (
'+,,(-+*,' +' _'.(4.-'(* +,$ *'-(' '$ ' ; '
' '$ '
&' @ >($'' " % ' ' ". " V ' ; '
' ' ' ' +' : ' ! 1 ' ' '
A+35 ('
! ' ' ! ' . (' +$*,! +.,$*' V' ' +' $!'
& ' '$ 1 ' ' '<& 5' ' 0(' -(' - '
8 '(,' -(' '% ' : ' ' ' * $.(' (,'

'+,,(-+*,' +' Bm'.(4.-'(* +,$ *'-(' <+' $ ' & A'

! &' ' ' ' ' , 'C' ' +' G%' .(4.-!'
'(*,+,$ *'- ' F '(+ 44 **(2/' 4-.+')* 3/' ' 0'-(' +'
F%'), (' '@ V /'3 --$(' -$(('-+.$(,$3'

.!-((7)' '()' /(7 ()' '(' + Q (,#'(#- , , '
' '(' .!/)
$2'4.($(." $'" BHTB' ' ('4+8(*."' ,' ' +' (,,.('
' ' ' ' ' ' ' +9' ' '

',(.-+ '	' FF	+-$U' ' ' ' '	*' %C6%	
@+) .9'	' WPG	-*('' ' /' 7	%' %'	B(
*-.(''	' WW' L	$0 .*3 ' /'	% %'	C9 '
'>1 >%%%%%%%%%%%%%%	* %))	8 */ ,	+ '4+$.	

' ' '

;7 ,<6' >.6' <>.6$' >.' C '5 -%' % % % $ $ $ \ ' CC ('Q$'
,17 ,<6' >.' 9 '5 -%%%%%%%%%%%%%%%%%%%%%% U
/ ?14<7'> ,;7,01.%>.' '5 -%' % % % % % % % % % % % % ' U %
+' >.'>>;'% ()C% 34 7$' >.E5<' % %' % % '4'?' 1'E$' '?
+' >.' C ' / 55%' >>;'% ()U% %' ' ' % G 'Q$' ':
+' 6'<6045%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
+' 6,17G' .<' - 'J.1% %' $ %' %%%%%%%%%%%%%%%%%%%%% U '$'4
K455.7 <6%%%%%%%%%%%%%%%%%%%
:,,<<' 66'<;.6' >.'0455.7 <6' *F
;7%' <,4-%' >.6'54>.6%' %',%' RC 8' C$' %' U)$' U9$' U,$' UU
% U 8' UC8' U 8' U 8' *8')
#' 66.'> .6;' % % % % % % '))(8') 8) 8') 8' (98' (C8(8(
./ ;' 66.' %' %' * 8' 98')8' 8' 8' 8')C8' 8' C8') '
34 77%' >.6' '4@'>.' '1 6%% %' 9 89 89 8')
/ ?1%>.') ' / 55 ,<6$' > ',07' ()*% % % % ' '4'?' 1%' N''
#' 66.'?'51 ,7 =4.%%%%%%%%%%%%%%%
6641%';,<71.5.6 <;%') 8')C8') 8')U8') 8')98')(8
)(8') 8')U8') 8')C8')U8') 8' (*8' ()8' (*'
+' ' -/' %' (U8' 98)8' *8')8UG' (89*)8*(

[illegible]

[illegible]

A

[illegible]

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[illegible]

[illegible]

;' Z < .<-.11" >.' ?'17 .7 > '<71.' >.6 / < 671.6 >4
6.;,<>'1'<J8 6, 7 ' ,;;'6 ,< >.'5'% ?1E' .<7.' ?' G% 6, 58
;, ,7<.' ?'1 5.' ?'66>8 ?,41 =,5 .1 1'V.<. / .<7 '4 0 ><.'
>.6 6,4-.1' <6 1.6?.;5 E6% #.6 / < 671.6 6.1,<7 '> / 6 '-.;
5.' ;E.1> / ,< '5 46 5>%
'W UF '46 .6?'..'>.'=4 <0.' ,416 '>'7.1>.'5" 6 J<'M
741.8 ,4 ?5467>78 6 5.67?,66 05.8 5.61'7 E ;' ,<6 >, -.<7
71.'>;:'<J..6%Y %
';.71' 7> 6.%71,4-.' '<<.@>.'4<.';,<-.<7 ,< 6>?'1>.8
4' ,<7 .<76.?7 '17 ;5.6 ?,41 5" E @'7 ,< >.6 5 / 7.68 .7
%>,<7 '1 ;5.' ' 67 ?45.' =4.' 5.'0,41J .7 5.' 7.11 5, 1.' >4
V .4@ 16, ['8 046=4 U 5" #0.1<'8 1.67.1" >'<6 5" ?,66.66 ,<
.7 6,46 5" 6,4-.1' <.7> >.'5" ;,41 / ?>1 '5. 1, V'5.8 7.5'
. / .<7 =4.'>.';.; 5 '5" ?.7 7.'1- `1.'>.' #0.1<" 6.1- 1"'
?.1?>54 5> >.' E1,<7 >1.' U 5" / ,<'1; '471 ;5 .<<.8 6,46
#,<> 7 ,< <.'</ , <6 =4.'5" ;,41 / ?#1 '5. 1, V'5.'<.' E,1'
7 E .'<' '<; .< 0,41J > 16, ['8 <'5,47.' '471.' ?'17 .'>4
7.11 5, 1.' ;.'>.% " ?.7 7.' ?5' <.;,<7 J4.' '4%E,178 -6 U -6
5.'> 16, ['8%1.67.1" <.471.8 5" 6,4-.1' <;7> < .< '??'1'
5 .<>1" <'U 4<.'<'U '471.'>.6 >.4@ ?4 66'<;.68 .5' .55.'
6.1";,<-.17 ..< >>6.17% <E <8 ?'1 '17 ;5. 8 5" 1,<'
7 #1.' 6.' 71,4-.' 1 J5..8 U #J'1> >.6 > 671 ;76 641 5" J'4M
;..'>.' <<'8 > '?1 6 4<.';'17.' '0,45#.' '4 / / .' '17 ;5.%Y
=, % L 0, E
% +' '1;:>4;'H1'<;, 6 6 .67 '466' / 6 .< 1,47.'
?,41 5" K,:> / .% +' .'>.?'17 >.' . / ?.1.41 < '41" 5 .4
=4.'>. / '< ,4 '?1#6 >. / '<% +' ,6 >1, 76 > .<71#.' U
1'J4.'6.1,<7 646?.<>40 >.?4 6 5.' '>.';.' / , 6 046=4 '4
'6.?5. / 01.%%
.<71.-4.'>.' . / ?.1.41 .7 >4 1, '>.' 1466.' < .67 ?546
>,47.46.I .55.' '41" 5 .4 5.' C9 ,4 5.' C(>.';.' / , 68 '4 ;:U'
;'4 >.' 5< 508 =4 ' .67 U .5.;5.41 >.' '@.I ;.' ?1 <;.' .7
%7,47. "E'< 55.' 6V 71,4-.1,<7 U ;.77.' .?,=4.I 5.'>4.' >.'
'@. ;/ '%1 6 V 1.<>1" '466 % +' . / ?.1.41 '41" U 6"
64 7.'5.' / '1#;:'5>.' '6;V .7 5.' 0'1,< >.' ? .5 / '<<8 =4'
"';,<;54 5" ;,4-.<5 ,<.'>.' ;5 .<0';:%
.67 641 5" >. / '<>.' >.6 #7'56 >.' , / 0'1> .' =4.' ,<
V E' 7 / '1;:.1 4 '1>J / .<7 >.' J'1< 6,< .7 5.6 71, 6 E.7<.6
%0'7' 55,<6 >.8 .55.J1 <'.7 > '1;5 >4; ,6.?:8 'E <>.;, / '
?5>7.1 ?'1 U 5.' 4, / 01.'>.' >@ / 55.' ;, / / .68 '=4'>, 7
6 V 71,4-.1%
'V " .4 '5.' 9 >.';' / , 68 >.6 / '<,.4-1.6 .@#;47>.6
0 '1 5.' ;,1?6 > '17 55.1 .' >'<6 5" ?5' <.'>.' / / .1 <J N
. / ?.1.41 .7 5.6 '1;:>4;6 6.6 E 56 V ,=7 '66 67>8
8 .5.;7.41 >.' 'V.<;.'<-,V> ;1 4< / < 651.'1>6 '
A>'<78 >'<6 5" ?.16,<' .>4 0'1,< '57.1 > 5'<>8 =4 8
5.' U >.';.' / , 68 1.' / 7 U % % %8 >'<6 4<.''4> .<;.' ?'1'
7 ;45 .1.8 6.6 5.771.6 >.' ;1>'<;.%
"1'7 E ;'7 ,< >4 71' 7> >.' ?' @;,<;54 U .0 67, [' V4'
0#7> .<-,V>.'0 '1 4< ;,411 .18 5.' '>.'.' / , 6%
< '-' 5 > 7 =4.' 5.6 =4'0.' 0'7' 55,<6 >.6 1.J / .<76
0,<J1, 6 6.1' .<7 64??1 / .6I / ' 6 ;.77.' ,?.1'7 ,< " >>
646?.<>4.%
'1 / ..'=4'>7' 7.<';7-7>;, / / .<;.'U?1.<>1.'> '4'
871.6 =4'15 .16I 5.1>J / .<7>.' ';/ <8 ;'-'5.1 .8 - .<>1"
;'1. / ?5';.1 5.6 ;:.-'4 5>J.16>.a <6 8 =4'6.'1.<>1,<7
%>'<6 5" ,1'- .% .6 4:5'<6 6.1,<7 ;:'<J>6 .< >1'J ,<6I
.6 ;'1'0 < .16 >'1;:>4;H1'<=, 6 .7 >.'>4.' 50.176.%1.<'
>1,<7 >.'5" K,:. / .'>'<6 5" B,<J1 .I 5.'1>J / .<7 >.'
%-'5.1 .'>.' a'-'<'J:' / '1;:.1" >'<6 5" K,0> / .I 5.6 ;4'
1'66 .16 >.' B,:.<0,55.1<' 1,<7 '4@ 'V6 K'6I ,< <;,1'
%?,1.1" >'<6 >.6 1.J / .<76 >.' J'1< 6,< 5.6 1.J / .<76 >.'
%K.5J ,0,6,'.7 >.' #'?1'1'%
%> 15, 6 5,J.';0.0 ' / 0'66'>.41 > ?'J<.I 5.'5.<'
>. / '<>.' 6,< '11 ->.' >'<6 ;.77.' - 55.8 5 6 .67 1.<>4
8'4 ?'5' 6 / ?.1 '58 ,U . / ?.1.418 / ?>1'71 ;.' .7 7,47.'
5" E' / <.'54' ,<7 E' 5 5.' ?546 7.<>1.' ';;4. 5% <;1, 7=4 5
0 .'1.<>1" '466 U 1'J4.%
;$! C(' ,47% +' .' *'>.';.' / , 68 #;17 ,<
>.' 1.-.68 5 V .47 4<6,45.-. / .<7 >'<6 ;.77.' - 55.8 =4 ,<
8< " ?4 1#?1 / .1 =4 .< . / ?5,V'<7 5.6 71,4?.6I .55.6 ,<7 .5.'
005 J>.6 >.' E' 1.' E.4 641 5.6 6#> 5 .4@8 >,<7 71, 6 ,<7 ##
%74#6 .7 ?546 .416 '451.6 05.66#6% < J<,1.' .<;,1.' 5.' / ,7 E
.7 5.6 ;1;,<67',;.6 >.';.77.' <6411.;7 ,<%

? %

% ' ' ' +' ' ?1 <;.'>.' .4668 .<-,V>
>.' . / ?.1.41 U ;.77.' ;,418 .67 ' 5.' U '1'J4.%
% <> 7 '66.0 ?,6 - . / .<7 =4.'5.6 1>J / .<76 >.' .67?0'G
5 .'6.1,<7 / 6 641 #5'5 >.' J4.11.' U >'7.1 >4 G' 6.?7. /

01.% < 6 ,065 <.' U -,45, 1 E' 1.' ;1, 1.' =4.8 >'<65.;'6
> 44.' J4.11.' .<51.' / ? 1.' .7 5" H1'<;.8 5.'1, 'E,41<1"
4< ;,1?6 >.' - J7 =4'71.' / 55.' 0, / / .6 >.'6.6 71,4?.6%
'\' <.' ?'< .'6.45. / .<7 >.6 ;:.-'4@ > '15 55.1 .' =4'6,'7
1.-.<46 >.'5" 1466.' $ #7.'1#E,1 / ..%%
.6 =1>1.6 6,<7 >,<<#6 ?,41 5.6 / '<,.4-1.6 >.' ,76M
>' / '8 =4' '41,<7 5 .4 ;.7 '47, / <.8 ;, / / .'U ,1> <'1.%
' / 0'66'>.41 >.'5" ,17.8 >,<7 5" / 66 ,< ?'1' 7 #51.'
E < .8 =4 77.1'8 > 7 ,<8 <;.66' / / .47 ;.77.' - 55.' ?,41 1.'
7,41<.1 U #,<67'<7 <,?5.%

! 5

' F 8 ' ' ' + % >.' ! 1'- <'8 ;, / / '<M
>'<7 >.' .6;'>1.' .6?'J<,5.'U 1'<8 .67 '11 -.' ;8 .7 " '?'
?,159 " <,4-.55. =4.' 5.0.V >.' '6;'1" 6 #5'7 1.7 1.'>.'
>.-'<7 ;.77.' ?5';.' '-.;'7,47.'6,< '1 / >.I 5 ?'1' 7 =4.'
.<71. / 6.'>4 >.V > 5J.18 .7 6417,47 '1J.<7 >, / 'U
4< .7 U '471.8 ,<7 ;,<51 04# U ;.77.'1.71' 5.%
' / 0'66'>.41 >.' '1,'.67 .<;,1.' ; 8 ;'=4' '<<,<;.'
=4.' ,< ;,<6.1-.'7,40,416 =4.5=4.6 .6?>1'<;.6 >.' ?' @%
'.67 ?1,0'05.' =4 4<.';.17' <.'=4' 5 7> >.' ? '671.6 '?5''
< 1" 7,47.6 5.6 > EE ;457>6 =4'6.'6,7 ,??,6>.6 046=4 ;'4
64;;U6 >.';.77.' <>J,;'7 ,<%
< 6 '77.<> U -, 17,47.6 5.6 ?4 66'<;.6 1 ;5' / .1 ;.<71.'
5" E' / ,4 .'5, =4' ;.'66.'>.' 6?'J<.'7,46 5.6 > 1'<J.168
;, / / .'>7'<7 >->. / / .<7 ;,<71' 1.' '4 >1, 7 >.6 J.,6 .7
640-.16 -.'>.'7,46 5.6 71' 7>6%

! %

' +' % '6 B.1'6 &<, / / >'?'1 5.' ;'0 <.7 >.'
'>1> ?,41 E @.1 5.6 <>. / <7>6 '4@=4.55.6 5.';'?5' <.'
.'1.6 .7 6.6 ;,'66,;>6 ,'<7>1, 78 -4 5.6 ?.17.6 =4'', 7'
1>6457> ?,41 .4@ >.'5" 6'6 .'>.'5.416 <'-1.6 U , ,5''
,4<>P -.<7 > '11 -.1 >.' '1 68 5 71' 7.1" '-.;' % 5.
;.;.-'5 .1 '5?.' ,5E,1>8 =4.'5.';'0 <.7 >.' '<7 ' / .6
" ;'1J.'>.'7.1 / <.1';.77.' 'EE' 1.%
<.'5.751.'>.' .[;'675.8 - 55.';,<<4.'?'1 6,<?1,> J .<@
;, / / .1;.'>.';:'10,< >.'7.11.8 '<<,<;.'>.6 '55.<7'56 0 .<
.EE1'V'<56 ;.<71.' 5" ?1,?1 >7.' .7 5" 6:1.5.'>.6 ; 5,V.<6%
#.6 01 J'<>'J.6 ;, / / .<;.<7'U >.-.< 1 <=4 >7'<56 ?'1
5.41 E1.=4.<;.%
.?4 6 :4 70,416 4<.'71,4?.' > <;.<> ' 1.6 <,46 7 .<7
>'<6 >.6 71'<6.6 / ,17.55.6% 6 ,<7 .66'V> U ?546 .416 1.M
?1 6.6 >.' / .751.'5.' E.4% #.6 ';;>.<764-' .<7 > '0,1> ?'14
.EE.7 > 4< / '5:.41.4@ :'6'1>8 / '6 .<E < 5" -.17'05.'
;'46.' .67 ;,<<4.'.7;,<67'7>.% .6 6;U5>1'76 '-' .<7 E,1 / '
5.' ?1,0.7 > '0,5 =4.'>.'> 714 1.'=4.5=4.6 / '6,<6I 76 ,<7
1.'5 6.'5.416 '0, / <'05.6 >.66. <6 >'<6 5" <4 7 >4 C I 76
,<7 <;.<> >4< J1'<>' / 'J'6 < .7 5" K'<=4.8 >.' / '<>1.'
=4 5 < .< 1.67.' ?546 =4.'5.6 ;. >1.6% < ;1, 7 =4 56 6.'
?1,?,6' .<7>.' ? 55.1 5" - 55.' '4 / 5 .4 >.'5";;,<67.1<'7 ,<
J><>1'5.'>.'6.6 :'0 7'<76%

% H # %

'8 ' ' % + 5 .1 > / '<;:.8 5.6 4 5.1 .6 E41.<7
,4-.17.68 .7 7,47.6 5.6 ;,<6 J<.6 5.->.6% < J1'<>'<, / 01.'
>.';7,V.<6 1. / ?5 66' 7 5.' / '7 < 5" ;:'?.55.' >4 ;:'7.'4%
4 / , / .<7 , '5.%1, 'V .<71" ?,41 .<7.<>1.'5" / .66;8
?546 .416 -,@6 >;1 >1.<7N 'M #
+' '1, E47 641?1 68 .7 <.' ?47 ;';5 .16,< >1, ,5 ,<%
<-7;,5.1 >.6 5'1 / .6 >.'6.6 V .4@I '5,16 ' .< .<> 5 >.'
7,47.6 ?'176 5.6 ;1 6 >.' +' < > 6'
5 <J4" ?'15 ;45 >1. / .<7 ;.6 ?'1,5.6 ?1,<,<.>.6 > 4<.' -, @
E,17.'N $ +'
'1.<.' '; / ?'J<' 7 5.'1,% .' - 6'J.'>.' =4.5=4.6 0'
0 74>6 >4 ;U7.'48 641 5.=4.5 >7' .<5 ?.<76 5" 1 65.66.' .7
5.'6.<7 / .<7 > 4< >>? 7 ;,<;,<71>8 ; .<71'67' 7 6.0 ?5''
6' / / .<7 '-.;5.6 E J41.6 ,4-.17.6 .7 J'5.6 >.' '?'71 , .6%
B .1 ,< '5 ' ;'4< ?5';'1> <5 745> '8
8) 1 ' #.7 >;1 7
;,<7 .<7 4<.'><4 / >1'7 ,<>.6 0 .<E' 76 >.' ,4 6 " ' .<'
-.16 6,< ?.4?5.% .6 5,4'<J.6 5.6 ?546 >>J,74'<7.6 6,<7
?1,>J4>.6 '4 1, % .6 / '1;:'<>6 >.67' / ?.6 '-' .<7 .@'
?,6 '-.;'4<.' .6?>.' > 'EE.;7'7 ,< 5.' > 6;,416 ?1,<,<.>
?'1 5.'1, '5.' E>-1 .18 '-.;5" 5" 5.771.' '4@' / 0'66'>.416%
F ' E1>1.'>4 1, 8 " >;1 7 >.' #,05.< 8 U % >.'
,<7.6=4 ,48 ?,41 54 '>.7<'<>.15" >> / 66 , ' >.'5" ;:'1J.'
>.'6,< ?1. / .1 >;4V.18 .' / ,7 E .@?1 / > >'<6 ;.77.'5.771.

;655' ; , <>4 7.' =4.' % >. , 7.6=47,77 '7.<'.'>.?4 6' .'
'Q4 <f W.55.' 1.<>'>.6,1 / ' 6' / ?,66 05.8' > 7' ;.' ?1 <; .8'
7,45.'5 ' 6,< .<51.'<,46\' \' %
% >.' ,<5.6=< , f ''1>?,<>4' ?'1'U .<-,'>.'6''>> / 6'
6 , P% .< < .65' ? <6' : ,<,1'05.8' ' '' V.,@' >.6' -1' 6' ?' '
% 1 ,5.68' =' <.'> 6J1';.'1,,5 ->.'>.' '6,'7.% 'E'47' =4 4<.'
; ,<>4 7.' ' 7' >7>'0 .<'?41.'?,41' =' .55.'?'1' 66.'6' ; ,<>' / '
8' <'0 .' '' # ,05.<70%
,46' >.'-,,6' '-.17 1' >'=< ,<'' / ?1 / >'>'<6'4 :.'1.4 55.'
?405 =4.'4<.'5.771.'>.' F '' % >.% ,<7.6=4 ,48' . 78
5'' 1>?,<6.>.';.5< ; 8' / '76' =4 .5 4<.' .7' '471.'6?<7'1'?'
?,17. .6' 1'6 <E >' . / .<7%

' ' ' ,'1 ' 'A (' G '
' ' ' ' . 3 ' '

% '<>1>8' > 1; : .8' 1< ,45>' 401V% +' K'0 .V8'
K'1<'- .8' K'1'1. .40';8' K. '4 / .708' K5'<;'68' K, 66,<.78'
K1 55'7 '-'1 <8' K1, J5 .8' K<0,7% +' #' / 468' >-E5=4.'>4'
#'<7'58' # :'01,4>8' #0' 55,<8' #0'?.5 .18' #5 '7.'< .<'<> '
#,4??>8' #1 55,<'5.'Q.4<.8' # :1 67 <% +' .6 / .4< .168' <'
5 <10.178' 4 / .508' <?,17% #'1'7Q.4<.8' ! >1'1>8 ! ,41'
>'48' ! ,66 <8' ! 4 55' J<.% +' a .1- .5.J'<% +' 5.@'<>1.'
' / .508' ' / >71 .8' '?,45.8' '1, ; Q.E,4;'45>8' '- .8'
.65.1?'Q.4<.8' '< ; ,417% +' ' 55'1>8' '5,4.78' '1'
# :' 68' .15 <8' ,55 .<8' ,< : .1,< ' <>8' ,4J <6% +'
.1 =4.'>.' '1 68' >7 ,<8' 1>->78' 1 .41% +' '0'4>'
K' <7 5 .<<.8' .J<'457Q>.' ' <5 .'< > <J .5QP8 ,<>.'
55.8' >->=4.'>.' ,4.<% + ; : [.<>78' .V ` % +' '55.VM
1'<>8' '1J .78' 0 ,41.78' 1. 5:'1>%

' ' ' ' ' ' ' ' ' ' ' F

' +.$'/ 3('BH' *$ (,'BHTB

*' 36(.')+. *' -(' @+$)/ 5 $5 (' ('+36(' 4+.' ($4(!'
.$(*3('3( )$(*' (-(,) (.+,$ *'' -(' +' -$(,(' -('. 4$.(''(*,'
*9 ('/ (,'5 $5 (' (' ' 44 '('5 (' (' ' .' + #+$.('
-('' 4.$*3('' 4 ''(''$ **('' (*' '+3(' *(''(.+' 4+'' 4 .,(' -(' '$'
,),'+ '4.$*3$4+' 3 $''+$.(/ ('*(' 3. $'' 3(4(*-+*,' 4+'' -(1
0 $.'4(.-.(' -(' ,(4'' 4 .' 0('' (24 $5 (.' ('' $*,(*,$ *'' ' .'
+' +*$).(' -(' +*$#(',(.' *' 03(*' +' 3(,'(9+.-
(,,(' + +$.(/ +' +5 ((' -('' ,$#'' 4+.,$3 $(.'' *,- **('
('9.+-('$ 4 .,+*3(/ ('4+.+$,',.('!'$ 4 (/ (,/ '+*'' +'#*!'
(',(' +$(' -('') ('/ - *,' $*,(.(,'( ). $ (' ('' 5 ('1
,$ *'/ -$(''' (.+$(*,'4.('5 (', ,(''+ ''$' +$'((''+.(' -.('5 ('
3((!3$' +' .+*3(/ 6'5 $' % $'+3(' +' (,('3(-(('(*',(,(' ' *!'
0(.+$*(,(/ +' 3(.,+$*((*,' (' - . $,' $ 4.('3.$4,$) (' - 8' ' 4!'
4.$ (./ '+*#$*-(*Y(/ ('' - . $,'' #(-+ '' 5 (/ -(4 $'' *9!'
,(4'/ +' 46$ ' 46$('+0+$,'#.+44-'' -('3+- 3$,(' '#+ ,'0 $.'
'3' #+$3('$ '$ *' +' ' $!$*- ('4 .' *$(.' 3('' 0(%.$,('' -,(.*($$('7'
+$'' ('' (* ($''$*,-.$(.'' (,'(U,-.$(.'' -(' +' .+*3(' +0+$(,'
3 *5 '+' 3(,'(9+.-' -('0+',('' (,' 36$ (.$5 ('' ('4(.+*3('' ('
4.$*3$4(' 5 (' *' +' +0+*3-' (*' $,(/ 5 + 3 *' R,+,'-(' .R !'
4$.(' *('4 0+$,' #+$.(' ' 3(,'(9+.-' -(' ,.+*'+3,$ *' 4.$0+,$0('
'+*'' (' 3 *'(,((*,' 9((%.+ / (','+ ''$' -(',$, (' -(' # *-(!'
M*(*,' +*-' +' +$' *' #$,/ (*' BH B/ (36+*9(' -(' +' 4.$*!'
3$4+ ,-' -(' + / - '3 ,(' -(' -*-,.+*9(/ 4 ''(--'/ 4+.' $*'
-0' '4+.' +' .+*3(' (,' ('' 4.$*3('' -(' + / ,('' + ,.('' ,+,''
- 4$.(' # .(*,!$ '' +44($-'c' # .(*,!$ '' 3 *' ,-'' c' ('' -36+*!'
9('' #+$,''(*' -(.*$(.' $('4+.' ('- (' -(' % b $.,( )(.9/ 4+.' .+4!'
4 .,'+ '(,--(' *,) ($+.-/ *,!$ '' (') (' $*' -%+ ,.(' $*1
,(.0(*,$ *' 5 (' -(' (($(' -('' 4+.,$(''3 *$.+3,+*,('/ -(' ((('
-(''+9*+,'/ (,' -(' +' .+,$#$3+,$ *' -(' +' -$(,(/, ,.'' '$,-(' (*'
4+.(,$' 3+'H' +$'' 5 ($ (' 6 ..$) (' 4 $,$5 (' 0 -.+$' +44($(.'
' (+9*(' ('# -+ ' -(' +' 9 (..('4 .' -(' 4+.($ '$*,(!'
.-,''7' - (3,(4' 4+ +# / 3(' 4.$*3(' - *,' +' '+9(''(' *(' 4(*,'
-,.('3 4+.-(' 5 %+' '+') *,-/ (,'4 .' (5 ('0 ''3 * +$''(U'
' $*0$ +) (' +,,+36((,/ *(' '(.+' ' .((*,' 4+'' -(' 3(,'
+0$'/ +- 4,-/ *' *(''+,'4 *.5 $/ 4+.' +' 4-, +*,(' 36+*((!'
(.$(' -(' +8(*3(' 8(+' +' 3(,'-9+.-' (' $*$',.('3 $,$+' -('
''+0$(.(/ (,' $9*(U!0 '+' $
-- $'(U' *' 0(+ '+' 3(3$,' BD' 5 (' ' ' / - *,' ($,.- ('
4. -(*3(' (',' *')$(*#+$,'- '3$(' -+*'' 3(,,(' 33+'$ *' ' $,'
44 $-(' 3' -$'3 ,(.' ('' $*,-.-,'' -4'' 4.$*3('' 4 ''(''$ **('' (*'
'+3(/ ' $0+*,' ('' -,+,'' 5 %$$''# .*$. *,/ +0(3' ('. $'3 *',$!'
,,$ **(' -('' .+*5+$'/ + '$, ,'5 (' ('' 3$.3 *',+*3(''+*. *,'
4(. $'' 5 (' $('4 0 $.' (2-3 ,$#' ' 4.- (/ ' '4(*- '4 .' ('
$* (*,/ $' ' $,' .(*- 7 W ' -(' *('4 $*,'4 .,(.' ('' 3 *,$*1
9(*,''$*' - 4 ' '5 %+' 3(' 5 (' -(''3$.3 *',+*3(''$ 4-.$('(''
N (2$9(*,'<3(' 8(*/ 44.(''$#'4 .' ('' 4(,$,'' ,+,'/ *(' '(.!'
0$.+$,'5 +' $ (2,(*'$ *' - ' -('4 ,$' (' -+*'' ('' 9.+*-'/ '$' +'
'+9(''(' -(' * ,.(' 3 *',$, ,$ *' *(' 0($ +$,'+' +' $) (.,-'$*-0!'
- ((?7 %D -(' ' 44 $(.' + 9 ',(' 36(# -(' 4$.(/ 5 +*-'
3(,,(' *-9 3$+,$ *' '(.+' # $(/ -('.(* 0((.'+0(3' +' .+*3('/
+5 *(' -(' .R## e=$.(/A(+' ,.+ ,(3' -+ $(/ - + $+* (' (,' -(

3 (.3(/ *-(('' '+$.('' +' +' 4. '4-.$,-' -('' -(2' *+,$ *' 'A('
- $''0 '')'(.0(.'5 ('7'5 +*,'+ ''(3 *-' +.,$3 (/ 0 ''0 7'
$*-.(U' +' + .$,-7 +$'/ 5 +*,'+ '4.($(.'(,'+',. $'$(('
5 +*-'0 '' '(.$(U' .'5 ('3(' 0((''(.+$,' '(*2' -(' ((9(*.('
-+*'', ,' ('3 $$-9(' -(''4.$*3('/ ('*('0 ''(*' .(3 +*-('
4+''## $*'' -(' (' +*$#(',(.' +' 4.($.('(,'+'4 ''+(.-('-('
< .$-,-'' (',' +' 4(*'-(/ (,' ('4.($(.'-(0 $.'- '46$ ' 46('
' 6 ('#$).(' (',-(' +' (**$5 (.'2' '+' 4+,.$(/ 5 ('
5 (*' 4*$'' (' (,.(' (' ' 33('
' A(' $'/ +0(3', *'' ('' '(*,$ (*,''5 ,('0 '' (' (* +#'' '(U
H'>, <.8' ' ' AD3 &

H B < 1' ' > >' ' ' K B5:KK' >. aK%
' '8

') % +' % '67,1.78' ?1, ; 41.41' J><>1'5 6V?>:'>W'
>>?'17. / .4
4>8' + % ! .1<77 8' '> / <5671'7. ,1%

' ' A A\

5 % ,1.78' ?1, ; 41.4 16V<> ;' >4' > 1. ;7, 1.'>.' ,<'
7, 6.f K'66'58' ;41> >=' ' <7 ,4 6' >.' .16' 55.6f #,5'68'
/ ' 1.'> 1J.<7.4 %

' ' A (F

% % '4; , 178' ?1>6 >.<7 >4' >>?'15. / .<7N B>0.178'
.> 55.08' .< ,6 '405'<;8' ?1, ?1 >7' 1.6f .J<'1> . '
;5'4> <f ,5 - .78' '> / < 671'7.41' >=' > 1. ;7, 1.'>.' >>?'1'
7. / .<7f '5.'48' ?1, ?1 >7' 1.8' / ' 1.'>.' ,<7.1.'41 '1.E8'
> . ;7 ,< ; ,<7.65>.' E'47.'>.' 1. ?5 1' 5.6' ; ,<> 7 ,<6' > .5 J'
0 5 7>f 404 66,<8' 34'71.6,56 . / '1 55.68' ; : .- '5 .1' >.'
' <7 >4 68' ?1>6 >.<7 >4' > 671 ;7 >.' ,6, Vf K.Q,78' 'J1 '
;457.418' '>E 4 671'7.41' >=' > 1. ;7, 1.'>'' > ?'17. / .<7%

' ' '

% ! ,40.78' ;457 -'7.418' '> / < 671'7.41' >''> 671 ;7 >.'
,<7> > .1f .60, 6 , ;5 .E,178' >->=4.'> < .<6f ,V.4@8'
;457 -'7.418' / ' 1.'>.' 3'67 J<V8' > 671 ;7 >.' >1,<<.f ,4 6'
34 55.78' ;457 -'7.41' ' #1' / ,<78' > 671 ;7 > 00.- 55.%

' ' A AG

% K1 66, ,%

' '-

% :>,>,E.' ' / .70%

' ' ' A:

% ' ;=4.6' '7: .48' ?1, ; 41.< ' J>< 1'5 6V<> ; >''
>>?' 17. / .<7f ' ;=4.6' K14< ; 8' ?1>6 >.<7 >,' >>?'17. / .<7f
#1 67,?:.' a , ; :8' ?1,E.66.41' > : 65, 1.' .7 >.'>1, 7' ?405 ;$'
,6.?.' 5: .5 / 8' / . / 01.'>77 > 1. ;7, 1.'>4' >>?'17. / .<7%

%

(' *+0$.(' 'G ' -' 4 .,' -(' ', **(+ '/ 4 .,$$'
- ' T I' + ' ' ' '(4,( ).('4. 36+$*/ 4 .' '(' .(*-.(' -$.(3,$'
$4(*,'+' .$ (!-(! .+*3(
('*+0$.(' (',' *(#/ -) -' (*' (*$0.(/ (,' +' -('' 9(*'
3 *0(*+) (''4 .' -(''4+''+93.'7 ; .4b' 5 $' - -'$.(. *,'' 8' (*'
)+.5 (.'4(.(*,' +- .(''(.'2' ' 0(,'(,'3 4+9*$(/ +$'
+,(*.7 +' ' ''+.+)(' (*(/ 3+4$,+$*(7' ' $' ' $''$('
3 .,$(./ +' '' .-(+ 2

"

' " '

8 ' 'F '

, ' (' ' ' '/7' '<9' '
' &

X' 3 2 , , B$& ' % ! %$ '%(* ,'%4! ' &%' , !'
! &' & , ' ! % ,'& ' ' ' ' , ' .

/ +'$!

'$ ' 3 ,'(! 4 ,'&2!** ,'&2 , ,% ' '& '
A % # (% $,'& ,' ' 00 ' 0 '
%* '$ '& '$ '$ '& '$%'$! '& ,'/7' '</'% % ' /17/

=4 .< ;@ [; .<Q7 ' ;74 .55. / .<75;6E,<;7 / 68 ? , 411.<7
E 71. <,< / . 6 '4@ ?5' ; .6 > ;66'V;41 .7 ;5. J1' - .41
;1; . .6 ? '1 '17% ;74 5 71. > . 5' / >7<. 5, 8 6, 5
>'<6 5.6 1 < ;6 ,<<'5.6'4@= .55.6 56 .7' .<7'77'
; : .68 6, 5 >'<6 > '451.6 ,< ' .6 >4 1,V'4 / .8 6'<6
71. '664Q.77 6 ' 5' E,1< ; 5 7. >4 ; , <7, 416 ,1>,<<.
?'1 '17% >4 / / . 5 71.%

W % ' /E / . .@; .?5 ,7 ?,411' ' - , 1 5 .4 ?,41
; .40 =4 .@.1 ' .<7 5.6> 7.6 E,<;5 ,<6 > . 6'V.41 .7
> . J1' - .41 .< - .174 > . ; , / / 66 ,<6%

% $ % .6 .66'V.416 .7 J1' - .416 ?,41-46 > ,EB; .
' - '<7 5' 64??1.66 ,< > . 5' # ,41 >;6 ,<<' .68 .7 =4 8
' 1' 6 <> . ; .77. 64??1.66 ,<8 < '41' .<7 ?46 V 5' 1.
1. ; . - , 18 .1,<7 . J' ; / .<7 > 6?.<6.6 >4 ; ,<;0416%

$ % .6 > 1. ;7.416 >.6 ,<<' .6 <. ? , 411,<78
6,46 ?. <. > . 1. - , ; '7 ,<8 - .<>1. < '??5 =4.1 ' '4
;4< 46'J. =4 ' 5' E'01 ; '7 ,< > .6 .6?. ; .6 5.6 / '7 .
1.6 =4 6.1,<7 - .16>.6 '4 ; : '<J. > .6 / ,<<' .68 6, 5
?'1 5. ?'17 ;45 .168 6, 5 ?'1 2.6 ; : '<J.416 8 < E' 1.
1. ;7. / .<7 ,4 <> 1. ;7. / .47 '4;4< ; , / / .1; . >.6
/ '7 .1.6 > ,1 .7 > '1J.<7%

$ % . ; , / 1< 66' 1. >4 1, >7'<7 6?>; '5. / .<7
; : '1J. > . - . 55.1 5' : . '47> >.6 . / ?1. <7.6 >.6 .6
? ; .6 <'7 ,<'5.68 6 5 6. 71,4 - . >'<6 5' ; 1;45'7 ,<
>.6 .6?. ; .6 / '5 / ,<<'V>.68 5 .< 6.1' 6.?5 1.6?,<
6'05.I .7 .< ; ,<6.=4.<; .8 5 .1' ' - .17 > '??,17.1 '
' - .< 1 ?546 > '77.<7 ,< >'<6 .@.1; ; . > . 6.6 E,<;
7 ,<6% ; .77. ; ,<71' - .<7 ,< 6. 1.<,4 - .55. 4<. 6.
; ,<>. E, 6 >'<6 .6?' ; . > . >.4@ ' <. .68 5 6.1' 646
?.<>4 > . 6.6 E,<;7 ,<6 ?.<>'<7 71, 6 / , 68 .78
?.<>'<7 ; . 54>1' . 7. / ?68?1 - > > . 6,< 71' 7. / .<7N
6 8 >'<6 5. / > / . .6?' ; . > . >.4@ '<<. .6 ,4 > . =4'
71. 6. / .671.68 5 7, / O. 71, 6 E, 6 >'<6 5' / / . ; ,<M
71' - .<7 ,<8 56.1' 1. - , =4>%

$ 5% .6 E,<;7 , <' 1.6 ?'17 ;45 .16 > . ; : '=<. :>
7.5 >.6 ,<<' .68 = 6.1,<7 .7'05 6 .< .@. ;47 ,< > .
'17% >4 5 71. 8 > . 5' 5, > .] * .7 C / ' 8 .<71.
1,<7.< E,<;7 ,<6 '< 6.?7. / 01. ?1, ;O' <8 6'<6
=4. <. '< / , <68 >'<6 c. ; '6 , : 56 <. 411' .<7 >71.
<67'55>6 >?,=4. >4> 7 Q, 418 5.6 ,EE ; ;16 64??1
/ 6 ?4 66.<78 ; ,<E,1 / . / .<7 '17% >4 5 71. 5. .8
> 6; ,<5 <<.1 5.416 E,<;7 ,<6 ' - '<7 <67'55'7 ,< >.67
> 76 E / Q;7 ,<<' 1.6%

$ % .6 J'J.6 .7 / ,54 / .<76 '771 04 6 '4@ ,E
E . .16 64??1 / .6 ; ,<7 <4.1,<7 ' . ,41 1 Q46=4 '4> 7
Q,41 5.1 6.?7. / 01.N 5. 71' 7. / .<7 >.6 E,<;7 ,<<' 1.6
?405 ;6 7'05 6 ?,41 5.6 1. / ?5' ; .1 ; , / / .<;#1' B
. ,41 1 >4 / / .Q,41I 56 < .< ?,411,<7 Q,4 1 <. '<
/ , <6=4. > . ; .54 > . 5.41 <67'55'7 ,<I .7 ; . =4 6.1'
. ; :4 > . 5.41 71' 7. / .<7 Q46=4 '4> 7 Q,41 '??'175.<
>1' ' ; .4@ >.6 ,E7 ; .16 64??1 / .6 =4 '41,<7 1. / ?
5.416 E,<;7 ,<6%

W 555% .6 .6?. ; .6 =4 6.1,<7 7<,<<'V .6 >'<6
.0'=4. :97.5 >.6 ,<<' .68 ' ; , / ?7.1 >4 5W1 Q4 55.7
> . ;5 '=4. '<<. .8 6.1,<7 > 67 <J4 .6 > . ; .55.J =4
'41,<7 .7. E'01 =4 .6 ?.<>'<7 5. 6. / .671. ?1. ; .>.<7
?'1 4<. / '1=4. >,<7 5 6.1' E' 7 / .<7 ,< >'<6 5.
?1, ; .6 - .10'5 > . 5' ?1. / 1. > 5 -1' ; .>4 6. / .671.
> . Q< 55.7I ; .77. / '1=4. < '41' 5 .4 8 ?,41 5' ?1
6; 7. '<<. ,8 =4 ' ; , / ?7.1 >4 Q,41 > . <67'55'7 ,<
>.6 <,4 - . '4@ E,<;7 ,<<' 1.6 ?'17 ;45 .16 >.6 / ,<M
<' .6%

W "% .6 > 1. ;7.416 > . > ?'17. / .<78 641 ' - 6 =4
5.41 6.1' >,<<. ?'1 5. / < 671. >.6 # ,<71 047 ,<6
?405 =4.68 > . 5' <, / <'7 ,< >.6 E,<;7 ,<<' 1.6 >.6
/ ,<<' .68 ; , / / .771,<7 >.4@ > . 5.416 / . / 01.6
=4 56 Q4J.1,<7 ' ?1,?,6 > . ; : , 6 18 ?,41 ?1, ; .>.1 2
1 <67'55'7 ,< >.6> 76 E,<;7 ,<<' 1.6 .7 .< >1.66.1 ?1,G
;#6 - .10'5% 8

W "% .6 ; , / / 66' 1.6 = 8 .< - .174 > . '17 ;5.
?1 ; .>.<78 '41,<7 7.<, / / .6 ?'15.6> 1. ;7, 1.6>.6
>.?'17; / .< 686. 71'<6?,17.1,<78 ' ; ; , / ?'J< 6 >.6
E, ;7 ,<<' 1;6>.5' / ,1< ' .8 ' : >7.5 >.6 ,<<' .6N
56 6; E.1,<7 1.<1 6.<7.1 , '1 ; : ' ;4< >;6<E7 ; .16

?1 / 6 7,46 5.6 1.J 671.6 7'<7 .< .W1 ?,66.66 ,<I
5.6> 761.J 671.6 6.1,<7 ' 67'<7;5,6.7 '11.7 6 ?
5.6> 76 ; , / / 66' 1.6 N 56 E.1,<7 <- .<7' 1. > . 7,
5.6 ,47 568 467.<6 5.68 / '7 .1.6 ,4 .6?. ; .6 E'01 =
=4 6. 1,4 - .1,<78 6, 5 '< ; : '<J.8 6, 5 >'<6 5.6 '7
B.16% E,<>.1 .68 / ,45 <8'Q467'J.8 / ,<<'V'J.8 ; : '<
01. > . >.5 -1'<; .8 ,< ?'17,47 ' 55.4168 .7 =4 5.
6.1,<7 1.J1.6.<7. 6 ?'1 5.6 ,EE ; .16 ' ;74.55. / '<7 ;
.@.1; ; .%

W " % .> % <- .<7' 1. 6.1' E' 7 7'<7.< ?1. 6.<; .>
; , / 1< 66' 1. >4 1, .7 >.6 Q4J.6 J'1>.6 =4 .< ; .5
>.6 '471.6 ,EO. .16 64??1 / 6 .7 >.6 <,4 - . '4@ E, 4
7 ,<<' 1.68 .< ; . =4 ; ,<; .1<. ; : ' ;4< > .4@ 1.6?, ;
7 - . / .<78 .7 6.1' 6 J<. > . Q, 4 6 ; .4@ =4 V '41,
; ,<; ,414%

W " % .6.6? ; .6 E'01 =4 .68 ' <6 =4. 5.6 / '7
1.6 1. ;4.6 '< ; : '<J. ,4 .< ; ,416 > . E'01 ; '7 ,<8 6W
1,<7 5' 66. .6 ' 5' J'1>.8 >4 <,4 - . '4 > 1. ;7.418 =
6 .< ; : '1J.1' ?'1 5.> 7 <- .<7' 1.8 .7 .< 5 7 >4 1.
J 671. >4 ; : '<J. =4 54 6.1' 1. / 6 ?'1 5. ; , / / 6
6' 1. >4 1, % 6.1' 7.<4 > .< - .16.1 5' - '5. 1 ;
.6?. ; .6 >'<6 5. / , 68 .<71. 5.6 / ' <6 >4 ; , / / 6
.@.1; ; . >.6 E,<;7 ,<6 >4 71.6,1 .1 J.<.1'5 >
/ ,<<' .68 ' .@; .?7 ,< > . ; .55.6 75.6 / '7 .1.6 =4.
> 1. ;7.41 64??1 / . Q467 .1' 7 '??'15.< 1 ' >.6 ?'7
7 ;45 .16%

W " % .6 Q4J.6 J'1>.6 ' ;74.56 6.1,<7 ' - .17 68
641- . 55. '4 ?546 5'1>8 >4 Q,41'4=4.5 > . -1' 6. E' 1
<67'55'7 ,<8 ' .5 .7 > . ?1, ; .>.18 6 E' 7 < ' .7;8 '
>.5 -1'<; . >.6 .6?. ; .6 =4 6. 71,4 - .1' .<5 E'01
=4. .6%

W " % .6 E,<;7 ,<6 '771 04 .6 ?'1 5.6 '17 ;5.
?1. ; .>.<76 '4@ <, / / .6 ?'1 5.6 > 1. ;
7, 1.6>. > ?'17. / .<7 6.1,<7 1. / ?5 .6 ' '1 6 ?'1 I
; , / / 66 ,< >.6 / ,<<' .6%

" % 77>.?.<>' / / .<7 > . '>Q, <7 >4 ; , / / 66' 7
>4 1, 8 ;1 ?,41 ; : '=4. ,<<' .% ?'1 5.6 > . ;1.5
>.6 * .7 C / ' 8 5 .< 6.1' .7'05 4< 6. ; ,<> >'<6 S
,<<' . > . '1 6%

W " % ' ?1,E.66 ,< > .6 'V.41 6.1' 5 01. ' ' -
< 18 .7 ?,411' 1. .@.1; . . ?'1 7,47. ?.16 ,<<.8 6,
>'<6 5.6 - 55.6 , : 5 V ' : >5.5>.6 ,<<' .68 6, 7>'
5.6 '471. - 55.6 >4 1,V'4 / .I ' 5' ; : '1J. / 5'< / , <
?'1 ; .4@ =4 - ,4>1,<7 .@;1; .1 5'> 7. ?1,E.66 ,< 8 7
1. / ?5 1 5.6 E,1 / ' 7 6 ; '?1 6 ,1>,<<. .6% .1,
4 '4 / , <6 > 6?.<6.6 > . ; .77. E,1 / '5 7 ; .4@ =4 6,
' ;74.55. / .<7 ?,41-46 > . ; , / / 66 ,<%

W " % ,47. ?.16,<<. =4 - ,4>1' .@.1; .1
?1,E.66 ,< > .66'V.41 6.1' 7.<4. > .< E' 1. 5' > . .O
1'7 ,< ?'1 . - '<75. 71 04<'5 > . ; , / / .1; .8 ,48
> E'47 > . 71 04<'5 > . ; , / / .1; .8 ?'1 > . - '<7 5. 71
04<'5> . > 671 ;7% . 71 04<'5 <, / / .1' >.4@ .@?.1
=4 > . -1,<5 1. ?1 68 6, 5 ?'1 / 5.6 .66'V.416 .@.
'<7 ?405 =4. / .<7 5'> 7. ?1,E.66 ,< 8 6, 5 ?'1 /
'<; 5 6 J% 1>.6 > . ,1E -1.1 .% <, / / .1' '466 4
> . 6.6 / . / 01.6 ?,41 '66 67.1 '4@ .@' / .<6 =4. > .
-1' 640 1 '6? 16<7%

$ " % .6 .@?.176 <7.11,J.1,<7 '6? 1'<7 6
5' : ,1 . .7 5' ?1'7 =4. > . '178 .7 54 E.1,<7 E' 1
?546 .416 .66' 6 > . / '7 1.6 > ,1 .7 > '1J.<7 ' >EE.
1.<76 5 71.68 5. 7,47 .< ?1.6.<; . >4 ; , / / 66' 1
<, ? / . J'1 5. 71 04<'5 > . ; , / / .1; .%

$ " "% .6 .@?.176 E.1,<7 5.41 1'??,17 ?'1 > . - '1
5.> 7 ; , / 1< 66' 1.8 =4 .< >1.66.1' ?1, ; 6 - .10'5%

$ 5.6 >.4@ .@?.176 6.<7 > ' - 6 4< E,1 / . ?,<
'> / 66 ,< ,4 ; 1.<- , > . '6? 1'<78 5. 71 04<'5 >
, / / .1; . 6. ; ,<E,1 / .1' ' 5.41 ' - 6% 566,<5> '
- 6 ; ,<71' 1.8 5 .< 6.1' <, / / 4< 71, 6 . / .8 =4
E.1' 6<0 1 ' '6? 1'<7 5.6 / / .6 .@' / .<68 .7 5.7.1N
?1, ; .>.1 44@ / / .6 ;@? 1 .<; .6% 5 >,<<.1' 6,7
1'??,17%> . 5' / '< 1. = >.6646 ?1.6;1 7.I .78 641
6,< ' - 68 5' > . / '<> . > . '6? 1'<7 ' 7 < > 71. 1.]4
.66'V.41 6.1' '> / 6. ,4 1.Q.7. .%

$ " "% '<6 7,<6 5.%6 .<%6% 5.6 '6< 1' 176% '4 5 .4 >;

[illegible]

)

A ,'& 4 ! '(% $$ @ ' A ! '$,' (,'& ,' ! K

X '3 ,E A ,& ' ! ! ,' -% E ! ')% '
,C(% '$,' ! 4 %A ,'& ,'%, (% ,' $,'&! #
! '$ '%4 ,' ,&(% & '(% ' ,'%4 , , #
! ,'% 'A %4 A& % ' '$,'* %'&% ,'
$,'4 A # % ') ,'% ', % 'A %$'& '$%'
! , , ! ' ' 'E! & %' (% '& '$,'!B, 4% ! ,'
V$! ' $'$,' ! %', , (B$,
X '3%' ($% ', %'% ! & '%' $ '& ,' ! K
,' '% %' !B '$%'($ %$ '& ,', ** %A ,'& ,'
E A ,'&* ' ! ! , 0

' ' # ' U' ? KK %

,'>.' %'5.6'6.;1.7' 1.6'E' 7'5.;741.N p'> 4<.'?.7 7 ,<
>.' '% ! 1'1> <' ; ,<'1.' 5'' >. / '<>.' >.' 1.@ 4 / '7 ,< >.'
% %' ,466.'4I C' > 4<.'5.771.'>< / < 671.'>.'5'' J4.11.8'
=4' ; .17 E .' =' .'5.6' / .641.6'5.6' ?546' ?1, / ?7.6' .7'5.6' ?546'
. .' ; .6' ,<7' .7.' ?1 6.6' ?,41' .@.' ;,7 ,< > .6' >#;1.76 1.5'7 E6'
'5'' 1.?'17 7 ,< >.' '1 / .' > .6' J'1>.6' <'7 ,<'5.6%I =4 4<
0'7' 55,< >4' >.?'17. / .<7' >.' 5'' .46.' .67' .<'1<'1;0.' ?,41'
, 74 .>I8' ,7 =4.'5.'1'66. / 05. / .<7' >.6' '471.6' ; ,1?6' >.'
; .77.' > - 6 ,< 6.1'' 7.1 / <.' >'<6' =4 <0.'0,416I' .<E 48' =4.'
5.6' 1.7'1>6' '771 :4.6'>' <.17 .'>4' / < 67.1.' ,<7' '4' ; ,<%'
71' 1.' .7.' ?1 ,>4 76' ?'1'5'' 71,?' J1'<>.' ; ,<;411.<; .' .7'5''
1 -'5 .' >.6' ; 5,V.<6' =4' '6? 1.<7' '' 5 ,<<.41' >.' >.E.<>1.'
5.41' ?'V68' .7' ?' 1' =4.5=4.6 > > ;457.6' 1.5'7 - .6' '4@ .=4 ?._%
<.<76%
$#.77.5.771.' .67'1.<-,V#.' '4' ; , / 7.' / 5 7' 1.%
'4 ''R' 2%(* ,'$,'*% $,'&! '$ ' ! $&' K
$ % '%'(,' ! % , ,% '$'(% % '$ ' , '
& '$%' A '%4% $'(&4 '(! '% , & '$,'&& '
' , , %B$ ' % ! %$ ' %' & ,' , ' ' !BE '
% '%' 2 , % ' & '&' $%' (B$ % ! '& ' ,'&&#
$,' $'%' 4! &'&% ,'$,'&&(% ,'& ,'& % ,' '
& ,'($% ,'& ' (% ! '& , A$ % ,' (!4 ,! ,'
(! '$ ' !& '& ' , 4 '& ,' A% & ,' % ! %$, ' ,'
& ,'$,' $% ,(! ', 4 '&2 , ! ,' '% '
% -'&&(% ,' *% -'A% & ,' ! %$,' '!** #
,'A& % -' ! % &% '$,'& 4 , ! , '3%'& ** #
$ &' & ' '4! ,'%4 N' 4! & '% ' ! &' K
$ % '' $% 4 '% -'& ('$ ' , '
2%4% '(&4E% ' '4! ' ! ' $ % ' ')% A '
& ' ! * '$,'& ,(!, ! ,' 2 $'%4% $'(, ,'%'
&A% &'% -' ! (,'%& % , % *,'3 ' ! &' ! '
&! '& 4! ' %(($ '% 2 , , B$& ' '% ' (!($ '
2% % ' $'*% '& & &' ,&4 ' 4 ,'$,'*! ! %#
,'(B$,' ' A$ A '$ '& 4! '% % '$' ,'
(! % ' (! '$%' % $$ &' (B$ C ' (! '$'
% '& '$%'$ B &' '& '$%' ! , ! ' 2! ' ,'
' 'A% & ' '$,', ! (! , E , ' K
'$,'% ,% ! ,' !('$ A& ,' ! '
$ '(!E '& '& R
W 66. / 05#.'<'7 ,<'5.8' <E,1 / >.' =4.'?546' .416' J'1>.6'
<'7 ,<'5.6' - ,5,<7' 1.68' .<1> .6' ?,41'5''>.E.<6.>4'1,V'4 / .8'
< ,<7' ?4' E,41< 1' '' 5'' >>?.<6.' >.'5,41' >=4 ?. / .<78' ; .' =4'
'' 1.7'1>>' 5'' / '1; ; .' >.6' ; ,1?6' =4' ,<7' > >' E,1 / >6' '5.41'
%>.67' <'7 ,<8' >>;1>5.' ; .' =4' 64 7N
.6' > 1. ; ,1.6' >.' >>?'17. / .<7' ?,41-, 1,<76'<6' >>5''
' 1>=4 ?. / .<7' >.' ; .4@ >.6' J'1>.6' <'7 ,<'4@ - ,5,<7' 1.6'
;<1 5>6' =4' < ,<7' ?'6' .< 5.6' / ,V.<6' > V E,41< 18' 5.6= .56'
6,4EE1 1,<7' 1.6?. ;5 - . / .<7' .7'64; ; .66 - .< ><'5 5'' 1.5.<4.' >.'
5'' >>?.46.' 1.5'7 - .' 641' 5'' 6,5>.' =4' 5,41' '' > >' '771 04>.' I
.< ; ,<6.=4.<; .8' 56' 6,<7' '47,1 6>6' 'E' 1.' '4@ >.?'17.'
/ .<76' 5.416' >. / '<>.6' ?,41' 5.6' ' - '<; .6' <>. .66' 1.6%Y
' 'R' ! ,'% N'&& ' 2 ' ! (,'& ' K
, 4 '& '4 A ' $$ ') ! , % (% $&% ,$2 #
'& ' ! % '' 4! ,'%4 N' & ' & &' $,'
(! ,'& ' %, , B$ ' ! ,'$,' ! (,'& '$ #
A ' % ' ' ! ' 'A% ,! ' (&,'& ,'* ! #
,' ' ! (,'& ' , 4 ' ' * (! % '
(! ' ! 4 '$%' %(% '&% ,'$ ' %,' ! $' ' (%, ,%A '
, %' '*! ' ! ' (! ' ,' (! '%'$%' (% '& ,' ' ! #
! ,' ', % '% % ' '& ' ' , 4 ' $'
2 '%' ' ' ! ' '$,'& -') ' ,') ! K
,' '$ '& (% '& ' % ,'%' *! ,'8 '& K

% & ' ' 2 , , B$& '('$,'& ,(!, ! ,' &K
, ,% ,'(! ' ' , '!B ' , ,% #
' ,! ' - !
' 'R' '& ,(!, ! '% %' ,! ' ** *
& ,' ' ! ,'$,'!B, % $,'% ! ,' (% '$%' 5.771.'>4'
, '& '$%' A ' ! '$ 4 ,' / / *% '(%$%B$ #
' ' 2 , , B$ '& '$%' , ' 'E '54'
% (! (! ,&
.'?1,0.7' >.'>>;1.7' >.' % #:'01,4>' .67' '>,?7 `
+' 41'5.'1'??,17'>.' % .; ,47.47@' 5.'>>.1.76, -'<7' .67'
1.<>4N
66. / 05>.' <'7 ,<'5.8' 641' 5.' 1'??,17' =4'54' '' 44
E' 7' ?'1' 5.6' ; , / 7>6' >.6' !<'<; .6' .7' >.' / .<> ; 7.' 1.4< 68'
>..17E7.' =4' 5' 6.1'' >>5 -1 8' 641' 5.6' E,<>6' >.' 5'' ; '66.' >.'
.@71' ,1> <' 1.8' 4<.' <,4-.5 .' 6 , / / .' >.' ' / 55 ,<
8 ' 5 -% ?,41'5.6' 6. ; ,416' ?1, - 6, 1.6' =4 .@ J; <5' 5.6'
0.6,0<6' ?1.66' <56' .7 / , / .<7' <>6' >.6 :>? 7' 4@>4' 1,V'4 / .8'
'4@' / / .6' ; ,<> 7 ,<6' >>7.1 / <>.6' ?'1' 5.' >>.1.7' >4')
04 55.7' (* 8' ?,41' '/ 55 ,<6' > 0 ' ' ; ; ,1>.6' ?,41' 5.' / . / .'
,00.7% Y
' - ' '' >.?47'7 ,< =4.' - ,46' ' - .0: ,<, '
1. .' : .1' >.' 5'' / 66 ,< >.' ?1. 6.<7.1' 4' 1, ' ' ; 7. ; ,< '
67 747 ,<<.5' .67' ?'17 .' >.' ; .77.' 6'55.' : .18' '' <.4E'
: .41.6' >4' 6 , 1I' .55.' 6.' 1.<> 7' '4' ; : '7.' '4' ' - .; 4<.'
.6; ,17.' > : ,<<.41' ; , / ?,6. .' > 4<' <, / 01.4@' >.7' '
; : . / .<7' >.' 5'' J'1>.' <'7 ,<'5.' ?'1 6 .<<.' .7' >.'5'
*.<>'1 / .1 .' <'7 ,<'5. I .55.' / '1; :'' 7,40, 16' '4'
14 7' >.6' '??5'4> 66. / .<76' >4' ?.4?R.% 55.E471. '
E4.' >'<6' 5'' 6'55.' >4' ; ,<6. 58' ,E7 .'1, '6 .7'R7' 1.<>48'
' ; ; , / ?'J<.' >.' 6.6' / < 671.6' .7' > 4<' '66.0' J1'<>'
<0 / 01.' > '471.6' ?.16,<<.6% <' ?1.6.<7'<7' '4' 1, '5''
; ,<67 747 ,<8' 0.' 54' ' ' > 7N
W .6' 1.?1>6.<7'<76' >.' 5'' <'7 ,< - .<<.<7' ?1>6.<7.1' '
,71.' '0.67# ' ; 7.' ; ,<65 547 ,<<.5' =4' ; ,<6' ; 1.' 5.6' >1, 76'
/ ?1.6;1 ?7 05.6' >4' ?.4?5.' E1'<=' 68' =7' 1.<>' '4' 71 <.' 6''
-1' .' > J< 7>8' .7' =4 1>J><71.' 5.' J,4-.1<. / .47' >.' 5 . / \'
? 1 ; %Y 8
.'1, '1.=47' ' ; 7.' ; ,<65 547 ,<<.58' .7' !7' '5'' > ?47'7 ,<
5'' 1>?,<6.' 640-'<#.8' =4 5' / ''1. / 6.' ; 1 7.' >.' 6'' / ' <' N
W' .' 1.=, 6' 5'' ; ,<67 747 ,< =4.' / .' ?1 6.<5.' 66. / 05>.'
<'7 ,<'5.' N 0.' 54' E.1'5 ?'17' >.' / '' 1.6,547 ,< >'<65.' ?546'
; ,417' >>5'' ' =4 .@ J.' 1.@' / .>' > 4<' ,00.7 6' / ?,17'<7% '
' ' ' < ' 8 ' .' >,<<.1' ' / .6' ,1>1.6' <8'
; , / / '<>'<7' J><>1'5' >.' 5'' J'1>.' <'7 ,<'5.' ?'1 6 .<<.'
?,41'5.' 6.1- ; .' >. / '' J'1>.%Y 8 8
.'1, ' / ,<71'' 7; 40,416' ,<% ' 1' 6'7 6E' 7% ,46%1.- </. '
'5'' 6'55.' >.' - ,6 6>' <; .68' >'<65.' / > / .' ,1>1.' >'<6' 5.=4.5'
<,46' .7 ,<6' ?'17 6I' ; , / / .' ?546' .416' >.' <,6' ; ,55>J4.6' 67V'
71,4-' ,<78' ' <6' =4 477' J1'<>' ; / 01.' >. ; 7,V.<68' 0.' / .'
64 6' E' 7' 4<>.- ,1' >.' 5.6' <6714 1.' >.' ; ,6' E' 568' '#<>.' 5.41'
>,<<.1'5'' ?546' ?1, / ?7.' ?405 ; 7V% '1' ; ' =4.' <,46' '- ,<6'
-4' .7 .<5.<>48' 7,47' <,46' ?1,<=65 =4.' =4.' ' ; : 0-. / .<5' >.'
5'' ; ,<67 747 ,< 6.1'' '466' 5.' 7.1 / .' >.' 5'' .- ,547 ,<%& 6'
6. / 05 .' .5' 5.6' 71 04<.6' '??5'4> 66.<7' '?546' .416' 1.?1 6.6%P
.' -' 6' 1. / .771.' 641' 5.' 041.'4' 5'' 5 ?,<6.' 6 J4 .' >.' 5''
/ ' <>4' 1, %
+' ' 6,<1.?1.<>' 6,<1'??,17 6415.' ; ,>.' >.' '>/ ' '
< 671'7 ,< E,1.67 .1.% .6' '17 ;5.6' 64 - '<76' 6,<7' >#;1.7,%

' ' ' ' ' C I' ; 74'7! ' ; ,<6.1'

W'' '' %' <; ;66' / / .<7' '?1 6' 5. '1. ; ,5.< .<76' 56'
>1.66?1,<7' >7'7' >.6' 641 / .641.6' ,4' >.E' 476' >.' / .G
641.6=4' 6.' 6.1,<7' 71,4- 6' >'<6' 5.6' - .<7.68' .7.<'
.<- .11,<7' .@?.> 7 ,<' ; .17 E ..' 7' '<7' '' 5'' '
J.<.1'5.' =4 '<@' > ?. ; 7, 1.6' >.' >. ?'17. / .<7' .7' >.'
> 671 ; 78' .7'4@' ?1. ?,6>6' ; :'1J. 6' >.61. ; ,4-1. / .<768'
; 50' ; / '?,41' ; .' =4'5.' ; ,<; .1<.%
'' '' %' 56' 6.1,<7' 7.<46> '66R67.1' 8' 5,76=< 56.<'
6.1,<7' 1.=4 68' 5.6' ; , / / 6 ' 1.6' >.' 5'A' ; ,<6.1- '7 ,<'
J.<.1'5.' >'<6' .@.1; ; .' >.' 5.416'E,<; 7 ,<68' '<6' =4,'
5.6' ; , / / 66' 1.6' >.6' '> / < 671'7 ,<6' >.' >.?'17.M
/ .<78' >'<6' 5.6' >.6; .<7.6' .7' 6 5.6' =4 56' E.1,<7' >'<6'
5.6' E,1 76' >4' >.?'17. / .<7N 56' 6 J<.1,<7' >.' / / .8'
6 56' .<' 6,<7' 1.=4 68' 5.6' ?1, ; 6 -.10'4@' =4' 6.1,<7'
>1.66.68' ,4' .''0?1 / .1,<7' 5'' ; '46.' >.' 5.41' 1.E46%
W'' '' 55 %' 56' <.' ?, 411,<7' 6 '06.<7.1' 6'<6' ; '46.' G

EP

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

! b

,,

<:7 '+' + ' /17/ ' M' "

3 %

! %

4 ' +' 4 -'<7 5.6 ; ,<> ,<6>.'
?' @=4' '<7 9 '?1<?,6.;6 '5" ,15;8 ' .67 0 .7'> 7 =4.%5"
<'- J'7 ,< #)5.' , 67.16.1'5 01.1 <' ' 6 5<.?'1' 7?, <7
67 ?45"?,41 =4.55?6 <'7 ,<68 ,471.'5.6>.4I5=W'>, / <,1,<7
5.6 1 -.68 >.' 6,17G =4.' <, 1.' <' - J'7 ,< 641 ;.' E5.4-.' 6.1"
,40, 16 71 E5;.15' .8 7, ,7 '<7'<7 =4.' <,46<.' -,4>1,<6
?'6 >>?.<>1.'>.6 466.6 K; .7 >7I'1> .7 <,46 .<7.<>1.' '-.;
.77@%

,46 '-,<6 ;' ,<.'1>?,<6.'>.'5" ; 41 >.' '5.' ' ,<.'
<,7.'=4' 77' .67 ?'1-;<4.'>.' 5"<>71.% #.77.'1>?,<6.'>7
?.<>.' ; ,6.8 .7 < .67 ?'6 >4 J,>7>.' ;.4@=4' <7 ?,17 6
.<E'-,41 >.' ; .7 .;7.41 7,4;:'<7 7" 64;;.66 ,<' '<71><.'
>.' ,5,J<.%
,4-.-741.'>.'5"> .7.8 =4'6.E.1"5.' '6.?7. /01.?1, '
.:' <8 6.1"71 6 <7.1.66'<7.1 .55.' /'<E.67.1"5.6 /?1. %
6 ,<6 > -.16.6 =4.' 5.6 ; ,<;546 ,<6 ?1 6.6 .' 7.7160,41J
'4-,<7E' 7;6 641 5.6 .6?1 76 1.5'7 -. / . ,7 '4" <7.1.76>.'5"
,5,J<.% 8
6.1<0 .'=4.'5.6 41;6 ' .:7 <7.<7 ,<>.'?'66.1 5.' 'G
<40;8 ?4 6=4 56 ?, ,164 -.<7 ,4-1'J.' >4 ?,47 =4 56
'-' .<71.6,54 > V0.5.1I / '6 76 J<,1.<7 .<;,1.'5.6 ;,<M
;546 ,<6 >4 ;'0 <.71466.' .7 5"1>?,<6.'>.E<7 -.'>.6 ;,416
>.' ,<>1.6 .7 >.' K.15 <% +' .'?1 <;.' ,7. / < .67 ?'17'
5.'U >.' .7.160,41J ?,41 '66V%
4@ '66 6.6 >.6 >.'?47.6 > .7'7 >.'5" 0,41J. , 6 .8 ?5, '
6 .416 ,47 1.=4%5.6 <6714;7 ,<6> .<J'J.1 5" > .7.' 0 1.;.'
-, 1 E'-,1'0 . / .<7 5.'>,<>'4< ; .17' <'<, ?01.'>.' ;'<,<68
.5'0 ?.<<.571.'=4 ,< .50-.' ,<.'67'74.' '4'1,'>'<6 5" ;'?S'
7'5.% .6?1 7 ?'7 ,7 =4.'J'J<.' >.' ?546 .< ?546 >'<6 ;.'
1,V'< / .%
7 ' (!' +'7.6 / '1.;:'4@ >.'5" > .7.' 6,<7 .<
-,V'J.8 .7 5.'<,5'1.'>. 7:4'< .8 ; , /7.' 0 0476 56 V8 6.M
;1.7' 1.'>,'671'7'8 .67 ?'17'?,41 1.6>.8 ?,41 >.? '<>.1'
0 1.5.;7.41 >.' '@.'=4 5 -.4 55.'0 .< 6;'>.;5'1.1 641 1,5 1.'
=4'54'" > .'E'7.' > .5" 64;;.66 ,<' '4 71><.'>.' ,5,J<.8 '
4'E'4>1"6'<6>,<7.' '57.<>1.'5.' 1>6457'7>.' .<71.-4.'=4'
-" '-, 1 5 .4 ;.66' / / .<7 .<71.'1. / ?.1.418 5.' 1, ' >.'
1466. .7 >5.;7.41%

%8 ' ' '?? H ' +' %> 17, 6 .67 >.6;.<>< >8
;0.0 % '/0'66'>.41 > 6?'J<.% . / ?.1.41 .7 7,45.' 5"
; ,41 54' ,47 >,<<> 5.6 7> / ,5J<'J.6 >4 ?546 - E <7;1>7%
% >.' #'5, ,<.8 .@ / < 671.' >.' H1'<;.8 " >> ' ;;4. 5'
;,7</ .'4< .<7,1 ;0.0 %5.' ?1 <;.'>.' a'4< 70%
<.'?'1' 7 ?'6 .<;,1.'>>; >> =4.' %> 17, 6 ' 55.'1. '
0, <>1.' . / ?.1.41 0 5" ; <E>1.7 ;.'>.' 77< 50% <;1, 7 =4.'
5.6 ; 1; ,<67'<; .6 6 ,??,6.<7 0 ; ,5 '??'1. 5> 'EE.;7, % .6
,5 ' 1.6>.'H1'<;.' <.' 6,<7 ?, <7.<;,1.8 ?,41 ;.' ?'V6 ; 8'
0 5.<1 ?, <7 >.' '/ '541 7>% < 6.' ; ,<7.<7.'> .<71.7.< 1 5.6
> / J1>6 E1' ='56 >' 55. / 'J<.'>'<6 5.6 / > / .6>6?,6 7 ,<6%
< '6641.'=4.' E;.'<J.'>4 1, '1J1'- '7> <6?';0 .7>.'
K'1.45.' ;.<71.'5" 46';.' <.'7'1>.1" ?, <7 0 >1.'>>; >>%

E K %

' ' ') ' ' , E% +'% .6 > '56 <.'5'1>.1,<7
?, <7 0 >71.' .< =4.1.55.' ,4-.15.' '-.' 5.'J,4-.1<.7<.<7%
>00 5.' ;,<6. 5 " >>' / '?>>' >.4@E, 6 0 5" ; ,41% < 6.'
?5'<7 >.' ?< 071.' 1>6,547 ,< >.6 > '56 0 -, 1 1.<51.1
>'<6 5.' ;,<6. 5 6,4-.1' < >" K1'0'<7 5.6 ; <= / . / 01.6
=4.'5" ; ,41 >.' -.47 ?, <7 V 1> <5>J1.1% <'-' < % %
KK% ,47 ;,7< / 4< =,>4<. 5.771.'>.' . / ?.1.41 =4' '?74 .'
;@?1.66> / .<7 5.41 >>;5'1'7 ,< '<7>1 .41.1 5" ; ,41 7 .<7
'40,41> :4' ,< J1'<> ;.<6. 5 > 7'78 >'<6 5.=4.5 ,<
?,411" ?1.<>1.'4<.'1>6,547 ,<>.'1 J<.41% '50 ?.47 >71.'
>.6 > -6 ,<6 <,4-.55.6% .' / < 67>1.' < .67 ?, <7 6'<6 <'
=4 >5<>.% ' ;1' <7 H4< -.16 5>>.' ,4-' < N 5 1.>,47.'5.'
E'<'7 6 / .'> <-.16I 0<' ">'<6 5"H5'<>1.' / > / .6 640.56> '\
541 / 16I 0 ' / 41 5.' / 'J 671'5 . 7 -4 >.' / '4-' 6 / 5% <'
5 < 5 < .67 ?'6 046=4 '4 >4;:> >.' 4@. / 0,41J =4' <.

>,<<.>.66,55 ; 74>.6 J1'-.68 -4 ,1J'< 6'7 ,<>.'6.6> '76
,0 5.6=,'7,10.' ; , / / 66' 1.6>.6 ; , / / 4<.68 ; , / ?,6'<7 ;'
7 .16 >7'78 6,4EE1;<7 / ?'5 .< / ;<7 =4.'>.4@ / , <.6 .7
71, 6 <,05.68 ,1 / '<7 5"7,745 5>>.6 >.4@?1. / .16 ,1>1.6 '
. / ?,1 .<76' / ?, 7 =4. / .<5 5" / '0,1 7> >'<6 5.6 >>5 0>G
.+,$ *'

F □

K ! ' ' ' KcKWH # '
'F ' ! & ' ' ' A,! SI'XP
' "' ; 7, / 7' '6%

%5.6 ';7 ><<' 1.6>.'5"#' 66.'>>?'1J<.' .5 >;' 0 .<'
E' 6'<;.'>.' % 'E'1J.8 'V'<7 ' 1>7>8 >'<6 c.41 '66. / 05>.'
J><>1'5.'>,'C '04 5 .5 (* 8 =4 5 6.1'57 ; ,<-,=4>4<.' '6'
6; / 05>,' J><>1'7.' 5.' ' 6.?7. / 01.8 ?,41 .<7,<>1.' .'
;, / ?7.'=4'>, 75. 1 >71.'1.<>4 >4 71'-' 5>.6=4'51.' ; , / '
7'566' 1.6 =4 56 ,<7<, / / >6 ?'1 / ' .4@8 .7 >>5 0>1.1]<1
> '471.6 ,00.76 ,7>1.66'<768 6,<7 ?1>-.<46 =4.' 5'>7.' '6G
6. / 05>.' '41"5 .4 5.'0.4>' '6.?7. / 01.8 0 =4'71.'0.41.6
>.'1.5.->.8 '407 1>'4 >.'1'> / 671'7 ,<%
,<6 5.6 ' ;7 ,<<' 1.6 '41,<7 0 ; .' .' '66. / 05>.' 6.45.'
/ .<7 .<71.' .7 -, @>.5 0.1'7 -.8 .< E<67 E '<7>.'7.'16 ';M
7 ,<6 ,77>.'5"1.;,<<' 66'<;.'=4'5. [' ">7> >>5 -1>.%

' ' ' ' '&'& ' -'$#' <(' '
')"

8 ' '*' 'MMWM' +' %5.'?1>6 >;<58 0 ' '
?.<6>=4.' 66. / 05>.' <'5 ,<'5.' -.11' 7 '-.' 6'7 6E' ; ,<
'?1.4-.6 >4 ?'71 ,7 6 / .'=4' '< / .'5.6 ; 5,V.<6 >.'<,6
E1,<7 >1.6I0.' / . / ?1.66.'>.' / .751.'6,466.6 V.4@5.; , / ?5.'
=4' / .< .671.<>4 ?'1 % 77J.<67. <8 5 .47.<'<7 J.<.M
1'5 ; , / / '<>J,7 5" > -6 ,<% #.7 , K; .1 J><>1' ' / .'
/ '<>.' W=4.'5.'>>?'17. / .<7>.'5" ,46.' ">.00 1'66. / 0 >
.7 1. / 6 6,06 '47,1 5> / 5 7' 1.'4< 0'7' 55'<>.' J'1>.6
<'5 0<'5.6I ;.'0' ' 55,< .]7 .< / '1; ;.'?,41 ,<7 / >>V% '
V " 5 .4 >.'?1>64 / .1 =4.' 64; ; .66 -. / .<7 5.6 '<71.6 0'7' 5'
5,<6 -,<7 >1.' 1'66. / 05>68 .7 >'<6 .6?' .' >.' =<<0.'
0,416 5.6 >>?'17. / .<56>.6 <>6 0 E, [< 1 0 5"0G .5 G> M
-6 ,< >.6 ; 7,V.<6 '1 / >6 ?,41 5" >>E.<6.' >.6 E1,<7 >1.6
'41,<77.1 / <>'5.416 1'66. / 05. / .< 6% Y .'6.451.7'1>=<.'
5.6 ,?>1'7 ,<6 1.5'7 -.60; .'1'66. / 05. / .<7 ' .<7 >?1,4->
" >7> ?1,>< 7 ?'1 5.' 1.6?.;7 .7 5"6,4 / 66 ,< .@';76>.6
E,<;7 ,<<' 1.6 ?405 ;6 '4" >>;1.76 >.' 66. / 05>.' <<7 , '
<'5.8 .7?>1 . / ?1.66. / .<7 ; <,1'05.'>.6; 5,V.<6 0 J1,66 1
5.' <,1,01.'>.6 >>E><6.416 >.'5" ?'51 .% 1.6=4.'?'17,47 '
" >7> 64?>1 .41 0 ; .54' =4.' 66. / 05>.' <'5 ,<'5.' '-' 5'
E @.8 .7 5.6 ; ,1?6 '> / 4 671'7 E68 ?'15'J>6 .<71.' 5.'1.6?.;7
?,=1'5"5.' '7 5"1. ; ,<<' 66'<;.'=4.'>, 7 <6?51.1 '4@ ,<6
.7,V.<6 5.' 05.'>.' ; .6 ; / / .6 =4' '0'<>,<<.<7 5. ,16
E,V.16 ?,41 5" >>E. 6.'>.'5"?'71 ,8 < ,<7 ?4 6.'1>6,4>1.'0
5.6 '> / .571.<'05.6 1.?,466.1% 56 '77.<>.<7 4<.'>>; 6 ,<
=4'5.41 E'66.'4< >.-, 1 >.' 5" ; ,<>4 5.'=4 56 7 . >1,<7 .<
; .75.' ; 1; ,<67'<;.% % 77J.<67. < ;1, 7 =4.' 7 . '6.1' 7
7,47 ' ;,1>.1 =4.'> '4J / .<7.1 >.' >.4@ ,4 71, 6 / 75.'
;, / / .6 5" ; <6;1 ?7 ,< -,5,<7'1.' >.6 ;<= >.?'17. / ,<76
>.'5" .415 0.8 >.'5" ,6.55.88 5" '1<.8 5" .46.' .7 5.6
1>.<<.68 .<>7'05 66'<7=4.'5"1>?,1 7 ,< .<6.1" 0 7.' .<
?1,?,17 ,<>4 <, / 01.>.' ; .4@=4' 6,<7 < ;1 76 'E5>.50 >.'
5"=4,7 5>E@>.' ?'1 5.'>>.1.4 Y 5 / .'6,4 / .7 ; .77.' >>.' .7
6,<0'7.'07,<6 >J'1>6=4 .55.'6, 5 '>, ?7>.%
.6 '> / < 651'7.416 >.' ; .6 >>?'15. / .<768 ;.4@ >.?5<'
6 .416 '471;6.< ;,1.8 / ,<7>J'5. / .<7. 7? 41>. / '<>.1
0E,41< 1 4< ?546 J1'<> <, / 01.'>.'0'7' 55,<6 =<.' ; .54'= '
" >7> E@>% ' ;148 %5.' ?1.6 >.<78 <.'>.-, 1 ?'6 :>6 7.1
>.'6. ;,<>.1 5.'0 5.' '-.' 5.=4.55.6 ; 5,V.<6 >.' .6 >>?'1 . '
/ .<4 -.4 ;<76.'?,17.1 0 5"5>E.46.'>.' 7'78 .70 ' '47, '
1 6>5.'>1.;5, E.'0 ' ; .?7.1 5.416 6.1- ; .68 ?,<<14 #.?.<'
$ >'<7=4 56 ?4 66.<7 E,1 / .1>.60'7' 55,<6; , / ?5.76% < 6=4.'
; ; .6 '-,5,< '1; / .<7 =4.' ; .6 ; 7,V.<6 ,EE1.<7 0 5" ?'51 '5.
B '&' %' &$ 'E' 2%'4 '% ' %,! '&'$' E

/X' M' ! '*T 1:

%'< / , <8 46=4 ' . '=<='5.' <, / 01.' 7, 7'5 >.6 J'1>.6W' '
7 , <'5.68 >>;1.7.' J'7 66. / 05.>8 6> 7 1. 7 ?55f .7 , 5< .'
5 .6' '' ;1' <>1.'=4.'?546 .416>>?'17. / .<76 >.'1 <7'1 .418
7 , ? > , J<>6 >.6 E1, < '1.68 <.'?4 66.<7 E, 41< 1' '7. / ?6
5.41 ; , <5 J.<78 5 / .'6. / 05.'71, ? 0.41.4@=4.' '1>.41
>.6 '4 1.6 V 64??5>.N Q ,6.'>, <.' .'? 1.1 =4.'1 66. / 05>>
>' J<.1'' '??1, <- .1 ; .'=4.' 'E'7 %

,06.1-.1'' ; .?.<>'<7 =4.'5.]>>?'17. / .< '>.' <'G
1 .41 / 47 1.1' . 7 'Q '<7 >.' 0 5.'=4.' ; .<7 >.6 E1, <7 '1.6
6 56< '7' .45 '1155>6 ?'1 5.' / '<=4.'> 0'0 55. / . / 6f 5 .67
'' ;1' <>1.'=4.8 6' , < <.' - .<7 >.'=4.5=4.' / '< '1.'2 5.41
6. ; , 4168 5.41 0, <<.' -, 5, <>'<.' 1.67.'6'<6 . .7% .'64??5 .'
66. / 0 '.' >.' 6 .< , ; ; 4?.1 5.' ?546 7, 7 ?, 66 05.f 5.05.<
?405 ; .@ J.'=4 5 6, B ?B6 >.6 77'.641.6 ?1, / ?7.68 .58 6 '
/ .67?.<< 6>.'5.'> 1.8 W5.'?1'6 >. 178 / , < <7'1'7 ?.1M
6, <<.5 '4J< .<7.' .< ; , 1.' / , < <?' .<; ' ; .7 'J'1>%
K.'4; , 4? >.'?.16, <<.68 Q.'5.'6'568 <.'71%, 4-'<7 ?'6 = .'
5'' 5.-' ; >.6 J'1>.6 <'5 , <'5.6 .' '66.' '-.; 5'' ; '5>1 7''
=4 .55.6 >>6 1.1' .<78 ;1, .<7 ?, 4- , 1 / ' ; ; 6.1 >''1.7'1>
=4.' ; .57.' , ?'1'7 , ' '?1, 4-.% 5 .6 , 405 . 7 =4.8 > '? '6
;6 >' ;1'768 Q.'<.' ?1.<>6 5.6 J'1>.6 <'7 , '5.6 =? '4 / ,M
/ .<7 , > .55.6 6, <7 1'66. / 0 '.68 7, 1 / ' .6 .< 0'7' 55, <68 '\'
0 5 ' .68 '=4 ?'.68 .< 4< / , 7 ?1'7.6 '' / '1; : .1f =4.'7, 45.6
5.6 , ?7, 7 , <6 =45 >, . . < %?1' ; '>.1 <.' .7. J'1>.<7 ?, <78
.7 =4.' . 'K .' '7' = .'?'1 ' .'=4.'Q V' ' '?1 6 =>.7=4.'?'178
?'1 >.6 '- 68 >.6 <6 14;5 , <6 '' ; .4@=4' < . 7 >.'
/ '4>'8 4668 %5.'?1'6 >.<78 =4.'7, 47.6 5.6 / .641.6 =4.'
Q.'6, 55 . 7.'6, . 7 ?1 6.68 =4.'5.6 J'1>.6 <'5 , <'5.6 6, . <7
?, 41-4.6 >.'7, 47 ; .'=4'5.41 E'458 .7 , '-.11'' =4.' 5.6
> 6?, 6 7 , <6 6406'=4.<7.68 ; .55.6 =4'5 .<<.<7'' / , <'>M
/ < 671'7 , <8 6.<7 E'7.6 ''5.757.'>.' % 77J.<67. < .<
%.67 4<.'?1.4- .f -, 46 -, V.G %5.'?1.6 >.<78 =4 5 <.' / .'
>. / '<>.' ' , 4< , 1>1.8%

4@, <<.8 5.'C ' ', E7%

, 466, 0 / .68 '<6'=<, ' , 468 <, <6 .>18 71, ?0, '6 .\G
7, .<6 ?, 41 <.'?'6 / .771.' '47'<7 > . / ?1.66. / .<7 =4.'>.'
; , <! '<; .' '' -, 6 ' - .15 1 >d4<.' .11.41 > / ?1.66 , <8 6'<6
>, 45.8 =4' .67 J5 66#.'>'<67.'<GC 8 >4 6' / .>'C' ', #78
>.' - , 1.' J' .57.% < V5 7 = .8 >'<6 5'' 6''<; .' >4 Q.4>'
' ' 78 5.' / < 671.'>.'5'' J4.11.' '' 1.<>4 ; , / ?7.' '' 6'
6. / 0 '.' <'7 , <'5.'=4.8 >.?4 6 71, 6 0, 68 5 ' -' 5>, ?<''
>.6 , 1>1.6 ' '> 1. ;7.41 >.' '15555.1 .8 ?, 41 E' 1.' / '1; : .1
>.4@ ; , / ?'J< .68 >, <7 4 .' ''K'V, <<.8 .7 '4 1.' ''
? J '<% ! .6 >.4@ ; , / ?'J< ['6, <7 .K0;7 -. / =<7 ?'17 .>
> ; '5.' ' , 7 ?, 41 5., 16 >.67 <'7 , <6 1.6?. ;7 -.6f / '56 '
5.571.> '- 6 >4 / < 67 ' .7 , 1>1.'>.'>.?'17 =4' ''64 - '
<.'6.'51, 4-.<# >'7.68 5'' ?1. / :1.'=4.' >4 C* Q4 55.78 .7
'4 1.'>4 ' ' , 7% #, / / .<7 >, <.'5.' / < 671.' '7 1' 7 5 ?7'
> 1.8 5.')' ' 78 '' 66. / 05'.'<'7 , <'5.8 =4.'>.?4 6 71, 6
/ , 6 5 ' -' 5 >, <<'' >.6 , 1>1.6 >.' >>?'17 ?, 41 ; .6 ; , / ?' '
J< .68 5, 16=4 5 6'-' 7 0 . : '=4 5 ' ' -' 5: ' ?.' < .'55@Q, 41]
=4 .55.6 '7' .<7 ?'17 .6 ?'1 6, < 01'1: ' . : '>'7.'>4 ' ' , 5Z
#.55.' J1, 66 '1.' / ?, 6741.8 =45 <, 46 >7, 46 E1'??, 68 <G)
6#1. / .<7 ?'6 ?4 6.'71, 4-#1 >'<6 6'' 0, 4; : .8 .<; , 1.' / , <
>'<6 5'' ?.<67.' >.' % 4?, 17' 58 > , ;7 5.'?'51 , 7 6 / .'6.'
/ , < 1.'7 , 46 5.6 Q, 416 > 4<.' / '< '7.'6 ' ' ; 5'7'<5.8 .71.-, 57
>.6 ' , J.6 6 0 .< / '1 7'6%
<6.<7 0 .0 =4 5 .E77 ?.47 '71 ' '7'' >'6 1'0 .'=4.' ;>6
, 1>1.6 E466.=7 ?'1-.<46 >.4@ / , 6 ?546 797 '' >.6 ; , / ?'G
J< .6 =4 '< '11 -. 1, <7 =4.'>'<6 71, 6 6. / '< .6 '<@ ?, 6 .6
, : .55.6 6, <7 <>. .66' 1.6f / ' 6 ?456=4.'5.' / < 671.' '' .46.'
1' 6, <6 ?, 41 .< Q4J.1 '471. / .<78 0'7.0 -, 468 / , <6 .418
<, 46 ' '< ?1 , <68 >.' ' '6641.1 >.' .11.'1 >.'- , 71''
/ ?1 / .418 .7 >.'1.<>1.' ''5'' -'1'; 7'' >4 / < 671.'5''Q467 ; .'
=4'54' .67 >4.8 .< 1'?'7'<7 ! >'5.7<.<78 >'<6 - , 71.?1, '
; : ' < <4 / >1, 8 6.6 ?'1, 5.6 '' 1 66. : 0 '.' <'7 , <'5.8 =4 5
<.'>, 7 ?'6 54' ' 1.' <> EE'1.<7 >.'71, : ?.1%
J<'' ' !! ' ' ' ' (' ' ' '
(D ' ' ' ' , Z'', A
0': . ' ; '>.78 A 761, 8

' '755 K' ' ' <# 5 5' ' ' ' ' K 5 '
6' 7 K8
' Z/ ' '8 9
\7' % + ' 58 K.'4-' 6 >'' 'Q4J.'>.' ?'07 >.5''
#1, @ , 77J.-
8 -Z * ' '8@
%5 <>.78 ?1?.41.41 6V<> ; '>4 > 671 ;7 >. K .1<'VI

.5 V.78 ?1, ; 41.41 6V<> .>4 > 671 ;7 > -1.4@I .6; '/ ?68
<9J # '<7 '' .1 .4 8 '> / < 651'7.41 >4 >.?'17. / .<7f
H, 66'1>8 '> / < 651'7.41 >4 > 671 ;7 >. , 4- .16f .-.168
;4 ''>.'#, <7.- 55.8 ?1:6 5.' , <7 4>. / .1f .J.<>1.8 <, '
7' 1.' .7 5'0, 41.418 > 671 ;7 >.6 <>.7V6f 4-, 58 '5 / <6'
71'7.41f B4J'48Q4J.'>.'?' @8 ; >.-'<7 ; , / / '<>'<7>.'
5'' J'1>.'<'7 , <'5.'> -1.4@f '<J5, 68 <>J, ; '<7.' , 4'
.168 '> / < 671'7.41f '<5 <8 5'0, 41.418 > 671 ;7 >.6 <'
>.5V6f B>0.178 , 50; .1 >.' ; '-'5.1 .8 > 671 ;7 >.' , <5 4'
>. / .1%
% ' %K40, 78 >>?47'' '' 66. / 05>.'<'7 , <'5.8 '5 '
.54 ?1.6 >.<7 >4 71 04<'5 ;1 / <.5 >4 >>?'17. / .<

8 ' ' A A7

:7% .01.5, ''8 Q4J.'>.' , <7E, 17 1 / '41Vf '41.<7
. ; , < 1.8 <>J, ; '<7'' .16' 55.6f .'< <7, <.'K, 66.'48
;4 -'7.41 '' , 66Vf 754 '8 ?1.6 >.<7 >4 71 04<'5 >.'
'<7.6%

' '0

% 40.17 40'V.7 ?1.6 >.<78 >4 ; , 1?6 .5. ;7, 1'5f
K. J< '78 ?1.6 >.<7 >4 > 671 ;7 >.' .<<.f ' ; , <>' / '.8
/ .>. ; < '' '<7 '1; .5 <f ! 4 55, 4>8 4J.' >.' ?' @ > '
;1.568 > 671 ;7 >.5'' , 41 >4 <f K1' ;78 <, 7' 1.' '#04'
?'1 55'<8 '> / < 651'7.41 >4 >.?'17. / .47f '<7, <8 ?1, ; 4'
1.41 >4 > 671 ;7 >.' .<<.% %

' ' A: ,

% '66.<.7 B. 5 J.<67. <f , 05'78 ; , / / 66'71.'>.6
J4.11.6 '' '<>'4f 4:58 / . / 01.'>, '> 1. ;7, 1.'>4 >.?'1M
7. / .<7f 10, J'67.8 ?1, E.66.41%

' ' ;

8 .'< '1 .' / / .1V8 <.J, 0 .175' ; , 5, <.5 >.'5''
J'1>.'<'7 , <'5.'>.' 4< .1=4.f B.<1' ! , ; 5 .58 '> / 6'
1'7.'1 .7 / . / 01.'>4 > 1. ;7, 1.'>4 >.?'17. / .<7 >4
, 1>f #, <67'<7 , .?.' ! , 664 <8 '> / 1 671'7.418 / . / 01.'
>4 > 1. ;7, 1.'>4 >.?'17. / .<7 >4 , 1>8 .5 ?17. >.<7 >.'
'66. / 0 .' . . ;7, 1'5.f . '< K'?7 65. . / .61.8 '> < 671''
7.41 >4 >.?'15.7'.<7 >? , 1>f 1, 4-.418 Q4J.'>4 71 04<'5
>4 > 671 ;7 >.' '5.<; .<<.6f #'1?.<7 .18 ?1E. >.<5 > '> 6M
71 ;7 > B'0.01, 4; f 7 .<<. : 5 ??; '1 . .Q, 6<.8 '> / 5'
671'7.418 / . / 01.'>4 > 1. ;7, 1.'> '> 671 ;7 >> , 4' 8 .7
.; 1.7' 1.'>.' '66. / 0 .' . . ;7, 1'5.f .E.0-1.8 , B ; .11'4'
< ; ?'5 >4 34.6: Vf <0; / 8 / .>. ; < .5 Q4J.'>.'?' 6'
55.f , 4 6 K, <'-.<541.' '<: , .<' .18 / ' 1.'>.'5'' - 55.'
>.' 55.f #, ??.<68 ?1.6 >.<7 >4 >.?'17. / .<7f .'< .<.'
' ; , / 0. ' <7 ; : .58 ; '? 7' <. ; , / / '<>' 7 '4 (d1.JM
/ .<7 > '17 55.1 .%

.?'17. / .<7 ' A A C

% 14>.<7 .'<K145.V8 , 4 6 10' < >' / 8 0, / / .6
>.' , f .'< K'?7 65. 45 .< K.55.8<, 7' 1.f .11.' '17 <8
0, / / .'>.' ?6' .11.' 1>, 4 <8 '> / < 671'7.41f .11.'
5 ??; ' K' J<, 4@8 0, / / .'>.' , f .' K'?5 67.' 40'<8
Q4J.'>4 71 04<'5 >4 > 671 ;7 >.'#; <, f , 6.?0 .11.'
-' < #'15 .1 , 4 <.'48 <.J, . '<7 '' , 416%

'> 7 G

% .11. <'67'6.' H, 1<.8 .- =4.f .11. , 4 6'
<>1.' '0'70 .1% <, 7' 1.' '' '<; .11.f ' ; =4.6 H, 4.0.=
0, / / .'>.'5, f H, =4.18 ?1, ; , 1.41 6V<> ; '>4 > 671 ;7 >.'
<5 / '<>%

' ') , (

%%% , 4EE .178 ?1, ; 41.41 J.<.1'5 6V<> ; '>4 >.?'1 .%
/ .<7f , 4@.78 '> / < 651'7.41 >4 > 1. ;7, 1.f B.<<.=4 <%
/ , 1.' '' ! '<<'7f K4.58 '> / < 671'7.41 >4 > 1. ;7, 1.f
! '4 < / 8 / .>. ; <f K, 61, 7 ! 568 Q4J.>4 71 04<'5 >4 > 6M
71 ;7f .671. .68 / '1. ;0'5 >. ; '/ ?%
%K, <7, 4@8 / ' 1.' '' ' <7 , 41E' <f
.%'- .1.'Q.4<.8 ' , '554 , <c ' <5 34.<7 '8 ?1.6 >.<7
>4 > 671 ;7 >.'#'67.5%

' '8 A AG

%K5'<; : '1>8 ; , / / 66' 1.' , 1>, <<'7.41 >.6J4.11.56
.7 ; , / / '<>'<7 >.'5'' J'1>.'<'7 , <'5.' '' 11'6I

' ' ,

55% ! , 6'178 ?1 >41.41 6V<> ; '>4 > 671 ;7 >. ! 1' / ?1.N
.11, 78 / . / 01.'>4 > 1. ;7, 1.'>4 >>?'17. / .<7f '-.1 G

7,4578 7 / 01.'>=> 1.;7, 1.'>4 > ?'17. / .<58 ?'7B ,7.' ;,c\ '<>' 68 ?1,6;1 7I .65 '168 Q=I .'>" 71 04<'5 >.' .>'<I 0 41'478 Q4J.' >.' ?' @ > ,4' .1'I K,41<.58 / .<01.'>= > 1.;7, 1.'>4 > 671 ;7 >.' K.7:.5I ' / ,41.57.8 ;<57 - '7.=18 ?1.6 >.<7 >4 >>?'17. / .45I K'4> <8 / ' 1.'>.' .>'< +$ .6:' .68 ?1, ;41.41 J><>1'5 >4 >>?'17. / .<78 " H(' , /<>8 / ' 6 5 < "?'6 ';;.?7 G

K! j j j j j j' 5 B

K

K E 8

7 H.1 [W1&

E5>' #K BK K

A '17.'1'??,17>.' GGG5.'>>;1.764 -'<7 .671.<>4I $ 6 4 05..' '7 ,<'5.8 6=1'5">><,7 ? '70;< > 47' >.'6.6 <.<701.68 > 4=.' .> 7 ,< >.' 5" #,<67 747 ,< E1'<;'56.'?,17'<7 E'466. / .<7 5.' ;: 1.' .7 5.'<, /'>.' < ?1 / .1 .' 4'7 ,<'5.8 >>;1 5.'=4 ' 5" 1.=4>7.'>.' ';;46'7.41 ?405 ;'>.' '11,<> 66. / .<7 5 6.1" <1 8E,1 / .'>'<6 5.'Q,41' ;,<71.' 5.6 '47.4168 E'47.416 .7 > 671 0 7.416 >.'5'> 7.' / ?1.66 ,< I ,1>,<?.'.< ,471.' = .'5.'<, /'>.'6,< / ?1 / .41'6.1" '??,6.' " ;:'; < >.6 .@. / ?5' 1.6>.'5" #,<67 747 ,<$

+' 41'5.'1'??,17 >.' 8 #' / 46 5.'> ;1.7 64 -'<7 .671.<>48

W 66. / 05 .'4'7 ,<'5.'>>;107.'=.'=4 '64 7 1

W 17 5G18 .6 ;,? / 66' 1.6 <, / 7<.6 .< .@.;47 ,< >4'>.;1.7 >4 C9 / '0 >.1< .18 ?,41' ?1, ;.>.1' " <' -.<7' E.'>.6 > ' / ' 76 .7 '471.6 .EE.76 ?1.; .4@ >4 *'1>. / .405.'>.'5" ;,41,<<.8 ?1.6.<7.1,<78 "5"64 7.' 5.41'1'??,17 641' ;.7 ,0Q.78 5.'1'??,17 >.' '>/ ' < 651'7 ,<,4> 7J'1>) / .405.8>.?4 65.'5 7?' ' ((U Q46=4 " ;.'Q,418 ,1>,<<>' ?'1' 5.' >.; ;7 >4 CC ?-1 c (*9

W 7 .'>>?'17. / .<7>.' '1 6 <, / / .1" <;.66'4 1' / .<7 >.4@ ;4 / / 66' 1.6 2 .EE.7 >.'6.'71'<6?,17.18 '-.:' .05,<>' .7 ,<J.Z8 >.' ;'>. / .' >.6 K.55.6 .771.68 '4 71.6 ,1>.5" ; >.-'<7 =00'V.'>.' ' <7 .< 68 .7 >.' E' 1.'71'<6?,17.1'>4> 7 1.6 ,1' '4 ;'0 <.7 <'7 ,<'5 >.6 / >>' 55.6 .7 '<7 =4.68 14.'>.' ; :.5 .48 5.6 / ,<4 / .<76 > '17 .7 >.'6; .<;.8 5.6' =4.56 6.1,<7 >.?,6.6 ?1,- 6, 1. / .<7 '4> 7 ;'0 <.78 67 1'5.' 1>;.? 66.'>.6 ?1.?,6>6 '4> 7 .7'05 66. / #<7Y

+' 41'5.6 1'??,176 >.' / ?5.< 5.6>. ;1.76 64 ' -'<76 6.<7 1.<>46N

W .6 ,E5 ; .16 =4I8 6'<6 >>7< 66 ? ' 35??7' 1. ,4' 6'<6 Q4J. / .<78 '41,<7 >7.' '10 71' 1. / . Q7 '?1 ->6 >.' 5.41' 7'7 ,? 646?.<>46 >.' 5. 16 ,<;75,<68 6.1,<7 ;.<6.6 5.6 '-, 1'7,4Q,416 .@.1; .6 = ; <6.=4.<; .8 56 6.1,<71.?5' ;.6 '4@'1'<J .7 J1'>.'=4'5.41' '??'1 7 ;<>1' .<7 6 '4 '-' .<7 ?'6 .?1,4-.'> Q467 ;.

W 6 .7<05 .'4'7 ,<'5.8 '?1E.6 '-, 1'.<7.<;54 6,4' ;, / 79 / 5 7' 1.8 >.;1.7.' = .' 5.6 ,E5 ; .16 ?,41-46 >.';, / / 66 ,<6>.';,5,<.5 ,4'>.'5 .47.<'<7 ;,5,<.58 '1 5> .41. / . 7 '4'7.1'Q'<- .1' ( )*8'-.;'>.65.771.6 > '77';:.' '4@'71,4?.6 " ;:.-'5 ,4 " <5'<7.1 .8 ?0' 7 .<>1,<7 5.' J1'>.' >.' / '1.;:'5 >.' ;' / ? ?,41' 1. 7 ' 7.8 ;,<E,1 / > / .47'4@ >.;1.76>4' 'E.-1 .1' .5>4' ' / '16 (* 8 $

K ,. 'N .';, / 7.' / 5 7' 1.'1' " ;:'1J> >.' -,46 ?1.6.<7.1'5.6 / ,7 E6 =4 ' 54 ' ?'1' 66.<7 >.-, 1' E' 1.'646?.<>1.' 6,4' 1'??,17 641'5.6 17J5.6 >.' 7 '>' 66 ,< '4 6.1- ;. ' .67 .66.<7 .' =4.' ?1. '5'05.' / .<78 641'5.'1'??,17>.'-,71.',, / 7>'>.';,<67 747 ,<8 -,46 'V.O >7, .7.'5.6 0'6.6>.' >>4;'7 ,<'4'7 ,<'5. ,46 '-.O >>;1>7.'=4.' ?1,- 6, 1. / .<7 5" < , 7 .'>.6 ?5';.6 -';'<7.6 6.1' .<7>,<<7E.6 '4@'6,46 ,EE ; .168 '471.' / , 7 .' " >.6 .7,V.<6 'V'<7 6.1V' ;?/<.' J'1>.6 <'7 ,<'5.6 ' <, 56 -,46 ?1,?,6 ,<6 .<;.' / , / .<7 5"-? ;>.J;@'? .<68## ';6' ==?I9 J.1' =,5

4<.' <6714.7 ,<'7:>,1 =4.'=4' <.' ?,411' 7 #71.' '.G =4 6.'=4.'?'1' ; .4@ =4 '6 V6.1' .<7 ?1.?'1.6>.'5,<M J4.' / ' <Y; .67) > 1.'?'1'5.6>5.-.6>.5 .,5.' / 5 G 7' 1. ; >.-'<7 J.<7 56:, / / .68 .7 ?'1' 5.6 556 >.6 ; >.-'<7 ?1 - 5.J .6 .6 0'6.6 >.' .>4;'7 ,' <'' 7 ,<'5.8 7455.6 =4 .55.6 -,46 6.1,<7 ?1.6.<7..6 ?'1'5" ?, / 7.'>.' ; ,<67 747 ,<8 ?1. 6.<7.1,<7 4< / ,V.4 >.' $;,<;,416 =4 ' .- 7.1";;6 <;,<-.< .<76 ,71.';, / 7> ;E, 7 >,<.8 ?'1' ; .6 / ,7 E68 >.-, 1'> EE>1.1' 6,< 1'?M ?,178 'E < =4 5 ' 7 4<.'?'1E' 7.' '<'5,J ;' '-.;'5.6 '77M 1.6 ?17 .6>.' >>4;'7 .< ?<05 =4 ,

% .46'-.01.<-.V.6'J. / .<7 '471"

5.J65'741.'5.'?1,0.7>.'5, '6415.6 64;;.66 ,<68 .<..

6 4' 1.J'1>.'5.6 .EE.76 .7 5.6 5 / 7.6 >.6 > 6?,6 7 ,<6 : , / / . #.77.' 1.6 ,547 ,< .7' 7 <. ;.66' 1.' ' ' ' ; :.-. / .<7 >.'5" ;,<67 747 ,<I .55.'?.<7 ?1,-,=4.1' 5.6G / .> 7'7 ,<6 >.' <,6 64;;.66.4168 .;5' 1.1' 5.6 ; ' 7,V.<68 .7 E,1 / .1' ,? < ,< ?405 =4.'>'<6 5.6 > -.16 >.?'15. / .<76 >4'1,V'4 / .8 6417,47 >'<6 ..4@ ,EE5.6 5, 6 1, / ' <.6 ,47 >,<<.'4<.'6 'J1'<>.'5'7 74>.' '4@ -,5,<7.6 '10 71' 1.6 >.6 / ,41'<76

' 68 '4' / 5 .4' / > / .'>.' ; .6> 6?,6 7 ,<6>4'?1,0.5 >.' 5, 8 ?1.6.<7.' ?'1' 5.6 ;, / 5>6 >.' ; ,<67 747 ,< .5 > '5 .<'7 , 8 5.6 ' / 6 >.'5"1.-,547 ,< .7>.'5" Q467 ;.' ,<7 1. / '1=4.' k'17 ;5.' " " " a8 =4 ' ?.47 >71.'E'; 5.' / .<5 6 ?'1.'>.6 '471.6 > 6?,6 7 ,<6 ?1.6.<7>.6 ?'1' 5.6 ;, / 7.6 #.7 '17 ;5.'1.J'1>.8 ;, / / .'<,<>;17. 8 67,47.' ;5'46.' / ?.1'7 -.' ,< ?1, : 0 7 -.' =4 '6.1' 7 ;,<71' 1.' ' @ 5, 6 ,4 '4@ 0,<<.6 / ;.416I =4 ' ?,E7.' 1' 7 '57. <7.' " 5" 5 0.17.' 1.5 J .46.> ->,<'7' 1.8 ;>' 1 7 .1' ,4 >J'7' 1.8 =4 ' J.<.1'55 5" 5 0.17> =4 ' " >.' 6.' / '1 .1' '-.; ' '6, 5 > . / 0 ' 66.1' 7.5 .5'78 . / ?5, ' ,4 ?1,E.66 ,<8 ,4 =4 ' 7.<>1' 7 " 5.'>.' ' 7341<.1' >.' 1. / ?5 1' 5.6 >.-, 16 / ?,6.6 .7 > .@.1; .1' 5.6 E,<;7 ,<6>.E.1. .6 ?'1'5";,<67 747 ,<'4@ . 7,V.<6 ';7 E6 .7 .5 J 05.6 Y , 5" 7<.'> 6?,6 7 ,< =4.'5"-' ' . .'>.'5" Q41 6?14>.<;.8 5" > EE.1.<;.'>. '5, 6 64 ' - .6 >'<6 5.6 ?'V6 >.' .,<74 / .' .7 >'<6 5.6 ?'V6 >.' >1, 7 ; - 58 1.<>.<7 <.;.66' 1.8 '47'<7 =4.'5" > 6?,_ 6 7 ,< ';74.55.'>.6.6?1 76

#.'< .67 ?'6 / , '=4 ' 1.;5' / .' '>,?7 ,<>.';.7'1' 7 W5.' 6.45. / .<7I ..67 5" ;,<67 747 ,< .55. / . / .8 #.67 5"?.;.66 7.'> '6641.1' 6.6 / '@ / .6 .7 > 'EE.11< 1' 6,<.6?1 7I , .675.' / ,V.< > '11>7.1'5.6 .E5.76 / '5:.41' 1;4@>.1 <7,5.1'<;.; - 5..71.S J .46.I; .675.0.6, < >.'?,6.1'>.'Q467.6 0,1<.6 '4@ ?E.Q<J.6.7 '4'>.6?, ' 7 6 / .>.=<.5=4.6; 7,V.<6=4 8<.?,4-'<76?'?5 .1'4@ ?? <; ?.6 >.' . J'5 7.'?,5 7 =4.' .7 >.'5" 7,5.1'<;.'1.' 5 J .c K8?1,6;1 -. 7> ' -'<;.8?'1>.6';7.6 ?1,7.J.6 ?'1'5" 5, 8 .@.1, ;.'>.6 E,<;7 ,<6?405 =4.6814 =< >.'5.416 .<E'<76 '-.;>.6 E. / / .6 =4 56 '??. ' .<5 1,741 .1.68 ,4' '-.;'>.6 ?.16,<<.6 =4 ' .@.1;.<7 4< '471.' ;457.'1.5 J .4@8 ,4 =4 ' ,<7 4<.' '471.' ,?< ,< ?,5 7 =4. < -, 7 7,<6 5.6Q,416 E' 1.'>.6 7.E77'7<.?76 ?'1'5.6=4.56>.6?.1.68 .< <67 74' 7>.6 0.1 7 .168 ,4 .< E' 6'<7 >.6 5.J68 5.41' / ?,6.<7 >.6 ;,<> 7 ,<6 ;,<71' 1.6 "5'5 0.17.'; - 5.8 "5"7,5.1'<;.'1.5 J . 6.8 ,4 " 1.J'5 7.' ;,<67 747 ,<<.55. # .67 ' <6' = Q 6 >;1 -.<7 5" >.E.<6.' ,4 5" ;,<> 7 ,<>.'6.' / '1 .1' " 7.55.' ,4 7.55.'?.16,<<.8 2 4<.'E. / / .'> 4<.'7.55.' ,4 7.55.';5'66.8> 4<.'7.55.' ,4 7.55.'1.5 J ,<8 .7;

< -, 7 =4. ;.'< .67 5 ' =4 4< / ,V.< >,<<.'?'1'5" 5, ' ; - 5.' .7 '<; .<<.'?,41 .; : '??.1' " . / ? 1.'>.'5" 5, ' ?,5 7 =4.' .7 / ,>.1<.I =4.;.'< .67 = 4<.'640M -.16 ,<>.6 / '@ / .6>.'5";,<67 747 ,< ?'1'>.67.67'M / .<76 ,4 >,<'7 ,<68 ;'1' ;.6 0 .<E'Q76 / / .6 ,<7 . / ?, 6,<4>6 ?'1' 5.'6,4EE5.' <7,E.1'<7 .7 '1 67,.1' ' 7 =4.

#1' J<.0=4.8>46. < >.';.77.1>-,547 ,< / > / . 56 5, ' ?1 7.' 6,< 6.;,416 '4G ,? < ,<6 .<<. / .6>.'1. 8 J'5 7> .7 >.'5" 5 0.17> =4.'-,46 '-.O >7'05 .6I ;1'E' J<.0=4 .5.'?.1.'E'<"7 =4.8 5.'7.67'7.41 <7,7>1'<78 .' >,<'7.4H .<<. / '>.'5";,<67 747 ,<8 E1'??.678 '5.41

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#'$) (!' ' !J' ! &! (' ') G?-X'
')#! !' !',!& !'4! !'% !'' '!' #%! !' ! - '
P#!', D!) ' !'5) A' ' ' !' # !A #' ' '
!')! !' (' #'',) ' #'= #2!&!&! (' +#H' !'
! !A ' !' ' !' A & '+#, ' $):!'+#!')!' ,!' '
' ' ' ! $# ' !' '-)* !'! ' 2! ' ' !'
! !'!'&! !# '! +#, ')) ' !' !# F'!'+#, '!'
: ! , & O'A ! # '= '! !& '!!#'
G#'', &! ' ' ' #$!)!(' !'+ '% # '= # !&! '
'!# & &! (' !' ! ' ' >F ' F !-:C) !'< '
!' #' ! # ' >
' '<7=4. .1, '6.1'5.;57.E>>5'?4 66'4;..@>;47 .> 4<
, ?1.'., / /.'5'H1'<;.'56.1'1.->74'?'1';. '/> /.'> 4<
1'<>?,77-, 1% >'6.45.'E,<;7 ,<'>.'E' 1.'1>J<.1' .6'5, 6'.67
5<.'1.66,41;. <7'1 66'05.>.'J5, 1.I'.55.;,<>4 7'01.41 1,<G'
0.1> .67 < . '>,'- 1'7 ,<% .1>J / .'>.'5'%5 0.17>.67 E' 7
5,41'5.6'0,,6';'1';7 1.68'c ,41'5.6':, / /.6' ' / 0 7 .4@ > 4<.'
5';.' > 67 J4>.' .<71.'5.6' 0 .<E' 7.416'>4' J.<1.'5 4 / ' <%
B45'< .67 ?546' <7>1.66>'=4.5.'1, ' 0'1.;,<<' 71.'=4.'5 . / '
5 1.'>.'5''1' 6,<8' 5.'6.4'=4 . <- .<<.''4@' ;:.E6'>.6' <'\'
5 ,<68'.67 -5-. / .<7'1>;5' / >'?'1'5'71 J1'<>.'<'0,1 7>>.6'
7'<.' 6% '< V ''?'6<<' :4 / / .>.' 0, '6.<6'=4 '<.'54'
1>> 6. .6?546' ' .;'05'<7.6 <E,17<<.68'?,41'54 '.7'6.6'>.6'
;.,>'< 68'6 5'<.'6 '?75 =4.'?'6'6>1 .46. / .<7'0 .,<6,5 >.1'
5'1>-,54>,<% .6'5. 6' .1 [7'1' 6,<'>.6'.<'. / 6' <7>1 .<16 %
/ ' 6' ; .67 '4' ?'17 '=4.'5.'1, '?1.77>1' .,<71.' ; .4@ >4'>.'
5 ,76'=4 ,<'04J.1'>.'6. <7.<7 ,<6% 5 <.'7 .<7=4 0 4 >.'
5.714 1.'7,47.6'5.6' '5'1 / .68'& '> 66 ?.1'7, 47Y' 7.6' : ' <.6'
5'15 ;45 1.68'>.'1 7'O 1U' 6.;84B7>'641' 6'E1,<7 >1.68'.7'>.'
1,;41.1' ' 6 07 47.6'5.6' ?'17 .6'>.'5' ; ,<67 747 ,<' ;'0.<
01;' .7' <,< <7.11, / ?48' 6.'5' ?1, ?1.' 0'7 >;5' 1.1'641'6.6'
.70476% 5'E'-77>,<.'=4.'&.'1, ' ;,<<']6.'?'1E' 7. <.<7 .7'
>7'7>.6'E,1;.6'>,<7' 5' '5.'64?1. / .';, <'<>.< .<78'd.7'5.6'
6?>1'7 ,<6'=4.' 6' ; 1; ,<65'<; .6' .@ J.<78' 'E <'=4.'1 .<'4.'
,??,6.'4@' / ,4@. / .4 6'.7' '<@' 1>1,5K7 ,<6'= 5 5' >, 7'> '
1 J.1'>>6'=4. ';7 - 7>'54 '6.1''1.<>4.% %
$ ' '! # ' # !' :C! # ' !+#!' ' ! !'$! H #''
!'! !'C#=!' !' ' 'L!' !' !' ! ! @
' !')!' =! ' ' !' !&!# ' #'D: '
!' !' : ! !'4 &&! ' !'$ '+#, 'B! ' '!) !'
#') : ! ' !< $$! ' = ! '#' ! '& &! !'!'
#' -' # !' !')!' ! ! (' !' # ! ' ! '+#!' #'
% ' ' ! ':')!'+#-! ! ' # ! ' -! &!'!' !' H
# : !'B '' ' !'+ ! ! ' - ' ' (' !' ! '
! !' = ! !' :# ' ! , ' : +#!A'
!' # '= ! ' !' !)!(' !' #' ,% ' '!) !' !'
#' # ')! !' +#! ! !' ! ' #& ! '+#' %! ' '$!'
#=! '' 4 &&! '! +#! '# !' ! !'))!'Y ' !'
! ' ' # ! +#!' ' ' !' !# !' !'C# !'A '$ #'
!') ! ' 'C#)!(' '$ #'+#!')!' ! ' '& '!'
! ' ,! !'# %! ! !&! 'C#= (! '+#!' ! &)*! #'
' #')# ! ' #')!' !' ! && =!&! '+#'
!#' ' #' !' ! ' '! !! ' # ') +#! ' !'', = '
!!'!' !' ' & #% !'$ 'B# ' ' ' #% ' !' ' :'
'C#)!', !(' ! ' ,!& !*!' -! !'= !# ;') '
#' !' ' #' ! A'! ')!' ! ' '
! ! % ! ' #' ! % ' !' ! ! !' :' # !' =#! !(') &&!'
' ! ' =) ' ! $ #) #!# ! ' *: #'
, &! ! ' ')# ' #' ' :' ', C#)!' !' # '
#' !: ! ' '#= 'C # ' L!' 0, ' ' ! , &!!'
!'!& = (' ' !'! ! ! ' #' ! +#! ! ! &) '
! ' !&: ! ') & ! ' #' !# ' ! '$)! ' !# ' !@
) ! ' !' #'! ' ' !) !' '<' ! ' ' ! ' '
&: !# '+#- ' ,)! ('$' +# J' ! ' !' !& ! '
' !' !)! '$' !# ' ! ! '+#!' +#!'', & !' !'
' :! ' !'# ') %)#' !' !#'$: ! !
L!' &!' #&!' 3 # ' !% ' : ' #)! '+#, '
C! !' ! '* ? ! ') !' # (! ' : !' !' !' !% @
'!' !' !') # ' : !'3 # ' !% '!' ') @
!+#!)!' #'))# ! ' %!)' ' #' = !') % !' !'
& >! ' !' !$! !' ' #' & '!'!' #'!))! '
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!' ')!': !' ' #' #% ') !' ,! !'
', :C!' ! '!# ! !&!#' !! A'! #' !% ' :$!'
)!' & &! (' # +#!' ') !+#, ' #' !' ! ' !C$'
'=! &! ,* !' # '$$)*!# !'$' # !# '$ = '+#!'
!' ! '# !' = ! ' !$$!) %! ' 3 # ' !% ' # '&! !'
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!' (' !' ! !' ' ! ' !' :#) !'+#!

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% ' & ! '8 ' (! (!, ' # ! , '$'(E '&'
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%4 ' '@!)% B % ' 3 Z ' '$,') *,'& 'A K
'& ' % $$ # ' '& -' ! ,,% ,' %A ,'
' '&% ,'& ,' ! * ,' %B$,' $', %'% & ' '
($% '&2!C % ! '(! '$%'& * , '& ' ! ,'$,'(%$,'
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32 , B$& '! &! ' 2 (,,! '& ' '&, ! ,
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&! '$' ,' (! % '& '4! ,' & ' ! (''E '& #
% & ' 2 ! (% '$%'& , ,,! ' $' ,! #
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' 'R' ! ,%4 && & '$' ', (B ' '
2% ' ! , $! $' % ' ' ' 2 $' (! #
4% '($,' 8 ' ')% A 'E ', ! ,& ' ('
E2%' '$,' % , ,' 'E 2 '%'(! '4 ' '
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2 $$ ' ', %' ,& ' 5
3%' (!(!, ! '& ' % ,' , '%&!(& '
#' M' '*% $'$ '&2 '$ '&2 'A % &'
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! (% ,'& '& %A! ,'4!$! % ,'(! ', ' $ '
, '$%' *ZP * '! **% '(% '& '$ *' (!E '% '& #
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4% '$ ' '4 , '$,'%' ,'% ! & $ % '
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32 ,, B$ '&& & ' ' ' ! & $ % '$ '* %'
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5 ! ,' 4! ! ,'%'& % ' ' G!E $& '&& , '
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3%', % ' ,'$ 4 '%' ! ,')

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"'
< ' !& ! '& ' /W '? ' !' >!# ' '$' ' ! !'5 ('
, ' ' '5 ' ' +9' ' '
1& ! &' ' ' ' ' 4 ' W'''
B' / 0,41J%%%%%%%%%%%%%%%%%%C ! >< .6%%%%%%%%%%%%% %%'' (
,<>1.6%%%%%%%%%%%%%%%%%% 'CC' %' -,4 / .' % % % % % %' C9
W / ' < [V,<8' , ' %' %' %' '4'?' 1
' ' ' ' /
#' >.6' <>.6'>.'C '5 ' CC (8') F
,17 ,<6'>;' 9 ' -%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%GIGG
/?14<7'>,.7,01.'>.' ' - %%%%%%%%%%%%%%%%U (8') I
/ ?1%'>.'>>;% ()C% 34 78'>.'E< %' %%' ' 8 0'?%' '< ?' 1
+ >.' C ' / 55% >>;% ()U% $%' ' 8'B' J ;' '0
+ >.') ' / 558' '-.;' 0455.7 <6%%%%%%%%%%%%%%%%%%%%%%%%% 8 ' '0
'< :# ' ' ' ' '0
+ ,15 6;'< - 'J .1 %%%%%%%%%%%%%%%%%%%%%% %%%%%' '0
K455.7 <6% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%* 8' *
8 ; ' * ; -('' *- - ' ' = ' ' BWFE/' FX/' %FG/' FF 'FP/FW/FP
#' 66.'> .6 ;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %')) 8' * 8' * 8' * 8')
. / ;' 66.%%%%%%%%%%%%%%%%%%%%%%%%%% %' * *8U
3< 77% >.6 '4@'>. ' %' ' %' 8' J,8' 9 8'9U8' 9 8' 9C
+'>.') ' / 55%8' >',07 ()*% 8 -F' 8' 8'c'0%' '4'?' 1'10'
#' 66.'?'71 ,7 =4.' (
66<1'<;%,,<71.'5.6' : ;% *)8'*U8' * 8' *C8' * 8')*8' * 8' *
+ E7 - .% %' %%%%%%%%%%%%%%%%%%%%%%' 5 3' [' ' ' ' ' ' ,7'

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C # =!)! D) !(# +#!)! +# ! ! ! < TY ! !

!% !&&!) # : ! \ # % $, B" ! ! -

, : !F -!) #" =! !) &! H #& [

.66 ,4?6>4 041VI 0>4 7 57 5.;1 / .>3<75= ?GS

6,<< .16 5 0 11.%6,<7 ;;46.6 .67> E, 1%. ,</ .<; U

>. / ,5 1 5 / 6>< >4>>;7.41 1 .675.V8 =4 0,4 7 U0467.

71. >.%5> 1>?45 7 , 5 ?546% 7 ; .8> 5 0 . ,E 6 , .

>67 6 <60,1<.68.7 =4 6 .67 ; ,<; 5 > 5 0 . , - .555 <;9 .5 5 .6

7 <6. >. 7 ,<6 ,E.75@ =4 . ;,<; 66.K7% - , =4. 6. ?

5 , 6 ?,5 7 7 =4.6 > EE.1.<7 >. ; .55.6 >4< J1 <> ; , / 01.>.

?.16 ,<<.6f K , <7. /.0.5.6 >>6 ??1,4-.f / 6 0 .< 5, <%

8 =7 . ; ,5 >, .1 6, 7 ?,41 5. ?.16. ;47.18 ,4 >. 54 1.146.1

4< >1, 7 .J 5 :;.54 4 ><75.6 571.6 640.56 >. % >8 U5

?1,7.;7 ,< >.6 , 68N f. %'47 6 ?> E>67.8 6 0. 7< 6

71,4-. K1/ <J: / 016>.5 > 7 ,<8 U6 ;1E .1 0> - .

?0>1 >.E.<>1. 6 ?1,?1 .7>% . < 6.1 6 ;14 7< ? 15

% .45 . . / .7 05 J. U ?,17.1 >4 . ,416 8 ? 1 ; .5U /> 7.

=4.0.<. ? 17 J. 6 ? 6 6 1 =,< >. ?.<6.1%

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WCp' .'5" ?.7 7 ,<'>.'=4.5=<.6 6,46 , K; .16 .7 6,5>'76
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7 p .6 '77.67'7 ,<6 >,<<..6 '4 0'6 >.'5" ?.7 7 ,< ?'1
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W G <!<8 >.' .7'7 > <640,1> <'7 ,< >'<6 5.=4.5.67
4<.'?'17 .'>4)G1.J / .<78 .7 >.6 / .641.6 ?1 6.68 ?'1'5.6
, ; .167'<7 >4'1.J / .<7 =4.'>.'5" > - 6 ,<8 ?,41'3'1. '\
05 15 ,1>1.Q
;5'1.'=4.'5.'6.1 / .<7?1 7.'?'1'5.6 , ; .16 ><)G1.M
J 7.<78 '?1.6 5.;741.' E' 7.'>.'5" E,1 / 45.' ?1.6;1 7;' ?'15"
5,'>4 CC Q4 <8 6.5,< 5.6 E,1 / .6 / / .6 >4'?1,;.6 -.10'5 "
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>.6 1'??,176 >.' ; , / / '<>. / .<7.7> ,0. 66'<;.'I =4.'5" 5,'
.6 ' .7'05 .'>'<6 '1 / ..8 .7 =4.'7,47.' <7.1-.<7 ,<>.'5.41
?'17 V>, 7 .71.'6.-.1. / .<71.?1 1<>.I
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/ ,V.<6 =4 .55.'5.41' " ; ,< .6 ?,41' / ' <7.< 1'5" > 6; ?5 <.'
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'57.1.68 .7 ?4< 66'05.6 6 56 < .< ,<7 ?'6 E' 7 46'J.I / ' 6
=4.8 5"5,' .7'<7 E' 7.\'5.'6, < >.'5" E' 1.' .@>;47.1'>, 7 .71,'
1.6.1-.'4@ > - .16 7,<;7 ,<<' 1.6 <67 74.6 U ; .7 .5E.7%
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/ < 671.68 .7 '< 641?546 >.;1. " =4 5' 0' " ?'6 5 .4 U >.G
5 O.1.1%Y
' ' &" 'R ! ,' %4 N & & ' $' '% $ '
(,' ' ! 4 % ' % *'(! '$,'(!, ,'% -'$,' R
& ,' ! ,' $ & 4 ' , ,% '& '& ' ')% A #
]'&% ,'$ ', 4 '3%' !%4 $$ '& 4 , ! '& ' ! % #
' &' ! ' ')% A ' , ,% '8 , 2 '
$%'($ (% '& ,' ! % ! ,'(, ,% '(% ' % ,'
! ,' %4 N (, ' 2 $ % ' $, ,% '&2! 4 & '
! 4 $$,' ! % ! ,' &% ,' $,' & (% $,
' ! % ! '& ' Z '%'? A '*%#
$ % $ ', 4 '& ,' ($% ,'* ! & ,' '% '
& 3 ! %' @! & % -' & (E,' $! A (,' , !$$ & '
*%4! , % $ ' ! ' %4 ' $,' 4 $$,' % ,'
' % ' 2 , ' &% ,' ' , ' ' ! ,' 4! ,'
(! (! ,! ,' '(!E '& '& ' ' ' ! (&'(%,'
! '$,' & % $,' & ', 4 ' % ,'$,'A % & ,'B % K
) ,' & ,' ! % ! ,
% %) ' (, ' ' (!E '& '& ' ' ,'
%&! (' ' R
$ 17% G% ' 66. / 055.'<'7 ,<'5.'> ;1>7.' =4 U ; , / ?7.1'
>4 G'Q'<- .1' (*C 56.1" #7'05' 641'5.6 1,47.6 ; '?1 6
>.6 J<#.6 5.'<, / 01.'>.' ; ,411 .16 >.'?,6 .6 '4@ 5.771.68 .,'
- , 541.68 E@> >'<6 #7'7 64 -'<
' % +' ' +' .' '1 6 U '5.<; .<<.68
?'1' ' <7 34.<7 <8 5 V '41" ; : '=4.' Q, 41'4< ; ,411 .1'>.'
>.?'178 .7 4< > '11 - ..%
W .' '1 6 U #0 E.1.68 ?'1' . / 68 ' V '41" ; : '=4.'
Q, 41'4< ; ,411 .1'>.'>.?'178 .7 4< > '11 - ..%
W ' '1 6 U 71'60,41J8 ?'1' .708 5 V '41" 71, 6; ,41M
1 .16 >.'>.?'178 .7 71, %6 > '11 - ..' ?'1'6. / ' <.%
$.' '1 6 U 71'60,41J8 ?'1' '<;V8 5 V '41" 71, 6; ,41M
1 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
$.' '1]U B4< <J4.8 ?'1' 1,V.68 5 V '41" 71, 6; ,41G
1 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
$.' '1 6 U K.6'<E,<8 ?'1' Q,<8 5 V '41" 71, 6; ,41M
1 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
W .' '1 6 U V,<8 ?'1' 474<8 5 V '41" 71, 6 ; ,411 .16
;'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' 4.%

" .' '1 6 U V,<8 ?'1' ,45 <68 ' ' U<1" 71, 6 #,41M
1 .16 >.'>.?'178 .771, 6 > '11 - ..' ?'1'6. / ' <.%
" .' '1 6 U ,45,46.8 ?'1' / ,J.68 5 V '41" 71, 6; ,41M
1 .16 >.'>.?'178 .771, 6 > '11 - ..' ?'1'6. / ' <.%
W ' '1 6 U K,1>.'4@8 ?'1' ,7 .168 5 V '41" 71, 6; ,4 '
1 .16 >.'>.?'178 .771, 6 > '11 - ..' ?'1' . / ' <.%
W ' '1 6 U '<7.68 ?'1' .' '<68 5 V '41" >.4@ ; ,41M
1 .16 >.'>.?'178 .7 >.4@ > '11 - ..%?'1'6. / ' <.%
W .' '1 6 U K1.678 ?'1' ,<<.68 5 V '41" 71, 6; ,411 .16
>.'>.?'178 .771, 6 > '11 - ..' ?'1'6. / ' <.%
W .' '1 6 U #:.10,41J8 ?'1' ,4.<8 V'41' ; : '=4;'
Q, 41' < ; ,411 .1'>.'>.?'178 .7 4< > '11 - ..%
W .' '1 6 U #'5' 6 .5 4<a.1=4.' ?'1' / .<68 5 V '41"
; : '=4.'E,41'4< ; ,411 .1'>.'>.?'178 .7 4< > '11 - ..%
6 ' ' +' .' 55.'U 71'60,41J8 ?'1' .70\
5 V '41" Q1, 6; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'16.8
/ ' <J%
% ' .' 71'60,41J U V,<8 ?'1' K.6'<=,<8 5 V '41" 71, 6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
' V,< U K,1>.'4@8 ?'1' #5.1 / ,<7 .7 / ,J.68 5 V
'41" 71, 6 ; ,411 .16 >.'>.?'178 .771, 6 > '11 - ..' ?'1'6.M
/ ' <.%
W .' ,7 .16 U " ,;0.57.8 ?'1' ,178 5 V '41" 71, 6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
W ' K,1>.'<@ U .<<.68 ?'1' '<7.68 5 V '41" 71, 6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
W ' .<<.6 U ,4.<8 ?'1' 5.<;,<8 5 V' '1" &1, 6; ,41'
1 .16 >.'>.?'178 .771, 6 > '11 - ..' ?'1'6. / ' <.%
W ' ,4.< U / ,<68 ?'1' .4 ; '7.58 ' V ',1= 71.<6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
W / ..6 U 4< .1=4.8 ?'1' 55.8 5 V '41" ; : '=4.'
Q, 41'4< ; ,411 .1'>.'>.?'178 .7 4< > '11 - ..%
W ' K.6'< ,< ' ,<7'15 .18 ?'1' 1<'<68 5 V '41" 71, 6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
W ' 71'60,41J U '<>'48 ?'1' B'J4.<'<8 5 V '41"
71, 6 ; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..?'1'6. / ' <.%
.' 71'60,41J U 4< <J4.8 ?'1' .4E K1 6'; 8 5 V
'41" 71, 6 ; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..8 ?'1'
6. / ' <.%
W ' V,< '4 ,<7 >.%K.'<- , 6 <8 ?U1' K,41J, <8 7 V '
'41" >.4@ ; ,411 .16 >.'>.?'178 .7 >.4@ > '11 - ..' ?'1' 6.M
/ ' <.%
W .' V,< U ! .<:-.8 ?'1' '<74'8 5 V '41" =4'71.' ; ,41''
1 .16 >.'>.?'178 .7 = '71.'> '11 - ..' ?'1'6. / ' <.%
' .' V,< U ! 1.<,05.8 ?'1' K,4 , <8 5 V '41" 6 7
; ,411 .16 >.'>.?'178 .7 6 @> '11 - ..' ?'1'6. / ' <.%
W .' V,< U '16. 55.8 ?'1' . / ,45 <68 5 V '41" 71, 6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
&' . V,< U '16. 55.8 ?'1' - J<,<8 5 V '41" 71, 6
; ,411 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
$ @ U <5 0 8 ?'1' K1 J<,55.68 5 V '41" =4'71.'
; ,411 .16 >.'>.?'178 .7 =4'71.'> '11 - ..' ?'1'6. / ' <.%
%& .' . / ,45 <6 U ,4 ,46.8 ?'1' ,<7?.55 .18 E5 V '41"
6 @ ; ,411 .16 >.'>.?'178 .7 6 @> '11 - ..' ?'1'6. / ' <.%
$ ' ,45,46.'U K' ,<, .8 ?'1' <;:8 5 V '41" >.4@ ; ,41G
1 .16 >.'>.?'178 .7 >.4@ > '11 - ..' ?'1'6. / ' <.%
W .' K,1>.'4@ U8K'V0<<.8 ?'1' # '67.568 5 V '41" 71. 6
; ,411 .16 >.'>.?'178' .771, 6 > '11 - ..' ?'1'6. / ' <.%
7' .' ,45,46.'U K,1>.'4@8 ?'1' ,<7'40'<8 5 V '41"
71, 6; ,411 .16 >.'>.?'178 .7 71, 6> '11 - ..' ?'1'6. / ' <.%
W .' ,45 ,6 U .<>.8 ?'1' # #1 / ,<7 H.11'<>8 5 V
'41" 71, 6 ; ,411 .16 >.'>.?'178 .5 71, 6 > '11 - ..' ?'1' 6.\
/ ' <.%
$.' ,<5 <6 U / ,J.68 ?'1' ,<7 4.,<8 5 V '41?>.4@
; ,411 .16 >.'>.?'178 .7 >.4@ > '11 - ..' ?'1'6. / ' <.%
W ' ,416 U '<7.68 ?'1' <J.168 5 V '41" 71, 6; ,41M
1 .16 >.'>.?'178 .7 71, 6 > '11 - ..' ?'1'6. / ' <.%
W ' '<7.6 U K1.678 ?'1' '<<.68 5 V '41" 71, 6; ,411 .1Y
>.'>.?'178 .7 71, 6 > '11 - ..' ?'16. / ' <.%
$.' ,4.< '4 B'-1.8 ?'1'L-.7,78 5 V '41" ; : '=4.'Q,41
'< ; ,411 .1'>.'>.?'178 .5'4< > '11 - ..%
W .' ,4.< U .??.8 ?'1' ,67.68 7 V '41" ; : '=4.'Q,41'
' ; ,411 .1'>.'>.?'178 .7 '< > '11 - ..%
$ % .6 / ' 71.6 >.' ?,67.' '4@ ;0.-'4@ 6.1,<7 ;5 ' J.6
>.'5" ; ,<>4 5.'>.6 / '55.6 641'7,4 .6 5.6 1,47.6 ; >.6646 -(1
6 J<..68 .7<.'?,411,<7 6 .<> 6?.<6.1'=4 .< 1. / .77'<7 5.416
01. - .768 .7 .< E' 6'<7 5.'6.1- ; .' 6 @ / , 6 '?1U6 5" >'7.'>.'
5.41'>. / 66 ,<%
W 5 5.41' 6.1" ?'V.'71, 6 ; : . -'4@ ?'1' / '55.' ?,41'5.'6.1M
- ;.'>.;.55.6 =4' 6.1,<7 .7'05 .6 641'5.6 1,47.6 >.' '1 6 U

1'60, ,10 'E7 B>< <J .'E7 .6' 5 P E7 3 'E7E,45,<6.8' ,
K,1>.'4@ .7 E7 K1.67W.7 >.4@ ?,41%5.'6.1- ;.'>.6 '471.6
7 8
W % '6.1'' ?'V> E7 ; : '=4.' /< 1.'>.?,67.' ; :'1JE7>5'
'- ; .'E7 "E<>.' ;0'=4.'71 / .671.8 5'647</.'>.'?'6,46
N1 ;0.-'5?'1 ?,65.8 3 ; , /?1 6 .6 J4 >.6' =4'6.1,<7 E7
N 1 ;0'1J.W E7 1' 6,< >.' '6,46 ?'1 ?,67.%
8' .6 ?,67 55,<6E ; <>47 . 16 >.6 / '55.6'0.' ?>411,<7
J .1'>.6 ; ,411 .16 '4;4<.'1.71 047 ,<6
W % .6 / '771.6 >.'?,65.'<.'?,411,<7 < '4;4> .'68
;@ J.1'5.'?'Q. / .<7 > 4< ?546 J1'<><, / 01.'>.' ;0.-'4@=4.'
; .54' E @.'641 ; :'=4.'1,47.'?,41'5.'6.1- ;.' 1><'1.'>.6
< '55.6I
W #0'=4.' - , 7<1.'>.'?, 5 ' '4G .7 1.6 7 .'6.7'' 0'1J E.
=4.'> 4 '6.4' ; <>4;7.41'.7 >.'> ?.;0.68
$ 5' 56.1'' .7'07 8 .< ,471.' >.6 ; ,411 .16 >.'?,67.' '4@
.7 1.6.< -, 741.8 ; : .-'58 ,4 >.6 ? . ,<68 ?,41 '6641.1
<<.' ; ,11.6?,4>'<;.'>1.;7.' .<71.'5.' ; : .E ">.' ;0'=4.'>>'
?'17. / .<7 .7 ; .4@ >.6 >.?'171 / .476 ; ,<7 J46I 5 .,'6.1''
>.' <. / .' .7'0 ' ?,41 5'' ; ,11.6?,<>'<; .' ; 51.' 5.' : .E'
5 .4 >.' ; :'=4.'>>?'17. / .<7 .7 5.6 0.6 ,E7 6 >J.<7 5.6 '>M
/ < 671'7 ,<6 >.' > 671 ;7 ,< 5.6 71 04<'4@8 .7 5.6 '471.6
.4@ =4 '.< 6.1,<7 646;.?7 05.6
5^' .'71'<6?,17 >.6 / '55.68 '471.'=4.'641'5.E7 =<' '
E'<7.%.7 4<.'1,47.6 ; >.6646 >.6 J< .6'6.1'' E' 7 ?'1 .4'
71.?1 6.%
$ % '> / 5< 671'5 ,<>.6?,67.67641 ' - 6>.6#,1?6 '>'
/ < 671'7 5:8 .7 6,46 '47,1 6'7 ,0 >4 / < 671.'>.6; ,071 04'
75,<6 ?40E =4.68 #7'E, 1' 5.'<, / 01.'>.'041.'4@ .7 ; ,54'>.'
?1>?,6>6 47 5.6 '4 6.1- ; .G W7 E.1'' 5,46 5.6 71' 7>6 .7 '>04M
> ; '7 ,<6 ,E7 ; / ' 1.6 ?,41'5.'71'<6?,17 >.6 >#?E7; : .6% '6.1''
1. / 6 E7 ; : '=4.'> 1.77, 1.'>.'>>?'17. / .<7 4< >,405.'>.6
71' 7E76 .7 '>04> ;% ,<6 ?'66>6 ?,41 6,< '11,<> 66. / .<7%
'<V '41'' >.' ;5'46.6 ,05 J'7, 1.6 ?,41'5.'71#6,1 ?405 ;'
=4.' ; .55.6 ; , /?1 6.6 '4@> 76 71' 5>6%
$ .6 #,1?6 '> / < 671'5 E68 < 5 '71 04<'4@8 <.'>. '
-1<<7 B.< ,1>,<<.1'>'<6'5.'71' - ' 58 5'' / '1;0.'.7 1,1J'<'
6'7 ,<> '6.1- ; .'>.6?,67.6 '<@ 5.771.68
$ .6>. / '<>.6 .75.6 ?5' <7.6 1,5'7 - .6 E7; .'6.1- ; .'6.1,<7
'>1.66E7.6' ?,4-, 1 .@ .;<7 E% 6 % %
M' ' ' %((! '& ' ! &'& ,'* % ,' .'$ '>> '
' 4% ' ' & 'R
$ 66. / 05#.'7 '7 ,<'5.8 '? E.6 ' - , 1 ,<S '7'?? 17>.'
6,< ; , / .'>. 'E<'<;.68>>;1E77.'=>.'5.'0' 5 &: 7 ?'1'5.J,4'
- .1<. / .<7 ?,41 554 / <'7 ,<>.'5'' - 55.'>.' '1 6 ##66.1''
> ' - , 1 6,<.EE.7E7 ; , / ?7.1'>4'Q, 1 ,E75'' /4< ; ?'557.''41''
?1, ; > G 6,46 '<7,156'5 ,< >4 >#?'17. / .<78 E7 7 <.'>04M
> '7 ,< '4 1'0' 6 >.'5'> .' 54 / 5<'75,<8 >'<6 '' E,1 / .'
?1.6;1 7.'?'1'5'' 5, '641'5.6 '> / < 671'7 ,<6 /4< ; ?'5.6IY
' ' "(9*+ -/ -(4 ,-' - 4(.38/ 3 (*3(-'
(3,-.(- * .+44 .,' ' .' +' *3,$ *' - ' "6-*(+ '
"6$*/4+. ( )''.7 + +#$*(/ / / /
% a?77 'N .'>. / '<>.'= ' - '<7>.'7 ,46 ; ;7 '
?.1'>.' ; .7 ,0Q.7 <,46 .<7.<> ,<6'5.'1'??,17 641'5''
; , / ?Q'0 5 7.'G=4 5 .67 <E < < .<7 ?1.66'7 7 >.' ; ,<'
<' 71 .%55'.67 ?,66 05.'> ' 55.416'=4. ; ;75.' ; ,7<?7'0 '
5 7.' .@ J.'>.6 5.;7 ,<6Q .7 5 E'47 6' 6 1'5.' / , / .<7
, 5'5.6 .5.;7.416 6,<7 1'66. / 05.6I
% E7 #B HN .'E' 6'5'' / ,7 ,< >>1>1.'= 5 60 7
>. ;1.7>'=4.'?1,- 6, 1. / .47 5'5 .'6.1''15.>'5 5 6 '' 5c,1'
>1.' >4 Q ,41'=4.' 5.6 ?1,Q.76 >.' >. ;1.7E7 7>; .66' 1E.6
?,41 .@?;47 ,< >.6 5, 6 E' 7; 6%
' < ,<N .'>. / '<>.' '466'=4 5 <,46 6, 5 E' 7
<; .66' / / .<7 5'' 1.54.' .75.'1'??,17 J.<.1'5 >.6 >.'
;1.76 641'5.6Q41>6I 5 < .67 ?546 ?,66 05.'>.'?1, ; .>.1
'<6 5.6 '<; .<<.6 E,1 / .68 ?4 6=4.'5'' ; ,<67 747 ,<
J'1'<7 7 .@?1.66> / .<7 '4@ ; 7,V.<6 .' >1, 7 > >71.'
Q4J.6 ?'1'>.6Q41. 6%
'' ?1,?,6 7 ,<>.' 7 1 . 51' .67 '> ,?5>;18
- ' 1 % 1><; : .7 (>.;1.7>.' ! =.E7 7;1 / .6I
W 66. / 05#.'<'5 ,<'5.'>>#1E75.'* 6 Q 6=> E7 0,5 - .'
,1>1.8 <.'6.1' / 6 ,1>1.'>4Q,41'?'1'5.6 ; , / 7.W'4'
;4< '471.'?1,Q.7>.'>#;1;5 =4.' ; .4'' '06,5 < .<7 <. ; .66' '
1.6 ?,41 .@. ;45 ><>.6>#;1.55=4 556 ,< .<; ,1.'E7 ?1,?,6.1
.7 =4 56 1.J'1>.<7 ; , / / .' '0 [5< <.<7 <. ; .66' 1.E7 ?,41
1.@#;47 , '>4 ?1. ; .>.<7% $
3 ' %((! '& ' '@ A % &'V&2 (P' %EB &'
'3% $ ' (, '$%', '& ,'% $,'&

, ! ' %((! ', '$,'$! ,'* %$, ' M5 $, ,'& ' ,
'17 ;5.6 6,<7 >.;1.7. 6%
I K% E>46 >,<<.14<6 ; .'>>;1.7 .< . / .1'>'<6 4< ?1 '
; : ' < <4 / E71,%
''6.'<; .' .67 7. >.' '71, 6'7 ;01.6%

; 0 "7 ,653 %+ .<>1;>'G ' 8 'E1''
J#> .' 5V1 =4.'.<' ' ' ;7.6% +' % ! '1>.5 1.?'1' 71'' ?'1'>; '
?'6 'Q,45 6 '4 G ';7.%
- ' ' ; ' &, .<Q% 5'' UG 1.?1.6.<7'7 ,<
>.' & ' ,4' 71'J.> .'
<,4 - .55.8 64 - .'>.' '8 ' ') ' '8
- % & .40% 5'' 9 I' 1.?1.6.<7'7 ,<'>.' A'
2 ' ,4 ' < '?1#;#>.' 3
- ' 1 ('14.'>.' ; : .5 .4%N + 40% G2 ' . '
&1'J#> .'>.' ' # : .< .18 64 - .'>.'5''$ ' , & * ' ; , / > '
> .' .< ' ' ;7.6%
- ' ' ' ' 1 $; >.-'<7 >.E75,<6 .'E%
40% 5'' d 1.?1.6.<7'7 ,<'>.' '8 L ') ' ,?>1'%
<'77.<>'<7 '' 1.?1.6.<7'7 ,<'>.''09 ' '
; , / .> .8 .7 '' G >4'G ' ' '& ' ,?.1' E45 .%
- ' ' ' '4' '5' 6 '
,V'5% +', ' ' & ' ' < ' 1'J#> .' >'<6 5' '
=4.55.' 5.' '<-'5 ' <>.'1. / ? 1''5.' 195.'> ?: J.Y .8 .7
% ! 1' / / ,<7 ; .54' > 1.6 .I' 64 - .'>.6 ' F '
,?.1'' ; , / =4.%
- ' & 3 ' ' ' 3 ' V /
+'B%D.(4.('(*,+,$ *' * 0' 'R'3 +0('/+0(3' *')+ (,7 '
' ' ')@ A 5 (''+ ,(. '' (', (''(2(.3$33''
- ' (*(, *9 +$'7 "'4*4* / ('
' ' ' \ ' 0, 1 ' 8
L) '' ' '4 0,45.-'1>' >4' . / ?5.%+ Q%
8 ' 7 ' ; , / =4.I' '
$ 1 ' ' ' .7 F ' (& '?'<7, / / .'
? . ; .>.' '> 4< > - .17 66. / .<7% %
- ' 1 E 6 ' '' ' ' '' & . Q% ' >
,4 ' : & ' G$ ' 64 - .'
>.6 & & (' ,?>1''.<'C ' ; .68 %
- ,E7 7W 8 14.' '<7 '17 <% + 42%8 5'' G
1.?1#6.<5'7 ,< >.' ; ' ' ' '?1E7;#>>.'
>.' (' , 'G & 3'.7 >4 !
- ' ' ' ' ' >4 - , 6% + ' > % 5'' G'7.?1>'
6.<7'5 , 5 7 .6 , ' ?#1'' ; , / = .'.<' ' '05#68 ?1>'
; .>.' , 7 ' ; , / #>5.'.<' ' ' ;7.6I
+ ' ' E7 > K6I' 14.'>4' ' 58 <GG * % + ' 5
,4 .17 7,46'5.'Q,4168 Q 6=4 E7 7.55.' : . 1.'=4 5 ?5' 7 E7
% 5.6 '0,<<E76 > V 1.65.1%

' : ' ' ' @ ! "! ''
''
N @ ?1. / .16 74, 6 (* I' %5.'?'V.41'6,<7 E7 '' .771.'H%
G ' ' & ' & ' ' 9 ' ! ' '
/67.1>' / % % $ N W 7 UU #'>5@ I' 8 N % I' * % %
B' / 0,41J G I' I' % % C ' 4 - ! % ' ' ' 5
,<>1.6 '' ' ' CC 5-,41<.' 8 ' G % ' N
'>1 > % % % % % * % C 6 V,08 , ' ' ' ' '4?' 5
' ' E
;7 ,<6 >.6 <>.6 >.'C ' 5 - % % 8 % ' 8 % 8 % CC >8 Q
/ ?1><7 > , .7,07.'7 .' 7P 55-I' U (8)8)
+'>.' >>.I' ()C% 34 78 >.'E >% % 8 8 ' 8 ?% '< ?' 5
+'>.' C ' 7 55 ,< '>>E;% ()U % 8 * 8' 'O' 8 Q
% 5' $Y '
+'>;') ' / 555 0<6 77 - .'0455.7 <6I' E
+ ' 6'<6 0455)8 6' V8 c8 9
K455.7 <6 %%%%%%%%%%%%%%%%%%%%%%%%%% $ $ Q %
;7% : ,4 - % >.6 <>#6% CC 8 CU8 C 8 CC8 C G C 8 C
C 8 C 8 C)8 8 C8 8 C)
#' 66.'> .6 ; I')9 8 U 8 8 U 8
. / .' E6.% I I Y' *C I' C 8 C 8)I' C
175 : 1% >.') ' / 558 > ' ,E77 ()*% N I' E' P ?% ' 7 ?' 18 Q'
6641 ; .<71.'5.6 <#% ()I' I' ((8 ()8 (9 (8 (U8(8 (C
(' (I' 9*8 .)G 9*8 (I' (5I' (C% (UI' (8 (98 ()8 (2
+' '' - % ' 9* 8 *98 *(8 *)8 (**8 9*)8*(8 *)8 **8 >
;7 ,<6 7 '5'' #' 66.'?'7E ,7 =4 ' I' ' $ $ $ $
#, K % G ;5'66.'E7 ' ? '' I' I' I' % % '
+'C E>. [E7 '? 6 Q% '4 G% ') I') C I8)
+)G 'E7 '?W' 40.7'4'

! b ʃ ʃ ,4 ʃ ʃ %

C WXB - ʃ E ʃ + ʃ BHTB ʃ + ʃ <

! %

ʃ ʃ ʃ ! ʃ + . 7 ? .1.41 .67 ?'15 ʃ ?,41 5"
K, :7, . ' - . ;'1'1; : 54; a1'<?, 68 5. CC '4 / '7 <% 4 '6M
641. =4. % % 1" > '0,1> \ 55< 508 .< '@.%
F ʃ > 7, 6 .67 1.?'15 ʃ > . ; ' - ' <7 : .1% < ?1.64 / .
=4 5 64 7 . / ?.1.418 ,4 =4 ʃ 6.ʃ7 .4> " ʃ ?.4 >.ʃ> 67'<; .
>. % % %
. >4. .7 5" >4;5 .66; >. 15. / 0.1J 6,<7 J'5. / .<7
1.?'15 6 > . ; .77. ; '? 7'5.8 '?106 '- , 1 ?1 6 ; ,<J> >. 5'
8
.6 ?1>5 / <' 1.6 >. ?' @ .<71. 5" 466 . .7 5" ,17. ,47
>> 6 J4>6 " ! '55'508 5. > . ; . / , 68 ?'1 5. J>>1'5
?1 <; . > . .?< < .7 5. J1'<> - 6 1 N 5.6 0'6.6 =4 ,< " 64 ʃ
- .6 6.71 ,4- .<7 >'<6 5.6 > .;5'1'7 ,<6 ; ,<<4.6>; ' / ?>1' ʃ
1 ; . > . 466 .% < '77.<> '<7 5" ; ,<;546 ,< > . <7 - . > .
5" ? ' @8 ,< .67 ; .<- .<4 > 4< '1 / 67 ; . > . :4 7 / , 6%
#.77. J1'<> .<,4- .55. " >> '??,17> . ; 8 5. C 8 ?'1 4< ,7 ʃ
E ; .1 1466. =4. 5. ?1 <; . ?< < " > .?> ; > '4 ?1 <; . ! '5 ʃ
50 <8 ' / 0'66'> .41 > . 466 . ʃ <, 1 ; ,41%
? '1' 7 >> . >> =4. ,< .@>;47.1" 5. ?1,0.7 >. - .<>1.
7,46 5.6 > , / ' <.6 ,< 6 , ;4?. > .< E' 1. .67 / '7 ,<8
&c4 8 > ; . =4. ,4 '6641.8 6 > >- .1" ?546 > . / 55 ,<6
>. 55,1 <6% $
.6 ' '7 >. 6 5.6 ?546 .66.<7 .56 >. 5" ; ,<- .<7 ,< 6>?'1. .8
6 J<> . > ; : 67, [8 5. U ' , >78 6,45 5. G .75. Gf (56 ?,1M
7.<7 ; . =4 64 7N
$ 8 " ,17. >,<<. 6,< ; ,<6.<7. / .<7 > ; . =4. 5"
; ,41 < ?>1 '5.8.7 1,V'5. J'1> . .7 ?1.<<. 6,46 6" 6,4- .1' ʃ
<.7> 5. 0,41J > . .4@ 16, [" '- . 6.6 > .?.<>'<; .68
(46=4 > 5" #0.1<' , .77. 1 - .1 . 6.1" ? ,41 7,40,416 5" 5 ʃ
/ 7. > . 5" / ,<'1.0 . '471 ;5 .<<.f / ' 6 < ; . 0,41J8
7 ʃ '4;4< . ?'17 . >4 ?'V6 ; .>> < . ?,411,<7 0' / ' 6 >71.
% E,17 E >6% " ?.7 7. ?5' <. .<7' ; . >4 E,17 > . 5.> 16, ["
1.67.1" 4< 5.11 7, 1. < .471. .<71. 5.6 ?,66.66 ,<6 1.6?. , ʃ
5 -16f ;55. 6.1" <>>?.<>'< .8 .7 5' 66. .<7 >1. / .<7 >> ʃ
6.15.8 6'<6 ?,4- , 1 5" ;457 - .18 V 0>7 1 ,< V >. / .41.1%
< % 34'<7 ' @ > 671 ;76 641 5" 1 - . J'4; . > . <<'8
,< .67 ; ,<- .<4 =4. 5.6 5 / 7.6 > .6 > .4@ . / ?1.6 1.67.1,<7
E @>;6 <6 =4 5 64 7 N 5" 5 J<. > . 6>?'1'7 ,< 71' ; . ,<
1,4J . 641 5" ; '17. 0, <7. > ; .7 '17 ;5. ; , / / .< ; .1" '4 ?, <7
/ '1=4. > 5" 1 - . >1, 7. > . 5" ! 5 <'f .55. 5, <J.1" .<64 7.
44. ?.7 7. 1 - >1.8 > . / '< >1. =4. #0.55 < .76 ,< > 671 ;7
1.67.47 > 5" ; ,41 > . .<<.8 .7 6 >5.<>1" 5. 5 ,<J >4 7.11 ʃ
7, 1. >4 E,17 ,77, / '< > . 5'15 ;5 8 / '1=4> .< 0'4<. 641 5"
; '17.8 > . 6,17. =4. ; . 7.11 5, 1. ;5 ; . E,17 > . / .41.1,<7>
5" ,17. ,57, / '< . f > . > 5" 5 J<. ?'66.1" .< >1, 741. 5"
1 - .1. > . #,1'<'8 .7 64 -1" 6,< ; ,416 046=4.6 .7 ; , / ?1 6
1.6< ; 8 =4 8 '- . 6,<7.11 5, 1.8 '??'15 .<>1" > 5" ; ,41
/ ?.1 '5. .7 1,V'5.f .<64 7 ; .77. 5 J<. 6. > 1 J.1" ?'15"
/ ,47'J< . > . / ,5 '<'70 .7 5. 5 .4 '??.5> ;5 . [,8 .76.
?,15.1" > 5" : '47. / ,<5'J<. '4 ? .> > . 5'=4.55. .67 '?'508
/ '1=4> .< 0'4<.f .55; 6.1" ; .<7 / > . 046=4 > 1 <<'8 >
4<. 5 .4. '4 > .5> > . '1. ;V8 / '1=4. .< 0'4<. f > . > .55.
1. / ,<7. 5" 1 - . J'4; . > . <<"046=4 > 6 ,< . / 0,4; :41.
, ; ; > .<7'5.8 .< ?'1; ,41'<7 5" 641E' ; . / '1=4. . .< 1,4J.f
.55. ; ,<5 <4.1" 5,47 >1, 7 046=4 > 5" 1,<7 >1. 71 ?5.8 > .
/ '< >1. =4. 7.1< 0" 1.67.1" > 5" > , / '<7 ,< .77, / '<.%
" ; ,41 > . .<<. ?1, / .78 6 .<J'J. > 4 .5'05 1 '4;4<.
E,17 E ; '7 ,< =4.5; ,<=4.8 6,46 =4.5=4. ?1>7.@7. =4. ; .
?4 66 .> 1.8 > '<6 7,47 5. ; 1;4 7 >4 7.11 5, 1. =4. 5" ,17.
- .<7 > . 74 ; .>.1 ? '1 5. ?1>6.<7 '17 ;5.%Y
'1 '17 ;5. 5" ; ,41 > . .<<. ?1, / .78 '4 / ,V.<
>. 5" 646>7. E @'7 ,< >.6 5 / 7.68 > .< . ?546 E,1 / .1 '4;4<.
?1>7.<7 ,< 455.1 .41. '4 >.5> > .6 5 / 7.6 =4 - .<<.<7
> >71. > .7.1 / <> .6%
$! ʃ ʃ ʃ ʃ + .6 5.771.6 > . .<<. '6
641.<7 =4. 5.6 ; '0 <.76 > . .<<. .7 > . K.15 < 6,<7 641 5.
?, <7 > . ; ,<;541; 4<. '55 '<; . >>E.<6 - .7 , E.<6 - .8 .7
=4. 5.6 ; ,416 > . ;5.160,41J .7 > . 7, ; : ,5 / V ' ; .>>.
1,<7%
< >;1 7 > . a5'57'<8 .< K,5 . / .8 =4. 5. E.4V " ?1 6 5.

BD% ʃ V ʃ . (' .

> . ; . / , 68 .7'>>714 7 .< ?.4 > . 7. / ?6 =4'1'<7. / ' ʃ
6,<68 5. 6> / <' 1. .7 5" 0.55. >J5 6. > .6.@ 0>]4 7.68
ʃ CU ʃ + ʃ .6 > / J1'<76 E1'<Z' 6 <.
; .66,<7 > '55.1 .7 >. - .< 1 >'<6 ; . ?'V6f 5 '11 - . 6,4- .<7
=4 5 <V " ?'6 '66.0 >. ; . - '4@ > . ?,65. ?,41 5.6 ; ,<>4 1.%
?'1' 7 =4. 5. / '1J1' - . 6 .67 '06.<7> <47 5. / .<7 > .
#'15614: .8 ?,41 6. >>0'11'66.1 > . ; .6 0,7.6 < ?,154<6%
46=4 ; < < ' - ' 5 -4 '11 - .1 =4. >.6 <,05.68 / ' 6 ' ; ʃ
74;55. / .<7 5 '11 - . > .6 0'<> .6 > . ; ;5>6 '67 =4.6 > . 7,47.6
5.6 ; ,45.416f 56 6,<7 > .J4 6>6 > '<6 7,47.6 6,17.6 > : '0 55; ʃ
/ .<76% ,47 .67 1. / ?5 > . ; .6. ; ;5>6 '67 =4.68 > .?4 6 E.<
0,41J046=4 " '< : . / f 5. 1.<> .0 - ,46 7 .6 #'?4; <6 .67
.7.1655 '58 ??.< '< .7 0.1 1; :8 .<>1, 56 > .?.<>'<56
> . .- . ; :> > . 71'60,41J% + " ?54?'17 > . ; .6 1>E4J >6
E1'< ' 6 ; / / .<; .<5 ' - , 1 ' 1 / 6.1'05.f .416 E, >6
6 >?4 6.<78 .7 ?.16,<<. < . - .47 ?546 5.41 E' 1. .1>> 71 0.'4
; ,4? > .<71. .4@ 1.5,41<.1' .<5 - ,5,<5 .16 > '<6 5.41 ? ' ʃ
1 ;8 6 > 4< ; ,5> 56 < >7' .<7 1.5.<46 ?'1 4<. E' 66;
: ,<7.8 .7 > . '4 1. ?'1 5" ;1' <7. > >51. / '5 1. 46 ; : .0
.4@f ,< >;6 1.1' 7 0.'4; ,4? =4 56 ?1 66.<7 ; . ?'17 8 ,4
=4 56 6 > , J<'66.<7 > . ; .6 ; ,7.6%

K %

ʃ ʃ U ʃ + .6 > '56 > . K1'0'<78
=4 ,<7 >7> '66. / 05>6 > .1< >1. / .<7 ?,41 ?1.<>1. 4<. 1> ʃ
6,545 .< >>E < 7 - . 7,4;5 '<7 5.6 ; <= ; ,<6. 55.16 .@;546 >4
; ,<6. 5 > . K1'0'<78 >, - .<7 6. 1'66.< 05.1 5. * ?,41 ;
/E / . ,00.7% 56 ?.16 67.<7 >'<6 5.41 ?1. / >1. > . / '<>;8
=4. 5.6>56 ; ,<6. 55.16 6, .<7 1> <7.J1>6% < '77.<> '- . ;
4<. / ?'7 .< ; . ;14.55. 5. 1>6457'7 > . ; .77. 'EE' 1.% 41 ; .6
.471.E' 5.68 5 V " 7,40,416 4<. E.1 / .45'7 ,< 6,41> . > '<6
?546 .416 .<>1, 76 >4 ?'V6f 5 641- .<7 > . 7. / ?6 U '471.
&5.6 E @.6 .<71. 5.6 1,V'5 67.68 5.6 - ,< 67.6 .7 5.6 - '<>.1 ʃ
<, ,7 67.6% + < .67 '55. > .1< >1. / .<7 ?,41 '11.7.1 '< ʃ
>.1 . .16 U .<<8 / ' 6 5 " > > / '<=4>f . .678 > 7 ,<8
?,41 '- , 1 ?1 6 >4 6.1- ; . .< H1'<; . =4 ,< " - ,454 5.6' ʃ
6 1% + '111 - . ; . > .6 71,4?.6 > 55. / 'J<.8 / ' 66.45.
/ .<7 ?,41 1. / ?5 ; .1 5.6 B,<J1, 68 =4 < . ?.4- .<5 E' 1.
>'<6 ; . ?'V6 > .6 1. ;14.6 ?,41 .416 ; ,1?68 .5 =4 .< ,471.
?1.<<.<7 0.'4; ,4? > . >>J,37 8 6. - ,V'<7 > , J<>6 > . 5.41
?'71 .% + % > . / ,< - .<<.<7 > >51. '11>7>6 7 >J.
; / / . 646? . ;76% + 5 .67 '11 -> ; '4@ > / J1>6 E1'< ; 6
0.'4; ,4? > . 1.<E,178 ; / / . > .6 K1.7,<68 4- .1J<'768
/ ,46 <68 =4 J1,66 666.<7 5. ; ,1?6 > .6 - ,5,<7' 1.6 1,V'4@%
#.6 > / J1>6 < . ?'1' 66.<5 ?'6 ; .<7.<76 .< J><>1'5f 7,46
5.6 / , 6 56 >, - .<7 1.<7 .1 .< H1'<; .8 .5 U 5" E< 56 6 .<
<4 ;<5 > '77.<>1. 6 <<J5. / ?6% 56 ,<7 ; ; .1;0> U E' 1. > .M
?4 6 ?.4 4< <,4- .5 . / ?14<7 .< B,55'<> .8 / ' 66'<6 6 ; ;>6%
56 ,<7 E' 7 ; 5" / . / . 7.<7'7 - .8 7,40,416 <47 5. / .<7f
56 < . > . / '< > .<7 =4. C 8 E5,1 <6%
g< 3 C) + " V " ?1 6 > ; ?546 >
6.?7 ; .<76 ,E5 ; .16 =4 >, - .?7 6 '66. / 05.1 5. G > . 6.?M
7. / 01.%
< >, 7 E' 1. >'<6 .0'=4. '11,<> 66. / .<7 4<. 5 65. 641
5'=4.55. ,< <6#1 1'8 ?'1 1'<J > '<; .<' .7>8 5.6 <, / 6 > .6
J.<5 56: , / / .68 5.41 6.1- ; .8 5.41 UJ. .5 5.41 J1'>.8 .<
?5'J'<7 U 5" =4.4. ; . @ =4 < ,<7 ?'6 6.1- % < / .771"
.<64 7. 641 4<. 6. ; .<> 5 67. ; .4@ =4 - .45.<7 6.1- 1 U
: ; .- '58 .7 641 4<. 71, 6 / . ; .4@ =4 - .45.<7 6.1- 1 U ? . >%
.6 ; , / / '<>'<76 .5 ,E5 ; .16 > . ; : '=4. ; , / ?'J< . 6.1,<7
?1 6 U 5" >5. > . ; .6 5 67.6% .6 J.<7 56: , / / .6 > 4<. / / .
?1, - .< ; . 6.1,<7 E 01.6 > . E,1 / .1 > .6 .< / ?'J< .6 ?'15 ;4
5 1.6% .6 J'1> .6 >4 ; ,1?6 >4G; .7 ; .4@ > .6 ?1 <; .66,<7
U #,05.<708 .6 ,E5 ; .16 J < 1'4@ 6,<7 <, / / 6 ?'1 5.6
?1 <; .6f >.4@ ; / ?'J< .6 E,1 / .1,<7 4< . > - 6 ,<8 .7 ; : 'M
=4. ; / ?'J< .6.1" > =4'71. 6. ;7 ,<6 E,1 / '<7 ; <=4'<7; ʃ
=4' 1. 5 / / .68 ; / ?1 6 4< ; '? 7' <.8 4< 5 .47.<'<7 .7
=4'71. ; : .E6 > . 6. ;7 ,<6%

H # %
@
@ ʃ ʃ & ʃ ʃ ʃ ʃ A
ʃ ʃ ʃ (* %
. ; ,1?6 / 4< ; ?'58 <E,1 / > =4 5 6 .67 1>?' >4 >.6

HG

nquiétudes sur la qualité de quelques parties de farines vendues sur le carreau de la halle, déclare que, parmi les farines qui sont restées des approvisionnements que le gouvernement avait procurés à la ville, en 1789 et 1790, plusieurs ayant été reconnues viciées, la municipalité s'est empressée de les séquestrer; qu'il n'en a été présenté aucune sur le carreau de la halle, et que l'administration se propose de les réunir toutes dans un même magasin fermé et scellé. Le corps municipal déclare, en outre, qu'il a été tenu sur le carreau de la halle d'autres farines provenant des mêmes approvisionnements; que ces farines, de qualité inférieure, et vendues 26 et 28 livres, étaient destinées aux boulangers, pour leur donner la facilité, en les mêlant avec des farines de qualité supérieure, de procurer une modération dans le prix du pain. Cependant il suffit que les citoyens aient pu concevoir quelques inquiétudes sur ces dernières farines pour que le corps municipal se fasse un devoir d'en interdire le débit. En conséquence, le premier substitut-adjoint du procureur de la commune entendu, le corps municipal arrête que ces farines seront retirées du carreau de la halle, jusqu'à ce que des expériences authentiques aient assuré leur qualité, et tranquillisé les citoyens. Le corps municipal ordonne que le présent arrêté sera imprimé et affiché.

Signé Bailly, *maire;* Royer, *secrétaire-greffier-adjoint.*

Vente de domaines nationaux.

Il a été vendu, les 30, 31 août, 1er, 2 et 3 septembre de cette année, pour la somme de 787,400 liv. de domaines nationaux, consistant en quinze maisons et dépendances, situées dans l'intérieur de Paris; les estimations avaient été portées à 528,980 liv.

Lettre d'un soldat. — D'Arras, le 2 septembre.

« Je vous avais marqué dans ma dernière lettre que notre patriotisme allait triomphant. Mais je vais vous apprendre avec douleur que cela n'est plus de même.

« Il est sûr que les aristocrates ont fait jouer leurs ressorts auprès du ministre : ils nous ont peints à lui avec des couleurs noires. Un de nos capitaines a été député auprès du comité militaire de l'Assemblée nationale. Cet officier nous a représentés là comme des hommes mutins et incapables de servir la nation. M. le député Charles Lameth a dit à l'Assemblée qu'il y avait parmi nous trois cents brigands prêts à incendier la ville d'Arras; que nous avions soulevé le régiment de Bourbon et les cuirassiers, et que nos officiers n'osaient pas entrer dans les chambres, etc. Voilà bien des mensonges et de la malice. Notre crime aux yeux de ces gens-là, notre seul crime, a été le refus que nous avons fait de quitter le ruban aux trois couleurs, marque d'insubordination formelle, disaient-ils, à la discipline militaire. Ce n'est pas tout; on n'a pas eu honte d'avancer que nous avions refusé une garde au général Rochambeau à Landrecies : on nous a encore accusés d'autres horreurs, comme de piller des maisons sur notre chemin, comme d'avoir vendu des fusils, etc. Quant aux fusils, il y en a eu deux seuls d'égarés pendant une si longue route.... Jugez dans quelle consternation nous sommes! Nous voir détenus depuis un mois à la citadelle, sans faire de service! On traite comme des méchants des soldats qui se sont toujours montrés amis de la révolution et dignes de défendre la patrie.... Toutes les municipalités par où nous avons passé nous ont envoyé des certificats de bonne conduite; nous les avons fait passer à l'Assemblée nationale, ainsi qu'un démenti formel de la ville d'Arras aux inculpations faites par M. Charles Lameth.

« Au moment où je vous écris, notre corps d'officiers vient de se dissoudre ; ils sont tous partis, à l'exception d'un seul, à qui les autres ont remis le compte du bataillon et notre drapeau.... Le général Rochambeau a demandé une cour martiale pour nous faire juger. Eh! c'est ce que nous désirons, c'est ce que nous demandions à l'Assemblée nationale dans notre Adresse.

«...... Je demande quelle est la triste situation d'une armée qui, aux yeux de presque tous ses officiers, est entachée de patriotisme, et qui pourtant ne veut point cesser de préférer la patrie à toute chose. Nous avons pourtant quitté le ruban aux trois couleurs, afin de montrer qu'il ne fallait en rien troubler la tranquillité publique. La municipalité d'Arras et les citoyens de la ville nous en ont su gré; ce qui prouve qu'ils ne nous en croient pas moins bons citoyens pour cela.

« J'ai appris hier à notre club, par un député qui venait de Paris, et qui a parlé en pleine assemblée, qu'on nous regardait, à Paris, comme des scélérats, et que l'on devait envoyer des gardes nationales pour faire cesser les troubles de la ville d'Arras.... J'ai pensé que cet homme-là était un émissaire de gens bien coupables. Il a rempli sa mission; car il fait beaucoup de peine à tous les soldats. »

SUITE DE LA NOMINATION DES DÉPUTÉS A LA PREMIÈRE LÉGISLATURE.

Département de Paris.

Du 7. — MM. Gouvion, major général de la garde nationale parisienne; Broussonnet, secrétaire de la Société d'Agriculture.

Département de Rhône-et-Loire.

MM. Michon; Desmarais; Lamourette, évêque de Lyon; Dupuy, de Montbrison; Colomb Gast-Thevenet, de Mornand.

Département de l'Ain.

MM. Rubat, Reignier, Deydier, Riboud, Jagol, Girod. *Suppléants :* MM. Vaulpré, Bochard.

Département du Jura.

MM. Champion, curé; Croichet, Charles Dalloz, Morivaux, Clermont, Perrin, Willier.

Département d'Indre-et-Loire.

Suppléants : MM. Dupont, maire de Pérusson; Ruelle, président du tribunal de Bourgueil; Champigny-Aubin, administrateur du département.

Les deux hauts jurés : MM. Nioche, homme de loi; Payen Bois-Neuf, propriétaire; tous les deux membres actuels de l'Assemblée nationale.

Département des Ardennes.

Suppléants : MM. Louis-Georges Derousseaux, manufacturier à Sedan; Remacle-Lissoir, curé de Charleville; Toupet, colonel de la garde nationale de Givet.

VARIÉTÉS.

De Paris, le 7 septembre.

Tous les professeurs, tous les maîtres, tous les instituteurs publics voyaient avec inquiétude s'approcher le moment où, dans l'état de désorganisation qui affecte toutes les parties de l'enseignement, ils auraient à reprendre le cours de leurs travaux avant que l'Assemblée nationale eût décrété les bases d'une instruction meilleure et plus sagement organisée. Nous nous empressons d'annoncer que le rapport si désiré de M. Talleyrand-Périgord, sur l'instruction publique et sur l'éducation en général, est ajourné à samedi prochain.

AVIS.

Plusieurs personnes qui m'écrivent croient devoir ajouter à mon nom la désignation de *maître-d'hôtel ordinaire de Monsieur.* J'ai l'honneur de les prévenir que cette qualification ne m'appartient plus, ayant donné, il y a plusieurs mois, ma démission de cet emploi.

Boissy-d'Anglas, *député à l'Assemblée nationale.*

— M. Antoine Dubois, maître en chirurgie, docteur en médecine, professeur à l'Ecole pratique de chirurgie, etc., commencera un cours théorique et pratique d'accouchements, lundi 12 septembre 1791, à sept heures du soir. Il le continuera les lundis, mardis, jeudis et vendredis, à la même heure, en son amphithéâtre, rue des Trois-Portes, place Maubert.

ARTS.

GRAVURE.

M. Jabin, seul éditeur de la collection générale des por-

traits de tous les représentants de la nation, continue avec la plus grande rapidité ce précieux ouvrage. Il vient de mettre au jour la livraison 39e et suivantes jusqu'à la 47e. Nous détaillerons dans le prochain numéro les portraits qui y sont contenus.

Chaque livraison de huit portraits coûte 4 liv.; chaque gravure séparée des mêmes portraits se vend 20 sous.

Chaque volume de trois cents gravures, outre un frontispice et une liste imprimée, le tout relié en maroquin, 130 l.; en veau, 110 liv.

BULLETIN
DE L'ASSEMBLÉE NATIONALE.
Présidence de M. Vernier.

SÉANCE EXTRAORDINAIRE DU LUNDI AU SOIR.

Un de MM. les secrétaires fait lecture d'une Adresse des gardes nationales de la ville de Tournay, département de l'Ardèche, qui se plaignent de n'avoir pas été appelés à la défense des frontières.

L'Assemblée ordonne le renvoi de l'Adresse au comité militaire.

— Une députation de l'assemblée générale de la commune de Nantes est admise à la barre : elle fait part d'une difficulté survenue dans l'assemblée électorale du département de la Loire-Inférieure. — Un membre, comparant le nombre des quatre-vingt-dix électeurs que la ville de Nantes présentait, avec celui de cinquante-six qu'elle avait envoyés à la précédente assemblée, demanda que le nombre de quatre-vingt-dix fût réduit à cinquante-six. Les électeurs de la campagne accueillirent cette proposition. En vain les électeurs de la ville de Nantes tentèrent-ils de justifier leur nomination; ils ne purent obtenir la parole. Ils présentèrent le tableau des citoyens actifs, montant à onze mille six cent trente-six; l'assemblée électorale prononça par acclamation qu'il n'y avait lieu à délibérer; les électeurs de Nantes protestèrent de nullité contre ses opérations.

La députation supplie l'Assemblée nationale de rappeler l'assemblée électorale à l'observance des lois, et demande qu'elle soit tenue de se reconstituer en admettant les quatre-vingt-dix électeurs de la ville de Nantes.

La pétition des électeurs de Nantes est renvoyée au comité de constitution.

— Une députation d'artistes est admise à la barre.

L'orateur de la députation : Les artistes ont employé leurs veilles à célébrer les victoires de la liberté. Vous êtes à la fin de vos grands travaux, et cette époque est celle qu'ils choisissent pour vous offrir le modèle d'un monument qui doit en perpétuer la mémoire avec ses grands caractères. C'est au milieu du Champ de la Fédération que nous vous proposons d'élever une colonne où toutes les conquêtes de la liberté seront gravées. Vous en avez sous les yeux le modèle; daignez l'accueillir.

M. LE PRÉSIDENT : Jeunes artistes, vous rappelez les arts à leur antique destination en consacrant vos premiers travaux à la gloire des monuments publics. Celui dont vous présentez le plan à l'Assemblée est digne de toute son attention. Les arts semblent rivaliser entre eux, mais pour se prêter un mutuel éclat. Un tel monument serait bien propre à perpétuer d'âge en âge et la gloire de la nation et les époques de la liberté. L'Assemblée nationale vous permet d'assister à sa séance.

— M. Varin présente, au nom du comité des rapports, le projet de décret suivant :

« L'Assemblée nationale, après avoir entendu son comité des rapports, déclare qu'elle est satisfaite de la garde nationale de Clermont, et en particulier de MM. Carré et Béon; reçoit l'abandon que ces derniers font à la nation de la somme de 12,000 liv., qui leur avait été accordée par le décret du...., et néanmoins décrète que ladite somme sera comptée à la municipalité de la ville de Clermont, pour, sous l'inspection du directoire du département, être employée à l'acquisition d'un emplacement pour loger le directoire de district, et le surplus aux travaux de charité. »

L'Assemblée adopte le projet du comité.

UN DE MM. LES SECRÉTAIRES : Parmi les Adresses qui m'ont été remises, j'en ai vu une de la garde nationale de Moulinville, qui renonce également à la récompense de l'Assemblée nationale. (On applaudit.)

— MM. Desmoulins et Santerre, membres de l'assemblée électorale du département de Paris, sont admis à la barre.

M. Santerre porte la parole : On a agité hier, dans le corps électoral, la question de savoir si les membres en état d'ajournement pouvaient assister à ses délibérations.

Après une assez longue discussion, le président a mis aux voix la question en ces termes : « Que ceux qui veulent que la loi soit exécutée se lèvent. » Tout le monde s'est levé; mais nous ne sommes pas plus avancés qu'auparavant; car, nous aussi, nous demandons l'exécution de la loi, et la question reste entière : mais les huissiers de l'assemblée ont pensé différemment; car, par la crainte que nous ne donnassions notre voix, ils se sont opposés à notre entrée dans les bureaux. Nous venons vous consulter sur la question de fait. — Existe-t-il une loi qui nous suspende de nos fonctions? Existons-nous ou n'existons-nous pas?

M. LE PRÉSIDENT : L'Assemblée nationale prendra votre demande en considération.

MM. Desmoulins et Santerre se retirent.

M. PÉTION : Qu'est-ce qu'un décret qui dépouille provisoirement un homme de ses fonctions, lorsqu'il n'existe encore rien dans la procédure qui exige qu'on s'assure de sa personne? Avec un pareil décret lancé contre un électeur, il s'ensuivra qu'une section du peuple ne sera pas représentée; et ainsi vous punissez les mandataires, car un électeur n'exerce pas ses droits, mais les droits des autres. L'ajournement personnel ne peut pas faire naître une question : il ne peut pas dépouiller un citoyen de ses droits politiques. Je demande donc que l'Assemblée prononce nettement que les décrets d'ajournement personnel qui ont été rendus ne peuvent pas priver les citoyens de leurs droits politiques, ni par conséquent du droit de voter dans les assemblées électorales.

M. DANDRÉ : Il y a un décret constitutionnel qui porte que ceux qui sont en état d'accusation ne seront point admis aux assemblées primaires; s'ils ne sont pas admis aux assemblées primaires, à plus forte raison ne peuvent-ils pas être admis aux assemblées électorales; c'est une conséquence nécessaire et qu'on ne peut pas nier. Ce point-là une fois convenu, il ne doit plus rester de difficultés entre nous. Vous soutenez que le décret d'ajournement personnel ne constitue pas un homme en état d'accusation; en cela vous êtes, vous, M. l'opinant, et tous ceux qui vous appuient, ou d'une ignorance profonde, ou d'une insigne mauvaise foi. (Quelques membres applaudissent.) Vous avez trop d'esprit pour ne pas savoir cela. D'après les raisonnements mêmes des pétitionnaires...

M. PÉTION : Ils ne valent rien.

M. DANDRÉ : Ah! ils ne valent rien! si vous aviez fait la requête elle serait meilleure. (On rit.) L'Assemblée nationale ayant textuellement décrété que les anciennes lois subsisteraient, le décret d'ajournement en personne les exclut des assemblées primaires. Vous avez décrété constitutionnellement que les assemblées électorales seraient juges des pouvoirs et de la capacité des personnes qu'elles doivent admettre dans leur sein; vous avez décrété de plus que, s'il s'élevait des contestations sur l'état des per-

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naître les évocations et attributions qui pourront être déterminées par les lois.

Et s'il était possible que le corps législatif ne fût pas d'accord avec la nation dans certaines conjonctures que toute la prudence humaine ne saurait éviter ni prévoir, à qui persuadera-t-on que deux tribunaux isolés, dont les fonctions sont restreintes aux seuls objets dont la législation leur a donné l'attribution spéciale, franchiraient tout-à-coup les limites circonscrites de l'espèce d'autorité qui leur est commise, pour usurper la plénitude du pouvoir?

L'érection d'un tribunal destiné à juger tout le contentieux de la comptabilité admet encore une sorte de hiérarchie que l'on trouve dans la gradation successive des tribunaux.

Il manquait un semblable couronnement à l'ordre administratif. Elle avait fort sagement institué des municipalités, des administrations de districts et de départements; mais il fallait un bureau de comptabilité pour l'examen des comptes publics; mais il faut y ajouter encore un tribunal destiné à juger le contentieux des comptes de l'administration des finances de l'Etat, et, par une suite nécessaire, la responsabilité civile des ministres, des ordonnateurs et de tous autres agents principaux du pouvoir exécutif; tribunal qui, comme celui de cassation, sera sous la surveillance immédiate de l'Assemblée nationale. C'est ainsi que toutes les parties du corps politique seront liées pour former un ensemble dont la réunion servira de plus en plus à consolider les ressorts de la grande machine du gouvernement.

Pour me résumer en deux mots sur le plan que j'ai l'honneur de présenter à l'Assemblée nationale, je dis que, dans la nécessité d'établir un nouvel ordre de comptabilité, soit pour la reddition des comptes arriérés, soit pour celle des comptes à venir, elle ne peut rien faire de mieux que d'ériger un bureau de commissaires-vérificateurs chargés d'en faire l'examen sur leur responsabilité, de les discuter, de les débattre, de les approfondir, et d'en faire ensuite le rapport à un des comités du corps législatif, qui les lui présentera pour statuer enfin sur leur apurement définitif;

Que l'Assemblée nationale ne peut se retenir pour elle-même l'examen et la vérification de ces mêmes comptes, parce que, suivant les lois constitutionnelles qu'elle a posées, elle s'est interdit le droit et la faculté de cumuler les pouvoirs, et parce qu'il n'y aurait, en ce cas, aucune responsabilité, et conséquemment aucune garantie pour la nation, relativement aux infidélités des comptables, leurs omissions, erreurs ou faux emplois;

Qu'il ne serait ni plus prudent, ni plus sage d'asseoir toute la comptabilité sur la tête d'un seul homme, parce que sa responsabilité prétendue ne serait, dans le fait, qu'une illusion et une chimère, et parce que ce serait remettre en quelque façon le sort de la fortune publique à la discrétion d'un certain nombre d'agents subalternes, dont rien ne serait capable de garantir la probité, les lumières et l'exac-

Que le titre de leur espèce d'existence politique ne pourrait leur concilier la confiance publique, qui doit être la première base sur laquelle doit reposer tout établissement;

Que la matière des comptes d'un Etat aussi vaste que la France, tenant, par la nature même des choses, à des objets contentieux, il est indispensablement nécessaire de créer un tribunal pour les juger; que ce tribunal doit être unique; qu'il doit être établi près du bureau de comptabilité, en raison de l'intimité de ses relations et de ses rapports avec lui, soit pour la facilité de l'instrution des procès, soit pour l'avantage réciproque de la nation et des comptables;

Que ce tribunal, à raison de l'immensité des objets contentieux, et à cause de l'importance de son attribution, doit être composé de quarante et un membres, à choisir dans les départements qui n'ont pas été en tour pour nommer au tribunal de cassation;

Qu'il doit être enfin divisé en deux sections, pour la plus prompte expédition des affaires, et pour parvenir plus tôt à leur apurement.

M. Cochard lit un projet de décret dont l'Assemblée ordonne l'ajournement.

— Sur la lecture d'une lettre de M. Delessart, l'Assemblée proroge de huit jours l'époque fixée par son décret du... pour l'ouverture du salon d'exposition des tableaux.

— Un de MM. les secrétaires fait lecture de plusieurs lettres relatives aux affaires des colonies, ajournées à la séance d'aujourd'hui. Elles sont ainsi conçues:

Lettre au nom des marins de la ville du Havre.

« Appelés par la nation pour lui donner une constitution susceptible d'assurer sa liberté et son bonheur sur des bases inébranlables, vos soins et vos travaux ont été dirigés sur le commerce et l'industrie, objets des désirs de tous les Français; mais pendant que vous travailliez à nous rendre libres et heureux, les ennemis de la prospérité publique n'ont cessé de troubler vos vues bienfaisantes. C'est sans doute à leurs manœuvres que nous devons attribuer le décret prononcé le 15 mai relativement à l'état des gens de couleur dans nos colonies. En voulant donner aux hommes de cette classe un état, une influence qu'ils n'avaient pas, vous les avez livrés à la haine et à la vengeance des blancs, qu'ils ont provoquées par leurs prétentions exagérées. Si la philosophie avouait vos principes, la politique les repoussait, et l'humanité même s'accordait avec la politique. La France et ses colonies ont applaudi au décret du 8 mars 1790; mais les prétendus amis des mulâtres ont profité d'une prétendue ambiguïté pour leur mettre les armes à la main. Des échafauds ont été dressés, et le nombre des victimes vous est connu. Pouviez-vous croire que votre décret du 15 mai serait accueilli, serait applaudi? N'avez-vous pas prévu au contraire qu'il serait un arrêt de proscription contre ceux qu'il favorise? Vous voulez donner aux mulâtres un état politique, et vous leur arrachez la vie. Vous avez voulu augmenter le nombre des citoyens dans les colonies; et vous serez cause qu'elles abjureront la métropole. Vous serez les auteurs de cette scission malheureuse qui, en divisant l'empire dont on vous avait confié les destins, le livrera à toutes les horreurs de la misère et de la guerre civile. Vous avez éteint la confiance qu'on doit avoir dans les décrets du corps législatif, quand, après avoir promis par votre décret du 12 octobre qu'il ne serait statué sur l'état des personnes que d'après l'aveu des colons, vous leur avez enlevé par celui du 15 mai l'initiative que celui du 12 octobre leur avait accordée. Distraits, entraînés par les idées métaphysiques, vous avez oublié que l'activité de l'industrie dépendait de l'action du commerce dont les colonies sont le principal mobile.

« Il est peut être encore temps de conjurer l'orage qui nous menace: révoquez le décret qui vous a été surpris. Que la maladroite philanthropie des amis des noirs n'influe plus sur vos délibérations; que les croassements de l'avide C***, du mercenaire B***, de l'abominable G***, et de leur secte ennemie de la prospérité française, n'attirent plus votre attention. Que les leçons et les lumières de l'expérience vous guident; et si vous daignez consulter quelqu'un, que votre choix tombe sur ceux dont les connaissances locales peuvent être utiles, et la France est sauvée. Considérez combien il est plus important de conserver à l'empire la considération et la consistance politique que son étendue, sa population et de bonnes lois peuvent lui assurer, que de fronder un préjugé que le temps seul peut détruire. La franchise dont nous faisons profession, l'amour que nous avons pour notre patrie nous font un devoir de vous exprimer librement nos sentiments. »

Adresse du commerce de Rennes à l'Assemblée nationale.

(Elle est conçue dans le même esprit que la précédente.)

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/ .<7>. 7<.1 =4. 6.?7.<71 ,<'5.8 &? . > ' 55.416
- ,46 1.7'1>.O .< ; ,<6.1-'<7 - ,6 ; ,5,< .6% =4. - ,46
?1.66.1 .O < < / .<76 5.6 ; ,5,<6 ?'66' .<7>'<6 5.416
/ ' <6 .< 7,47 ,4 .< ?'17 .I 5 .67 >,<. E'4@ >. > 1.
=4. 1'J1'<75 66.<5.<7 E47 1 >. / .1 =4. 6.?7.<M
71 ,<'5. 6, 7 4<. 1' 6,< >. 1.<>1. <,6 ; ,5,< .6 ?.4
/ ?,17'<7.6 ?,41 <,46I ;'1 5. -1' .67 =4. 7,47. 5''
=4.67 ,< .67>. 5.6 ; ,<6.1- .1 6,46 5.6 5,76 E1'<=' 6.6
Q46= '4 / , / .<7 >5, J<. , 8 ?'1 5'' <'741. >.6 40,
6.68 .55.6 ?,411' .<7 6. 1>4< 1 '' / >1 =4. 6.?7.<M
71 ,<'5.8 .7 ,4 <,46 / . / .6 <,46 <,46 71,4- .1 ,<68
?'1 5.6 ?1,J1.6 >. <,71. <>4671 . .7 5.6 : .41.4@ .E
N.76 >. <,71. J ,4- .1<. / .<58 .< >7'7 >. <,46 .<
?'66.1%

' 68 ; , / / . Q. - ,46 ' '<<,<.>8 - ,46 <. ?'1
- .<>1.O '' ; . 1.6457'7 =4. ?'1 5. ?,4- , 1 =4. - ,46
'- .O 6.456 >. 1.<>1. 5, 6 / / 4'O5.6% #'1 - ,46
'- .OE5< 7,47; . =4 .67 >. 5'' ; ,<67 747 ,< 1,V'4
< .8 / ' 6 - ,46 '- .O> 7=4.<,6 ; ,5,< .6 <V.<71' .<7
?,41 1 .<8 .7 - ,46 '- .O .<; ,1. 5. ?,4- , 1 >. 1.<>1.
>;4@>. ;1.76 . ,<67 747 ,<<.56 ?,41 5.6 #,5,< .6 6.4
% ; / .<7%

8 > 6 Q.8 - ,46 < 46.O ?'6 >. ; . ?,4- , 1 5'' ?,<1
E @.1 > 4<. <'< 1. <- '1 'O5. <7 1 7 <'7 ,<'5 .7
; , / / .1; '5 > 4<. ?'178 .75 <7>1 7 ; ,5,< '5 >. '4
71.8 Q. - ,46 > 6 =4. 5'' = ;1.55.8 =4 .67 '' ?1 %<7
?,41 5.6 : , / <.6 >. ; ,45.418 .:' ,J.1'' O .<7 7>.
E';.8 >.- .<>1'' 4<. = .1,55. >. ; , / ?.7.<;. 641 5.6
5, 6 >. ; , / / .1; .I .7 =4 .8 ?'1 5'' 1.4< ,< >. 7,47#6
5.6 ; ,5,< .68 ?'1 'EE' O5 66. / .<7 / , / .<7'<.>. <,6
/ ,V.<6 >. E,1; .8 - ,46 < 1.O ?'1 5.6 ?.1>1. .< 7,47
,4 .< ?'17 .8 &,1 / .55. / .<7 ,4 ; , / / .1; '5. / .<78 ; .
=4 .67 'O6,54 / .<75'' / X / . ; : ,6.% . >. / '<>. >,<.
=4 .8 >,<<'<7 '' ; .77. =4.67 ,< 7,47. / ?,17'<; .
=4 .55. '' 8 - ,46 <. 5'' >. ; > .O =< '- . ; 5.6 ; ,<<' 6
6'<; .6 <>. .66' 1.68 / ' 6 =4. - ,46 5'' >>; > .O '- '<7
>. - ,46 6>?'1.1% . >. / '<>. =4 ,< 'Q,4177. '' > @
Q,4168 '77.<>4 =4.8 >'<6 <7.1- '55.8 5'11 - .1''
-1' 6. / O5'O5. / .<7>.6 <,<- .55.6>. ; ,5,< .68 .7=4.
% 5. ?1.6 >.<7 , 7 ; : '1J> > ;1 1. '' 7,47.6 5.6 - 55.6
>. ; , / / .1; . > '' 1,V'4 / . ?,41 '' - , 1 5.41 '' - 6% & <
'??5' > 7%P

546 .416 / . / O1.6 6 >5 - .<7 ; ,<71. 5'' 6; ; ,<>.
?'17 . >. 5'' ?1,?,6 7 ,< >. % K'1<'- I8
66. / O5. . >. .1E.7. ?41. / .<7 .7 6 / ?5. / .<7 E'
Q,41<. / .<7 >4 1'??,17 '' > @Q,416%
% N % 5. / / 671. >. 5'' Q467 ; . >.G
/ ' >. 5'' ?'1,5.%
% - A % 5. ?1.6 >.<78 Q. < 'O4
6;1' ?'6 5,<J7.% <?6 >.6 / , / .<76 >. 66. / O5. .% .
<. - .<6 ?, <7?,41 E' 1. 4< 1'??,17 ; , / ?5.7 641 >
7'7 ';74.5 >. 5'' - 55. > - J<,<% % 5.6 ; , / / 6
6' 1.6 / .> '7.416 < ,<7 ?'6 .<; ,1. .<7Q.1. / .<7 1. /
?5 5.41 / 66 ,<N 4< > .<71. .4@.67 .<; ,1. '' - J<,< I
: ' 6 1.7'7 >. ; .77. - 55. .67 7.55. / .<7 >.?5,1'O5.8
7.<. / .<7 / '5: .41.4@8 =4 5 .67 / ?,17'<7 > V '?
?,17.1 5. ?546 ?1, / ?7 1. / .>.% <. ?'17 . >. ; .4@
& 4 , a ;'46. 5.6 ?1. / .16 71,4O5.68> - J<,<8 >,<7
' / O 7 ,< '' >7> ; ; '6 ,< >. 7,46 5.6 71,4O5.6 8 ,<5
?1,5 7 > 4< / , / .<7 , : 5'8E,1; . ?4O5 =4.%.7' 7 E'
O5.8 ?,41 >,<<.1 5 .4 '' 4<. : ,4- .55. <6411. ;7 ,<_
f56 6. 6,<7; <?'1>6 >4 ?'5' 68 56 ,<7 / 6 .< ?1 6,<
4<. ?'17 . >.6 ,57 ; .16 / 4< ; ?'4@8 .7 '11>7. '1O
71' 1. / .<7 4< J1'<> 4,1'O1.%8>. ; 7,V.<68 6,46 5.6
V.4@ / >1'.6 >.6 ; , / / 66' 1.6 .<- ,V.6 ?'15. 1, .7
>. .1>7.6 ?'1 66. / O5>. <'7 ,<'5.% '' / 'Q.67> >. 5''
<'7 ,< '' >7. - ,5>.I >7'7?, 7>1 .41 >. ; .77. - 55. ''
>7> 7.58 =4. >.4@ >. % 5.6 ; , / / 66' 1.6 ,<7 ;1=
>.- , 1 1.- .< 1 6'<6'77.<>1. 5.6 ,1>1.6>.5 66. / <
O >.I 56 ,<7 ;14 >.- , 1 6. 1.<>1. ; ?,41 1.<>1.

; , / ?7 .8 .7 '' 66. / O5>. <'7 ,<'5.8 .7 '4@ / 5< 651.6
>4 1, 8 >. .7'7 > - J ,<%
#.6 ; 1; ,<67'<; .6 <,46 ,<7 ?'14 7.55. / .<7 / ?,1
5'<7.6 =4.8 ?546 . 16 E, 68 <,46 <,46 6, / / .6 '66. /
O5>6 '- . ; 5.6 ; , / 7.6 > ?5, / '7 =4. .7 > - J<,<8 5.
; , / 7> / 5 7' 1. .7 5.6 >>?45'7 ,<6 >. >.?'17. / .<76
; 1; ,<- .<'<76 =4 ,<7 5. ?546 J1'<> <7>1>7 '' 5''
; : ,6.% # .67 >'<6 4<. >. ; .6 ; ,<E.;<; .6 =4 5 '' > .G8
'11>7> =4. Q. ?1,?,6.1' 6 66. / O5. . > .<Q, <>1. ''
6,< ; , / 7> > ?5, / '7 =4. >. 54 1.<>1. ; , / ?7.8 >'<6
5. ?546 ; ,417 >>5' ' ?,66 O5.8 >. 5'' 6 74'7 ,< > -
J<O<8 'E < = . 6 . / O5>. ?4 66. ?1.<>1. 4<. / .
641.>>E < 7E- .641 5'' 6 74'7 ,< >. ; . ?'V6 / '7: .4
1.4@8 =4 '77.<> >.6 6. . / 16 >. 5'' <'7 ,< E1'< ' 6;%
,O6.1- .1' .<; ,1. '' 1 66. / O5. . =4. 'EE' 1;
?.<7 >71. 1.J'1>>. '4Q,41> :4 ; , / / . >'<6 < >7'7
> <6714;7 ,< ; , / ?5.7.% 66. / O5>. - , 7 ; 1.4, 6
;6 / . / O1.6 >. '66. / O5. . >5. ;7,1'5. >. ; . ?'V68
>.4@ >.6 ; , / / 66' 1.6 / .> '7.416 =4 ,<7 .<71. 5.6%
/ ' <6 5'' ?546 J1'<>. ?'17 . >.6? . ; .6 'V 6,47 .< >.
; . =4 56 ,<7 E' 7% '<6 ; .7 >7'7 5 .67 71.6 ?,66 O5.
> '- , 1 4< 1'??,17 .@' ; 7N =4. 5.6 ; , / 7>6 .<7.<>.<7
7,47.6 5.6 ?'17 .6 ; ,<7. / '<7.68 / > / . ; .4@ =4 8
7,4Q,416 ,??,6>6 '' '66. / O5. . >5. ;7,1'5. .7 '' 5'' / 4
< ; ?'7 7>8,<7; ,<67' / / .<7. / 6 4< - , .4 ; ,<71' 1.
5'' 1.4< ,<8 .7 ,<7 ?,17> ?546 .416 ?c' <5.6 7'<5
; .<71. #.4@ =4 >, / O.<7 ';74.57. / .<7 =4. ; .<71.
% 5.6 ; , / / 66' 1.6I =4. 7,47 5. / ,<>. 6, 7 .75
7.<>48 / ' 6 = . ; . 6, 7 >'<65. ?546 ; ,417 >>5' %
% - # .77. 'EE' 1. .67 71, ? / ?,17'<7.
?,41 =4. 66. / O5. . <. >>6 1. ?'6 >.6 <6714;7 ,<6
/ < .> '7.6 .7> 1. ;7>6N Q. >. / '<>. =4. 5.6 ; , / / 6G
6' 1;6 6, .<7 '??.5.6 .7 .<7.<>46 641 5.6 / .641.6
=' 56 ,<7 ?4 .7 >E5 ?1.<>1. ?,41 ?1>- .< 1 5.6 71,4M
O5.6 'EE1.4@>,<7<,466, / / .6 ';74.55. / .<75> / ,Q<6N
6 56 < ,<7 ?'6 ?1 6 7,47.6 5.6 / .641.6 ; ,<- .<'O5.6
?,41 ?1>- .< 1 ; .6 71,4O5.68 56 .= 6, ,71.6?,<6'O5.6%
% ,4 ,OQ.7 =4. 6. ?1,?,6. 5. ?1. ,? ,'<7
6.1'' ?'1E' 7. / .<7 1. / ?5 5,16 >4 1'??,17 =4 6.1''
E' 7 ?'1 5.6 ; , / 7>61>4< 6I ;'186'<6 &5,47.8 ,< - , 6
1.<>1'' ; , / ?7. >.6 E' 56 7.56 =4 6 6. 6,<7 ?'66>6%
3 4'<7 5'' ; ,<>4 7. =4. % 5.6 ; , / / 66' 1.6 ,47
7.< .8 Q. .1, 6 =4. 1,< ; : .1; : . / '5 '' ?1,?,6 '' V
Q.7.1 >. 5'' >>E'- . 1% 5566. 6,<7 71.4- .6 >'<6 >.6 ; 1M
; ,<67'<; .6 71.6 ;1 7 =4.6 IG.7 '6641> / .<7 56 6 .<
6,<7 7 1>6 '- . ;'7,47 5. O>5.8 7,47. 5'' ?14>.<; . =4 ,<
>.- ' 7 '77.<>1. > .4@% ' 6 >'<6 N5. / , / .<7 ';74.5
5 .67 =4.67 ,< 4< =4. / .<7 >. 1.<- ,V.1 5.6 ? . ; .6
>,<7 % 5. J'1>. >4 6; .'4 6. 71<4- . ?,17.41 '4@
>.4@ ; , / 7>6 1>4< 68 .7 .< / > / . 7. / ?6 >. B@.7
4<>>5' 71>6 ; ,4178 ;'1 5.6 ; 1; ,<67'<; .6 6,<7 71.6
41J.< . 8 8 8
% A N .6 >.1< >1.6 5. 71.6 B.
% 45,78 5. 6. '5 >.6 ; , / / 66' 1.6 =4 6, 7 1# 5> ''
- J<,<8 ?1,4- .<7 41J.<; . .@71> / .> 4<. >. ; 6 ,<
>>:< 7 - . 641 ; .7 ,OQ.7%
66. / O5>. ,1>,=<. E'Q,< / . / .<7 ; . 1'??,17
'' 6' / .> %
'' 6. '<; . .67 5.- >. '' 71? 6 : .41.6%

'% 8 % %
F 8 >4< 765 7 .@ 1' 7 >4<# >1.66. >.6Q4J.6 >.?'77
>4 > 671 ;7>. ! :'7.'4 '5 <68 >.?'17. / .<5 >. 5'' .417 .8
=4 ; ,<6' ;1.<7 47 . ?,17 ,< >. 5.41 6'5' 1. .<71.7 .<
> 4< J'1>. <'7 ,<'5 '4@ E1,<7 >1.68 .7 >. >.4@ .<; '6 >.
J4.11.8 .71' / . ,5E1.<75.41 6.1- ; . .4?.1 [<<.'6 5. ?>1 5
>.- .<7 / / < . < 7 %
66. / O . . ,1>,<<. &E4 E6.1'' E' 74<. / .<7 ,< : ,< _
1??5. >. .75. >1.66. >'< 5;V, .>6%1.7O' + +

#K% 5 <<) BK #%

88 % ! ,66 = ' 7 . ;741; >.5 >1.)6.6< - ' 7.8>;1 5;
?'1 5.6 '> / 4 671'7.416>4 >>?'17. / .<7>.54 .46.%

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3 *'$-(.+*'5 (/ ' $'+' $,.('-% 3 . $"' 44.$ "4+.'$('- !
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' 44.$ ("4+. ('-(3.(,%-,# ' 3 "$((* 8 ('-$," 3,. $"
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+) $"'+*"5 %$'8'+$,'?$(!+'.3',$, ,$ '-(' +'4(.3(4,$ *'
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&F " ' !"

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8 ' ' , '$'.(*-,(''' % .9+*$'+$ *'3$0$('-(".)!
TT ' ' M+D $D $$"*(, (!!

&5.;<6 .7>.]''471.6 .EE ; .16]'<7.8?1.6.<7.'B 66.<-G
05..':'759< 7. ?'1' 1' E'7:5. !.1'4>8 >,; .41 1,J;<7 .7
?1,E.66.41'>.'5" H';457.'>.' .>.;/ .'.< 4< -.16 7.'>. ' '
1 6% 1@N ' k7V% U 6%8 ' '1 68 ;:.@ ' V1.8 5 ,
0V' 1.8 4I'>.' B'1?.8 B= .7 #1,4 .0,68 14.'>.6 +&
7c 4&N<'.''' $

KE%?7 .<<.'KE.Q.'<'- .<7>.' ?405 .1'4<''- '?'1' ;=<.5 5
';14''??'1./ /.'7Q.7.1'>.'5">.5'-.41'641' ,4-1'J.'=4'?'G
1' 5'6,46'5.%5 71.'>.'.(' ' ' - ' .7;%8 ;<
?1>-.<'<7>4.'>.7 ,4-1'J>'<.65'?'6';.545=4 5 " '<<, 1. 5
3' "?546 .416 /,6% <''77. >'<75' ;0 .;7,<'< ,<;..'?'1
"#' ;Q.'08 .<'77.<>:<7.:;,1>G=4 5 >>E.1/ <.'5.'<0/01.'
>.'-,54/.6=4'>, -.<;' 'E,1/>1R<,46 ,EE1,<6'4' ?405 ;'4<
,4-1'J.;,/?5.7.<=4'71.'-,54/.6I'.7'5.'5.;7.41'?.476.;,<'
-'<;1.=4G <Z. 7?'] 3'6.4'>6;,4168 4<.6.45.'?:1'6.8'<6.,5
/,7'?1,<,<.>6'?'1'Kc 1'cP.'48 7'<7 '<6'5.'6. < .6;, / /4<.6
=4' G 66./05..'<'70<'5.8 _04'<.6.'71, -.>'<6;.1.;4. 5I
.7 6' "#% . 0'< ' '7 .@'/ <.''-.;'?546> '77.<7 ,<.7 /, <6
>.'?1.-.<7 ,<6 5 6.'6.1'7 ;,<-'7<.4'>.';.7 '-.<7.% '641G
?5468 ,<'547?,17.'5.>.5 >0 ?1>4-.1'7.';,<71'1.% '55.416
<,46'-,<6>7.'Q'5,47>.<.>,<<.1'E'? 0 ;'= .'>.6>76;,416
=4'?,17.<7c.';';:.7E>.5.'>.';.7 ,1 7.41'; 7.0 ..7<,46
<.'?,4V ,<6 /' = 1.1 <,71.'047 .<'5.'64 -'<7?'6 'G?'6' '7"
,.$ *(' --$,(.'-('$#$.+G(+ '0: ' ') !

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.' (' ' " & .40% G ' '8 '(4A
> .7V1 =<.',',';7.6% +' E% ! '1>.51.?'1' E1'0'1'>.6<' '
'Q,47#6'4 G';7.% %%%%%%%%% F T d ' ' $E ,Q

* ' ' 7 <'V' [' '$ '
.JJ* B4 'G K ! ! ' d%R' %% % 1' 6% %%4% ;1%
)% $' 8', ' B A%%$_!% ')0 DD
- '% +' 40% 5' >Z'1.Q 1` .<7'5 ,< .'# ='
J ' '0'7 5') ' S %I 01#;,;> .7 .6 E '
T' ' 8 0% %
- '1 ' '. ('-(' $363L$('V' %A! +'C(% .(1
4.('(*,+,$ *' '!' & ' '3 #$('*, ,(L(/
4$ 3)- ('-(% &*##(('$#(%3 ., $$!(! ' %q

BE ' '5 ' '1 '3 !-(0+*'<(' *'$(.'
!M ##'< ' '-" '3 (-$((*' *'+3,(7 6 '8 '
#' Q<(:/ (,'<(' .(('KK %' %

'+,,(*-+*,' +'B_'.(4.('(*,+,$ *'-('8 9 ' $.*'#$ $/
3 [* -$(!/ 2*A+'Fm'-'G ' A '9('*'/ 4 .+!# . '
- ' ' ' ' + % .$+#'%!
8+ 7 %=$%+%@% (,?.#((#$+$ *-_['<$G(@(' ' 3'
4(.+' * 0(+ '(*'P +3,('/J .' M % <:'

:- ' ' '3 ' ' '3 ' &'
* '$5' F '$ ' *0(3J%)* -$0(.$$'' (6$%7 #% c
'[c'3$F 3'%/ (,*)+$ (#7 ('(2,.#3$()'-$% (*(' *9 +$'7
8, ' ! ' ;,/0> .I , 1])9 J
?.<7,/ / .' ' / ';: <.68 @$,%E.' &)

%' '$ %$3 ! $ $% /+ ')) (%0+ -'-%' (4#(/V .-'
'8 ! <)(' ' ((')4 .+'3 $5$$(7 8 (2A
A A' & A'' 0%-'$ $+# ' '. ''
4$(3(' ' ??(3,+3 (7 (,'- '$b+.$*9(! A' 6 A'T ' $,('- '
((' (,/ (*' *' +3,(/!+0(3'('-$0(.,$''((*,'' K M

'+,,(-+*,' +'B%D.(4.('(*,+,$ *'-(' '$ ';]
'$) %K<%:' ' !$#

G -' '4) ' ' ' " ' ' ' '+' 40% &% ,#<
' !/ ' <<.8' '" ' 0) # '> ' ' $7JK'5.;04@'
,*'A+(5 (',_' ' >

') + ' ! ' . (' +$*,! +.,$/ ' +'XD
.(4.('(#$,-$$)#$ -(% #3<I(% (%.#('F ' ')' 4. 33--'
- '8 & ')'(,'-('%, '8 ')8 7 / 4(,+') *#!$
!\.*I ( )) Z '

J*J , ' ' ' && '# 0 $'V' *'+'F%.(4.('(!
+,, $# <A, D * ('3)$*$5 ('%(*' W' 3,('7%.#$+'
0 ! ! 9 0 + ' ' AF ' J

! ' :<'$! 1-3 (#!'-'O+$ *' W('! ' #'
%! '$$ ' !'C:#<-FC + ,1' ! !,#'!'+ , .- '1 1, $ ')L
H' ,>- ! ! (]' ' Q AP
:& $!Q'' '#' B

! b ʿ ʿ ʿ ,, ʿ E5 ʿ# ℅

*Lʿ ; ;6 5 ʿ /9ʿ + ʿ /17/ʿ +ʿ "

/

a℅

ʿG & ʿ (ʿC)ʿ 4 ʿ +ʿ < .@?1 6ʿ .<-,VE.ʿ >.ʿ
a .5ʿ @ 55.ʿ ?1 <; ?'5.ʿ >.ʿ B, 67. <ʿ <,46ʿ ʿʿ '??,17>ʿ5" <,4ʿ
-.55.ʿ > 4<.ʿ <6<11.,7 ,<ʿ =4ʿ 6 .67 / '< E.67 ʿ >'<6ʿ ;.57.ʿ
- 55.ʿ 5.ʿC ʿ',E57>.1' .1ʿ , ;ʿ 5.6ʿ > 7' 56ʿ =7 5ʿ ">,<< 6ʿ
>.;.7 - . / .'7N ʿ

<ʿ 0,'1J.,56ʿ >.ʿ a .5ʿ ; : '1J ʿ >.ʿ 1.;<. 77 1ʿ 5.6ʿ ;,<71 M
047 ,<6 =4.ʿ ?'7.<7 5.6ʿ ; 7,V.<6ʿ >.ʿ ;.57. - B.ʿ ?,41ʿ .<71.ʿ
7 .4>.ʿ5'J'1 6,<ʿ 'V'<7> - .17ʿ 5.6ʿ >.< .16ʿ >.ʿ6" 1.;.>.ʿ
5.ʿ?.,?5.ʿ ;,<=47 5.ʿ?1,0.7>.ʿ 6.ʿE' 1.ʿ0467 ;.ʿ = / / .Iʿ 5ʿ
6.ʿ?,17" .< E,45.ʿ 0ʿ 5" / ' 6,< >.ʿ ; ʿ ?'17 ;45 .1ʿ .7 - ,4: 7
6. 6' 6 1ʿ >.ʿ]" ?.16,<<.℅ 34.5=4.6ʿ ; , / ?'J< .6ʿ >.ʿ >1'J,<6ʿ
6.ʿ / 1.<7 .<ʿ >.- , 1ʿ >.ʿ 1.?1 / .1ʿ ;.ʿ / ,4- . / .<7ʿ .7 = .5ʿ
=4.6 ,<6ʿ >.6ʿ ?546ʿ / 47 <6ʿ ,<7 7ʿ ʿ 74 6ʿ641ʿ 5" ?5' ;.℅ ! .7
';7.ʿ>.ʿ - J4.41ʿ < " E' 7 =4 ' J1 1ʿ5.ʿ ?.4?5.ʿ =4ʿ ʿ " / '< ʿ
E.67ʿ : '47. / .<7 6,< :4 / ,41ʿ ;.<71.ʿ ; .6ʿ>1'J,<6ʿ .7 ?'17 ʿ
;45 1. 0.<7 ; .<71.ʿ ℅5.ʿ ;,<7.ʿ>.ʿ '470' [ʿ >,<7 5" ; , / ʿ
?'J< .ʿ6 .67 6 J<'5.ʿ >'=6ʿ ;.>.ʿ , ; ;'6 ,<℅ .ʿ ; ,411 .1ʿ 7' 7
; : '1J.ʿ>.ʿ>. / '<>.1ʿ '< J,4-.1<. / .<7 4<ʿ 1.<E,17>.ʿ71,4M
?.6ʿ=4 ʿ -1' 6. / 05'05. / .<7ʿ 6.1" <;.66' / / .<7 .<-,V ʿ "
a .5ʿ .7 =4ʿ '11 7.1"5.6ʿ 64 7.6ʿ >.ʿ ; .77.ʿ / .4 .℅

! ℅

ʿ$ ʿ ʿ ʿC ʿʿ 4 ʿ + <-"E,1 / .1ʿ <;.66' / / .<7
71, 6ʿ ; ' / ?6N 5.ʿ ?1. / .1ʿ :ʿ K1' 5' [ʿ 6 46ʿ 5.ʿ ; , / / '<>.ʿ
/ .<7>4ʿ ?1<;.ʿ ,6.?:ʿ ,< '7, [6 Eʿ J < 1'5 / '0,1ʿ 6.1"
; , / ?,6ʿ >.ʿ 6, @'< . =4'71.ʿ .6;ʿ>1,<6ʿ >.ʿ ; ' -'5.1 .ʿ 71. 0.ʿ
0'7' 5 ,<6ʿ> <E'<7.1 .ʿ .7 ; <= ; , / ?'J< .6ʿ > '17 55.1 .I .<ʿ
7,47 6. 0.ʿ>4ʿ > @ 6.?7 / 55.ʿ 0, / / .6℅ #.ʿ ; ' / ? >41.1" 6 @
6. / ' <.6ʿ .76.1" ?,41-4ʿ ,471.ʿ5.6ʿ / 4< 7 ,<6ʿ >.ʿ J4.11.ʿ .7
1'1 75.1 ʿ >.℅; ' / ?'J<.ʿ >.ʿ 7,?7 ;.ʿ =4 .@ J.ʿ 4<ʿ ; ' / ?.℅
/ .<7 ; , / ?5.7℅
ʿ6.;,<>ʿ6.1"E,1 / ʿ>'<6ʿ 5.ʿ ; ' / ?. / .<7>.ʿ 40.56 ʿ
6,<6ʿ ! ,500 .ʿ ,< 1.ʿ 5" 6745.ʿ .7 5.ʿ .?10ʿ 6,46ʿ 5.ʿ ; , / ʿ
/ '<>. / .<7>4ʿ 5 .47.<'<7 J < 1'5ʿ ?1<;.ʿ>.ʿ 17. / 0.1JI
B .1" ; , / ?,6ʿ >.ʿ - <J7 >.4@ .6;ʿ>1,<6ʿ >.ʿ ; ' -'5.1 .ʿ
=4'71.ʿ0'7' 5 ,<6ʿ> <E'717.1 .ʿ .74<.ʿ ; , / ? < .> '1705.ʿ
1 .I .<ʿ 7,47 6 @ / 55.ʿ>.4@ ;.<7 - <J7 =4'71.ʿ 0, / / .6℅ #.ʿ
; 'cc [ʿ >41.1" 7,47 5.ʿ / , 6ʿ >.ʿ 6.?7; / 01.℅
ʿ71, 6 / .6.1" 7'05ʿ>'<6ʿ 5.ʿ ?'5'7 <'7>.ʿ <6 ʿ 6,46ʿ
5.ʿ ; , / / '<>. / .47 >4ʿ 5 .47.<'<7 J>< 1'5ʿ <> ; I ʿ6.1"
; , / ?,6ʿ >.ʿ >,40.ʿ .6;'>1,<6ʿ >.ʿ ; ' -'5.1 .ʿ .7 6 @ 0'7' 5 ,<6ʿ
> <E'<7.1 .℅ ʿ ; , / / .<;.1" ʿ5"E< >.ʿ 6.?7. / 01.ʿ .7 <.ʿ
>41.1" =4.ʿ =4 <0.ʿ0,416ʿ
ʿ1.67.ʿ>.ʿ '1 / >.ʿ ?,5,<' 6.ʿ < >7'<7 ?'6ʿ .<;,1.ʿ '66.0ʿ
; , / ? #7. / .47 #=4 ?>ʿ ?,41ʿ; ' / ?.1ʿ 1.67.1" ?,41ʿ5.ʿ6.1- ; ,ʿ
/ >1 .41℅ .6ʿ 71, 6ʿ ; ' / ?6ʿ.<6. / 05.ʿE,1 / .1,<771.=7.ʿ / 55.ʿ
0, / / .6ʿ.EE.;7 E6ʿ ?'1 ' . / .<7 / ,< .6ʿ .77.56ʿ =4.ʿ5"1>?4ʿ
05ʿ =4.ʿ< .< "?'6ʿ .4ʿ>.?4 6ʿ5,<J7. / ?6℅
ʿ<6ʿ5" - 55.ʿ>.ʿ Kʿ [ʿ ʿ 0ʿ >,40.ʿ / 55.6ʿ >.ʿ '1 , - .ʿ 5"
-.4-.ʿ > 4<ʿ '?,7: ; ' 1.ʿ < , / / .ʿ 5 ʿ ' - ' 7 '??,17>ʿ >.ʿ
'16, - .ʿ0ʿ6.6ʿ 71, 6ʿ ;<5'<56ʿ >?<7 5.ʿ?546ʿ 0J>ʿ .67 4<.ʿ !55.ʿ
>.ʿ :4 7 '=6ʿ 4<.ʿ?,4? .ʿ>.ʿJ1'<>.41ʿ<'741.55.ʿ>,<7 <ʿ54ʿ
' - ' 7 ' 7?1.6.<7℅ .6ʿ .<4<76ʿ 'V'<7 ' ;1,; : 'ʿ0 ;.77J ?, ʿ
? .ʿ4<.ʿ / 'J.ʿ >.ʿ 5" .1J.ʿ '471.ʿ?1.6.<7 =4 56ʿ ' - ' .<7
1.=4ʿ > 4<ʿ / , <.ʿ 4<ʿ E'<'7 =4.ʿ ,4ʿ ?547>54< .<<. / >.ʿ
5" / ' 6,<ʿ 0'] ,E ; .1ʿ >'<6ʿ5.ʿ1.J / .<7>.6ʿ J1.<'> .16ʿ>.ʿ
a'50 <6 ʿ ? '147 6;'<>'56.ʿ .7>.<,<="5" - .4- .ʿ0 5"046ʿ
7 ;.ʿ>.-'<5ʿ 5" ; , / / 66 ,< >4ʿ 71 04<'ʿ ; - 5ʿ .7 / 5 7' 1.℅
℅ ʿ?1,;06ʿ ;10 / '<.5ʿ " >,<.ʿ >7.ʿ <7.< .ʿ0 ;;75.ʿ / '55 .41.46.ʿ
E. / / .ʿ .7.55.ʿ " (,(;<< 5' / 4..ʿ0ʿ ?.1>1.5"705.I / ' 6ʿ ;.57.ʿ
5 , 7.46.;,<>' / <'7 ,< .7'<7 : .41.46. / .<7 ?'1-.<4.'4@
,1. 55.6ʿ> 4< / . / 01.ʿ>4ʿ ; ,<6 67, 1.ʿ>.6ʿ > 66 >.<76ʿ>.ʿ '1ʿ
6 ,- .ʿ ℅a1'?.<6 ʿ ; .ʿ / ' J 671'5ʿ " ?1.6.:7.ʿ4<.ʿ64??5 =4.ʿ
'< P .7 '4 ;,<6.5ʿ > 7'7ʿ < ; ,<6.=4.<;.ʿ ,< " .<-,V0ʿ
4< <0 0 7, 1.ʿ 0 5" ; , / / 66 ,< .7 4< 6'45 ; ,<>4 7 0 5"
ʿ - .4- .I ?'1ʿ5.ʿ?1. / .1ʿ 5"?1, ; .>41.ʿ .67 646?.<>4.ʿ .7ʿ .<ʿ
- .174ʿ >4ʿ >.1< .1ʿ 5" - .4-.ʿ .< '??.55.ʿ>.1'<7 "0467 ;.ʿ '6ʿ
ʿ 6.66,1 '5.ʿ / > ..ʿ =4ʿ >5' 7 6,< 71 04<'5ʿ ; , / ?.7.<7℅ <ʿ
;1,V'E7 ; .77.ʿ : ,11. ,1ʿ7.1 / <#.ʿ 5,16=4 ʿ .67 <5.1- .4 ʿ <<;

6.<7.<;.ʿ =4ʿ ʿ " ; ,<>' / <.ʿ5.6ʿ 71, 6ʿ .<E'<76ʿ 0 > 1.ʿ0'5746ʿ ʿ
- .1J.6ʿ 046=4 '4ʿ 6'<Jʿ .7 5" ʿ0ʿ >71.ʿ 01E7 ..ʿ ? '1ʿ5"
/ ' <'>,ʿ0,411.'4℅ #.77.ʿ6.<7.<;.ʿ " .7.ʿ .@#;47..ʿ . ', 7ʿ
.7 4<ʿ >.6ʿ .<E'<76ʿ .67>'<J.1.46. / .<7 / '5'>.℅ 5'V "?1.ʿ
6.<7. / .<7 ,< ʿ ?1, .06ʿ ;1 / <.5ʿ ?.<>'<7 '4ʿ ;,<6. 5ʿ >4ʿ1,ʿ
; .<71.ʿ5.6ʿ 0, / '05.604J.6ʿ>.ʿ5" ; , / / 66 ,<>< 71 04<'5ʿ
; - 5ʿ .7 / 5 7' 1.℅

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$! ʿ ʿ ʿ 4 ʿ +ʿ < ? ,411' 7 1. / ?5 1ʿ >.6ʿ
- ,54 / .6ʿ . '5 .16ʿ 6ʿ ,<- , 7' 7 .;1 1.ʿ 7,47 ;.ʿ =4ʿ6.ʿ >>0 7.ʿ
; ʿ 641ʿ 5" H1'<; .ʿ .7 641ʿ5">.67 <..ʿ >.ʿ ;. 1,V'4 / .℅ .6ʿ
?1,0.76ʿ >.ʿ ;,<51. 1.- ,547 ,<ʿ ʿ5.6ʿ 4<6ʿ ?546ʿ 1 > ;45.6ʿ =4.ʿ5.6ʿ
'471#6ʿ 6,<7 ; , <<46ʿ >;1 76ʿ .7 ; , 0 / 4, ='>6ʿ / V67>1 .46.ʿ
/ .<7 ' - .;ʿ4<.ʿ 1'? > 7>ʿ >7,<<'<7.℅ .ʿ 047 - 6 05.ʿ .< .67℅
>.ʿ >,<<.1ʿ >?,4- '<5.ʿ / ' 6ʿ<,6ʿ - , 6 <6ʿ < .77 ?1E<>1,<7
?'6I 56ʿ 6.1,<7 ;.?.<>'<7 '6610ʿ ; 1; ,<6?.;76ʿ ?,4-℅6.ʿ / .571.ʿ
.< 0,<ʿ> '5ʿ >.ʿ>.E.<6.ʿ ; '1ʿ 5"?14>.<;.ʿ .67>.ʿ7,47. ʿ5.6ʿ
6' 6,<6ʿ .7 >.ʿ 7,<7.6ʿ 5.6ʿ ; 1; ,<65'<;.6℅ .ʿ - , 50 7 5ʿ ?'6ʿ
=4 ,<ʿ?40 .ʿ >.0ʿ '40,41> 04 ʿ ' .ʿ4<.ʿ .6?0..ʿ> '5E.;7' ʿ
℅7 , ʿ 4<.ʿ ;.15' , .ʿ ? 0;.ʿ! 41 .46.ʿ 6,17 .ʿ ?1,0'05. / .<7>.ʿ
5"E'01 =<.ʿ>.6ʿ ? 0;.6ʿ>.ʿ . .ʿ J .<1.ʿ >7'05 .ʿ > '<6ʿ <,6ʿ .<- M
1,<6ʿ ʿ 55.ʿ .67 <7 545>.N ʿ * ʿ ʿ$ ʿ
ʿ ʿ ʿ ʿ ʿ F ʿ ʿ< ʿ ʿ; ʿ
ʿ8 &ʿ ʿ ʿ 2 ʿ ʿ !! ʿ
ʿ$ 5ʿ , ʿ ?107.<>ʿ =4.ʿ ; .57.ʿ ? 0;.ʿ ; , / / 4< =4>.ʿ > ' ʿ
- '<;.ʿ '4ʿ ?405 ;ʿ 6.1" 1. / 6.ʿ 0ʿ 66. / 05>.ʿ <'7 , , '5.ʿ>.ʿ
H1'<;.ʿ ?'1ʿ5.6ʿ ' <0'66'>.416ʿ >.ʿ ;.6; ,416ʿ ?106<<ʿ : / J
?1.' / 045.ʿ >'<6ʿ 5.=4.5ʿ ,< 6 .EE,1..ʿ>.ʿ / <71.1ʿ =4.ʿ - ,M
5.<;.ʿ " >70 E' 7.ʿ>.7,45.6ʿ5.6ʿ / '< 01.6ʿ '< 1, ʿ>.ʿH1'<; .ʿ
,< 6,4 / .7 05" ; ,<6 >.1'7 ,< >.ʿ1 66. / 0 >.ʿ <'7 ,<'5.ʿ5.6ʿ
?, <76 6, - '< 6N
M0 ,45.6ʿ 5.6ʿ ?4 66'<;.6ʿ >.ʿ 41,?.ʿ1.J'1>.<75" ; '46.ʿ
>4ʿ 1, ʿ>.ʿH1'<;.ʿ ; , / / .ʿ 5" 5.41ʿ ?1,?1.7 .< ;,<60=4.<;.ʿ
.55.6ʿ >. / '<>.<7 =4.ʿ ; .ʿ / ,< '1=4.ʿ ' <6ʿ =4.ʿ 7, .7.ʿ6" E'M
/ <.ʿ 6, 5ʿ / 6641 7. ; . ' / ? .<ʿ 5 0.15>I =4 ,<ʿ54ʿ 5' 66.ʿ
' <6ʿ =4 0 6" E' / 55.ʿ 5 0.15>ʿ . '5 01.ʿ>.ʿ6.ʿ1.<>1.ʿ ,0 0,<ʿ
54ʿ 6. / 05.1'ʿ .7 =4 ,<ʿ 74 ʿ ?,17.ʿ7,47 5.ʿ1.6?. ;7 .7 7,<6ʿ 5.6ʿ
; ,<<.416ʿ =4ʿ 6,<7>'6ʿ '4"6,4- .1' ,6ʿ
ʿCp .6> 7.6ʿ ?4 66'<; .6 6 << 1,<7 ? ,41ʿ - .<J.1ʿ >.ʿ5"1, ʿ
< 01.ʿ 5" ?546ʿ >.E'7'<7.ʿ 7,47.6ʿ 5.6<,4- .55.6ʿ '77. <7.6ʿ >,<7
ʿ ?,411" 6.ʿ1.<>1.ʿ ; ,4?'05.ʿ 6, 5=4.ʿ ,< .<71.?1.<<.ʿ
=4.5=4.ʿ ; : ,6. ; ,<5 .ʿ5.ʿ1, ʿ 5" 1. <.ʿ .75.41ʿE' / 55.ʿ 6, 5
=4.ʿ ,< >>>'5J<.ʿ ʿ 6.ʿ ; ,<E,777.1ʿ 0ʿ 5" ?1>6.< .ʿ >>;5'1'ʿ
7 ,<℅ LG
pʿ .6> 7.6ʿ ?> 66ʿ : ..6ʿ <.ʿ1.J'1>.1, .7 ?>41ʿ - '5'05.6ʿ .7
; ,<67 7=7 ,<<.55.6ʿ =4.ʿ5.6ʿ =6ʿ =4.5.ʿ1, ʿ >7'<7 .<ʿ?5. <.5ʿ
0.17>ʿ '410ʿ >,?7>.6ʿ ; ,<E 1 / >.6ʿ .76'<;7 ,<6>.6ʿ >.0 ,<ʿ J1>ʿ
.76'<6ʿ '4;4<.ʿ - ,5.<;.℅
Upʿ '<6ʿ 5.ʿ ;'6ʿ ,0ʿ 5" <'7 ,< E1'<=' 6.ʿ ; ,<7 <4.1' 7 0ʿ 6.ʿ
/ ,<71.1ʿ ; ,<71ʿ 1.ʿ 0ʿ 6,<ʿ 6,4- .1' 4ʿ =4 .55.ʿ <.ʿ 7.ʿ1. / .57.ʿ
?'6ʿ 6<1>.ʿ . ' / ? .< 5 0.15>ʿ .7 0? .55.ʿ ? [6 67.ʿ >'<6ʿ 6,<ʿ
.6?1 7> <6411.;7 ,<ʿ '5,16ʿ5.6646>7.6j ?4 66'<;.6ʿ . / ?5. . ʿ
1 <7 7,46ʿ5.6ʿ / ,V.<6ʿ =4ʿ6.<7 .<ʿ5.41ʿ ?,4- , 1ʿ ?,41ʿ .@7 1ʿ
?.1ʿ5.ʿ6;'<>'5.ʿ>.ʿ 4641?'7 ,<ʿ .7 ?,41ʿ&' 1.ʿ1.<71.1ʿ >'<6ʿ
5.ʿ >.- , 1ʿ ;.4@ =4ʿ6 .< 6,<7>&Y17>6ʿ ?'1ʿ / .ʿ <67711.;7 , ʿ
/ '< E.67.℅

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ʿ ʿ ʿCU ʿ +ʿ ℅ ʿ #℅ ' - ' 7 '66 J<>ʿ 9ʿ
/ 55 ,<6ʿ ? ,41ʿ7 41< 1ʿ '4@ > / J1'<76ʿ .7 '4@ 71,4?.6ʿ =4 ,<ʿ
>.1' 5ʿ 5.- .1℅ 4ʿ ʿ>.ʿ ; . / , 6ʿ ,< ' - ' 7 >>?.<6>ʿ .<- .1,<ʿ
C9 ʿ 0ʿ5 -1.6ʿ .7 ,< " > 6;,<5 <4>ʿ>.ʿ ?'V.1ʿ ;.ʿ =4ʿ . / ʿ
7,11'66.ʿ 0. '4; ,4?56.4@ =<ʿ ,<7 ; , / ?7>ʿ 641ʿ ; .6ʿ'??, <7;.ʿ
/ .<56ʿ =4ʿ >.- ' .<7 71.ʿ >,405>6ʿ 5.ʿ 0, 41ʿ =4 ,< .<71.1' 7
.<;' / ?'J<.℅ -
ʿ< V " >'<6ʿ5.ʿ / , / .<7 ' ;74.5 =4.ʿ >.4@ / 55.ʿ0, / / .6ʿ
0ʿ H J4a1.6ʿ .7 5ʿ <.ʿ6.ʿE' 7 >'<6ʿ5.6ʿ .<- 1,<6ʿ ' , .<< / ,4Gʿ
- . / .<7ʿ '4;4< ?1>?'1'7 7=4ʿ '<<,<;.ʿ =4 ,< .<'7 .<>1.ʿ
>' - '<7'J.℅

*)

$@ ! ʿ6G ʿ ʿ ʿ 5ʿ ʿ "& ʿ + W ʿ7
?'1; ,414ʿ1'? >.E<.<7 <,6ʿ >>?'1 ; / .<76℅ 4ʿ ?4ʿ ;.?.<>'<7

G F ʿ ^ ʿ< ʿ'.

1;;,<<' 51.8 ?'1' .'1'??,17 '=4.5=4. ''E 56=4.' ''-46 7' 11'68 ,4''.7 55.8 ='.'5.?'71 ,7 6 / .'.65>, / <'<7?'1' 7,478 .7 =4.' ';7.'.,<67 7<7 ,<<.5 E'7 '>/ 1'7 ,< J.<' 1'5.% ,6 ?5';.6 E1,<5 1.6 ?1>6.<7.<7 4< '6?.;7E,1 / >'05.' J4.11.R.7 5.6 ?1,-<;.6 0.5J =4.6 < ,EE1.<7 1 .< > <' =4 >5' 7% ''7.<4 5" 1,47.'>.' ,41<'V8 508 <J: .< I 5 V''71, 6 ;.<76 0, / / .6 .<- 1,< >.'71,4?.6 >.'5 J<.'>'<6 ;0';4<.'>.';.6 - 55.68 ?547>7 ?,41;,<7.< 1 5.6 / >;,<5.<76 =4.'?,41 <,46 E' 1.'5" J77.11.% ,6 . / J1>6 E1'<E' 6 6,<7.< 1 6 J1'<> <, / 01.' ,41<'V% 'V " 70 4< ;,1?6 >.' 6 @ ;.<76 .<1,556 =4' 1.J, -. 7 >.' % >.' ? #0 1.'4<.' ?'V.'>.'C9 5 -% ?'1' / , 6% 56 ?'1' 66.<7 7,<6 E71.'>.6Q.4 ' <.6 J.<6 ;:'??.6 >.'5.41 ' / 55.8 .7 5 ;,<- .<>1' 7 >.'5.6 1.;, / / '<>.1 0 5" / ,>>1'7 ,< >.'<,6 J'1>.6 <'7 ,<'5.68 6 8 ;.<71.' / ,<' 7.<7.8 56 >7' .<7>.65 <>6 2 E' 1.'4<.' <-'M 6 ,< 641 5.'7.11 7, 1.' E1'<;' 68 #.';,1?6 ?.1> ?'1 5">.6.1M 7 ,< ;.'=4 'J'J<.'.< .<1,5. / .<76I 5 .67 / > / .' =4.67 ,< >.?4 6 =4.5=4.6 Q,416 >.' 6,< 5 ;.<;. / .<7%%% .6 > / ' J1#6 6,<7 >'<6 #.77.' - 55.' 6'<6 ;,<6 >>1'5 ,<I ?5<6 .416 > .<71.' .4@ ,<7 7' 7 >.6 >.77.68 =4.5=4.6 4<6 / >7<.'>.6 <' E >>5 7.6% E'47 > 1.''466'=4.'5" H1'<;.'-, / 7 641 >71'<' J.1 ;;4 / .' >.6"?,?45'7 ,<8 . .7 6'547' 1.'>.'7,47.6 5.6 / '< E.1.6% .6 0,<<#7.6 > / J1>6 <.' &'1>.1,<7 ?'6 >.'1.-.' < 1 >.'5.41 >J'1. / .<78 .7 ;.77.'>?,=4.'< .67 ?'6 >5, J<>.I 56 6,<7 / ?'7 .<76 > '??1#<>1.'=4.55.'6.1"5" ;,<>4 7.'>4 1, '>5"?1>6.'7'7 ,< >.' ';7.' ;,<67 747 ,<4.58 Y

H # %

Q .'8 '+' % ,<75,6 .18 >>?47> > 66. / 05>.'<'' 75,<'5.8 '-' 5 >;1 7 > 4< ,E5 ; .1 >4 * 1>J / .<7 4<.5.771.' >,<7 .EE.7 ">7> > .<J'J.1 ?546 .416 ,EE ; .16 > '0'<>,<' <.1 5.'1.J / .<7 .7 >.'?'66.1 ;5 .0 >51'<J.1% ' ;,5,<.58 % ! 1'-.8 ?,17" 6.6 ?5' <7.6> % ,<75,6 .18 =4 '54' #7 7 <.' 1>?,<6.'>,J / '7 =4.% 5,16 % ! 1'-.' '1>?5 =4>?'1' 5 <.'5.571.'=4'<,46 " ?'14 ;,<7.< 1 >.6 ,06.1-'7 ,<6 <.4 ' .6 .7 E1'??'<7.6 67 1 '0641> 7> > 4<.' ;,<71. 1>-,547 ,<% , >'>.6 E1'J / .<76 >.' ;.77.'5.771.' <7>1.66'<7.%

9 ' 'F '% 'F ' 'F

W .<.-,46 >. / '<>.1''?'68 > 7 5 ' % ,<75,6 .18 6'. .67 ' / .1 5.'1,'=4.'>.'54'>.6 1.1 4<.''47,1 7> '10 '$ 71' 1.I 6' . .67 ' / .1 =4.'> '-, 1 6'6,4-.<7 ;, / ?1, / 6 6" 6#51.5> ?.16,<<.55.8 .78 ;.' =4' .67 0 .< ?546 / ?,17'<78 5 ,< .41 >.'6,< 1>J<.I <. .67 ' / .1 =4.'>.'54''-, 1 ;';:.'5.'->1 7'05.'-,.4>.'5"<'7 ,<16Q ; 67% ' / .1 =4.'>.' '-, 1 1.<>4 646?.;7 '4 ?.,?5.I 6'. .67 ' / .1 =4.'>.' 1.?1.6.<7.1 ;,1< / ;4< ?1<;.'=4'< .67 ?, <7 5 >?J1 6"?'M 1,5.8 .7 =4''<1' 7 ?4 ?1.<>1.'>.6 .<J'J. / .<76 .< 5.6 ;1,V'<7 ;,<71' 1.6 '4 05. '>.' 7'7% .'-,46 > 1' 8 / ,<M 6 .418 ;, / / .' 455V '4@ ;,41 6'<6 > B.<1' N " ,46 W'-,<6 4<.' / '<>1.'> ' / .1 5.'1,'7,47.'> # >1.<5.% Y $ '6 ;.'< .67 ?'6 641 >.'7.55.6 =4.67 ,<6 =4.'Q.'6,55 ' # 7.1'' -,6 54 / >1.6I Q.'-,46 >. / '<>.1'' ?547>7 ;, / / .<7 ,46 5' 7.6 ?,41 ;,<;5 .1 0,<<.41 .7 5" ?1,0 5> '-.' ,4' 05' >4 6.1 / .<7 =4.'5.6 ,5 ! ; .16 ,<7 ?1>7> 5.' Q4 55.7 >.' '<<>.'>.1< >1.% .'-,46 >. / '<>.1''6 8 >'<6 5.' / , / .<7 6 4<.';1 6.''466' -,5.<7.' =4.' ;.55.';'46..'?'1 5.'>>?'17 >4 1, 8 <,46 >.- ,<6 '0'<>,<<.1 <,6 71,4?.68 .7 5' 66.1 <,71.'?'71 .8 . .67 > > 1.'<,6 E' / 5 .6 .7 <,6 ?1,?1 >7.68 5 ' 1..6 '4@ 64 7.6 >.6 ?54J E4<.67.6 >>6,1>1.6% .'-,46 >.' / '<>.1' 8 / ,<6 .418 ;= / / .<7>.6 0, / / .6 =4 8 >.'0,<<.' E, 8 1>?.5.<7 6'<6 ;.66.'=4.'>.6 '1 / >.6 >71'<J.1.6 6,<7 '4 / , / .<7 >.'E,<>1.'641 5" H1'<;# ?.4-.<7 >,47.1 >.' ;,<' 6.41 >.6 ,EE5. .16 =4 8 1>6,546 '?>1 1 ?,41 5" >.E.<6.'>.' 5.41 ?'V68 '77.<>.47 .44. / ' 6'<J E1, >8 6'<6 ;1' <7.' .76'<6Q';7'<;.%
6 # 7.6 =4.5 <,4-.'4 ?5'< >.' ;,<67 747 ,< -,46 '-.0 >>;,4-.17 ?,41 6' 6E'0.'>J'5; / .<7 7,<6 5.6 / >;=<7.<76I ;, / / .<78 ?'1 .@. / ?5.8 -,46 ;,<7.<7.1.0 5" 0'45.'<,M 05.66.8 ;.77.' <,05.66.' > .@71';5 ,<8 =4'7 .<7 ?.47 >71.' / , <6 =4 4<.''471.'> >.6 > 67 <;7 ,<6 =4 .55.' "5,<J7. / ?6 1,4J'>.'?'17'J.1 '-.;5.6 <,4-.'4@ <,05.6I ;'1 -,46;,<' L .<>1.08 / ,<6 .418 .< 1' 6,<<'<7 > '?1>6 -,6 ?1>Q J>68 =4 'V " ?546 5, < >.'7.5 <,05.'>7.5 <,05.'=4.'>.'7.5<, ' 05.' '7;5 1, 41 .1% 34.5 0.41.<@ 6.;1.7 '-.0 1,46 >,<.

?,41 ;,<;5 .1 .<71.'.55.6 7'<7 >.'-'< 7>6 > EE.1.<E.6Z ?,41 1.<>1.''4@ >4.6 .7 ?' 16 5.416 ?1# >'<;.6 .7 5.416 ?1 - 5.M J.68 ' 5"<,05.66.'>.'5" ;,41 6.6 ?.<6 ,<6 .7 6,< ;1.> 78 ' 5"<,0 .66.%>.'?1,-<;.'6"?'7 .<;.'.7 6" 6,4 / 66 ,<8 >5" <,05.66.'>.'1,0.'6.6 ?1.7.<7 ,<6 .7 ',< ?,4-, 18 .<E <'4@ '<,05 6 5" / ,>.67 .' =4' 5.41 ;,<- .<7 .7 5.'6,4-.< 1 >.' 5.41 / ,>.1<.',1 J <.Z .61.E5.@ ,<6 641;.6,0Q.56 <.'-,4 ' 6.1,<7 6 1. / .<7 ?'6 .71'<J#1.6%
' 68 ?,41?'15.1>.;0,6.6 ?5466>1 .46.68 Q.-,4>1' 6 .<;,1.';,<<' 71.'-,6 '11'<J. / .<76 '-.;5.';5.1J#8 .76'-, ' ;, / / .<78 ?'1 5.' / ,V.< >.' ;.77.'<,4-.55.';,<67 747 ,<8 >,<7 -,46 '-.0 6'<6 >,47.'5.'?5'<8 -,46 ?,411.0 6'7 6E' 1.' 5.6 ;1#'<; .16 >.' 5'78 5.6 ';=4>1.416 >.60 .,6 <'7 ,' <'4@8 .7 1.<>1.'> J5 6.'6,< ?'71 / , <.'7. / ?,1.5I ;, / M / .<7 -,46 E.1.0 - -1.''-.;'4< ,< 5.6 ?1 71.6 1.E1';5' 1.6 .7 5.6 ?1 71.6 '66.1<50<5 68 5.6 ,EE ; .16 =4' E,<7 . .1; ;.' ' 5:' .7 ;.4@ =4';,<5 <4.<7 >.' 6.1- 1 7'7 .< H1'<;.P ;, / / .<78 '-.;'5.'6.;,<16 >.6 '1 / >.6 #71'<J 1.68 -,46 1.<' >1.0 5.'?.,?5.' ?546 :.41.4@ 5,16=4 5 J41" 1.<,<.> '6." 6.<7 / .<76 >.'?'71 ,7 > / .'.7 >.'5 0.17>I ;, / / .<7 -,46 E.M 1.0 ?'V.1 ';.'?.4?5.8 7,4Q,416 - ;7 / .>.6 .11.416 >.';.4@ =4'5.'J,4-.1<.<78 5.6 E1' 6 > 4<.'J4.11.'>,<7 ,0Q.7 6.1'57 >.' '66.1- 1I ;, / / .<7 -,46 <6? 1.1.0 '4@ <'7 ,<6 .51'<' J>1.6 5" J><>1.46.' / ,>>1'7 ,< >.'<.'6 . / ?'1.1 > '4;4<.' >.'<,6 '<;.<<.6 ?1,-<;.6I ;, / / .<7 -,46 J'1'<5 1.0 -,71.'?'71 .'>.6 0,11.416 >.'5" J4.11.';- 5.8 >.';.' E5>'4 '4?1>6 >4=4.5 7,46 5.6 / '5:.416 =4.'<,46 '-,<6 >?1,4-.6 <.'6,<7 1 .<I >.';.' E5>'4 =4.'>.6 / ,<651.6 6.4 '?.4-.,7 >>6 1.1 .7 .<- 6'J.1 >.'6'<J E1, >% Y

D 0D 1 # C " 02 < 1 1 /

' '8

'*% +' % #1.7> ' '54.58 ' '>>?'1' 7. / .<58 ;'<7,< >.' '<7 .< 6%

' ' A A7

% B'45 <'<<8 <>J,; '<7 .7 '> / < 671'5.41 >4 >>' ?'17. / .<7 >.' . . .7 6.I #,417 < ' <>8 '>< < 671' ' 7.41 >4 >>?'17. / .<7>.' . <. .7 6.I ".<,48 >.' ;'>.M / ;'>.6 ; .<;.6%

' ' &

7% ' .<J <8 # '1'<78 <>1>8 .4>,<<>8 ;5? .11;8 55'1',8 ,6J .<8 H1'<;, 6 >.' .4 ;: 5.'4%

' ' 'F 3

% '5 0,41J8 K 66V8 'J>68 ! 1,6 > ' ,;51.8 41' , ' '1> <8 '-'55>.8 ;:.-'5 .1 '5 0.178 ;:'1> 55 .16% ' ' 8 5>;:'1> #0, 91.8 .1-.'48 K.'4M -' 6% '

! ' '9 A

' ' % #5'4>. ;11.' ,1< .18 <>J,; '<7 ' ' / ? .11. 641 '5,< .5 '> / < 671'5.41 >4 >.?'17. / .<7I .'< K'?7 67.' B 55.1V8 ;41> >.' '71.VI H1>>>1 ;' K.1>,08 >5.;7.418 ''; .< ;'? 7' <.''4 6.1- ;.'> <J5.5.11.8 ; 7,V;< E1'<;' 68 / ' 1.'>.' 41.%
9 A 'N % .11. H1'<;, 6 K1.66'<> .1'0.8 0, / / .>.'5, '.7 '> / < 671'5.41 >4 > 1.;7, 1.'>< >>?'17.M / .<7I . < H.1> <'<> 55.=4 ;1 8 0, / / .'>.'5, 8 ;,47' / '4>'<# >.'5"J'1>.'<'7 ,<'5.8 ' 4;.V8

' '0

' ' % 5 / .1'6 '5,418 >4 > 671 ;7>.' .<<.I% K, 66 .48 >4 > 671 ;7 >.' ' <7 '1;.55 <I 144.55.8 >4 > 6M 71 ;7 ;5.'5" ,41 >4 7<% 8 ' ' ' " % . / ' 71.8 ?1>6 ># 7 ';54.5 >4 Q1 047 '5 >4 > 671 ;7%

' ' A AF

5 % ';=4.6 # '4>.'H5,1 / ,<> .J1.55.E% &>.'K, 66 6. ' K.1 1'<>P%

' ' A,

% H.1146 ' / ' 1.'>.' K1 '<Q,<Q ''5I

0, / / .'>.'7,SI '0'1S.8 ; >.-'<7'-,.'7>" 1, ' '4'0'5G '
5'J.'>.' !'?Q H'41. ';, /0.%

' ' 'G A 07

% '- .1'&>. Q,<P8 1 .<1'E> 4@,<<.P8 ! .5,5&>.'
.4< .P8 4>,7 &>.'K.'4<.P8 ' /0.17 &>.'#:' 55,<P8 K9G
J4 < &>.' . /41P8 . / '17<.;,417 &>.' .5,<J>P8 K'55.'4
&> 1<'V5. 4;P8 !47,<_ ,1Z.'4 &>.' Q,<P8 K'' 1.';'>.7
&>.' Q,<P%

(+FF' !4.<.'<8 ;'?7' <.'>.'>1'J,<6I ? '
<.58 / ' 1.'> 4@,4<.I '1.V;'>.78>.' 4 76I >,4'1>8
>.'K.'4<.%

' ':2 A A

')5 % 40,?;:.78 / ' 1.'>.' ,<7016,<I
K>1'4>'&>.' '5 K.<, 7,P8 67,41<.'&>.' V,<P8 . 5:,<
&>.' !1 J<VP8 #5.10,<7>.' 55.E1'<;:.P%8
% #,V,<8 ?1.6 >.<7 >4'71 04<'5 ;1 / <. I K1,;:.78'
';;46'7.41'?405 ;%

< # >

, ')

W'f -'7.1 / '>8 / ,<6 .771'85"J1'-41.'1.?1 6.<7'<7 % '00>'
'<1V% /?1 / .41 .Y7 ,;:4?'>4'7 1'J.8 .5'0 .6?.1' '-.1'
'66.0 > .?1.4-.68 7,' '6.?7. / 01.8 ? ,41' 6'7 6E' 1.' " <?''
7 .<; .>.6',46;1 ?7.4168=45?.411,<78 " ;.77.' .?,=4.8>;:'<'
J.1'5.4161.;,<<' 66'<;.6>.'6,46;1 ?7 ,<';,<71.'5.6 .67' /?.6
=4' .41'6,<7>.67<.,.6% ' -.<7.'?405 =4.'>.';.77.'J1'-41.'
6.1" .<64 7.'1.;45.' '4 ;, / / .<;. / .<7 > ,;7,01.8 " ;'556.'
>.'5" 5.<7.41'>.' /?1.66 ,<%

&'3 4 '/ ' '$ A & ' ' A'
F ' A)70 ' ' ' 'a & ' R'B

W' %5.6'6,46;1 ?7.416'6.<7 <-7.6 " / .771.'5.41'<,<'<
5'6>.'5.41'=4'77'<;.'>.'6,46;1 ?7 ,<%Y

<'6 .65'1>?'<>4'>'<6'5.' ?405 ;'46.' =4'<7 7>'?1,> J .<6.'
>.'0 5.76'7 ,1>1.' ,40,< 8 ?1.7.<><6 .;1 76 .76 J<>6 ' '
.7 ' ' .E'46'>.';.60 55.76 .7'<7 <,7 ,1.' .7
/ ,/ ;'>.Q' 1.';,<<4 ?'1'4<>.6 E'01 ;'7.4168 ;,<71.'5.=4.5
% 5.'?1, ;41.41'>4 ; >.-'<7 #:77.5.7 "1.<>4'?5' <7.8'5.'
?405 ;' .67>.'<,4-.'4 '-.15'>.'<.'?1.<>1.' '4;4<.' ;,<E '<;.'
> 556 ;.4@ >.6>76 .5 .76 ,4'0,<6=4'54'6.1' .=7 ?1.6.<7.6%

+' " 6; .7.'>.6 / 6 >.'5"#,<67:47 ,<8'6.'<7>' /0>'
1.<08 <.1.;.-1" ?546 '4;4>6 ?'=4.76 <' '4;4<.65.771.6 =4'
<.'6, .<7 'E1'<;:68 .@;.?7>'>.'5" ,; .7. ' / .1.8 6>'<7'4@
';,0 <68 " '16%

"

= ' #+ < # ' % #

8 ' 'A#'

' ' ' ' ' A ' E' "

' ' ' '

' 'I '<6'5.'1'??,17 =4.' -,46' '-.0' .< '
N.<>4' : .18 -,46' '-.0' -4' =4.'5.';, / 7.';.<71'5'>.'
=4 >'7 ,< < .67 ?'6'?'1E' 7. / .<7>';;,1>' 641'5.'
/,>.'=4.' -,46' '-.0' "'>,?7.1'?,41'5";, / ?7'0 5 7.'
Y><>1'5.'>4'1,V' / .% <' -,46' " / 6'6,46'5.6'V.4@'
'-6'>.'5" / 'Q,17>'>.' -,71.' ;, / 7.IQ.'-' 6'-,46'
6,4 / .771.';.54'>.'5" / <,1 7.% ' .67 ;5' 1'=4 5'E'47
k71>6'>.' 66. / 05..'<'7 ,<'5.'4< 041.'4'>.';, / ?7'M
0 5 7.'=4'1.;. -.'5.6;, / ?7.6.7 -.1 5 .'5.6'E' 568 ?,41'
5.6'6, / .771.'.<64 7.''4';, / 7>'>4';,1?6'5.J 65'7 EI'
8 / ' 6'E'4>1' 7 5'4<'71 04<'5'>.';, / ?7'0 5 7.8'4 '71 M
04<'5'4'4 =4.8.7'05'?,41Q4J;1'>.'7,4'7.6'5.6';,<'7.67'

5 ,<6'1.5'7 -.6"5";, / ?5'0 5 7>Z# .67641 , '<,<6<.'
6, / / .6?'6>';;,1>% ,46'-,<6?.<6>=4 4<';, / ?7.'
< .67 ?'6'>'<6'6"<'741.'64Q.7";,<7.67'7 ,<6% <'?'1'
7 ;45 .1'6.'E' 7 1.<>1.'>.6';, / ?7.6'?'1'6,<':, / / .'
> 'EE' 1.6'6'<6' '-, 1'?,41';.5" 4<'?1,;.6' '-.;'54 8
.@;.?7.'5.';'6' '6,< <7.<>'<7 4'?1. 6.<7.1' 7>.6'
? .;.6' Q467 E ;'7 -.6'E'56 7 . .6% ' .< .67>.' / > / .'>.'
5";, / ?7'0 5 7.'>'<6'5.6'E <'<;.6'>.' 7'7% ,16=4.8'
> '?1.6' ,1J'< 6'7 ,< >.F5" 71. 6,1.1 .I' > '?1.6'5.6'
5, 6'E' 7.6'?,41'5" / '<47.<7 ,<>.6'> EE. 1.< .6' .6?. '
;.6'>.'1.;.77.8'7,46'5.6';7.6'>.'5";, / ?7'0 5 7.'>, '
-.<7 ?1.6.<7.1'5" ?546' J1'<>.'6 / ?5 ; 7.8 =4.'7,46'
5.6'5 -1.6'>, -.<7 1.' / ' <7.<46'.<'1.J .'?'1'5"641M
-. 55'<;.' / / .> '7.' .7 ;,<7 <4.55.'>.6'> / < 671'M
7 ,<6'>.'>.?'17. / .<7 .7 >.'> 671 ;78 5'<.'?.<7?546'
J4.1.V' '-, 1'=4.'>.6';,<E.1.<;.6 "7.< 18 >.6 .@?5 M
;'7 ,<6' ">,<<.18 .7 <,<'?'6'>.6'?1,;.6% ";,<7.6M
7'7 ,<'-.1 7'05. / .<7 5 7 J .46.85.'?1,;.68<.?,411' 7
'-, 1'5 .4'=4.'>'<6'5.';'6' ' 5.';, / ?7'05.''??,17. '
1' 7 4<.'? .;.'=4' 6.1" '1J4. .'>.' E'4@% 5> .'>.'
';, / ?7.'.7;.55.'>.?1,.E.66,<7 '06,54 / .<7> 6?'1'7.6%
' .67 -1' '=4 5' ?.47 6.' 71,4-.1' =4.5=4.' '17 ;5.'>.'
;, / ?7.' = ' >,<<.'5 .4' " 4<'?1,;.6I / ' 6' 5' 6.1' 7
'0641>.'>.'E' 1.'>.'.0'=4.';, / ?7.'4<'J1'<>'?1,. / 6%%
'?E 6';.'?1 <; ?.8 ' / <,1 7.'>.'-,71.';, / 7.'< "
?'6;14=4 4<'71 04<'5'J< =4.>.';, / ?7'0 5 7.86;'<7
'4?1E.6'>.'1 66. / 05..'<'7 ,<'5.8 E47<.;.66' 1.% ' '
1. 55. / .<7 56'< ,<7 ?'6';14'?,4-, 1'>,?7.1'5.'6V6 '
7. / .'?1>6.<7.' : .1'?'1'5.'1'??,17.418 =4';,<6 67. '
1' 7 "E' 1.''>1.66.1'> 1..7. / .<77,46'5.6;, / ?7.6'>.6'
1.;.-.416>.'> 671 ;78 ' <6' =4.';.4@'>.671.601 .16'
>.'5" J4.11.8'>.'5" / '1 <.8'>4'J.< .8 .7;%8 " 4<'04M
1.'4' <7.11'. > ' 1.'>.';, / ?7'0 5 7.8 =4'5.6'6,4 / .7'
71' 7 '-.;'6,<'-6'4'#,1?6'5.J 65'7 EI' ;.'=4'E.1' 7
.<' 7,47 .<-1,< > @ :4 7 ;.<76 ;, / ?7.6'=4'>. '
-1' .<7>1.'.<7.<>46?'1';.'041.'4>.';, / ?7'0 5 7>8
.7 .<64 7.'1.- 6.6 ?'1'5.';,1?6'5.J 65'7 E% "<'7 ,<
.67 4<'J1'<>'?1,?1 .7' 1.'=4'<.'?.47;,7<?7.1'=4 ' '
-.;'6.6 'J.<76 ?1 <; ?'4@I'5.6 'J.<76 ?1 <; ?'4@
6,<7'5.6'6 @;, / / 66' 1.6'>.'5"71.6,1.1 .' <'7 ,<'5.'
.7'5.';, / / 66' 1.'?1,?,6.' "5";' 66.'>.' .@71',1> '
<' 1.I'7,46'5.6'71>6,1 .16'?'17 ;45 .168 7,46'5.6'1.;. %
-.416'>.' > 671 ;7'6,<7>.6' 'J.<76'640'57.1<.6'>.';.6'
?1. / .168'5.416;, / / 6I' . .67>,<.'" .4@'6.456'=4 56'
>, -.<7>1..7. / .<7;, / ?7.1I .<'6,15.'=4.' -,46'E5.'
>.-.0' '-, 1'=4.'>.4@;, / ?7.6' " .<7.<>1.I ;.54'>.'
5"71>6,1.1 .'<'7 ,<'5.' ,4';' 66.'>.6'1.-.<46 ,1> '
<' 1.68 .7 ;.54'>.'5"71.6,1.1 .'>.' .@71',1> <' 1.%
.67 %'4@ 'J.<76'>.';.6';' 66.6" V'E' 1.'-.16.1'5.6'
6,1' / .6'=4'5.416,<7>4.6%; .67 " .4@'6.456"?,41'
64 -1.'5.6';, / ?7'0 .6 =4' 4. J5 J.1' .<7 >.' 6'.'
=4 77.1%
,46'-,V.b'., / 0 .<';.77.' / '< .1.> .<- 6'J.15.6'
;:,6.6 6 / ?5 K.' 5.6' ,?.1'7 ,<6% '6';.'< .67 ?'6'
7,47N'4<.';,<6>.1'7 E,<=4'<,46'"?'17 ;45 .1. / .<7
>.7.1 / <.6' .67 5 1..'>.'1 / ?,17'<;.' =4 5'V " '' ;.'
=4.' 66. / 05..'?'7 ,<'5.';,<<' 66.'7,4Q,416' .7'7
>.6'E <'<;.6I ;'1'5'.67 .-> .<7=4.8'6'-,46'5";:'1'
J.0' > '?41.1'>'<6'4<.'6.66 ,< > @ :4 7;.<76 ;, / ?M
7.6'?'17 ;45 .168 5' < V .< '41"?'6'4:'> .@' / <.I'
.55.'6.1" ,05 J. .'>.'6 .< 1'??,17.1' .<7 .1.1'.<5'4'
041.'4'>.';, / ?7'0 5 7.'=4'6.1";, / ?,6.'>.';, / 7< 68
> 'J .<76 640'57.1<.68=4'<.'1.?,<>1,<7>.'1 .<'?'1'
.4@ / E <.6N .' 041.'4'>.- .<>1" ;.' =4 .7'7'5"
;:' / 01.'>.6';,<7?7.6P 8 .7 66. / 05..'<.'E.1"'471.'
;:,6.'=4.'1.<>1.'>.6'>.;1.76'>.';,<E '<;.%
4';,<71' 1.85.'?5'<' =4.'<,46 -,46 ?1,?,6,<6'
?.47 I71.' '??4V>'?'1'4< J1'<>'." . / ?5.8 Q.' -.4@'
&5 1.'?'1'5"#, / ?7'0 5 7.' =4'6 .@.1;'7 ?,41'5.6''E'
E' 1.6'>4';5.1J.N 5.61.;.-.416'J.<.1'4@'>.6'>.; / .6'
.@.1;' .<75";, / ?7'0 5 7.'641'7,46$,' '?'1'
7 ; 5 .16%
I % '%' B %$' '&' ! (%B $ '& -

! ' < '<,46',<7> 7;1/ < 'E7 ;, /0'771.' 5.'?1,Q.7>.' ' ' '?1E76'-, 1.';,<67 74M 7,<8';.67 4<.>,'J.<.1'7.'.7 / /4'0 .'=4.'<45'<.' >, 7 .71.'> 671' 7>4'1.66,17Q4> ; ' 1.'>.'6,<'11,<' > 66. / .<7% 'E'47 =<.';:';4<' ?4 66.' -'=4.1' "6.6' 'EE' 1.6'71'<=4 5. / .<7%.7=4 5',07 .<<.'Q467 ;.';:.0' 54 8' 6'<6'Q' / ' 6')71.'E,1;.' ">.6'>.?5';. / .<76' =4' 6.1' .<7'4<.'-.@'7 ,<'>,<7'1 .<' <.'?,411' 7>.>, / ' / 'J.1'4<';7,V.<%.7=4.5.;, / ?7'05.'<.' / .1 7.'?'68' 5,16' / / .'=4 5'41' 7 .5.-.'4<.';,<7.67'7 ,<' / '5' AE,<>5.% L,46''-.0'6'J. / .<7'<.'<7'7,<6'5.6'71 04' '<'4@'> .@;.?7 ,<'I' E'47 ' 5' .<' 1.,1>.1' 4<' ?,41' 5" ;, / ?7'0 5 7.'Z <' <,46' "> 7 =4.'5.6'?.16,<<.6' =4' 6.';<'1J.<7>4<.';, ?7'0 5 7.'>.-' .<7'6.'6,4 / .7' 71.' '4@';,<> 7 ,<6'>.'5.41'?5';.8' ,4' <.'5" ?, <7' ';M ;.?7.1% ';.77.',0Q.;7 ,<' Q.'1.?,<>6'=4 '-.;'>.'?'' 1. 55.6';,<> 7 ,<6' -,46'<.'71,4-.1.0'?' >.'1.;.-.416' >.'> 671 ;7I';'1'?,411,<7 56'Q' / ' 68' '-.;'5.6';,<,' 1' 1.6' / ,> =4.6=4.-,465.41>,<<.08-.< 1"J1'<>6'8 E1' 68'7,<6'5.6''<68'640 1'4<'?1,;.6'" '1 6'Z

<64 7.8' <.'?.47 ,<'?'6'?1>-, 1'4<.';1; <67'<;.' =4.5;,<=4.' ,48' ;.'71 04<'5' 4< =4.'>.';, / ?7'0 5 7>' 6.' 71,4-'<7'> - 6.'> ,?< ,<' 641'=4.5=4.' =4.67 ,<' / ?,17'<7.''-.;'5.;,1?6'5.J 65'7 E8'5.6>. ?'17. / .<768' .@; 7.6'?'1'5.6' / '<,.4-1.6'>.'5" / '5-. 55'<;.'8' ?% .' <'<7'?'17'?,<1 .'71 04<'5';,<71.' '66. / K5. '1.?1.M 6.<7'7 -.'>.'5"<'7 ,<'Z ' -,46' >7'05 66.0' ";97.'>K4 ;,1?6'5. J 65'7 E4<'71 04<'5';:'1J>'>.' .@>;47 ,<'>.6' 5, 6'Q4> ; ' 1.68'4<' 71 04<'5';:'1J.'>.'5";, / ?7'0 M 5 7.8'7,46'5.6'>.4@'<, / / .6'>.'5" / > / .' / '< .1.'=4.' 5.6' / . / 01.6'>.'5"5.J 65'741.8'<.'E' 7.6 -,46'?'6'.<' =4.5=4.' 6,17.' 4<.' 1.?1>6.<7'7 ,<' 6.;,<>' 1.' =4' ;,<71.> 1' 7 -,71.'?1 <; ?.'>.' 4< 7>'<>;.66' 1.'>.' 5"1.?1.6.<7'7 ,<'<'7 ,<'56Z

, 5"5.6' / ,7 E6'?1 <; ?'4@'=4 ',<7'?,17>'4<.'?'1' 7 .'>.6' / . / 01.6'>.'-,71.';, / 7.'"6 ,??,6.1'>.'7,47.6' 5.416'E,1;.6'" .7'05 66. / .<7>.';.'71 04<'5'4< =4.%

.'?5468'5,16=4.';.'71 04<'5'.@ 67.1' 78' 6,<' .@ 6M 7.<;.'?1,-,=4.1' 7'5.6';,<7.67'7 ,<68'7,46'5.6'; / ?' 7.6'>.- .<>1' .<7>.6'?1,;.6%

'<6'5.'?5'<'>4';,< 7.'8' ,<'?1,?,6.'> '771 0<.1' " ;.'71 04<'5'5"1.6?,<6'0 5 7.'=4 '-' 7'471.E, 6'5.' / ' < 671.'>.6'E <'<;.6I',<' 54 '6,4 / .7 .@;546 -. / .<7'5.' Q<J. / .<7>.6' ;,<7.67'7 ,<6'>'<6'5.6' 'EE' 1.6'>, / ' ' < '5.6I''5,16' 5'Q4J.1' 7 -.1 7'05. / .<7>.6'=4.67 ,<6' > '5 .<'7 ,<I';.'6.1' 5'4<' J1'<>'71 04<'5'=4'6 '771 ' 04.1' 7'7,47.6'5.6' 'E5' 1.6'>4'1,V'4 / .% '1. / ?5';.' 1' 7'5.' J1'<>' ;,<6. 58' .7 5' < V '41' 7'?1.6=4.'?'6' > 'EE' 1.6'=4.' ,<'<.'?E778';, / / .'471.E, 68'>-,=4.1' >.6'71 04<'4@',1> <' 1.6?,41'5.6'?,17.1'';.';,<6. 5I' ;'1' ,<' > 1' 7'7,4Q,416'=4.'5.6'E <'<;.6'>.' 7'7 ,4' 6.6' <7. 1>76'>, / '< '4@'V'6,<7' <7.1.66.6%

.'7,47.6';.6',06.1-'7 ,<6' 5' 1.6457.'>.4@'=4.6M 7 ,<6' ?1 <; ?'5.6I D 3 4 %.67 ;.'=4 ';, / ?7.1" '4' 041. '4'>.';, / ?7'0 5 7>'Z .1,<7 ;.'> 1.;7. / .<7'E.6' 1.;.-.416'?'17 ;45 .168,4'6.1,<7 ;.'5.6';, / E: 66' 1.6' >.'5" 71>6,1.1 .'Z CD L''41' 7 5' 4<' 71 04<'5' 4< =4.'8 >.';, / ?7'0 5 7.Z' ''1.> J.'641';.6,0Q.76'4<' ?1, .7 >.'>.;1.7'=4.'Q.'-' 6' -,46'6,4 / .771.N

W .6' 1.;.-.416'>.'> 671 ;7 .7'7,<6'5.6' 71>6,1 .16' ?'15 ;45 .16';, / ?7.1,<7'>.6' 6, / / .6'=4 56' '41,<7' 1. 4.68'.7'>.5. / ?5, '=4 56' .<' '41,<7'E' 78' '4@';, / ' / 66' 1.6'>.'5" 71.6,1.1 .'<'7 ,<'5.I' 56';, / ?7.1,1 7' '4' 71. 6,1 .1'>.' .@71',1> <' 1.8' 6,46' 5.6' V.4@'>4' ;, / / 66' 1.'>4' 1, 8'>.'7,47.6'5.6'6, / / .6'=4'>, ' -.<7'>71.'-.16..6' ";.77.';' 66.%

%W .6'?1.?,6.6''4@'> 5E.1.<7.6' 1.J .6';, / ?7.1,<7' " 66. / 05..'<'7 ,<'5.'5.J 65'7 -.%

$' '<6'5.;'6, 5' 6 .5.-.1' 7'=4.5=>.6';,<7.67'M 7 ,<6'641'=4.5=4.';, / ?7.8.55.6' 6.1,<7'Q4J>.68"'5'G' 1.=4>7.'>.6';, / / 66' 1.6'>.'5" 71.6,1.1 .8'?'1'5.'71 M 04<'5'>.' '11,<> 66. / ;<5'>4';, / ?7'05.%

$' .6';, / / 66' 1.6' >.'5" 71>6,1.1 .'<'7 ,<'5.'.7 5.';, / / 66' 1.'>.'5" 71>6,1.1 .'>.' .@71',1> <' 1.' ?1>6.<7.1,<7'5.';, / ?7.'J.<.1'5'>.6' 6, / / .6'=4 56' '41,<7' 1.?4.68' .7'>.'5.41' . / ?5, ' '4' 041. '4'>.'5" ;, / ?7'0 5 7.8'?,41' X77.'-4' .7' '?41.'>.E < 7 -. / .<7' ?'1'E"5. J 65'741.%

$' '=4.5=4.6';,<7.67'7 ,<6' 6 > .-' .<7' 641'=4.5M =4.'?'17 .'>.';.';, / ?7.8' 66. / 05. .'<'7 ,<'5.'5.M J 65'7 -.' .<'E.1' 7'?,4164 -1. '5.'Q<J. / .<7''4' 71 04M <'5'>.'5"1. 6 >. ;.'>.6> 76';, / < 66' 1.6%

W .'1.;,4-1. / .<7'>.6'>.0.76' 641' 5.6'1.;.-.416' >.'> 671 ;7'6.1"?,4164 -' " 5"'1.=4.7.'>.6';, / / 6M 6' 1.6'>.'5" 71>6,1.1 .8',4'>4';, / / 66' 1.'>.5 .@71'' ,1> <' 1.% "1.;,4-1. / .<7'>.6'>. 0.76' 641'5" 71.6, ' 1.1 .8' ,4' 641' 5" ;' 66.' >.' .@71',1> <' 1.8' 6.1" ?,4164 -' " 5"1.=4>7.'>.' 'J.<7'>4' 71.6,1'?405 ;%

$' ,46' 5.6' ;, / ?7'05.6' 6.1,<7'7.<46'>.'1. / .771; '4@';, / / 66' 1.6'>.'5" 71>6,1.1 .'<'E ,<'5.8' '4' / , 6' >.'>>;. / 01.8' .7';.%4@ ;'1. / .771,<7'5.41';, / ?7.8' '<' 041. '4'>.';, / ?7'0 5 7>8'5.' 5D1' / ''>.' '<<. .'64 ' -'<7.% %

W '<6'5.' ;'6' , 5' 5"1.6?,<6'0 5 7>' ?'1'571" >.M -, 1'>;.' .@.1;..';,<71.'4<' / < 671.'8' 5.'041. '4'>?' ;, / ?7'0 5 7.' ?,411" 54 ' >. / '<>.1' 5.6' ;5' 1; 66;' / .<76'<.;.66' 1.68'.78'641'5.'1'??,17>.';.'041. '4'>;' ;, / ?7'0 5 7.8' 5.;,1?6' 5.J 65'7 E>.; >.1"6' ';7 ,<' .<' 1.6?,<6'0 5 7.'>, 7 '-, 1'5 .4% #.77.' ';7 ,<' 6.1" ?,17..''4' 71 04<'5'>.'5" 1.6 >.<;.'>4' / < 671.';,<M 71.'5.=4.5' .55.'6.1" <7.<7>.%

W 'J.<7'>4' 71>6,1' ?405 ;' 6.1"7.<4'>.'>,1 <.1' 7,46' 5.6' '<6''4' ;,1?6' 5.J 65'7 E.'>.' 1.<>1.'?405 ;' .7'7'>.6'?,4164 7.6'=4 5' '41"E'7. %

546 .416' / . / 01.6'>. / '<>.<7' / ?1.66 ,<'>.' ' ?1,Q.7'>.'>>;1.7 .7' 'Q,41<. / .<7'>.'5">6;466 ,<% '6 .5.-.8'641;.'?1,Q.78'> E.-.<76>.0'76' <; >.<76' 7.1 / <>6'?'1'5.6' .;5' 1; 66. / .<76'=4.'>,<<.' % #'M / 46' 641'E.6' >>7' 56'>4' / ,>.' >.';, / ?7'0 5 7>'=4 5' ?1,?,6.%

% '5,4.7 .<71.'>'<6'4<.'> 6;466 ,<'>7.<><.%>;' 5"7:>,1 .'>.' '<;.<<.';, / ?7'0 5 7.'8';, / ?'1..''4' / ,>.'?1,?,6>8'6, 7'?'1'5.'0, / 7.';.<71'5'>.'5=4 >'M 7 ,<8'6, 7'?'1' % #' / 46% '?1>6.<7.'5.'?1,Q.7'>.'>.' ;1.7'64 -'<7N

W '6.1">7'05'?1>6' 66. / 05>.'<'7 ,<'5.8' .7'6,<6' 5.6',1>1.6'> 4<' .,<71>5.41'J><.1'58' 4<' 041. '4'?,41' 5";, / ?7'0 5 7>'>.'7,47.6'5.6'1.;.77.6' .7'>>?.<6.6% .' ;,<71 5.41'8' 5.6' '>Q, <76' .7'5.6' 041. '4@' 6.1,<7'"5" > 6?,6 7 ,<'>4';,1?6' >J 65'7 EI' 7,46'5.6';, / ?7'05.6' '>1.66.1,<7'";.';,<71>5.'J.<.1'5'4<'0,1>.1.'4'?,41' ;:'=4. / , 68'.7'4<';, / ?7.'6, / / '1.'?'1''<<..8'>.' 5.416'1.;.77.6' .7'>>?.<6.6% #.6';, / ?7.6'6.1,<7'-.1 ' E >6'.7'5.6'? .;.6Q467 E ;'7 -.6';.17 7 ..6'?'1'5.6'>/ ' < 671'7.416'>.'>.?'17. / .<7'.7'>.'> 671 ;7%

W '6.1">7'05'" '1 6'4<'041. '4'J><.1'5'>.';, / ?M 7'0 5 7>8'=4'Q4J.1" .<'?1. / >1.'.7'>.1< .1.' <67'<;.' 5.6';, / ?7.6'>.6'71>6,1 .16'>.'5" J4.11.8'>.'5" / '1<.8' >.6' 'EE' 1.6'>71'<J.1.6'.7'>.6'?,<76'.7';:'466..6%Y

%K, 66-N .'?5'<'>.' % '5,4.7 / .'?'1'E7'1.<' E.1 / .1'>.6'-4.6'47 5.6IQ.'>. / '<>.'=4 5'6, 5'1.<-,V>' "4';, / 7.%

'N ' 6.1" / ?,66 05.''4;, / 7>'>.'-,46' ?1>6.<7.1'4<'?5'<' 4< E,1 / .'7'<7'=4 ,<' <.'6.1"?'6' > ';;,1>'641'5"=4.67 ,<'>.'6'-, 1'6 5'V>41" 4<' 6.45' 71 04<'5%

'N ,47';.'=4 ,<'-,46'"?1,?,6.'>.?4 6' 5"64??1.66 ,<'>.'5";:' / 01.'>.6';, / ?7.6'?,47'1. /

4& * % ! ' $$ & ,(& ,& ' ! (%B $ &'3 2 # ! ' &2 ' B %$,' &! ' & ,(,%B$ " %' ' B %$, $'%$ '& ! '& 'E A '/I' 2 '% 2 ', # B$%B$ ' B %$' '(,, ' (!, '% -' ! (%B$,' '% -'%& , % ,' ' ! &! '$,'& (!, ,

.'71 04<'5 >, 7E 51.'4< =4.8?'1;.=4.'5.6'71 04<'4@'
>.'> 671 ;76< ,<7<'5.6.,<4' 66'K;.68<' .@?>1 .<;.8
<'5'' E,1;.'<>;.66' 1.6?,,1Q4J.1'5.6'> E5 ;4 6'>.' +
;, / ?7'0 5 7>8 ?,41' ?,,16< -1.'5.6' >.0.76# .'< .67
=4 ' 7'<7=4.'-,46'41.0'<' 71 04<'5 1' / .<7 / '
?,6'<78 4<' 71 04<'5 641-. 5 '.7 >;5' 1>'?'1'5.'.,<'
71 5.'J><>1'58 =4.'-,46 ?,4-.0 '-, 1' 1'6641'<;.'
=4.' 7,47.6'5.6'?1.-'1 ;'7 ,<6'6.1,<7 ?,4164 - .68 .7
=4.'-,46?,411.0 -,46>;5' 1.1' 641'5'' ;,<>4 7.'>.6
'>/ < 671'7 ,<6 K .< < .67 ?546>'<J.1.4@'= .'>.'
;,<E .1'5.'>1, 7>,1>,<<.1'>.6'>.?.<6.6' ''>.6';,1?6
;,55.;7 E6>,<75.6 / . / 01.6'<.'6,<7 ?'6' <> V >4.5'
5. / .<71.6?,<6'05.6'IW'-,46'<.'6,41'.77.0'7,47.6'5.6'
>.?.<6.6' '' 4<';,<71>5.'J.<.1'5?.1/ '<.<7 .7 '<Q4 '
J. / .<7 >4<' 71 04<'5 / ?,6'<78 -,6'>/ < 671'7 ,<'
>.'>.?'17. / .<7 .7 >.' > 671 ;7 14 <.1,<7 5.'1,V'4 / .
. 'N 'V ''4<'>.;1.7 >''C 'Q4 55.7 =4' > 7
A 5.';, / ?7'05.' <.'6.1'' =4 77 ` =4.' ?'1' 4<'>.;1.7
+. 66. / 0 ..'<'7 ,<'5.I 5,4.7 / .;,<<'57>- '
>. / / .<7;.'?1 <; ?.8?4 6=4 5' 5 -1.'7,47.'5'' ;, ?? '
7'0 5 7.''4<';,1?6 J.<.1'5 .7 '' <<'71 04<'5>.';, / ?G
7'0 5 7. ,06.1-.'.<64 7.8 .7 ;.4@'=4';,<<' 66' .<7
'<; ,<<.';0' / 01.'>.6;, / ?7.6> 1,<7=4.'5.6';, / ?'
7.6'<.'>,<<' .<7Q' / ' 6'5 .4' '' 0.'4;,4? >0 ?1,;.6
'V '' 6'?.<'>.'=4.67 ,<6' -1' / . 7 .,<7.<7 .46.6' ''
Q4J.1'.<' / '7 01.'>.'#, / ?7'0 7.'=4.'Q;'<;' -, 6'?'6
5'' <.;.66 7.' > 5 /'71 04<'5 .@;546 E '>.E'<7 > 4<.'
? .;.'Q467 E ;'7 -.'>,<<.' 5 .4' '' 'Q,41<. / .<7 >4'
;, / ?7.8 7 5'' 1.;:'1J.'>4';, / ?7'05.8 .7 <,<'?'6 ''
4<.\'=4.67 ,< ;,<7.<7 .46. '6 =4'<> 5 V '41' 7
5 <.';,<7.67'7 ,<'?'1';, / ?7.8;.'<.'6.1' 7 ''?.4'?1.6
=4 4<.';,<7.67'7 ,< '1' '< =4.';:'=4.' 71 04<'5>.'
> 671 ;7 '41' 7 '' 5''Q4J.1
'N K .<>.'?546 '<'5,J4.'''5'';? / ?7'0 \'
5 7.'=4.'5'' 5 =4 >'7 ,<8 1'-,46 6'-.0 =4.'5.6 5 =4 8
>'7 ,<6'6,,7 ?1.?'1>.6'?'1'4<'041.'48.a' / <. .6'?'1
4<;, / 7>8 .7 >>E < 7 -. / .<7 '11>7>.6 ?'1'5.';,1?6
>J 65'7 EI' .7 5.6';,<67.67'7 ,<6'6,<71.<-,V..68 <,<
?'6' '' 4<' 71 04<'5 4< =4.8 / ' 6' ''44' 71 04<'5>.'> 6M
71 ;78 641'5''?, 4E64 7.'>.' 'J.<7>4' 71.6,1'?405 ;
'I .' 6' 6' =4.' 66. / 05>;' '' 1.<>4'5.'
C 'Q4 55.78 6'<6'> 6;466 ,<8 4< >.;1.7;,<51.'5.=4.5
Q '-' 6'>. / '<>>'5''?'1,5.I / ' 6';.65'?'1;.'=4 5 / .'
?'1'57>'<J.1.4@'=4.'Q.'>. / '<>.'=4.' ,< / .77.' .<
?1 ; ?.'=4.'Q' / ' 6'5.';,1?6'5.J 65'7 E8 ?4 6=< 5 ,1 '
>,<<.'5.6'>>?.<6.68 <.'?,411'' 54 / > / .'?,1.1'5.6'

E N' ?06.1-'7 ,<'>.' '5,4.7 .67 4<'
E'4@'64??,6. ''5.J 65'741.<.'?.47>. ;1>7.1'4;4<.'
>.?.<6.'6'<6'5'' 6'<;7 ,<'>4'1, I'> .' '?41.1''>,<.8
<,<'?'66.6?1,?1.6';, / ?7.68 / ' 6'5.6';, / ?7.6'>.6
>>?.<6.6'E' 7.6 .< -.174'>.'5''5, .'>. / '<>.' .<M
64 7.' 6' <.'>.?.<6.'E' 7.' .< -.174'> 4 .' 5,'>, '
>71.'6,4 / 6.' ''7,47.' '471.' .6?...'>.'Q4J. / .<7=4 ''
4<.'6 / ?5.'-.1 E ;'7 ,<8.7 6'4<' 71 04<'5?,411''6.'
> 6?.<6.1'>.' '> / .771.
.6'1.;.-.416'>.'> 671 ;7 <.'6,<7 ?, <7 ,1>,<<' '
7;416>.'>>?.46.68 ;.'6,<7 >.'6 / ?5.6'>>?,6 7' 1.6I
5.6',1>1.6'>.'5''71 ` ,1.1 .'<'7 ,<'5.8,1>1.'6'<6'5.6 '
=<.56 56 <.'>, -.<7 1 .<'>.0,416.18>, -.<7 >,<.'
>71.'5.41'6.45.'>. ;:'1J.8 .7 ;,<6>=4. / / .<7 '466'
56<.'>, -.<7;, / ?7.1'=4 '' 5'' 71>6,1;1 .'<'7 ,<'5.
'5,4.7 -,46 '' ?1.6.<7>'>.6';,<6 >.1'7 ,<6
?'17 ;45 .1.6 ?,41'5'' ;, / ?7'0 5 7>'>4'>.?'17. / .<7
7 .'5'' J4.11.8 >4'>.?'17. / .<7>.'5'' / '1<. 'M
5,4.7 '' ,405 .'=4.'-,46'-.0'>.Q''>.;1.7.'=4.8>'<6
5.6'>.?'17. / .<76'>.'5'' J4.11.' .7 >.'5'' / '1<.8 5.'
;, / ?7.'>.6'>.?.<6.6'6.1' 7 E' 7 7,<6'5.6' / , 68 ?'1'>.6
'0,1>.1.'4@8=4 5'V '41' 7 4<.' <6?.;7 ,< ,5'6.1' .<7
'??.5.6'>.4@' ;, / / .6 :'0 74>6' '' 5'' ;, / ?7'0 7.8
.7 =4.'5.6';:.E6'>.';.6'>.4@'>.?'17. / .<76'?1.6.<7.'
1' .<7 5.416';, / ?7.68 '-.;' 5.6'? .;.6'Q467 55;'7 -.68
'' 5'' 5.J 65'741. <6 8 -, ; 8?,41'5.6'>.?.<6.6'?'1M

,$3 $(.(''-(3(''-(4+.,((*,'/ *' -(-(3 4,+1
B '& E%'(,+) $ /
34'<7'4@'>.?.<6.6'>.6'> / < 671'7 ,<6'>.'-(4+.1
7. / .<76'.7>.'> 671 ;768 .55.6'<.'?,411,<7 >71.'E' 7.6
W 4.< -.174'>.6'>.;1.56'>.' 1 66. / 05. .' <'7 ,<'5.
6'>. ?.<6.6'6,<7>,<.';,<71>5. .68 <,<'?'6' '?1.6'
=4 .55.6'6,<7 E' 7.68 ;, / / .' ''?1,?,6.' ' .7
>'<6' 6,<' ?1,Q.7 >.' ;,<71 5.' J.<.1'58 / ' 6' '-'<7
=4 .55.6'6, .<7 E' 7.68?'15 '47,1 6'7 , > 4<.' 7<<7.'
64?.1 .41. '?1.6';.5'8 5.6'?1,;.6>'46';.77.'?'17 .'
>.'5'' ;, / ?7'0 7.'6.1,<7 .<;,1.'7106 1'1. I' ;'1'15
<.'6 'J 1'' ?'6'>.Q4J.E'>.' 47 5 7.'>.6'>.?.<6.68
/ ' 6'6.45. / .<7>.'-.1 ! .1'6' .55.6',<7 .7.'E' 7.6';,<'
E,1 / . / .<7 ''5''5, 8 .7 >'<6'5''=4, 7.''47,1 6 '?'1'
5''5,
4?,17.7 K.''<5.701.?1,>4 6.<7 .7>.-.5,?'
?.<764;;.66 -. / .<77,46'5.6' '1J4 / .<76'>.' #'M
/ 46 .7 H.1 / ,< ' G
#,;:'1>'>. / '<>.'''1>?,<>1.'-?546 .416 '471.6'
''1.?5 =4.1
66. / 0 ..'E.1 / .'5''> 6;466 ,<8 .7>..1E.7.8 ?1. '
=4.' '' 4<'< / 7.8 =4 5 < V '41'' ?'6' >.' 71 04<'5
4< =4.'>.';, / ?7'0E 7.8
+' 5.' ?1.6 >.<7 ';;,1>.'5''?'1,5.' '4' / < 671.'
>.' <7.1 .41
F ' ,0E.7 ?,41'5.= 7.5'Q.'>. / '<>.'
'77.<7 ,<'>.' 66. / 05. .' .]7 ?1.66'<7 '1 / ' 5.6'
>.?'17. / .<76'=4' ,47 / ,<71.'5.' ?546'> . / ?1.66. '
/ .<7 '' E,41< 1'>.6' -,5,<7' 1.6' ?,41'5'' E,1 / '7 ,<'
>.6'0'7' 55,<6'>.'J'1>.6'<'7 ,<'4@8 <> 67 <J77.';. '
54'>.' .<. .7 '1<. .6' 1'66. / 05. / .<76',<7 .7.'
E' 56'5.' '>.;.' / , 68 .7 . .67>.';.77.'.?,=4.'6.4 '
5. / .<7 =4.';, / ?7.'5'' 6,5>.'>.6' ; 7.V.<6' .<1E 7.6I
/ ' 6' '.67 '11 -.'=4.';#4@'= <'6.'6,<7 E' 7 <6;1 1.'
,<7 .7.' ,05 J.6'> '0'<>,<<.1'5.416' / ,V.<6'>.'640M
6 67.<;.I 56' ,<7 .7.' 1. / ?5'..6' >'<6' 5.6' '7.5 .16' '
>'<6'5.6',;;4?'7 ,<6'>4'5' 4 18'.7;' '.<'.67 1.6457.'
4<.'5';4<.'>'<6'5.416' 1.66,41;.6>.'6406 67'<,. .'
>.?'17. / .<7>.' . <. .7 '1<.' '' ;14'?,4-, 1'?1, '
/ .771.'=4 ' ;, / ?7.1' >4' 5.1' ',E57 5.41'6,5>.'6.1' 7
?'V..I / ' 6' ;.77.'>.5 0.1'7 ,< '' 0.6, <'>.'5'' ;,<'
5 1 / '5 ,<'>.' 66. / 0 ..'<'7 ,<'5. .'?1 .1''>,<.'
66. / 0 ..'> '47,1 6.1'5.'?'V. / .<7>.'5''6,5>.' ''
;, / ?7.1'>4'5.1'>4' / , 6
E 4'' I' ,41'5''1.J45'1 7.>.'5''>.5 0.1'7 ,<8
Q.'>. / '<>.'=4.';.77.''EE'1.'6, 5'1.<-,V..''4';, / 7.'
/ 5 7' 1.8=4'.<'E.1''6,<'1'??,17>. / ' <
66. / 05. .',1>,<<.';.'1.<-,
+ ' <'>.' 5.6'6.;1.7' 1.6'E' 7 5.;5<1.' > 4<.'
5.771.'?'1'5'=4.55.'?546Q.416';7,V.<6' '- J<,<' 7>. '
/ '<>.<7 ' .71.'.<7.<>46';, / / .'?,17.4-6'> <<.'(K
7 7 ,<'>.6' 7'76 < 6'> - J<,< .7 >4';, / 7'7 ; '
<' 66 < 8
66. / 0 ..>.; >.=4 56'6.1,<7 .<7.<>46'>. / ' '
'4'6, 18 ' 8
''6.>4;.'.67 5.-..'''71, 6'0.41.6
$
' ' K ' * K:.
<>.' 5.6'6.;1.7' 1.6'E' 7 5.;741.'>.'>.4'''5.7 '
71.6' '>1.66>6' ' 66. / 0 ..'?'1' 4?,17' 58 /

J<.'1.<-,'>.'1.7'7 '01>J.'>.6'>.?.7 .6'>4'>.?
7. / .<7>.'5'' J4.71. .6'>.?.<6.6',1> <' 1.6'6;5 '
-.<7 '' * ' / 55 ,<6' *98CUC' 5 -1.6I' 5.6'>.?.<6.6'
.@71',1> <'51.68 ''9)' / 55 ,<6') 8()('5 -1.6
66. / 0 ..',1>,<<.' / ?1.66 ,<'>.';.7 .7'7'
55.',1>,<<.'.J'5. / .<7 5 / ?1.66 ,<'.7>>#1 7.'5.'
1.<-,'>.'5''?1. / .1.'5.771.''4';, / 7.' / 5 7' 1.
' 'N .'64 6' <E,1 / .'> 4<'E' 7 >,<7 5 .67
<.;.66' 1.'=4.' 66. / 0 ..'6, 7 <6714 7. '5'' 64 7.'
>4'>.;1.7 >4' ' / ' 8 ,<<, / / ''71, 6';, / ?7 66' 1.6

?,41ʿ ' <7 , / J<.Iʿ 5`ʿ .?7 1.<78ʿ 1.I<1;<7 98 ʿ 5 -%8ʿ.7ʿ1.E46E;1.<7ʿ.<6< 7.ʿ>.ʿ?'17 1%ʿ .ʿ ,4 ʿ -?'4@ʿ ;, / / 66' 1.6ʿ E41.<7ʿ 77,< / .6Iʿ ?.47 71.ʿ ;.4@ ;ʿ 6,<7 56ʿ?'17 6ʿ.<ʿ;.ʿ / , / .<7%ʿ .6ʿ '471.6ʿ ?1;7.<>.<7ʿ 71.ʿ.<;,1.ʿ ; , / / 66' 1.6%ʿ .ʿ;1, 6ʿ=4.ʿ <.ʿ =4 ʿ 5.<1ʿ 7 .<7ʿ ʿʿ ;;.418ʿ ; .67ʿ 5ʿʿ -.65 747 ,<ʿ ;5.6 98 % -%

ʿ1 ʿNʿ .6ʿ?1. / .16ʿ; , / / 66' 1.6ʿ<, / / >6ʿ .7' .<7ʿ>.Q'ʿ ʿʿK1.67ʿ5,16ʿ>.6ʿ.-><. / .<56ʿ>4ʿCʿQ4 <%ʿ 6>. / '< E.1.<78ʿ ʿʿ1' 6,<ʿ>.ʿ ;.6 ; 1; ,<67'<;.68ʿ,<ʿ 4<ʿ1.7'1>8ʿ ,4ʿ5.41ʿ>. / 66 ,<%ʿ .41ʿ>> / 6%6 ,<ʿ E47ʿ ';;.?7. .ʿ?'1ʿ5.ʿ / < 671.8ʿ.7ʿ71, 6ʿ<,4-.'4@ʿ; , / / 6M 6' 1.6ʿ'V'<7ʿ.5>ʿ<, / / .6ʿ6.ʿ> 6?,6 .<7ʿ ʿʿ?'17 1%ʿ .ʿ / < 671.ʿ -,46ʿ ʿʿ '??1 6ʿ=4 56ʿ ,<7ʿ '; / .57. / .<7ʿ ʿʿ K1.67ʿ .6ʿ71, 6ʿ '<; .<6ʿ ; , / / 66' 1.6ʿ?1.7.<>.<7ʿ / ' <7.<'<7ʿ>71.ʿ.<.,1.ʿ6.456ʿ;:'1J.6ʿ>.ʿ;.77.ʿ / 6M 6 ,<ʿIʿ 56ʿ'??4 .<5ʿ5.416ʿ?1.7.<7 ,<68ʿ6<1ʿ;.ʿ=4.8ʿ> ʿ 6;<5 568 56,471.;4ʿ5.41ʿ / 66 ,4 >4ʿ1, 8ʿ7'<> 6=4.ʿ 5.6ʿ'471.6ʿ,< . <, / / .6ʿ?'1ʿ5.ʿ / < 671.Nʿ7.56ʿ6,<7ʿ 5.6ʿE' 56ʿ>'<6ʿ5.41ʿ .@';7 74>.%ʿ ʿʿ 6.45.ʿ;:,6.ʿ=4.ʿ 66. / 05..ʿ?4 66.ʿ ,1>,<<.1ʿ '%ʿ;.7ʿ .J'1>8ʿ; .67ʿ=4.ʿ 5.ʿ / < 671.ʿE'66.ʿ;,<<'571.ʿ6 5ʿ ʿʿE' 7ʿ 1.<71.1ʿ'4ʿ71> ʿ 6,1ʿ ?405 ;ʿ5.6ʿ6, / / .6ʿ>,<7ʿ5.6ʿ'<; .<6ʿ; , / / 66' M 1.6ʿ>.-' .<7ʿE' 1.ʿ5ʿʿ 1. / 6.%

#.77.ʿ?1,?,6 7 ,<ʿ .67ʿ>>;1.7. .%

ʿNʿ .ʿ>. / '<>.ʿ=4.ʿ5.ʿ; , / 7>ʿ>.ʿ;,<67 M 747 ,<ʿ-,46ʿ1.<>.ʿ'4Q,41> :4ʿ; , / ?7.ʿ>.ʿ5ʿʿ?.7 7 ,<ʿ >.6ʿ '> / < 671'7.416ʿ >4ʿ>.?'17. / .<7ʿ>.ʿ ' <. .7ʿ , 1.ʿ1.5'7 - . / .<7ʿ '<ʿ?'- . / .<7ʿ>.6ʿ .5.;7.416%ʿ #.ʿ < .%67ʿ?'6ʿ?'1ʿ5.ʿ6 5.<;.ʿ=4 5ʿE'47ʿ1.?,<>1.ʿ ʿʿ>.6ʿ>. ʿ / '<>.6ʿ>.ʿ; .77.ʿ<'741.Iʿ 5ʿE'47ʿ=4.ʿ5ʿʿ5, ʿ?1,<,<;.%ʿ <ʿ>, 7ʿ?'V.1ʿ5.6ʿ .5.;7.416ʿ ʿʿ 4<ʿ7'4@ʿ71.6 / ,>.1>8ʿ ,4ʿ?547 7ʿ<.ʿ?'6ʿ5.6ʿ?'V.1ʿ>4ʿ7,47%ʿ & <ʿ'??5'4> 7%P

ʿNʿ .ʿ>. / '<>.ʿ5.ʿ1.<-, ʿ'4ʿ; , / 7.ʿ ;7ʿ1'Q,41<. / .<7'ʿ54<> %

%ʿ ʿNʿ 'V.1ʿ5.6ʿ .5.;7.4168ʿ;.ʿ6.1' 7ʿ1' ʿ ?,6.1ʿ ʿʿ 7'7ʿ 4<.ʿ;:'1J.ʿ;,<6 >.1'05.Iʿ;.ʿ6.1' 78ʿ ?,41ʿ ' <6ʿ >Q1.8ʿ / .;,:<' 71.ʿ / ?,17'<;.ʿ>.ʿ#.6ʿ E,<.7 ,<6ʿ:,<,1'05.6ʿ=4.ʿ>.ʿ ;1, 1.ʿ1 >;.66' 1.ʿ>.ʿ 5.41ʿ'77';:.1ʿ4<.ʿ .6?.;.ʿ>.ʿ6'5' 1.ʿ?,41ʿ.<ʿ1.<>1.ʿ 5ʿʿ;:'1J.ʿ / , <6ʿ?.6'<7.%ʿ ' 55.416ʿ8ʿ;.77.ʿ;:'1J.ʿ 6.1ʿʿ.@71> / . / .<7ʿ'55.J..ʿ?'1ʿ5ʿʿ 64 7.8ʿ?4 6=4.ʿ>>ʿ 6,1 / ' 6ʿ5.6ʿ .5.;7.4168ʿ?,41ʿ;:'=4.ʿ>.?'17. / .<78ʿ<.ʿ 6 '66. / 05.1,<5ʿ=4.ʿ7,46ʿ5.6ʿ>.4@ʿ'<68ʿ.7ʿ=4.ʿ5.6ʿ;,<M > 7 ,<6ʿ> >5 J 0 5 7>ʿ?,41ʿ >5.;7,1'7ʿ64??,6.<7ʿ0.'4 ʿ ;,4?ʿ?546ʿ<.ʿ / ,V.<6%ʿ .ʿ;,1' 7>ʿ ʿʿ > ' :,1>ʿ?.<6>ʿ =4 ,<ʿ?,4-' 78ʿ?'1ʿ;;6ʿ>.1< .1.6ʿ;,<6 >.1'7 ,<68ʿ6.ʿ > 6?.<6.1ʿ>.ʿ?,17.1ʿ5ʿʿ5, Iʿ / ' 6ʿ6ʿ1 66. / 05>.ʿ-.<7ʿ >.; >.1ʿ?,6 7 -. / .<7=4.ʿ5.6ʿ.5.;7.416ʿ<.ʿ6.1,<7ʿ?'6ʿ ?'V.68ʿ; .67ʿ '- 6ʿ>4ʿ; , / 7>ʿ>E.ʿ;,<67 747 ,<%

66. / 05>.ʿ;,<6457..ʿ>.;1.7.ʿ 4.ʿ5.6ʿ>5.;7.416ʿ <.ʿ6.1,<7ʿ?'6ʿ?'V>68ʿ.7ʿ=4.ʿ;.ʿ>.;1.7ʿ6.1ʿʿ641 5. ʿ ;:' / ?ʿ1. / 6ʿ ʿʿ %5.ʿ / < 671.ʿ>.ʿ5ʿʿQ467 ;.%

%ʿ *ʿ ʿ ʿ ʿ ;, / 7>ʿ ʿ ,46ʿ '-.0ʿ 64??1 / >ʿ5.ʿ >1, 7ʿ>.ʿE' 1.ʿJ1>;.Iʿ / ' 6ʿ-,46ʿ '-.0ʿ >,<<>ʿ '4ʿQ41Vʿ / 5 7' 1.ʿ5.ʿ>1, 7ʿ>.ʿ>>;5'1.1ʿ ';;46>ʿ.@;46'05.ʿ6'<6ʿ .<ʿ>>;5'1.1ʿ5.6ʿ / ,7 E6%ʿ ʿ.<ʿ 1. 6457.ʿ=4 56ʿ71,4-.<7ʿ 7,4Q,416ʿ= .5=4.ʿ ; 1;,<ʿ 67'<;.ʿ'57><4'<7.8ʿ.7ʿ=4.ʿ5.6ʿ>.076ʿ / 5 7' 1.6-.67.<7ʿ <?4< 6%ʿ ,71.ʿ; , / 7>ʿ ?5 7' 1.ʿ -,46ʿ?1,?,6.ʿ .<ʿ %;,<6.=4.<;.ʿ>.ʿ>>;1.5.1ʿ=4.ʿ5.ʿQ41Vʿ ?,411ʿʿ 0 .<ʿ >.;5'1.1ʿ ';;46>ʿ .@;46'05. 8ʿ / ' 6ʿ=4.ʿ5.ʿ 4J.ʿ <.ʿ 6.1ʿʿ?'6ʿ7.<4ʿ> '06,4>1.8ʿ / ' 6ʿ '47,1 6>ʿ ʿʿ '77. <4.1ʿ 5ʿʿ?. <.%

ʿIʿ .6ʿQ41>6ʿ6,<7ʿ5.6ʿ6.456ʿQ<J.6ʿ>4ʿ E' 7Iʿ5.6ʿ J.6ʿ<.ʿ>, -.<7ʿ?, <7ʿ'10 71' 1. / .<7ʿ'77>ʿ <4.1ʿ5.6ʿ?. <.6ʿ.<ʿE'-.41ʿ> 4<ʿ?1,7.J. ʿ5.41ʿE,<;ʿ 7 ,<>, 76.ʿ0,< .1ʿʿ'??5 =4.1 ʿʿ5, %ʿ .ʿ>. / '<>.ʿ.<ʿ ;,<6.=4.<;.ʿ5ʿʿ=4.67 ,<ʿ?1.'5'05.ʿ641ʿ5.ʿ?1,Q.7ʿ>.ʿ >.;1.7ʿ>4ʿ; , / 7>%

ʿIʿ '<6ʿ5.6ʿ>.076ʿ; - 568ʿ,<ʿ?.<7ʿ>>M ;5'1.1ʿ ';;46>ʿ.@;46'05.Iʿ4<ʿ: , / ; >.8ʿ?'1ʿ.@. / \ʿ ?5;Qʿ?.47ʿ 71.ʿ; , / / 6ʿ 4-,5,<7' 1.EE .<7Iʿ / ' 6.<

E' 7ʿ> <> 6; ?5<.8ʿ>4ʿ / , / .<7ʿ ,Eʿ5ʿʿ>>6,0. 66'<;.ʿ $.67ʿ?1,4->.8ʿ.559ʿ>, 7ʿ>71.ʿ?4 .%ʿ ʿE'47ʿ>,<.ʿ'55.1ʿ E1'<;:. / .<7ʿ ʿʿ5ʿʿ6,41;.ʿ>4ʿ / '5NQ.ʿ>. / '<>.ʿ=4 5ʿ 6, 5ʿ <7.1> 7ʿ'4@ʿQ41V6ʿ / 5 7' 1.6ʿ>.ʿ>.;5'1.1ʿ.@;4M 6'05.%

%ʿ *ʿIʿ ʿ .67ʿ <> 6?.<6'05.ʿ>.ʿ<4'<;.1ʿ5.6ʿ ?. '.6Iʿ;'18ʿ / > / .ʿ .<ʿE' 7ʿ>.ʿ>.076ʿ / 5 7' 1.68ʿ4<ʿ ';;46>ʿ?.47ʿ> 1.ʿ?546ʿ,4ʿ / , <6ʿ;,4?'05.%ʿ 4 6ʿ>,<.8ʿ ;4.ʿ -,46ʿ'-.0ʿ 7>ʿ'4ʿ;:.E 64?1> / .ʿ>.ʿ '1 / >.ʿ5.ʿ >1, 7ʿ>.ʿE' 1.ʿJ1 ;.8ʿ5ʿE'47ʿ=4.8ʿ641ʿ4<.>>;5'1'7 ,<ʿ >4ʿQ41V8ʿ5.ʿQ4J.ʿ?4 66.ʿ'77. <4.1ʿ5ʿʿ?. <.Iʿ / ' 6ʿ5ʿ<.ʿ E'47ʿ?'6ʿ=4 4<.ʿ>.;5'1'7 ,<ʿ> .@;46'05.ʿ .<71' <.ʿ 1 / ?4< 7.%

%- ' ʿNʿ .ʿ;1, 6ʿ=4 5ʿVʿ ʿʿ>.ʿ <;,<-.>< .<7ʿ ʿʿE' 1.ʿ>.6ʿ5, 6ʿ?'1ʿ / ,1;.'4@Iʿ5ʿE'47ʿ>,<.ʿ=4 5ʿ6, 5ʿ >.7.1 / <.ʿ?'1ʿ4<.ʿ5, ʿJ><>1ʿ5.ʿ 46'J.ʿ=4.ʿ5.ʿQ4J.ʿ ?,411ʿ'E' 1.ʿ>.ʿ5ʿʿ >.;5'1'7 ,<ʿ>ʿʿQ41Vʿ?,17'<7ʿ=4.ʿ ';;46>ʿ .67ʿ .@;46'05.Iʿ / ' 6ʿ; , / / .ʿ5ʿ?.<7ʿ.@ 67;1ʿ >.6ʿ; 1;,<65'<;.6ʿ?1.66'<7.6ʿ?,41ʿ?,17.1ʿ4<.ʿ5, ʿ ʿ;ʿ ʿ 74.55.ʿ=4 ʿ?4 66.ʿ6.1- 1ʿ ʿʿ 1.?1 / .1ʿ <640,1> <ʿ ʿ 7 ,<ʿ>.ʿ '1 / ..8Q.ʿ>. / '<>.ʿ=4.ʿ5.ʿ?1,Q.7ʿ>.ʿ>>;1.7ʿ >.ʿ %ʿ / / .1V6, 5ʿ>.;1.7.ʿ; , / .ʿ5, ʿ?1,- 6, 1.%

ʿʿ?1,?,6 7 ,<ʿ>.ʿ %ʿ 1,<;:.7ʿ.67ʿ'>,?7..%

1ʿ %ʿ ,<7.6=4 , ʿ ,;;4?.ʿ5.ʿ1.65.ʿ>.ʿ5ʿʿ6.'<;.ʿ ?'1ʿ5ʿʿ5.;741.ʿ>4ʿ; , / ?7.ʿJ.<.1'5ʿ>.6ʿE <'<;.6%

8 '! ʿ ʿ ,46ʿ>,<<.1,<6ʿ;.ʿ1'??,17ʿ>'<6ʿ4<ʿ?1,ʿ$;:' <ʿ<4 / .1,%

ʿʿ6>'<;.ʿ.67ʿ5.->.ʿʿʿ>.4@ʿ:.41.6ʿ.7ʿ>. / .%

(ʿ ʿ! ʿ ʿ ʿ AG ʿ! (ʿ

' ʿ ʿ ' 'ʿ '%

ʿʿ" " % .ʿ / . / .ʿ1.;.-.41ʿ1. / 0,416.1ʿʿ5.6ʿE1' 6ʿ'1'<W e.6ʿ?'1ʿ5.6ʿ?1J?,6#6ʿ>.ʿ5ʿʿ;,<6.1-'7 ,<8ʿ ' <6ʿ=4.ʿ;.4@ʿ=4%ʿ ?,411' .45ʿ 1.ʿ'>Q4J#6ʿ;.<71.ʿ .55.8ʿ> '?1#6ʿ5ʿʿ5 =4 >'7 ,<ʿ =4ʿ.<ʿ'41'ʿ .7;E' 7.ʿ?'1ʿ5.ʿ71 04<'5%

Wʿ ʿʿ " %ʿ#:'=4.ʿ / , 68ʿ5.6ʿ <6?.;7.416ʿ.<-.11,<7ʿ'4ʿ;,<ʿ 6.1-'7.:1ʿ.7ʿ'4ʿ>1.;7, 1.ʿ>.ʿ5.41ʿ> 671 ;7ʿ #5'7>.6ʿ?1,; 6ʿ -.10'4@ʿ=4ʿ5.41ʿ'41,<7ʿ##1. / 6ʿ?'1ʿ5.6ʿJ'1>.6ʿ>'46ʿ <ʿ 7.1-'55.ʿ> 4<ʿ / , 6ʿ '4 1.8ʿ'-.;ʿ;.54ʿ>.6ʿ?, 164 7.6ʿ =4 56ʿ '41,<7ʿ E' 7.68ʿ .7ʿ>.6ʿQ4J. / .<76ʿ=4ʿ '41,<7ʿ>>ʿ 1.<>46Iʿ .7ʿ5,16=4 56ʿ5' 66.1,<7ʿ>.6ʿ?1,.>6 1.10'4@ʿ6'<6ʿ ?,4164 7.8ʿ 56ʿ.<ʿ.6?1 / .1,<7ʿ5.6ʿ / ,7 E6%

6" " 5% ,46ʿ5.6ʿ71, 6ʿ / , 68ʿ5.6ʿ;,<6.1-'7.416ʿ>1.66.1,<7ʿ .7'7ʿ>.6ʿ?1,.>6 -.10'4@8ʿ?,4164 7.6ʿ.7Q4J. / .<76ʿ=4ʿ'4M 1,<7ʿ.4ʿ5 .4ʿ>'<6ʿ5.41ʿ'11,<>% . / .<78ʿ.7ʿ'>1.66.1,47ʿ;.6ʿ .5'76ʿ7'<7ʿ'5ʿʿ;,<6.1-'7 ,<ʿJ.<>1'5.ʿ=4 'ʿ4ʿ>1.;7, 1.ʿ>.6ʿ >>?'17. / . 76ʿ?,41ʿ;:'=4.ʿ5.6ʿ;,<;.1<.%

ʿʿʿ % 6.1ʿʿ'<<4.55. / .<7ʿ1.<>4ʿ ; , / ?7.ʿ'4ʿ;,1?6ʿ >J 65'7 E>.6ʿE1' 6ʿ>.ʿ?,4164 7.ʿ, ;;'6 ,<<>6ʿ?'1ʿ5.6ʿ>>5 768ʿ / '5-.16'7 ,<6ʿ,4ʿ;,<51'1.<7 ,468ʿ.7ʿ>.6ʿ1.;,4-1. / .<76ʿ=4ʿ '41,<7ʿ.4ʿ5 .4%6

- ʿM

g ʿG ʿ ʿ ʿ ʿ A ʿ ʿ>

ʿ ʿ ʿ ʿ & & ʿ ! ʿ ,,

& ʿ ʿ

Wʿ 17% G% .6> 76ʿ 0, 6ʿ6.1,<7ʿ1>J 6ʿ?'1ʿ5ʿʿ;,<6.1-'7 ,<ʿ J.<>1ʿ5.8ʿ ' <6ʿ=4.ʿ5.6ʿ'471.6ʿ0, 6ʿ<'7 ,<'4@8ʿ6,46ʿ5.6ʿ6.4ʿ 5.6ʿ1.671 ;7 ,<6ʿ; '?1>6%

ʿ %ʿ .6?,66.66.416ʿ'41,<7ʿ5ʿʿ<, / <'7 ,<ʿ>.6ʿJ'1>.68ʿ ʿ 5ʿʿ;:'1J.ʿ>.ʿ5.6ʿ;:, 6 1ʿ?'1 / ʿ5.6ʿ?.16, / .6ʿ'V'<7ʿ5.6ʿ=4'ʿ ʿ 7>6ʿ1.=4 6.6ʿ?'1ʿ '17 ;5.ʿ Fʿ>4ʿ7 71.ʿ Iʿ / ' 6ʿ5.41;0, @ʿ >.-1ʿʿ>71.ʿ;,< 1 / >ʿ?'1ʿ5ʿʿ ;,<6.1-'7 ,<ʿ J.<>1ʿ5.8ʿ.5ʿ 6ʿ <.ʿ?,411,<7ʿ5.6ʿ>.65 7<.16ʿ'<6ʿ6,<ʿ;,<6.<7. / .<76ʿ?>. ' %

ʿ %ʿ .6ʿ>1.;7, 1.6ʿ>.ʿ>>?'17. / .<78ʿ641ʿ5ʿʿ1>=4 6 5 ,<ʿ >.ʿ5ʿʿ;,<6.1-'7 ,<ʿJ><>1ʿ5.ʿ.76,46ʿ5ʿʿ641-.55'<;.ʿ>4ʿ?,4ʿ -,1ʿ.@>;45E8ʿ1>J5.1,'7ʿ4ʿ0.6, <ʿ5.ʿ<, / 01.ʿ>.ʿJ'1>.6ʿ<.ʿ ;.66' 1.6ʿ5ʿʿ ,<6.1-'7 ,<ʿ>.6ʿ6ʿ0, 68ʿ.7ʿ5.ʿ71' 5. / .<7ʿ =4ʿ>.-1ʿʿ5.41ʿ>71.ʿE,41<ʿ?'1ʿ5.6ʿ?,66.66.416%

Wʿ %ʿ ʿ>.E'47?'1ʿ5.6>76ʿ?,66.66.416ʿ>.ʿ;0, 6 1ʿ>.6ʿ64ʿ Q.76ʿ;'?'05.6ʿ>.ʿ1. / ?5 1ʿ .6ʿ?5ʿ;.6ʿ>.ʿJ'1>.6ʿ>'<6ʿ5ʿʿ=4<G 0'<.ʿ,0.5 .6ʿ6.1,<7-';'<7.6W5ʿʿ<, / <'7 ,<ʿ6.1ʿʿ> 5.17.ʿ ʿ5ʿʿ;,<6.1-'7 ,<%

' % ' .67 1.6.1-.' '4@>5 ' ?,66.66.41">.' - .<>1.' >.' J1>%
'J1>8 > .@?5, 7.1' ,4' E' 1.' . 6?5, 7.1'5. "0, 6 >, <7 5.6 5, 6 .7
'1 J5. / .<56 5.41' >, <<.<7 5" 0,4 66'<; .8 .< 6.' ; ,<E,1 / '<7
> ' 55.4168 ?'1' .4@ ,4' 5.416 ?1>?,Y>'8O 7,47 ; .' =4 ' .67
? / ;1 7 ?,41' 46'<; .'>.6 '44W6 0, 6 4 '7 ,<'46%Y

@'6 " %

-E ' & ' ' ' ' '& ' ' ' ' '

W 1 4< =4.%7.6> 76 0, 6 6.1,<7 1>J 6 ?'1'5" ; ,<6.1-'G
7 ,< J>,>1'5.8 ' ,6 '=4.'5.6 0, 6 <'7 ,4'4@% '

' " %

' ' ' ' ' ' A'

' 0

' 17 G%_ .6 ; ,7< / 4<'47>6 >5 '0 5'<76 601,<7 7.<4.6 >.'?,41-,1' "5" ; ,<6.1-'7 ,< >.'5.416 0, 68 .7> .<71.7.< 1' ' ; .5 ;7E.7 5.'<, / 01.'>.' J'1>.6 <>. .66'1.6% ' 7' % ' 4<.' ; ,1< / 4<'4 .' <>J5 J.' 7 > . '05 1' 4< <, / % 01.' 64 5 6'<7 >.' J'1>.68 ' ,4 >.' 41' E,41< 1' 4< 71' 7. / .<7 ; ,<-.<'05.8 5.'<, / 01.' .7 5.'71' 7. / .<7 6.1,<7 1>J .6?'1'5.' >1.;7, 1.' >4 > 671 ;78 '5" 1.=4 6 7 ,< .7 641' ' 6>.' <G 6?.;7.41%

" % .6 ; , / / 4<.6 '41,<7 5.' ; : , 1' >.' 5.416 J'1>.6 ?'<<'5.6 ?.16,<<.6 'V'<7 5.6 =4'5 .6 1.=4 6.6 ?'1' '1% 7 >.' F' >4 5 71.' f / '6 5.41' ;0, @>.-1" . 1.' '??1,4-.' '?'1'5.' ; ,<6.1-'7.418 .7 .5 .6 <.'?,411,<7 5.6 >.65 74.1 6'<6 5.' ; ,<6.<7. / .<7>.'5" ; ,<6.1-'7 ,<% .' ; : , 1' 6.1" E' 7 ?'1' 5.' ; ,<6. 5 J.<.1'5>.'5" ; , / / 4<.%
W % ' >.E'47?'1' 5.6 ; , / / 4<.6 >.' E' ; .' 5" <, / <'M 7 ,< >.'5. .16 J'1>.6 >'<6 5" =4 <0' <.' >.' 5" - ' ;'<;.' >.6 ?5' ; .68 5" <, / <'7 ,< 6.1">.E.1. ' '5" ; ,<6.1-'7 ,<%
W % .6>76 J'1>.65,41< 1,<7 4< ; '47 ,<<. / .<7.7?1>' 7.1,<7 6.1< .<7 ' <6 '=4.' ; .4@>.6 0, 6 <'7 ,<'4@%
$W % 6 6.' ; ,<E,1 / .1, 7 '7 ,47 ; .' =4 ' .67 ?1.6;1 7 ?'1'
% 5.'5 71.' '>4 ?1.6.<7 >.;1.78 6' ; .'< .67 =4 '?1#6 ' - , 1' '#% E1 / .'5.416 ?1, ; .6 - .10'41' ; ,<; .1<'<55.6>.5 76 ,1> <' 1.6 >.'? 741'J.' ,4 >. / '1'4>'J.8 .4 - ,5>.'7' 55 68 56 5.6>. ' ?,6.1,<5 '4 J1. .'>4 04J.'>.'?' 18 .7 .<' - .15 1,<7 5.'?1, ' .<1.41'>.'5" ; , / / 4<.8 ?, 1' E' 1.'5.6 ?,4164 7.6 1.=4 6.68 ; ,<E,1 / . / .<7 '41'5, 6 >.%?,5 ; .I / '6 56 '>1.66.1,<7 ' <6?.;7.41' 7,<6 5.416 ?1, ; 6 - .10'41' ; ,<; .1<'<7 5.6>.M 5 76 ; , / / 6 >'<6 5.6 =4'176 >.'1.6.1-.' .7 5.6 - ,56>.'E47' .%
Y' % " ; ,<6.1-'7 ,< .7' .@?5, 5'7 ,< >.6 0, 6 >.6 ; , / / 4<'45.6 > : '0 7'<76 6.1,<7 6,1-. 5 . .6 ' <6 '=4 5' ' .71.' .@?5 =4.%
&' % .6>76 0, 6 6.1,<7 - 6 7.6 ?'1'5.6 ?1.?,6#6 >.'5" ; ,<6.1-'7 ,<8 6' - , 1N ?'1 .6 <6?.;7.416 '4' / , <6 >.4@ E, 6 ;0'=4.' '<<#.8 .7 4<.' E, 6 ?'1 .6 ; ,<6.1-'7.416% 56 6.1,<7 ?'1. 55; / .<7 - 6 7.6 '4' 0.6, < ?'1'5.6 ; , / / 66'1.6 >.'5" ; ,<6.1-'7 ,< J.<.1'7.% #.6 - 6 7.6 '41,<7 5.' /#/.' ' ,00.7 =4.'>'<6 5.6 0, 6 <'7 ,<'4@8 .7 .5 .6 6.1,<7 ?'1. 5 .' / .<7 ; ,<67'7. .6f %
W "% .6 ; ,4?.6 ,1> <' 1.6 <.'6.1,<7 / 6.6 .< .@?5, 7'M 7 ,< =4.' > '?1#6 5.' ?1, ; 6 - .10'5 > '66 .55.8 0'5 - 'J.' .7 / '17.7'J.'>.' <6?1;7.41'5, ; '58 ; ,<E,1 / . / .47 '4@> - 6 ,<6 >.' ; ,4?.6 .5' ' / .<'J. / .<76%
% " % .6 ; , < / 4<'4 .6 =4 8 ?,41'5.41' ?546 J1'<>' ' - '<' 5'J.8 04J.1' .<7 '?1,?,6>.' - . >1.'5.416 ; ,4?.6 ,1> <' M 1.68 '4'5 .4 >.' .6 ?'1 'J.1' .< <'741.8 1 .'?,411,<7 5.'E' 1.' =4 ;< - .154 >.'5" ?.1 / 66 ,< >4 > 1.;7, 1.' >4 > 671 ;78 1.<' >4.' 641' ' - 6>.' <6?. ; .418 .7 - 6. ' ?'1'5.' > 1.;7, 1.' >4 >#?'15. / .<7%
W" % 4;4<.' ;?4?.' >.' E47' .' 641' 7' 55 6 ,< >.' =4'17 >.' 1.6.1-.'<.'?,411" 1.' E' 7.' =4 .< - .174 >.' ' ?.1 / 66 ,< >4 ?,4-, 1' .@. ;47 E8 =4 '<.'6.1" ' ; , 1>#.' =4.'?,41' ; '46.' 7>.' 4. ; .66 .8 .7 641' ' - 6>.6 ; ,1?6 '>/ < 651'5 E6 .7>.'5" E; ,<6.1-'5 ,< J.<>1'5.% ' 6.1" ?1, ; #>.' '4@ '66 .55.68 0'5 ' 5-'J.8 / '15.5'J.'>.6> 5.6 ; ,4?.68 ' <6 '=4.' >'<6 5.6 0, 6 0'7 ,<'47%
$ " % 4;4<.' ; ,4?.' ,1> <' 1.' ,< .@71' ,1> <' 1.' <? ?,411" #71.' - .<>4.' =4.' ?'1 >.V'<7 5.' > 1.;7, 1.' >4 > 6M 71 ;78 .< 5" E,1 / .' =4 ' '41" c .4 ?,41'5.6V.<7.6 >.' 0, 6<' ' 7 ,<'4@% ' 6.1" ?1. ; .>.' '4@ '>04> ; '7 ,< ' '5" >5 J.<; .' >4' ?1, ;41.41' >.'5" >, / / 4<.8 . ,' ?1 6.4 ; .>4' ' 1. ,4' > 4" '471.' ,5E ; ;1' / 4< ; ?'

\' '3 ,'& '(!4 % '& ,'4 ,' - %! & !% ,'
6.1,<7 - .16>6 ?'1' '>04> ; '5' 1.' .<71.'5.6 / ' 46 >4 71.6, '
6,17.1' >,' > 671 ;78 ?,41' .71.' . / ?5,V.68 641' ' - 6>4 75 1. ; '
7, 1.' >4 > 651 ; 8 ,1>,<<'<; ' ?'1 ; .54 ' >4 >.?'15. / .<78
; ,<E,1 / . / .47 '4@ > 6?,6 7 , ,6 =4 ' '41,<7 ?.1 / 6 <> 7.6
; ,4?.6% ' %
W" % .6 ; ,4?.6 ,1> <' 1.6 .7 .@71' ,1> / ' 1;6 6.1,<7 6,0.77.6 '4 1#; ,5. / .<7% .7 5.6 '>04> ; '5' 1.6 ,< .<71.?1.M <.416 >.-1, ,7 ,07.< 1' 5.41' ; ,< '>.' ; ,418 ,4 >. ; : '1J.'% > .@? , 7'5 ,<% '64351" =4.' 5.' 1. ; ,5. / .<7 >.' ; ,4?.6 ,1> M <' 1.6 6, 5 E' 7 ?'1'1 6?. ;5.41' 5, ; '5%
' " % .6 : '0 7'<76 <.%?,411,<7 .<5.-.1' 5.416 ;E''05 6 =4 .<677 7.' >.'5" - %6 5.' .7 1. ; ,<<' 66'<; .' >.' <6?. ; .41' 56 <.'?,411,<7 / .771.'5.416 0.67 '4@ .< ? 74 'J.' =4.' >'<6 5.6 ; '<7,<6 1. ; , <46 . >. ;5'1.6 >.E.<6'05.6 >'<6 5.'?1, ' ; 6 - .10'5>.'5" - 6 7.'>4 ; ,<6.1-'7.41%
W" % .6 71' - '4@ >.%1 ;#?'J.8 1.?.4?5. / .<7 .7 '471.68 <#; .66 '1.6 ' .<7 7 .< .7 ' / .5 ,1'7 ,<8 6.1,<7 ,1>,<<#6 ?'1'5.'?,4-, 1' .@#;4 E8 > '?1#6 5.6 ?1, ; . - 0 '4@>.6 ?19' ?,6.6 >.'5" ; ,<6.1-'7 ,< .7 641' E' - 6 . 1' ; ,1?6 '>/ < 6 ' 71'7 E68 =4 ' .<5.<>1, ,7 ?1#'5'05. / .<7 5.6 ; , / / 4<.6 47. ' % 5.66..6% 8 8 %
' " % " ?,<1677 7.' >.6 >.5 76 ; , / 1, 6 6 1'5" E47' .' .7 >'<6 5.6 =4'176 >.'1.6.1-.8 .7 ; .55.'>.6 / '5-.16'7 ,<6 >'<6 5.6 ; ,4?.6 .7 .@?5, 7'7 ,<68 6.1,<7 E' 7.6 ?'1' ' ?1.?,6#6 >.'5" ; ,<6.1-'7 ,<8 64 - '47 ; .' =4 ' .67 > 7 '4 5 71.' "8 6'7 E '4@ : '0 7'<76 ' E,41< 1' 5.6 <6714;7 ,<6 =4 56 04J.1,<7 ; ,<-.<'05.68 .7 ' 6.%?1 - '5,E1' >.6 1.67 747 ,<6 .7 <>. / ' < 7.6 =4 '6.1,<7?1,<, ;>.6 ; .<71.'5.6 >. <=4'<566
W" 8 ,47.6 5.6 ,?.1'7 ,<6 >.6 ?1.?,6 6 >.'5.' ; ,<M 6.1-'7 ,< J 1'5.' >'<6 5.6 0, 6 >.6 ; , / / 4<'47 6%6.1,<7 E' 7.6 6'<6E1' 68 6'4E 5.6 - ' ;'7 ,<6 >.6 '1?.<7.416=4 ' 6.M 1,<7 . / ?5,V.6l / ' 6 5.6 '>04> ; '5' 1.6 >.6 ; ,4?.6 7'<7 ,1> <' 1.6 =4 .@71' ,1> <' 1.6 6.1,<7 7.<46 >.'?'V.1' .<71.' 5.6 / ' <6 >.6 ?1.?,6 6 >.'5" 1.J .' > .<1.J 6 1. / .<7 5.6 C 6,46 ? ,415 -1.' >4 ?1 @>.' 5.41 '>04> ; '7 ,<8 ,471.' .7 ?'1' >;6646 ; .54 8 .78 / ,V.<<'<7 ; .8 5.6 C9 >.< .16 ?,41' -1.8 ; >.- '<7 . '05 68 6,<7 .7 >. / .41.<7 64??1 / .6%6

- K M%%

' ' ' ' ' ' ' %%%%%%%%%%%%%%%%%
' ' ' 2 ' ' ' / ' ' '
' '471.68 .7 ?'1' ' ' F

' 178 4< =4.% ,47.6 5.6 > 6?,6 7 ,<6 >4 5 71.' ?1. ; .M >.<7 6 '??5 =4.1,<7 ' '>/ < 671'5 ,< >.6>76 0. 686 ' ; .' < .67 =4.'5.6 ?,66.66.416 < '41,<7 ?'6 0.6, < >.'5" ?.1 / 6M 6 ,< ? .6 ;1 5.' ?'1' '17 ;5.' "' ?,41 &" 1.<7.'>. #,4?.6,1' > <' 1.68 .7 =4 .5 ;6?,4164 7.6.7 '471.6 E,4;7 ,<6'<1 04 .6 '4@?1, .<1.416 >.6 ; , / / 4<.6 ,< ,EE ; .16 / 4< ; ?'4@ '?' ?'1 .<>1,<7 '4@ 6V<> ;68 ?1, ;41.4168 ; ,<, / .68 '>/ ' < 671'7.416 ,4 '471.6 ?1 ?,6 6>.6> 7.6 / ' 60<6 .7 ,1>1.'>.' '57.%Y
&! .' =4 ' .67 1.5'7 E ' ,1>1.'>.' :5'57.' " 7 ' '0,41' %P

< ' ' " %

:

W 17 d% .6 J'1>.6 6.1,<7 1.6?,<6'05.6>.'7,<7.6< G J5 J.<; .6,4 ; ,<71' - .<7 ,<6 >'<6 . .1; ; .'>.'5.416 7,<.' 5 ,<68 ' <6 '=4.'>.'5.416 / '5-.16'7 ,<6 ?.16,<<.57.6%
$ % '1' 64 7.' >.' ; .57.'1.6?,<6'0 5 5 8 .6 J'1>.6 6.1,<7 7.<46>.6 4>. / <7 6 .7 ' / .<>.6 .< ; ,414.6 ?'1'5.6> 50<' =4'<76 5,16=4 56 < '41,<7 ?'6 >. / .<7 ; ,<67'7.' .6 > 5 568 .7 5.' / ,<7'<7 >.6 ; ,<>' / ?'7 ,<6 =4 56 640 1,<7 6.1" 1.' 7.<4 641'5.41' 71' 7. / .<78 6'< '?1.04> ; .' '5,45.' '471.'?,41' ' 64 7.%
$ % .6 <6?. ;7.416 6.1,<7 1.6?,<6'05.6>.' #416 E' 56 ?.16,<<.568 ' <6 '=4.'>.6 / '5-.16'7 ,<68 ; ,< 1' - .<5 ,<6'7 <.J5 J.<; .6>.6 J'1>.6 =4 56< '4' ' .<7 ?'6 ; ,<67'5 .6%
%' " % '1 64 7.' >.' ; .57.'1.6?,<6'0 5 8 5.6 <6?. ;7.416 6.1,<7 6,5 > ' 1. / .<7 7.<46 >.6 ; ,<>' / '<'5 ,<6 . , ; ,414 ' .'1'5.6 J'1>.68 6'4E 5.41'1. ; ,416 ; ,<71" ; .4@ ;
W % .6 ; ,<6.1-'7.416 6.1,<7 J'5. / .<7 1.6?,<6'05.6 >. .416 E' 56 ?.16,<<.568 ' <6 '=4.'>.6 / '51.16'5 .<68 ; ,<M 71' - .<7 ,<6 ,< < J5 J.<; .6>.6 <6?. ;5.7 16 =4 6' . ,1' . ,7 ?'6 ; ,<67'5 .6%

&' 7%' '1'64 7.'>.';.77.'7W ,<]'0 557>8' 56'6.1,<7'6,5>' '
1?/.<7'7.<46'>.6';,<>'/<'7 ,<6';<;,414.6'?'1'5.6' 46?.,'
5.4168'6'4E'5.41'1.;,416';.<71.';.6'>.1< .16%
$' %' .6';,//66'1.6'>.'5'';,<6.1-'7 ,<J.<>1'5.' .W
1,<7'116?,<6'05.6'>.' .416'E'56'?.16,<<.568' .7'6?.; '5./.<7'
>.'7,4 .'<.J5 J.<;.'0'E'1.'.@.;,7.1'5.6'5_7E6'>'<6'5.6'>EE.F'
1.<7.6'?'17 .6'>4'1.J /.'E,1.6 .1%
W' 555%' .6'.11.416'>.' /.6<1.8'5,16=4 .55.6' .@.>>.1,37'
4<' '1?.<7'641'=4'1'<7.8'6.1,<7' '5'' ;:'1J.'>.';.,@'=4'
'41,<7'E' 7' '1?.<7'J.%
W '' %' .6';,1?6'>/ <671'7E6'.7'5.6'/<<; ?'5 7.6'6.1,<7'
1.6?,<6'05.6'>4'>,//'J.'6,455.178'0'>>E'<7'?'1'.4@'>','
K,1>.1'5'' /'<7,17.'<7..66'1.'?,41'5'';,<6.1-'7 ,<>.6'
0, P'5,16=4 56'.<6.1,<7'1.=77 6I'.7'5.6',EE; .16'/4< ;?'4@'
1.=4 6'> '66 67.1' '4@'?.1=4 6 7 ,<6'>.6'0, 6>.'>>5 76'6.1,<7'
1.6?,<6'05.6'>.'7,47'1.E,6' 55>J 7 /.% Y

1/6' '' %

' 'G ' 8

K 17%' h%' .6',EE; .16'>.6'>>.-'<7J14.1 .6'.7' /'771G'
6.6'.7>.'6 .J.6'>.'1.E,1/'5 ,<8'5.6'J1'<>6' /'571.68',1>,<G'
<'7.<1 .7J><>1'7.<1.<7'7,<6'5.6'?1.?,6>68'7 747' 1.6,4'?'1'
;,// 66 ,<8';:'1J.6'>.' '>/ <671'7 ,<%>.6'E,1>76' >4'
1,V'4/.8';.66.1,<7'5,<7.6'E,<;5 ,<6'5,16=4.'5.6'<,4-.'4@'
?1>?,6.6'.<71.1,<7'.<'';7-7>8'6'45';.'=4'''>>'?1.6;17'
1.5'7-.1'.<7'4@'J'1>.6'';74.55./.<7.<'?5';.%
%' %' ,46'5.6'?5'<68'5 71.68' ?1,.>6-.10'4@' .7' '471.6'
?.;.6';,<;./'<7c'' ?1,?1>7>',77' '>/ <671'7 <'>.6'E,\'
1>768' '<6'=4.'5.6' ';7.6'04>; '1.68';,//,<6' ''?5,6 .416'
>671 ;768'>7'<7'4@'J1. .6'>.6'; >.-',7 /'771 6.6'.76'>J.6'
>.'1>E,1/'7 ,<8'6.1,<7'1.<6' '<'6.;1.7'1 '7'>,'>>?'15.G'
[.<7'>.'7.'1'>7'05 66./.<78' '5.6'?1>?,6>6'>.'5'';,<6.1-'M'
7',<'?,411,<7'.<'?1.<>1.'7,,7.';,//4<;'7 ,<8';,?' .7'
.71' 7'=4 56'0,J.1,47' <>..66'1.6% 34'<7''<@'?5'<6' .7'
?.;.6'>.?,6>6'7'<7'4' 041.'4'J><>1'5'>.6'.'4@'.7'E,1>768'
'4@'>>?>76'>.6'J1'<>6' /'71.6'.7' '4'J1.EE.'>.6'7'05.6'>.'
/'101.8' 56'6.1,<7'1./]''4' .;1.7'1 '7'>.'5'';,<6.1-'7 ,<'
J.<.1'7.%
' %' '6.1'' E'7'4<' 01 .E'>7'7 >.6'?>..6'><,<.>.6' .<'
'17';5.'?1.;.>.<78' '4' 0'6'><=4.5' 5'.<'6.1'' >,<<>'>>G'
;:'1J.''4@'>>?,67' 1.68'.7'4<'>,405.'>4>7'>7'7>./.41.1''
,<7%'4@'?.;.6%' %'
W' %' '6.1''<;.66'/1,.<7'E' 7',<.'5,'6,1'5.6''/><'J.'
4.<768' '<6'=4.'?,41'E@.1'5.6'1>J5.6>.' '>/ <671'7 ,<'
5,1.67>1.8' .7' 046=40%';.' ,1>,4<'<;.'>.' 99*' .7'5.6'
'471.6'1>J5../.<76'.<-J4.41';,<7<4.1,<7''>71.'.@7.47>6'
.<7,47';.''=4,'5'<.67'?'6'>>1?J>'?'1'5.6'>>;1.76'>.' 6'
6./05>.'<'7 ,<'5.I' .7'<>'</,<6'5.6'E,1/.6?1.6;15.6'?,41'
8' '>04>;'7 ,<>.60 .<6'<'7?<'4''6.1,<7'64067 74>.68'>'<6'
5''-.<7.'>.60, 68' ';.>.6'; >.-'<7'467>.6%''

'' '&I E

''G' $0.+$' *'-(''': ' <' ' ! ' ' '
' ' ' ' '* ' 5'
0.+9(' ,$('+2'4($*,.-'/',+, +$.('/ +.36$,(3 ('/ -(3 .+!'
,(.'/'3 --$(+'/3(', $(.'/(*' *' ,'+2'+.,$',(''-(', ''
(''9(*.('7'*' *' $*'' ,$('4 .' (, -('-(' 6$', $.('-(''
,(4''.(3 ('/-('' (.''-(''4(4(''+*,$5 ('. (' (.'' '+1
9('/-(' (.'' $'/ ('*(3(''+$.(' +' (- 3+,$ *' -('' +- ('1
3(*,''7 '0(3'-(''('$+ 4('' (*'3 * (.' (,'+' +0$'/ -(''$*((''
4+.' ' 6(.8'(,'9.+0(('4+.' ' ! ' $2
('4.$2'-(' +' '3.$4$ *'/4 .' + ((/'3 4 '-('-('5 +!'
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@+ ,(#($ (/*D+ / .$2';' +'$$0'4 .' *'+*/BH' $0'4 .''$2'
$'/ (,'T' $0'4 .',. $'' $'/#.+*3'-('4 .,/4+.'+'4 ',(7'(,'
4 .' +.$'/ +E' $0'BI' ''4 .' *+*/ ' $0'4 .''$'' $'/ (,'
E' $0'4 .',. $'' $'

X # # %
.' 7 '<,- K ' 463 %+ ;/'<8' ' 9& '
< '71'J0>.' 5V1 =4.8'64 - .>4'0'55.7'>4'8 '
; & '>'<6'5.=4.5' %' >.5,7';,<7 <4.1''6.6'>.04768
9 &&' ' ' 7 ' *'+ 40%' F ';,/.'
>.'.<' '';7.68'64 - .' 'F '
&G &&' 'C' 40%' '@ '.7': ' '

& &' & ' 1,.'>.'K;0.5.<%+ 40%' ' '
G, 2 ';,/.>.'.<' '';7.68'64 - .'>.'G@ 'F '
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& &' '(,!' L(& '; >.-'<7'>.' '$($$.'
+' 40%' 5''UG'1.?1.6.<7'7 ,<>.'5'' 8 LL ' G ',?.1''
7'5 .<%
<'77,<>'<7'5'' F'1.?1.6.<7'7 ,<>.'G9 '
;,/.>.8'.7 '' G'>4' G ' ' '& ',?>1' E,5 .%
&& &&' '* &' '4' 45' 6'
,V'5%+' 40%' '07 ' ' ' G '71'J.>.'>'<6' A'
=4.55.' 5.' '<-'5' '<.'1./?5 1'' 5.'1,5.'>E>'/.8'.7'
%!1'//,<7;.54'>.'!.<J 6 a'<I'64 - .'>.6'B. 7@'F '
,?.1'';,/ =4.%
+- '' ' ' ' !' ' ' ') & & ' ' & 'C'
40%' 'F '$ '-.;'5.'0'55.7'>.6' '0,7 .16I'
$ ' '@ .7' 4<' 0'55.7' 741;I' 5.6' .@.1; ;.6'>4'
0.4<.' <J5' 6'IE.' F & ' .5'5.'<,4-.'4' ?46'
>.'71, 6''<J5' 6I', 1 &' '
?'<7,/ /.' J1'<>.6'/';:<.68'.7'4<'>-.17 66./.<7%
! & #$,% &' '4' 0,45.-'1>'>4' ;/?5.%+ 40%'E.'
' 1 ',?.1'0,4EE,<I ' ';,/.>.8'64 - .'
>.6' .7'>4'$ & ',?>1'';,/ =4.''-.;6.6'
>-.17 66./.<76%
<'77.<>'<7'5'' G'1.?1.6.<7'7 ,<>.' $); .'
'$ '
- 7 - 'HK 7= '# 3 ' ' K3 %+ 40%' ' A'
& & ',?.1''.<' '';7.68'64 -'>4': L*'
8',?.1''0,47E,<.<'C'';7.6%
& &' ' !&' 14.' '<7 '17<%+ 40%' '
$ ',& '64 - .'>.6' $ 'G ' .7'>.6'
'G
4> K ' ' K ' ' ,4-, 6%+' 40%' ' ' 1.?1.M
6.<7'7 ,<>.')@ ' ' ',?.1''0,4EE,<8'?1.;.>.'
>.6'< '$ '
&) &' 'L' & '14.'#45741.' 4<7. #'5:.1<.%+'
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+ ' '(& & '14.'>4' '58'<\ *%+ ' .67 ,4'
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+

.!-((7)' '()' /(7 ()' '(' '+ (,#'(#- ,, '
'(' .!/)
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G ' ' & ' & ' '9 '0,416' '
/67.1>'/' %%%%%' E ' '#'>@%%%%%%%%%%%%%% *' %'C
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,<>1.6% %%%%%' CC %c' -,41<.%%%%%%%%%%%%%%%% C9U
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;7%'>.6' <>.6'>.'C '5-' %' C *(' 8'* 8'*('0
,17 ,<6'>.' 9 '5-% %%%%%%%%%%%%%%%%' '
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+ ' >.' C ' / %8'>>;%' ()U' %%%%%' ''8'* 8' ''0'
>.) / 558'6'<6'0455' %%%%%%%%%%
+' 6,17.<- 'J.1%' %%%%%%%%%%%%%%%%%%%%%%%%% '08' 'T
K455.7 <6%%
;7,<<,<-%'>.6' <>.6%' %%%%%%' ' C C8 8' 8'C*8 '
#'66.'>.6;, ?7>'%%%%%%%%%%%%%')9C8'9 8'9
./ ;'66.%%%%%%%%%%%% %%%%%%%%%%%% * 8'C)8'C 8' HQ
34 77%'>.6' '4@'>.' '16' 9 8'
/?14<7'>.') ' /55 ,<68'>',#7 ()*%' %' % 6
6641%';,<71.'5.6' <;8' %' %8Y' 9()8'(*8') 8') 8')C8') 8')G
% +' ' - .% (8' 8' 8'*
#, K %' F';5'66.' ' '?%'%' '$ % 8' ' 8I8' *
+'C' ' ' '?%'08' 6<0%' '4' G% %%%') 8')C c8' E89
+')G 'U' '?%'c8' 6<0%' '4' %%%%%%%%%%%%%%%%%%%%') ' 8'1W
+'UG 'U' '?8' '640%' '4'U ' .7C'6%'?%'5 -' %' %' %' $

! b ' 'B '555 5%

D U%' ' ' ' + ' (* %' + ' <! (* ' ' ' ')

,A

>

'G & ' ' ' (' `' 1, ' .7' 5" E' / 5.' 1,V'5.' ,47 =4 77.' .' ;0 .'4' >.' H1 >K1 60.1J ?,41' '75.1' 0'0 7.1' .. 47 >.#:1 67 '<60,41J% 8 .6' -' 66.'41'>.'J4.11.'=4 ' 6,<E' .<' 1'>.'1.<71.1, ,7 1 ' ;.66' / / .<7>'<" .'?,17 ?,41' 071.'>E.'1 / >6E' (' ; '.4 'E.1" ,<' -,V'J.'>'<6' " / .1'>4' ,1>%

% % K ! %' 8

' -E ' ' ' ' CU' E5,> 8' +' .' ?1 <; .' ! '55 50 '8' .<-,V>' .@71',1> <' 1.'>.' <'?>1'71 ;.'>;' 466 "$ " 1.]4' 5.' C' >.' ;.' 4 ,6 4<.'5. 71.' .;V 5.' ?'1'5.' ?1 <;.'>.' .?< <8' .7 '?' ?,17.;'?'1' %5.' / 'Q,1'>.'B.66% 55.'.67'5 57>1'5. / .<7 >.' " 7.<.41'64 -'<7.I

! '5' 18' 5.' K',478

%' ' ' ' d0,K<.41'>.-,776' <E,1 / .1' / .<' ?1 <; .8' ?'1; .6' 5 J<.68' =4.'5.6' '17 ;5.6' ?1>5 5< <' 1.6' >.' "?' @ ,47 >>6' J<>6' .7 .;0'<J>6' >' ! '5';68' 5.' '04 5 .7 & ' '= 57P8' .<71.' <1,' .7 5.' J1'<>' 6 1% ?1>; 6> / . /' 641' 5" 0'6.'=4.' <,71.' '4J467.';<41' ' - ' 5>>;5'1>.'?'15,458; .67 > > 1.=4. "1 ' - >1.' >.' < .67.1' E,10<.1" 5" <,4-.55.'E1,<7 >1.8' E<' >.' J'J<.1'5.'7. /?6' <>; .66' 1.'?,41' ; ,<;541.'5"?' @>>E <7 -.' .<71.'5.6'>.4@ . / ?1.6'?'1'>.6' ?5>< ?,7.,7 ' 1.6' >' >.<, / ' / .18' ?,<6' '-,<6' 67 ?45>8' ,<' '77.<>'<78' .<71.' <,46' 4<' '1 / 67 ;.'>.'04 7 / , 68' .7;% Y

.6' 5.771.6'?'17 ;45 >1.6>.' '66V8' 1.E4.5' '40,41> :4 8' .@?5 =4.<7 ;.77.' ; ,<;546 ,<' >.' ?' @ '466' ';;>5.1>.'>.'5" / '< >1.' 64 -'<7.'N' W' .' C ' 04 5 .7 E47 4<.'0,41<..'E'7'5.' '4@' 466.68' =4 '?.1> 1.,7 '5,16' ?546' >.'>; @ / 55.' ; , / M <.6' ?1>6' >.' ';0V<% .' J1'<>' - 6 18' . , 1J4. 55' ?'1' ; .7 '-'<7.J.8' E7 .<' >5 J.<;.'0.7.1'>.6' ?, ,76' 64.'5.' '<40.8' 'E <>.'?,4-, 1641?1.<>1.'5.6' K466.6% #.4@ ; 8' 'V'<7 ?>' <>51>6,<'?1,0.78' E1.<74<.1.71' 7.6 / 45>.87'<>]' =4.5.41' E5.55 5.8)5'7 ,<<>.'6 1'5.' '<40.8' 1.;.-' 7 ,1>1.'> ,06.1' -.7 05 '5.6 41.68' / ' 6'>.'<.5.6'?, <7 <=4 >7.1'>'<6'5.41' ?'66'J.% ' ?. <.' '1 / >.' ,77, / '<.' .45 ;7 .'71'-.16>' 5.' E5.4-.'=4.'5.6'71,4?.6' 1466.68' . / 046=4>.6'?,41'5"?54?'178' 6.>.-.5,??>1.<7 '-.;'1'? > 7>.7 .<7,41>1.<7 5.416.<<. ' / 6% '<6;.7 <5.1-'55.8' 5" E5,77555.'1466.'0'77 70' ;,4?6>.' ;'<,<' 5.6'?, ,568' .7 1.<> 7' 7,47.' 1.71' 7.' / ?1'5 ;'05.% '1 / >.,77, / '<.'%6'<6' ,1>1.8' 6'<6'> 6; ?5 <.8' / '<=<'<7 >.' J1,66.' '17 55.1 .8' 1.6 >.' .<' ?'17 .641' '471.10-.8' .7 .<' % ?'17 .' .<J5,45 .'>'<6' 5.6' E ,76'?'1'5" >> / , 7 ,<'>.6'?,<76' >.'0'7.'4@8' 1 6=4" > >71.'E' 7.' ?1 6,<< >1.'>.'J4.11.% >' >4 50; .75.' '57.1<'7 -.' ;14. 5.8' 5.J1' ,>%- 6 11. ; ,4147.<E <' '4@' ?5' <6' ?,4-, 1'>,<7 " B'47.6.' 'V' 7 / 4<' >.?4 6' =4.5=4.6' / , 68' 5.6' .<-,V6' '4' ?1 <; .' .?< <8' .7 ; , , <7 5"?' @ '4@ ; ,<> 7 ,<6' '<7>1 .41. / .<7 ?1.6;1 7.6 ?'1' 5" ; ,41'>.' .5.160,41J% .' ; ,1>,<'>.'6, .'6.1" '??'1. / < .<7 5"1>., / ?.<6.'>.6>> / '1; :.6 <; ,<6 >>1>.6' >4' J1'<>' - 6 18% =4' <' / '<=4.'J4>1.'> ,<<. / 6>'<6' 5.'> -'<% Y

4'<' (8 +' 1,?>1'71 ;.%5 '1; : >4;' ,6.?.'.75.6' '1' ;0 >4; :.66.6' '1 . <<.8' #5> / .<5 <.' .7 / >5 .' 6, ,7 ?'17 6' ; .' / '7 <' ?,41' 1'J4.%

" > J< 7>' >.' ; '<; .5 .1'>.' 1'<6V5-'< .'">>' ; ,<E>1>.' ?'1'7 . / ?.1.41' '4' ; , / 7.'>.' .5. ; % ' / '1>;0'5 >.' .55.J1 <' .67 '5 >' .<' K, :> / .8 .7 . .67 54' =4.' . / ?.1.41' " ; :, 6' ?,41' ; : , / ?'J<.1' .7 - 6 7.1' .6 > -.16.6'E,17.1.66.6 >.' ;.'1,V'4 / .%

+' .'0'1,<' >.' ' .,0 8' / < 671.'>.' 1466.'?,41' >5.;' 7,1'7 >.'K1'<>.0,41J8' "1;^4' ,1>1.'>.'6" ; ,41>.'6.'1.<' >1.'0 1'J4.%

%% +' .' 9' ' ,E778' >.E 7 ,<' >.'K1 @.<8' 5.' ; : '? 1. ;'7:>>1'5 ">54 ?,41' ?1 <;. >->=4.' ,<' >,V.<8' .' ; , / 7.' #:'15.6' H1'<;, 6'>.' ,>1,<% ' %

$! A ' + ' < >57 ?,6 7 -. / .<7 =4.'>>E.46.6 ,<7 >7>'E' 7.6' '4@ 1>E4J >6' E1'<;' 68' >'<6' % 5.;5,1'5'>.' 1>-.68' > V E,1 / .1'>.6' ; ,1?68' .7 >.'5.41' >,<' .1'>.6' '1 / .6% .6' >1, 76' > 0,6?'7'5 5>' <.'?'1' 66.<7 ?, <7 0 >5.;7;41'>.-, 1'6 >5.<>1.'046=<. '%

<' >;1 7 >.'K14<6 [; '=4"5.' >4.'1>J<'<7 .67 >.'<,4M -.'4' >'<J.1. 6. / .<7 / '5' %

' A ?' ' + ' > .;7.41' .7 >5.;E1 ;.8' '- .; 7,47.'5"E' / 5.'> .;5,1'5.8' 6.<7 '4' ;:07.04'>.' 5< 8' , 5

7F' >1 W8' F!" '*T

56' ,<71. ; 4 5.' CU8' >'<6'5" / '75<>.8' . / ?.1.<E'\ ' ; ; ,<7' ?'J<>'>.' '1; : >4;'H1'<; , 68' .7 5.'1, '>.' 1466. 8' ' ; ; , / 1' ?'J<>' >4' ?1 <; .'1,V'50' ;.6' >.4@ / ,<'1=4.6' V' 1.65.1,<7 04 =4 '4C)%

%I' % > 17, 68' E 01.' ><' -,' >.' H1'<; .8' '11 ->' ; ' 0 .18' 6 .671.<>4' ; .' / '7 < 0 5< 8' >'<6' 4<.'>.6' - , 741.6' >.' >5; ;5.<1% + < <, / 01.'>.6' 071'<J.16=4' V 6.<7 '11 -06' ,<' "1. / '1=40' 5.' ?1 <; .'>.' '66'48' '4' 6.1- ; .'>.' 466 .8' 0;' / '1=4 6' >.'K,4 5508' .7 5.' ?1 <; .' >.' B, : . E , : .8' J,4 ' -.1<.41'>.'K1.65'4% +' <'??1.<>1" 6,46'?.4' 5.'>04,4. ' / .'7>.' ; .77.' .<71.-4.% d

%

@ '8 ' ' '1E4C(' (' ^' ' .6?.1' 6,<<.6' =4' ,<7 =4.5=4.' ; , ,<' 66'<; .'>;' 5" ?,5 7 =4.' >.' 41,?.6 ,<7 641?1 6.6' >.'1'55 '<; .'=4 6.'?1.?'1.' .<71.'5" / ' 6,<> 41 ; .' .7 <,4.' ; ,41% <' ?107.<>' =4" ; .77.' '7' 5 '<;.8' 6' .@71',1> <' 1.'?';6,<' ,??,6 7 ,<' '4@ ?1 <; ?.6' ; , ,<46' >. ' >.4@ / ' 6,<68' .7 6417,45' .=' ; .=4 .55.' .6 ' / . ' <0.' ?'1' 5.' ; ,416' / 0 <.' > 0-.<. / .476' =4' <.' . . / 05' .<7 ?, <7 '<<, <; .18' G.<' >, '?'6' / , <6' : 1.' ,EE.<6 -.' .7 >0' E.<6 -.' >'<6' 7,47.6' 5.6' 10J5.68' .5' '66, ; .1>.6' E,1; .6' ; . / / .' >.6' '/ 0 7 ,<6' 1. ,47'05.6%

W' <6,4?; ,<4' 7'>.?4 6' ,<J7. / ?6' 4<.'.75 '451.'>.'G8Q ?4 66'<; .6'>.' ; ,<-. 5.1'>.6' 0;0' J.6' ,4' >.6'?'15'J.6' =,4 ' -.'4@N' ; .6' 6,4P\; ,<6' 6.'10'5 6.<5' ?'1'5.' ?1,01>' >.' '55 ' ; .' >,<7 <,46' ?' >,46% , >' c.6' ?1 <. ?'5.6' ; ,<0. ; 741.6'=4.' ,?.<7 1.8' W7 =4.'0 ' ?4' 1. ; 4. 55 1 i%i' 0,??5>' - ; 4'5" ?' @8' > 7 >?8' .7 ?,41' " ; ,<6.1-.1' 5' 54 'E,45' 6' 6E' 1.5" 146 .' .7 E'-,1 6.1' .<' ?5,J4.'4<.'71'<=< 75 0'67'05.% #.' 6.1">,<.' 4<'>.6'17 ;5.6'>4' 71' 5.'=4.' ,<' J'1'<7 66.'0 E,' ,5,J<.'6" ; ,<67 747 ,<' <,4-.55.8' '4@ ; ,<> 7 ,<6'>.' ;0>.1' 5.6' - 55.6' >.' . ; ,1<' .5'>.' '< @ J05" 1466.8' .7 =< .<' ; ,<' 60=4.<; .' 05. ;7.41'>.' '@.' ; ; .?7.'5"64; ; .66 ,<' 0 -.<5<.55.' 0 5" .?41,<<.'>.' ,5,J<.8' '4' / ,V.< >.' 0.0''J.'>.5" 46'. . ; ,<51.' <6?' ; .' . K'1.4 :%

8W 34'<7 '4@ '471.6' 014 76' =4 ' 6.'1.?'<>.<5%556' 6,<77,47 0 E' 7 ,??,6.6 '4' 6V67. / .' ?,5 7 =4.' ' ;74.55. / .<74<' - Y J4.418' 6'- , 1' N =4.'5" 1466.' E'-,1 6.1'% 0; :'<J.'>.'5" K'-501.' ; ,<71.' 5.6' : V6' K'68' .7 =< .<' ; .77. ; ,?6 >01' ,<' 5.'?1 <; .'1,V'5'>.' 1?66.8' .<.?,46'<7 4<.'?1 <; .66.' '451 ' ;0 .<<.8' 1.;.-1'% .<' >,7 5.' 1.65.>.'5" B'47. 506 .8' .7; % ' ' 'C ' (' V$.' ?1 <; .' >.' K'>0 [055 ; '7 -.<4' >. '16, - .%

% >.' K, / 0.55.68' 'E1 10' ; ' >.% #,05.<708' J' ?'660' ?'1' ; .77.' - .?,41' '55.10' 07.160,41J%

H # %

% 4 1" ' ' < B ,1' ' , . # 06' ' K 645 J ! K%

' '8

% ! ,7J4.1.'48' 0, / / .>.5, %

' ' A AG

% K1 66,<8' ?1, ;41.41J0,01'56V<> ;> 5' >0?'17. / ,<7I' '-,<,'48' ;4 -'5.41' .<' K.'4; ,I' H10; <.8' ?1.6 >.<7 >4' > 671 ;7 >.' ,<71 .0'1>I' .7 7 >.' 55'< .4 58' / ' 1.' >.'5" - 55.'>.'K5,76 & 5' "1.7460P7 #0'0,78' - . ' 1.'.?6; ,?'57 '1' ;0' / 58' 04J.'>.'?' @ 0 0<'1 I' . / ' 71.8' '> / 5< 671'7.41' >4>0?'17. / .<7& 4-'5 ' ,0&> .S>0<7>'405.'47P ' ' '5 % .J1.68' 0 J.'4' 71 04<'5' >4' > 671 ;7 >.' .17 .6E1'V8' '<; .< <0J, ; '<7 0K5' 6'7 .;5.1.'04J.' >.' ?' @ 0 , 55.> .4%

< ' ' ' ' >' ' '

8 < , : '48' ';74.55. / .<7 >0?4700 66. / 070.'<'7 , ' '5.8' ?1.6 >.<7>4' 71 04<'5I' .;5.1;8' >.' 55.> .48' ' ; ;4 ' 6'7.41' ?405 ;I' #' 5 ,<8' J1.5E .1%

' (' ' 3' ' ' ,70.8' ^ 14 55 6' % .' =.55.EE5.<7>0?4506' 0 66. / 050.'<'7 ,<'5.%

' '

,

% K.5 <I' , 1.78 - ; . ?106 >.<7 >4' > . . ;7,51.' ' >0G ?'17. / / 7I' 4;1.4@8' '> / <5671'7.41'>,' ' >0?'17. / . '7I' H' ; : .8' 04J.' >.'?' @ 0 #:07.'4 0 .11V%I' H =4.58' ?1, ; ' ' 1.41 6V<> ;'>4' > 671 ;7 >.' , 66,<6I' ,00. ,568' .01V8' '>' / , 6 1'7.416>4' > 1.;7, 1.>.' >0?'17. / .<7I' ! '15 .18' ?10G

6 >W7 7 >77 71 0'<'5 >4 > 671 ;7 >.'# ,<.VI 2, V '7<.8 <.J, ; ' /' ' / 34.<7 <I 34 <. .7 '> / < 671'7.41'>4 > 1.;7, 1.'><>.?'17. / .<0 %8 G

! ! 8

% ! .<7V8 ?1, ;41.41 6V<> ;'>'' > 671 ;7 > 15>'<6I .0.4<.I 41?.5 <68 ?1=;41.41 %6VK> .'>4 > 671 ;7>.'K.' , J.<;VI ! .<5 8 '> / < 671'7.41 >4 >;?'17. / .<7I .46 .18 6.;1.7' 1.'>4 >.?' 17. / .<7I .0, ;>E8 '> 4 < 671'7.41 >4 >.?'1 . , .<75 ! :'4E7,<8 04J.' >.' ?' 6 > 15.'<6I B4.7 >.'H1,0.1- 55.8 >4 ; ,<645 > '> / 4 671'7 , '>4 >>?'1 7. 4. ,7%

'/ 'G

% .V1,<8 ?1 71.8 ?V, ;41;41 6V<> ;>.' ' <7 H ,41I K.<, 78 0, / 0.>.'5,'&> 55'<;0;6PI ! 1,68 : , / / .'>.'5, 8 ?1, ;41.41 6V4> ;'>.' ,41 ' ;I ! 4 7'1>8 : , / / .'>.'5, 8 ?1.M 6 >.<7 >4 >.?'17. / .<7I B.<1V8 '> / < 671'7.41'>4 >.?'17 7. / .<7I '5-'J.8 : , / / .'>.'5, '>4 > 1.;7, 1.'>4 > 671 ;7I >.' ,41 <.8 ?1.6 >.<7>.' '66. / 0 ..' . , ;5,1'5.%I . 55'1>8 '> / < 671'7.41'>4 >.?'17. / .<7I H .11.78 : , / / .'>.'5, ' .7 , 5 ; .1 / 4< ; ?'5 >.'5'' - 55.'> 41 57' ;%

' ' ;

5 % '5.<J1,68 ,5: ; .1 / 4< ; ?'5 >.' '4 : .4J.I ! 1.<.78 ?1, ;41.41 '>.'5'' ; , / / 4<.'>. ' .<; .4<.6I ,466.<8 ?1, ;41.41 6V<> ;'>4 > 671 ;7 > B'0.01,4 I 7'8 ,EE ; .1 / 4< ; ?'5 >.' 55.%

8 % .15 <8 >>?47> :

66. / 05. .'<'7 ,<'5.8 .@\?1.6 >.<7>4 71 04<'5 >4 6 @ . / . '11,<> 66. / .<7 >.' '1 6%

' ' '

% K><66.'4 5.0.4<.8 ?1. / .1 04J.' :'# : 7.'4 >4 , 18 .@ ?1.6 >.<7 >< >.?'17. / .<7I '5 / ,< >.' .7 .168 '> / < 671'7.41 >4 >.?'17. / .<7I -.1 7.'E 568 '> / < 671' 7.41>4 > 1.;7, 1.'>.' ''H.17.I 0K'1>,4 K, 6=4.7 <8 ?1, ;4 1.<1 6V<> ;'>4 > 671 ;7 >.' >.I ! 4.1 <8 / ' 1.' ' ' / .16I K'11.8 '> / < 671'7.41'>4 > 1.;7, 1.'>4 >.?'17. / .<7I 7 ;0'1>8 : , / / .'>.'5, 8 ?1, ;41.41 >.' ; , / / 4<.' '' '' H5. ; : .I H1'<; , 68 ?1, ;41. 1 6V<> ;'>4 > 671 ;7 >.' '05. 8 #0'??.8 ?1, ;41.41 >.'5'' ; , / / 4<.'>4 '<6I ,0,48 0, / / .'>.'5, 8 '> / < 671'7.41'>4 > 1.;7, 1.'>4 >.?'17. / .<78

' ' 'G2

% <7, <.' 40, 6 K.55.J'1>.8 ; , / / '<>'<75'' J'1>.' <'7 ,<'5.'> <J,45. / .I H1'<. , 6 'E'V. .61'0 .168 ?1, ;41. ,1 V<> ;'>4 > 671 ;7 >.'K'10.0 .4@I .11.' 7.0.55.8 ; , / / 66' 1.'>4 1, ' '4 71 077<' '>4 > 671 ;7 >.' '' , ; : .M E,4;'45>%

' ' ' - !F

% 4;'67.58 : , / / .'>.'5, I 4;'68 '> / < 671'7.41 '4 > 1.;7, 1.'>4 >.?'17. / .<78 : , / / .'>.5, ' ''K.77.- 55.I #:1 67 <'8 / ' 1.'>4 '-1.I / '18 : , / / .'>.' , '&>.' ,4.<E

' ' 'G * 07 ' +

' - .47 >.'6.'?'66.1 >' 4<.'6; S<. 0 .< 7,4; :'<7.% '' > 671 047 ,<>.6 ?1 @>4 ; ,55.J.''??1, ; :' 78 .77,46 5.6. 0 -.6 >.' ; .' ; ,55.J.' '-' .<7 ?1 6 .7 6 J<.' 5'' 1.6,547 ,< 64 -'<7.'N 7 4 / , / .<7 >4 >'<J.1 >.'5''?' 1 .8 .7=4'<> <,6 R1>1.6 ' <>6 ; ,41.<7 '4@ '1 / ,6 ?, 41 5'' >>E.<>1.%8 <,46=4 7 .'?,4 6 .<; ;1.8 -4 <, 1.' 'J.8 -.16.1 45 5. / .<7 <,71.' 6'<J ?,41 . 5.8 / ' 6 =4'< .<'-,46=4.'?546 > / ?'7 .<; .' >.'<,46 / ,<71.1 6.6 .<E'<768 ?.164'>.6=7 .'<,6 .74>.6 <.' ?.4-.<7.71.'?546 > J<. / .<7 ; ,41, ,<. .6 =4 .< <,46 ?1, ;41'<5 0,<<.41 >.' ; ,< 1 04.18 <,< '-.' '1J.<7 >.'<,6 ?'1.<768 / ' 6 ?'1 <,46 / . / .6 .7 >.'<,71.' J5, 1.8 ''6. ; ,41 1 >'<6 6,< 0.6, << ,71.' / .1.' ; , / / 4<.8 <,46 '-,<6 4<'< / . / .<7 ?1 6 5'' 1.6,547 ,<> '55.1 7,46 .<6. / 05.8 6 597 '?1.6 5''> 671 047 ,<>.6 J1'<>6 ?1 @8 5.6 >>?,6.1 641 '4 7.5 >.'5''?'71 .8 ?,41 .< ; ,<6';1.1 5.'?1, >4 5'' / 457 ? .. 6.6 >.E.<6.4168 .<'77.<>'<7 =4.' <,46 5.'>.-.< ,<6 <,46 / . / .6%G

#.6 > J<. '.<E'<76 >.'5''?'71 .' ,<7 1. / ?5 ' 5.41 .<J'J.M / .<7% ?1065''> 671 047 ,<8 56 6.' ,<7 1.<>46 '4 > 1.;7, 1. ><'>.?'17. / .<78 5'' ; ,41,<<.' 641 5'' 7.7. 8 5.6 ?1 @ 6,46 5. 01'68 ?1. ; .>.68 ' ; ; , / / ?'J<.68 64 - 6 ?'1 5'' / 4< ; ?'5 .8 >- ,=4.8 5.416 ?'1.<768 5.416 ; ' / '1'>.68 5'' J'1>.'<'7 ,M <'5.' .7 5'' / 46 =4.% ! % K8 L.<;.66.8 ; :'1J.'>.'6 @ ; ,<1,< <.68 .7 ?,17'<7 5''?'1,5.' '4 EE, / '>.'6.6 ; , / ?'J<,<6 >. 4 >.68 ''> 7 '-.'4<.'<,05.' .7 7,4; :'<7.'6 / ?5 ; 7.'N W ,46

-.<,46 ,EE1 1 :'5''?'71 .' <,71.'?1. / .1 >,<I .7 <> 1.'0, . .<; .' / , / .<7 1.?,<> >.' ; .55.'=4.'<,46 '41,<6 4<0,41 : 54 'E' 1.' >.'?546 J1'<>6 6' ;1 E ; .6%%%% \% 4 6 5 '' '0,47.' '-. ; #.7 ' ; ; .<7=4'< '??'15 .<7 =4 :' : , / / .' 5 01.N <: ' 6'1>' : .41.4@ / '' ?5' ; ' : '' 7.7.' >.' / .6 ; ' / '1'>.6 ?,41 ,EE1 1 '' / ,<?'V6 / ,< ?1. / .1 0 .<I ?4 66. 0.8 '-.' J.8 : 1.'?5' ; '>.' / . / .5,16=4 5 E'4>1'' -.16.1 <,71.'6'<J ?,41 54 55%%%% G .6 . . -.6 ,<7 E' 7 5.41 ,5E1'<>.'7,41 :'7,41I 5 6.1' 7 71,?5,<J >.'1'??,17.1 7,46 5.6 >.7' 56 >.' ; .7 ' ;7.'>. ?'71 ,5 6 / .% .' - ; . ?1.6 >.<7 >4 > 1. ;7, 1.8 % <'1>8 .<E.5 ; 7'<7 ; .6 0.4<.6 J.<68 5.41 '' ?'1 .'> J<. / .<7 >.'5'' ; ,<67 747 .< .7 >.6 / ,& E6 =4 56 >, -.<7 '- , 1 >.' ' / .18 <.'1.J'1>'<75.41 ?1. / .1 >,<=4.' ; , / / .'4< .<J'J. / .<7 >.'6.' 1.<>1.'4< 0,41 > J<.6 > .55.%% ?1 6 '-, 1 ?1.7.'5. 6.1 / .<7 > .71.' '' 0 / ' 6E >05.6 '' 5''?'71 .' .7 >.' / ,41 1 ?,41 . 5.8 56 ,<7 >. / '<>.' '' >.?,6.1 5.41 ?1. / .1.' ; ,41,<<. 641 5.' 0467.'>.' 1'0. '4I .78 ; .'0465.' '??,17.' .<71 , / ?0.8 4< > .4@ >7'<7 >.'>.6646 6,<E1,<7 6'' ; ,41,<<.' >. 5'41 .18 '' > 7 > '<.'-, @ >;5'5'<7.N - 4 <, / '>.'7,46 / .6 ; ' / '1'>.68 0.' ; ,<6';1.' ; .77.' ; ,41,<<.' '4 ?1. / .1 ,1 7.41 >.'5'' H1'<; .'5 01. %%%%% Y .<70,46 '6 / .'5.'?546 7,4 .E''<76 .67 . / ?'1.'>.'7?465.6 6?. ;5'7.416I 5.6 ' , / 6 6 >,<@ >.' '') & ! .7' .<7 >'<67,46 5.6 ; ,.416 .7 641 7,47.6 5.6 9-1.6I ; : '=4.'>5 -.'6 .67 ?19; ? 5.' -.16 5.'0467.'?,41 V E' 1.'7,4; : .1 6'' ; ,41,<<.' I >' ; .4@ '6?. ;7 =4 ' , E1' 7 7,46 5.6 'J.61.<>'<7 : , / / 'J.'0 5'' / ' / , 1.'> 4< J1'<>: , / / .' ' : ' '=4 '6'57 ; .'=4.'?.'7 ?1, >4 1.'641 >.'0.4<.6 ' / .6 4< ?'1.> / , / .<7G .7=4.55.6 1.66,4 ..6 5 ?.<7 ?1 ?'1.1 4< 0, 41 '' 5''?'71 .' %%%%%

,

& A +$ ' +0(3 ' .4.$'(/ *'$(./ -+*'0 , .(.+44 . ' ' .' +' .'(/$ 4.$ (-+*'' 'F '*!' / 5 (& 3(,,(%& . * .' -(''' , . 4('' #.+**+$'(' ' 5 $'(*' (4+.(.(*,' +0(3 & , '' ('' + 6(.'' (,'3(, ,($3(*3(' -(' , . 3,$0('5 $ +33 ! & 4+9*(, ('' 3 *5 -,(' ' : ''$9* .('' '+*'' - ,(/ *1 '$(./ 5 (A(9(*(.+'5 $ 3 , 6 **(.' -(('' 3 *- $.(+' +' 0$3, $.((%,+$, ' (' +.(36+' -(+*'/ ($*((*,' -$',$*1 9 (4+.' + ' + .'4 .' +' ',$3((,' 4+.' (' +$*,$(*' - '' ,. 4('' -+*'' +' 4 '' (2+3,(-$'3$4 *(' ''$ +0+.(-('' ,.(! '.'' -(,+,'5 (- ' '+*9 -(''0+$*5 (.'' (,' -(''0+ *3 '/ $' '*, -.$,(.' %(',$ ((,/ '((-$.(/ (.('4(3,' -('' *'' (, -('' + .(' / & A(- $ / *'$(./ +' +' ($.(-% * 4).(-(*(4+'' +$''(.' -+*'' (0.(.' $$ ' * (9+.-' (''4(.' **(''+ 25 (('' +' .(* ((* + 4+' (#+$.(3 **+, .(A +$ 6 **(.' -(0 '' 4.(0(*$.' 5 ((.(*-.+$ 3(, ,(A(, .(' 4) $5 (4+.' +' 0 $(-('' (.*+ 2' & ' ' & ' *-(& - =

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9 '9+ $*/ *+,$0(- $# .-/ +, , .(''(-(+*9 (+*9 +$'(/ 4.(0$(*,' (''4(.' **(''5 $ -('$.(. ,' 4.(*-.(-('('' (5 *'' 5 ('+ -((.((', ' . (+$*,(! 8/ * ! / + ' , . $'$((/ 4.,'' +' 4 . ,(+$*,! (*$ / ,$ +.$' V' +' 3$(,(-('' $'' -(+' *',$, ,$ */ '-+*,' + +./ --4+.,((*,' - '@+ ,! 6$*' / *(.(3(0.+' 4 '/ +' 3 4,(.' - ' A ' '(4,( ).(4. 36+$* / + 3 * 4+5 (,' *$ (, , .(/ +' $*'' 5 $ '' *(' ' $(*,' +##.+*36$' ' '' $ ((23(4,(3(4(* -+*,' ('' (, , .('' '$ 4 (''5 $ 4 . . +$(,' $ - $.(+-.(''((f/4+.' (+' 3$(, ('' -('' 36(#'! $(2 -('' -(4+.,(*,'

'' /

' '' '

8 ' 'F '

' '' #$ '' ' ' ' ' A

<>.' % 5.6 6..1>7' 1.6 E '5.;741.'>.6 >1.66.6% +' % K,4E55.16 ?1>6.<7.8 '4<, / ' >4 ; , / 5.'> 'J1 ;45 541.' .7 >.' ; , / / .1 ; .8 4< ?1,0.7 >.'>>.1.7 1.5'5 E '4@ 1>G ; , / ?.<6.6 >.67 <>.6 .<; ,41'J. / .<7 >.6 '176 47 5.6% ?1. / .1 5 71.'>.' ; .%?1,0.7 .67 '>,? > ' <6 '=77 5 6 4 7N

' ' '

W 6%6. / 05>.'<'7 ,<'5.8 ,4 '5.'1'??,17 > .6 ,< ; , / 7 > 'J1 ;45741.' .7 >.' ; , / / .1 ; .8 >>.1E.7.' ; .'=4 '64 71 W <% F% 41 5.'E,<>6 >.'C / 55 ,<68 >;6 <>8 ?'1 5. >7,1.7 >4 ' ', :7 * ' :'> 1.' '<4'.55. / .<7 .1,?5,V>

>'<6ꞵ&11'7 ;'7 ,<6 .7 / ;,41'J. / .<76?,41'5.6>>.,4-.7' 7.6475.6ꞵ 76.1">671 04 6.5,,'5.<,>.';G'?17.'> .1/ <>ꞵ >.6 J1'7 E ;'7 ,<6 .7 6.;,4 6'<@'17 67.6&&4 ꞵ?'1'7.'16'71'' 5'4@ꞵ5.416 1.;0.1;:.6 .7 7.'16>>;,41.17.6ꞵ'41,<7 />1 7> >'-, 1'?'17'4@1>;,/?.<6.6<'7,''5.6%

7'5% .6>7.61>;,/?.,6.66.1,<7';;,1>>.6>"?1>65.6 <M 6714;7 ,<6 # (>.6641'5.6>EE> 56'17 67.6?'1'5.6>1.;' 7, 1.6>.'5.416>.?'17. /.,6ꞵ.P647.'>.6'77.67'7 ,<6>.6 >671 ;76.7>.6;.17 E ;'76>.'7.'16 /4<;?'5 5>6%

;55 645K1";?.<>'<7 ';.6 '17 67.6>4<;.17 5;'7>.6 ;,176'>/< 71'5 6>.'5.41'>,/;5.'';74.5ꞵ5,16=4.;.6 ;,1766.71,41.1,<764EE 6' / /.<7 ,6714 76ꞵ?,41'5.'5.41>>' 5 -1.1%

W % .671'1'4@?,415.6=4.56 7 ?,411" 1.'';;,1>> >.61>;,EE5?.,6.6<'7,<'5.6 6.1,<7>-6>6 .<>.4@;5'66.6 ?14;?'5.61';.4@=4',<7?4 .@J.1>.6 6';1E;.6ꞵ>.'=4.5' =4.'J.<1.'=4.';.'6, 7ꞵ .7;.4@=4 '?'1'5.41'<'741.ꞵ<.< .@J.<7?, <7%

W '<65.61>;,/?.<6.6'EE>;7>.6>;0';4<.'>.';.6;5'66.6ꞵ 5 6.1">7'05'71, 6>.J1>6 6,46 5.6 <,1,6>.' # '??5;'05.6 .<?1,?,17 ,< >4 />1 7.' >.6 ,0Q.76ꞵ>'?1>6 '-6 /,7 1>>4<041.'4>.';,<6457'M 7,<?,41'5.6'176ꞵ=4'6.1">7'05 77;.7. .7> '1 6ꞵ.5>,<7 5";,/?,6 7 ,<6.1">>7.1/ <>.'>'<65.'7 71.' '>4'?1.6.<7 >>;1.7%

7' / .>4/'6.1">4< =4'17ꞵ .7 5.' '>4<.' /,7 .'.4646'>4'

7' '<6 5" ?1. / >1.';5'66.ꞵ5.' '6.1">.'U7> E' 5-1.6I'5.' *>.' ꞵ 1.6ꞵ .7 5.' '>. 9% '5-1.6ꞵ

& '<6 5" 6.;,<>.';5'66.ꞵP.' '6.1">.'C8 ' 5-1.6I'5.' '>.'C8 5-1.6ꞵ .7 5.' '>.)% '5-1.6%

$ #.4@>.6 '17 67.6=4''41,<7?'66> J.'>.'6, @'<7.' '<6 ,07 .<>1,<7ꞵ .<'646>.5'1>;,/?.<6.'=4'5.41''41">7>'' 5@>.ꞵ4'<.'6, / /.'>J'5.''<' '>.'5.41';5'66.%

$ % <>>?.<>'/ /.<7>.';.6 >.4@;5'66.6ꞵ 5'?,411" >71.'';;,1>>'>.6 J1'7 E ;'7 ,<6?'17;4 >1.6'4@'17 67.6 4' &#J.<76>,<7 5.67'5.<76'41,<7>>'1.;,<<46?'1'>.6'??1,M 0'7,<6>.';,1?6 6'-'<76ꞵ .7>,<7 0,<,1'05.'?'4-1.7>'6.1" ;.17 E>.'?'1'5.6;,176'>/< 671'7 E6%

$.' '>.'.16 J1'7 E ;'7 ,<6 6.1">.'C '5 71.6I' '?_['5 71.6I'5.' '>.' '5 71.6%

$ #.4@>.';.6 '17 67.6 1>.,1,?.<6>6=4' '41,<7?'66.' 1,J.'>.'6, @'<7.''<6 ,07 .<>1,<7ꞵ;,<#01/>/.<7 0 '17' ;5.' ꞵ4<.'6, / /.'>J'5.''4' '5.41';5'66.%

W % <7,1 6.'<>'4/,<6 66./05>.'<'7,<'7.'7.' /' < 671.'>.' <7>1 .41'0 54'?1,?,6.1'>.6>./'< .61.5'7-.6 '4@>>;,77-.17.6>4<.' /?,17'<;.' /'Q.41.'E':.6>'<6 7.' 1,V'4/.ꞵ ,4 /?,17>.6>.6?'V6>71'<cl.16ꞵ5.6 4.57.6>>' # 4-.1.6ꞵ>5',7>4.6 0>.671'-'4@?><05.6 ,4 0>.6-,V'M J.65,<J6 .7?>1 55.4@ꞵ?,411' .<7 />1 7.1'4<64??5>/.47 ?4@1>;,/?.<6.6>.'5" ?1. / >1.';5'66.%

W % '17 .'>.6 / > / .6 ,4>6?,411"'466 >71.. /?5,V>.ꞵ 641'5">./'<>.'>.6>1.;5, 1.6>.'>>?'17./.<76ꞵ6, 7 0'5" ?405;'7,<>,4-1'J.6=4''41' .<7>7> Q4J>6'7c.6 '4@ & '>.6 '176ꞵ6, 5 .<.@?>1.<;.6ꞵ;66'6 .5;,<6714;M 7,<>.'/,>>.6ꞵ ,4'/>/.'>.' /';;.<6>,<7 5.6'-'<5'J.6 .7 "?,66 0 5 7>6.1' .<7->1E>6?'1'5.'041.'4>.';,<6457'M 7,<ꞵ/'6>,<7 5.6 E1' 6 .@.>>.1' .<7>6E';4 7>6>.'5.[6 '47.416%

'$ % 5 6.1"?405>7,<6 5.6 '<6ꞵ?'1'5"-, .>.' /' ?1.66 ,<ꞵ4<>7'7<,/<'7E>.6'17567.6=4 ꞵ%>'<6 5.;,416 >.' '< >.ꞵ '41,<7 ,07.<4>.6 1>;,/?.<6.6 <'7,<'7.6ꞵ '-.;'7.';,/?7.'J><>1'5>.6 6, / /.6 ./?5,V>.6 0;.6 1>M ;,/?.<6.6ꞵ '<6'=4 '4@'?405;'7 ,<6>,4-1'J.6 .7'4@ E1' 6>.@?>1.<;.6 .7>.';,<6714;7 ,<6 ,1>,<<>6?'1'5.' /' <651.'>.' <7>1 .41ꞵ>'?1>6 5.6'-6>4 041.'4>.';,<645M 7'7,<%

$ % .6?.<6 ,<6 '6641.6ꞵ?'1'4<01.-.7 6 J<>>4' 1, ꞵ'<@'17 67.6=4 ꞵ0;.'?1@ꞵ,<7;>.-'<7.>>>0 5'7 5.416 <-.<7,<6ꞵ>>;,4-.17.6 ,4 /?,17'7,<6ꞵ>J'5./.<7 ;,<67'7>.6ꞵ 6.1,<7 1.J'1>>.6;,/ /.'E'6'<7?'17.'>.'5" >.57.'?405=4.ꞵ .7 .<;,<6>=4.<;.1.<-,V>.605'5=4>"7,<%

W "% .6 '17 67.6'-.;'5.6=4.6 '>/< 671'7,<>4;,/M /.1;.'";>.-'<7;,<71'.7>>.6 .<J'J./.<76;,<>7 ,<<.56ꞵ .7=4'Q467 E .1,<7'-, 16'7 6E'7',@'1,<>5 ,<6 67 ?45>.686.M 1,<7 '466' 1.J'1>>6;,/ /.';1>'<;.16>.' '7?,41'5.6 6, / /.6=4'<.'5.41''41' .<7?,<7.<;,1.'>>?'V>.6ꞵ .7 .<;.77.'=4'5 5>1.<-,V>6 0 7"5=4>'7,<%

& " % .6 '17 67.6>,67 5.6 /'.0<.6ꞵ/?,17>.6>.5>$' 71'<J.1',<<,4-.55. / .<7;,<6714 7.6ꞵ>'?1>6 5">./'<>.' >.' '>/< 671'7,<>4;,//.1;.ꞵ '41' .?7>7>>>714 5.6 5,16>.671,405.6?,?45'1.6 641V.<46 .<=4.5=4.6?'17 .6 >4'1,V'4/.ꞵ 6.1,<7 4>./<6>6>.'5.416?.17.6ꞵ 641'4<.' '77.67'7,<>.6;,1?6'>/< 671'7E6>.6>765 .4@ꞵ05'=4. 5.' >.-1">71.'Q, ,7.'4 E.'.-'54'7 ,<EJ 7.'?'1'>.6 0, / /.6 0;#' ;,<<'66'<7I';.6'77.67'7,<6 7 .<>1 7 5 .4 >.'5 71.6ꞵ#7 6.1,<;,1</.7.56 1..<6 05"5=4>'7,<%G

58.'6.;,<>'7 71.ꞵ 1.5'7 E0'5";,/?,6 7 ,< .7'4@E,<;' 5 ,<6>4'041.'4>.';,<6457'7 ,<?,41'5.6'176.7 1,>7 .16ꞵ .67'Q,<1<>Q<6=4 '?1> '5.'1'??,17 6415. '0'6.6>.' >>4;'' 5 ,<?405=4.%

+' 1, 6>>?47>6-'4.5467.<6 6,<7'>/ 6 0 5"0=11.ꞵ ,E5 76 6.'?1>6.<7.<7'4'<,/'>.6 7'76 4<6> - 4,<.7>" #,/7'7%

' ' ' '% 0,1</'J.'=4.'5.'?.<?5.' -'4;546 .<1.<>0 -,71.' 1'/,17-55.;,<67 747 ,<ꞵ 7.'71' 047>.'1.;,<<'66'<;.'=4 5 -.<7?,17.1'0 -,60 .<E'76 6' J<'5>6ꞵ6.1,<76'<6>,45.';0.16 0 -,6;,.416' <7>1>7= > -,46 <'-.J;.66>>.'?1.<>1.'0<, 1.'6,17<,46 .67 <6 7.' J'1'<7=4.'<,46 6.1,46 0;;4. 55 6?'1'-,46'-.;' ./?1.6' 6. / .<7 .7 5" J.<>1,6 5> =4';'1 .7>1 6.<7 5"<'7 ,<>,<7 -,46>.6 5.6>J4.6 1.?1 .<7'<76% ,46 6.1.6 E'77>6 >4' 6>7.'=4.' '<,46'-.0 1,46 /><.6 <6?1>ꞵ .7>.6 .5 ,176 =4.'<,46'-,<6E'56;,<51.'<,6 .<<. /E6;4/ /4<6%

,46'-.0'??1 6 0 4<-.16=4.'7,46 5.6?,4-, 16=4'<.' 6,<7?'6>.6>>5>J'7 ,<6><'?.4c\5.'6,<7>.6 4641?'7,<6ꞵ .7 =4.' .6;,/ /.6=4''-;<7 6,46>.' 6. /07'05.6 '47,1 7>6 --.<7?1->6>.' .@.1;..'>.'5.[6 >1, 76 4'741.56ꞵ;5'6,<7 J<,EE5<.46./.<7 '66.1-6 '4@5, 6>.67V1'<6% "->1 5> >.';.'?1<;?.'" >.00 1.7.<7';:.0 7,47.6 5.6<'7 ,<6ꞵ .7 0 .<7> 4<7. 6 -,46>.-1"6"5 0.17>%

5';.6 '4 6.<>.' ./?1.'E1'<?'6ꞵ<,46'-,<6>7>E1'?' ?>6 5.6?1./ .16?'1'5.6';;.<76>.'5"7 0.1>I;,410>6 6,46 5.'>.6?,7 6/.' .76,46 5.'Q,4J 6';.1>,7'5ꞵ<,46<,46 6, /' <7.6 5.->6ꞵ .7ꞵ 0 -,71>.@./?5.ꞵ<,46' ,<6 01 6>'<,6;:'7' <.6N<,46 6, / /.6>.-.<46 E 01.6>.?4 6 =4.'<,46'-,<6 -,454'>.-.<1'H@'<;'6%

-'<7>.@?,6.1'5.6 E 76ꞵ<,46'5.<6>1,'46' /,7>." ?1<;5?.6=4',<7>1 J>'<,71.';,<>4 7.I 6 6,<7;,<7.<46 7,<6>'<6;.77.'5, '6405 /.'=4'"1.<>4'0 7" <'7 ,< E1'<' #'6.'6">J< 7>ꞵ>'<6 5" >;5'1'7 ,<>.6 1, 76% #.4@=4' ?1>.4>1' .<7=4.'<,46<'-,<6?4' .0'<J.1'<,71.'J,4-.E' <./.<7ꞵ .7=4.' ,/.'">.6>1<76641'<,6?.16,<<.6 .7641' 5.'7.11#, 1.'=4.'<,46 0'0 7,<6ꞵ;.4@50>>.: 1.1' .<7>,<.' /'< 6';1 5 .'5.'5-1.'6'.1>>.'-,71.';,<67 747 ,<% '<.' 6'J 7>,<.'?546>.'6'-, 1'6'5.6 '4.5467.<6 ,<7?4'0 ,($.' 6.1>4<10 5" <'7 ,< E1'<J'6.ꞵ /'66 56 ,<71..55. / .,7 -,454ꞵ.76 5.67>.'5"Q467;.'.7>.5 <7>1>7>;5"H1'<;.'&E';% ;.?7.1';.77.'1>4< ,<% 5 64EE1">.'-,46 E'1.';,<<'71.'=4.' 5.'-,.4>.6;,/ /4<.6 .67?1,<,<.>5 01./.<7ꞵ .7=4.'5.6 ?.16>.47 ,<6ꞵ=4.'5" J4.11.'=4.'5.6.<<;/6>.'5'5 0;170 ,<7-,4<%.@;5.1ꞵ<,<7?45.'>>71<1.%

"-55.'> -J<,<5"?1. / >1.%"-,454-,65, 6I'5"?Y' />1.'.55.'"-,4546.6.4671'1.'4'J.4-#1<./.<76';.1>,7'5 .7 '4@E41.416>4'>.6?,7 6/.% ' /,41>.'5"5 0.17;ꞵ .@>' ;1'7,<>.67V1'<6?><>71>1.<7 0 .<7>7>'<6 5.'#, /7'7% < /5 .4>.';.6'J 7'7 ,<6ꞵ,<>./'<>"5";,<67 747 ,<E1'<' ='6.N5"E';7,<>.' ,/.'E. J< 7'466'>.' '>,?7.1I' /'6 .55.'647 V /.771.'>.6 /,>E;'7,<6ꞵ .7<.<?1>6.<"'< ?.4?5.'=4.'>.65'/0.'4@%K.<7>7ꞵ?,41'>7,<E1.1'5"5 0.17> 4'66'<7.ꞵ ,<;:.1.0" >.6-;7 /.6I'>.6?'51 ,7.6 E41.<7 / /,5>6 0 5"E41.41'>4'J,<-./ /.<7I'?546 .416>?>1 1.07 /'17V16>.'-,71.';,<67 747 ,<% #.67 '<6'=4.'?546 .416 -55.6ꞵ'?1>6 '-, 1''10,1.'>4<;,/ /'<';;,1>5.6'1 /.6 >.'H1'<;.ꞵE41.<7 ,<-';.6?'1'7.6 6,5>'76>4'>.6?,7 6/.ꞵ =4'64067 74>1.<7 5"7'1.'4'6 J,.'>.' "550.17#I5.6 7'0 % 7'<76>.'#'-'55,<E41.<7'66'55 6 0;,4?6>.'E46 5ꞵE,1.>6 >.'6.'1.7 1.1' .<1'6.';'/?'J<.ꞵ?,41;'66#6>.'',4-.077 '-.;'7.'16E./ /.6.75. 16.<E'<76 Q46= 0 -J<,4ꞵ .7 1>% >4 56 0 6.';';0.1'>'<67.6E,1076?,41'6.6,4671'1.'4@?.1G 6>.47 ,<6%

#.77.'6..,466.ꞵ .<01 6'<7 5.6E.16>.6#, /7'><6ꞵ1' /' ?7 7,46 5.6 5 .<6>.'5" 6,;>7.ꞵ .7 '66" 5.'#, /7'76'<6 5, 6ꞵ6'<6 /,<'1=4.ꞵ6'<6'>/ , 651'7.416I'5.6 .# / /4<.6 6.'6>?'101.<'>.'1'J1>J'7 ,< J><>1'7.ꞵ .7E,1/>1.4'>.6 6,;.7.6 6,5>.6I'5.'?.,?5.' .@.1J'7 54 />/.'6"6,4-.1'5' <.7>ꞵ ,4ꞵ?,41' / .4@>1.ꞵ;.';4< .< .<-';66'7 7.6 >1, 76ꞵ .-.<4.64<?.4?5.'*(#/> .60(*+.(*,,,*$.'7.'1

[illegible]

[illegible]

,? '7 ,<6 ><J,4-. / .74.<7I ,< ; , / / .<7 '' 6 .<
;1, 1. ;'?'05.
#'5,<<. <. ; :.1;0''?, <7 2 > 4 6.1 '< <,7'M
05.6 5'' 6 74'7 ,< J <>1' . > .6 'E ' 1.6 5 1.<> 5 4<
; , / ?7. > ,0 5 1. 6457' 7 >- >. / / .<7 =4. 5.6 1.-.<46
>. K7'7 <. ?,4-' .<7 64E7 1.87 ''?'V.1 9 <5 55 ,<6
.<- 1,< >. 6.6 ; :'1J.6 '<<4.57.68 <7 ''E' 1.8 ; :'=4.
'<<..8 C / 55 ,<6 >.1. / 0, '16. / .<7 6?5.<<.55. / .<7
?1, / 6 ,41 V 640-.< 18 5 ?1,?,6' 7 4< 6V67. / .
<,4-.'4 > / ?,6 7 ,< =4 8 64 -'<7 54 8 >.-' 7 6,4
Q'J.1 5. ?.4?5. ?'1 '0,5 ,< >. 7,46 5.6 ?1 - 5.J.68
;7 '>,4; 66. / .<7 >4 1.J / . >.6 / ?>76 5.6 ?546
-.@'7, 1.6 55\?1,?,6' 7 >.6 . / ?14<76 ''7;1 / .6 ?546
. , J<.6 =4. ; .4@ =4 .@ 67' .<78 ?,41 > / <4.1 5''
/ '66. >.6 1. / 0,416. / .<76 '<<4.56 < > 66.176 641
; :'=4. ?'17 . >. 6,< ?5'<8 / '76 <71 J4. - <7 0 .<
7 7 6. / .7.1 ''>W 6 J1'<>6 <7>1.76 .7 5.6 7 ,405 .1
. / < 671. ; :'<J.6I 5.6 <,7'05.6 6. 6.?'1.1.<7 6'<6
'-, 1 1 .< ; ,<;54 N 5. 71. 6,1 ?405 ; >. / .41'' ; :'1J.
> 4<>.E ; 7 ; ,<<4 >. / 55 ,<68 ;7 5. <,4-.'4
/ < 671. .66'V'' 54 6.45 ; . =4. 6,< ?1.>.;.66.41
< '-' 7 ?4 E' 1. '-.; 5.6 6.;,<16 >,<7 5 6 .7' 7 .<- M
1,<<.
d .? 6 ?1.66> (,+$, >. 1. / ?5 1 5. - >. ';7<.5 >4
71.6,1 ?445 ; '1; :.-.=4. >. .<6 V ?'1- <7
'-.; 5'' / .7;,>. >. 6.6 ?1.>.;.66.416 < . / ?14<7
- 'J.1 >. 9 / 55 ,<6 64 - 7 >. ?1.6 6,< .<71. '4
/ < 67.1.N 5''64??1.66 ,< > '<; .<6 ; ,1?6 >. 5'' / '
,< >4 1, 8 5.6 1. ,1 / .6 >. 5''J.<>'1 / .1 .8 ; .55.6 >.
=4.5=4.6 ; :'1J.6 <47 5.68 5 0,5 7 ,< >.6 ; ,<71.
6. <J6 '046 E6 <> = .1.<7 >4 / , <6 >.6 <7.<7 ,<6
6'J.6 5 -,4547 .<64 7.8 ; , / / . #'5,<<.8 7'05 1
5. 7 / 01. .7 5'' 40-.<7 ,< 7.11 7,1 '5.8 .7 ?1,1,J.''
.< / 9 / . 7. / ?6 . - <J7 / . =4 .@? 1' 7 5 E47
'11 7. '<; .<<. 7,1 / 45. >. ;<1.J 671. / .<7 54
,??,6''4:. 0'11 1. <- <; 05. 6 .< - .<J.''641 5.
?'15. / .<7 >. '1 6 .< .@ 5'<7 '' 1,V.68 .7 ?'1''; '
; , / / ,>. / .<7 .<64 7. 5 6. ; ,<7.<7'8 .< 5. 1'??.
5'<78 >. 5'' ?1,5,<J'7 ,'>4 - <J7 . / .I ?.4 >. 7. / ?6
'?1 5 E 7 .66' > 4< <,4-.5 '0,<<. / .<7 '-.; 5.6
'66. / 05 .6 ?1,- <; '5.6 =4 5 -.<' 7 > 7'05 1I / ' 6
7,4716 ; .6 7.<7'7 -.6 <714;74.46.68 6'<6 ' / 5 ,1.1
6'' ?,6 7 ,<8 E' 6' .<7 >. ?546 .< ?546 6.<7 15'' ` '
05.66.>4 J,4-.1<. / .<7 ?1.67'<7> . 6' 6 <47 5.68
5 '>,?76 4< ?5'< .<7 .1. / .<7 E,<> 641 5. ;1.> 7 =4
< .@ 67' 7 ?'6 ; .77. 0'6. ?1.6 =4 = / '<=4' 78;.
?5'< 7' 7 '66.06 / ?5.
0.6 1. / 0,416. / .<76 ''7.1 / . '4J / .<7' .<78 ; , / M
/ . ,< '' -4 8 >. C / 55 ,<6 .<- 1,< 5' 6, / / . >66
.<J'J. / .<76 '<<4.56I / ' 6 '4 0,47 >. ; <= '<6
; .77. 6, / / . >.-' 7 > / <4.1 7,47 '' ; ,4? >. / , 7 8
.7 6. 1.>4 1.8 ?.4 >. 7. / ?6 '?1 68 '' ,4 C / 5M
5 ,<6 < . / ?14<7 =4 8 ?.<>'<7 ; .6 ; <= '<< .68 '4
1' 7 E,41< 5.66, / / .6 <.;.66' 1.6 7'7 7 '4@ 1. / 0,41M
6. / .<76 =4 '4@ <7.1 768 =4 .< < .7' 7 ?'6 .< 7'7
> ';=4 57.18 '41' 7 ?'1. '4 / '5 ?1.6.<7 <7 1 7 >.
. / ?14<76 '41' 7 ?4 71. ; / ?.<6 ?'1 >. <,4
-.'4@ 1.71'<; : . / .<76 641 5.6 > ?.<6.6I 5. >.E ; 7 6.
6.1' 7 71,4-. > / <4 >. <7 1 7 >.6 6, / / .6 1. /
0,416..68 .78 E' 6'<7 .6? 1.1 ''5''<'7 ,< 5'' ; ,<-, ;'M
7 ,<> 7'56 J.<.1'4@8 >,<7 5. > 6 1. ;5'7' 7 >. 7,47.6
?'1768 ,< '41' 7 ?4 E' 1. '>,?7.1 >. <,4-.55.6 / .64
1.6 >. E <'<; .6I ,< '41' 7 ?4 1. / .751. 5''1.; .77. '4
< -.'4 >. 5''>.?.<6.8 .7 ,< '41' 7 .<E <71,4-> >.6
?1.7.@7.6 ?,41 <. ?'61'66. / 05.1 ; .6 .7'76
''7,7'5 7. >.6 . / ?14<76 ?1,Q.7.6 ?'1 '1; : .
-J=4. >. .<6 5.-' 7 ''U9 / 55 ,<68 ?'17'J.6 .<
?546 .416 '<<..6 #.54 >. 5'' ?1. / .1. .7' 7 `` C
/ 55 ,<6I ,< '-' 5 5. ;0, @ >. ?5'; .1 .< 1.<7.6 ?.1
?.74. 5.6,4 .< 1.<7.6 - 'J.1.6 #.55.6 ; 7' .<7 E,17
'-'<7'J.46.6N ,< 5.6 '-' 5 ; '5;45>.6641 5. ? .> >.
?,41 . 1, 6. 1.<> 7 .< ?.16,<<. '4 ?'15.M
/ .<7 ?,41 E' 1. .<1.J 671.1 6,< .> 7 . ?'15. / .<7
6;'>>;5'1'' <; , / ?.7.<7 ?,41 '; ; ,1>.1 >.6 . / ?14<76

.7 >.6 / ? 76 ?1,5;67'' ; ,<71. 1.41.J 671; / .<7
E,1;.8 .7 ;.?.<>'<7 . / ?14<7 E47 1. / ?5
. / < 671. - 70 .<=4 '' '-.< 1 5 6.1' 7 7,<Q,416
'11.7. >'<6 6.6 ?1,Q.76 K.6,54 > . ;'17.1 7,47.6 5.6
1.6 67'<; .68 5 ; ,<J47 5. ?5'< >. 5'' ; ,41 ? .< .1.
.7' 7'<.'<7 15.6 ?'15. / .<76 6 .7' .<7; : .16'5,16
''5''H1'<; .I ; .7' 7 5. 6.45 E1. < =4 ?47 5.
>.6? 7 6 / . / < 67.1 .5 . / / . Q,418 ''5'' / / .
: . 1.8>.6?,17.416 > ,1>1.6>4 1, E 1.<7 .<1.J 671.1
>'<65,47 5. 1,V'4 / . 5.6 .> 76 =4. 5. 1, .< ?.16,<<.
E' 6' 7 ?405 .1 '' .16' 55.68 >'<64< 5 7 >. Q467 ; .
; ,<67.1<'7 ,< E47 J1'<>.8 <> J<'7 ,< J.<.1'5. 54
64; ; .>' .6 ,1>1.6 >. 1 J4.418 '??'1. 5 / 5 7' 1.
>.?5,V>6 ''5''E, 6 ?'17,478 <. 6.1- 1.<7 =4 '' J1 1 .6
.6?1 76 . '4?0 <. 6 '66. / 05'8 6. E 7 . ; ,47.18 .7 5''
<'7 ,< ; ,1' / .<J'' '' ; ,<<'571. .7'' .66'V.1 6.6 E,1;.6
'1; : .-5=4. >. .<6 '-' 5 ?1 6 .<J'J. / .<5 >.
1.<>1. ?405 ; ; :'=4. '<<.. 5. ; , / ?7. >.6 1.-.<46
.7 >.6 >.?.<6.6 >. 7'7I 5 '-' 5 7.<4 ?'1,5. 4
; , / / .<; . / .<7 >. ( ) ; . ; , / ?7. '-' 5 ?'14 >'<6
4<. E,1 / . '47:.<7 =4. ,< 1.6457'78 .< / .77'<7 >.
;>7. 5.6 1. / 0,416. / .<768 ?1 6.<7' 7 4< >.E ; 7 >. U
/ 55 ,<68 .7 4<. '64 7. > ; ,<, / .6 = >.-' .<7 .<
?.4 > '<<. .6 5. E' 1. > 6?'1' 71. .6 0.6, 46 >. 5''
?156.<7.'<<5.8; :'1J5.> .<,1 / .61. / 0,416. / .<568
V 6. / 05' .<7; ,<-.176 ?'1 5.61.66,41; .6 =4 ,< '-' 5
?1 ?'1..6 ''1.;.77. / / . '641?'6 0 7>. / 55 ,<6
5''>.?.<6. 5546 ,< >. ; . ; , / ?7. <. >41''?'6 5,<J
7. / ?6 I 5''71 67. -.1 7. >.714 6 7 0 .<555 ; .7 .7'5'J.
E'<7'67 =4. .6 5. / , 6 > ',>7 7,47.6 5.6 1.66,41; .6
7' .<7.?4 65.68 / / . ; .55.6 >. 5'' #' 66. > .6; , / ?7.8
>,<7 ,< 6 57' 7 .< ; ,1.?.1 / 6 > '046.1 7 5. <5 <.
Q,41 ,< 646?.<> 7 7,46 5.6 1. / 0,416. / .<76 7.1 / .8
,< '11 7'' 5. ?'V. / .<7 >.6 '<7 ; ?'7 ,<6 641 5.6 >,
/ ' <.68 ,< >,<<''4< '11 7 >. 6416.'<; . '' 5''#' 66.
> .6; , / ?7.8 .7 ,< .7'05 7 >.6 0 55.76 > 7'7
5 < .@ 67' 7 ?546 =4. >.4@ 1.66,41; .6N 5.6 7'76
J <.1'4@ .7 . .1 G / < 671. 1.471'' .< ?5'; . I
5.6 .7'76 J. <51' @ E41.<7 '<<,<; .6 ?,41 4< 7.1 / .
?.4 55,7J< 8 .7 5'' ; ,<E '<; . 64; ;5>'' '4 > 6.6?, 1
.; .1 71,>-''U 8 E1'<;6 '4 71 6,1 1,V'58 .7
5. 1,V'4 / . / .<'; . > 4<. > 6.77; . <,4-.'4@ . / M
?14<76 >7' .<7 / ?,66 05.6I 5 .7' 75J'5. / .<7> '<J
/ .<7.1 5.6 / ?>76 .6 7'76 J <.1'4@ =4. ,< 1.
J'1>' 7 ; , / / . 5. 7.1 / . '66415 >. 7,46 5.6 / '5: .4168
<. ?,4-' .<7 71. ; ,<-,=4 6 =4 '?1.6 5''> ; 6 ,< >.
?546 .416 =4.67 ,<6 / ?,17'<7.6 =4 >.-' .<7 ?15;5
>.1 5'' ; ,<-, ;'7 ,< E'55' 7 ;.?.<>'<7 E,41< 18 '4
/ , <6 Q46=4 '' ;.77. ?,=4.8 ''5''>.?.<6. ?7 05 =4.8
?'V.1 5.6 1.<7 .168 .76 , ; ;4 ?.1 >.6 ' ; :'76 >. 6406 6
7'<..6 . ; .18 E,1; . >. ;1.> 7 ?.16,<<.5 .7 > .
; ,<, / .8 ?'1- <7 '' 1. / ?5 1 ; .77. 7>; : . ? < 05.I
C / 55 ,<6 . / ?14<7.6 ?,41 4< '< 2 5'' #' 66. > .6M
; , / ?7.8 >. ?.7 76 . / ?14<76 E' 56 '4@ <,7' 1.68 '4@
7'76 >. '<J4.>,;8 >. K1.7'J<.8 > 17, 68 =4.5=4.6
1.7'1>6 >'<6 5. ?'V. / .<7 >.6 1.<7.6 54 E 1.<7'77. <
>1. 5. 5W1 / ' Q (* 7 5' 66''6406 67.18 ''5'' - 1 7.8 5''
646?.<6 ,< >.6 1. / 0,416. / .<76 .7 '1157 >. 641
5'<; .>. 5'' #6 66. > .6; , / ?7.8 / ' 6 5 < Q46''?, <7
>.6 0 55576 > K7'78 .58 ; . J1'<> ,41 >. ,4-.1741.
>.6 7'76 J5 51'4@8) / 55 ,<6 .< <'741. 7' .<7 '4
71 6,1 ?405 ;
.?4 6 5. ; , / ?7. >. #'5,<<.8 Q >.77. 7' 7
J1,66 . >. C / 55 ,<6 > . / ?14<768 <>5?5<>' / '
/ .<7 >. 7,47.6 5.6 1.66,41; .6 J<,15.6I7 / ' 6 5.6 1.M
71'<; : . / .<76 641 5''>.?.<6. '-' . 7 ; ,4-.17 ; .77.
<,4-.55. ; :'1J.8 .7 5''0'5'<; . 7' 7 '' ?.4 ?1.6 5''
/ / . ; , / ?7. >. ( ) (?1 6.<7' 7 4< >.E ; 7 >.
9(/ 55 ,<68 <'5?.<>' / / .<7>.8 C / 55 ,<6 >. 1; /
0,416. / .<6 #.54 >. '1; : .-5=4. >. .<68 .<
/ .77'<7 >. ;975 5.6 1. / 0,416. / .<768 ?1 6.<7' 7 4<
>55 ; 7 >. U / 55 ,<68 .7 . ; .18 ' ' / ' 8 1.
! ,<<47 4< >.E ; 7 >. 9 / 55 ,<68 .< <. ; , / ?7'<7<,<
?546 '4,44 1, / 0,416. / .<7

3 &(',' 6$', $.('-('3('#+*$(+2'-(#3,'5 $+' ('
'$9.+-'. ('-+*' +'.(%0 $,$ *7$'(*('(',' +'4.(!'
$(.('3+ '(/!(*3(5 $'* '+',$. \'-('* ,.((,*+.!'
9$(/ (,'5 $'+'# .3((9 0(.*((*,'+'. 3 .$.'+' +'
**, *' +$'3('(.+$,' *(& '(..('-('4(*'(.'
5 $'(#$,'' ##$-('. ,+)$.' (*$0(+ '($.,.('+'.(3(,,('
3,'+'-(4(*'('4 .'#+$.('3('(.'('-#(.-.('-('*' '#$!'
*+*3('(,+' $'Y(-('4(4('' (#+$$2(3+,-' 2('
-(' +'3+4$,+,(' (,' +' +9*$#$3(*3('-(*' '(,+) ''(!'
(*,'4)$3'4 0+$(*,#+$.('$ '$ *'5 (5 ('(4'!'
(*3 .(7 +$' ('4.$*3$4('-(' +'0$(' (,+$(*,'(4 $'\''
(2'$ 4-,'+##$D(2/ +'9+)((' (,' ('+$-('/4('+$(*,'
-(4 $'4+'$(.''$(3 ('' .' +'3+''('$*-$9(*,(/'+*'
+$$3 *('4. 4 .,$ *+0(3'('#+3 ('/4 $'5 $'9.(!'
0+$(*,' ('4.($(.')(' $*'-(')'$',+*3(/+4(*'4.'
-9+ 2'4 .', ('6 (' (,+)+3/)(' $*'#+3!'
,$3(/ +$' -(0(*' '*(3(''+$.(' 4+.' .6+)$, -(/ (,+$,'
36+.9(-(-. $,'5 $ (*'5 $*, 4+$(,' +'0+(.',$'
4+.,$3$4+$,'+$*'$'+*'0$3('$*6(.(*,'+' +'9+)((' (,'+ 2'
-('7 $' 0(*+$,' 3 *,$* (.' ('4.($(.'4.$*3$4('
- @('$* ',('.(4+.,$,$*' (3 ,$0+,(./(3.+f('-%+!'
0+*3('4+.'3(' $ 4-,'$*-(%4(*-+*,'-(' ' *',.+0+$'(,'
-('('(.(3 ,('/'('0 8+$,(*(0(.4+.'+'-$ ('4 '-'
3$*5 $(('-(' *'4. -$'*(,7 3(''-('3('4 $*,'5 $'
4+.+$,'4 .'G,.('+'' (,,$'+' $ 4 ',(..$, .$+/+ 2'
0$*9,$((' ,'+' $ 4-,'4(.' **(' *(' $*(9+$,('
*',. ('(/(,+)$('(*'('(*'$*0(.'('-(' ,(' ('
.(9$('-(' +' .+$' *'(,-(+' .+ (/+33 .-+$,'4 .
5 (5 ('% *'-(3('$ 4 ,'-('$,.('-(23(4,$ *'+'
4 (*,'4.$0$$(9$(/(,'.-' *$ '+$,'('4 $-'-(' ,('
('36+.9('' .'('4+ 0.(
' (3Y(.'+0+$/+' +'0(.$,-/[-+*'' *'4.($(.'$)$!'
*$',(.(/#$2-'4 .'0$*9,'+*' (' ,+ 2-(' +',+$ (/(,' ('
(2,(*'$ *'+.)$,.+$.(' (,+$(*,'$*,(.-$,('7 +$'/ + !'
9.-'3()$(*#+$,/$'(,+$,' +,6(+,$5 ((*,-(*,.('
5 (' (' $*-.('+33. $''((*,'+ 2'$ 4-,'(#$,' $'('
. 8+ ('(*'#.$36(/4$$$'5 (' +' $,$('-'4. -$,'-('
,(..('4+''+$,'+*'#$'3'- *(' +*$(.(' '- *('+,.('
('0(2+,$ *'-(, ,'9(*.(/ '4+)$5 (' ''(1
3.(,('7-('0$'$ ('- $$$$+$.('4+8(('4+.'3(2'36(U
5 $'(('4 .,+$(*,'+',(..(.7-('4$ 9(',(*- '+' +'
) **('# $('6 +'$ 4 3,87-(''+$'$('/-(' (2-3 !'
,$ *'/,(' ' '#. $,'-('* ,.(.(9$ (#$'3+' (,' ('
3 .,(9(' -$(2-('* ,.('+- $*$',.+,$.' (' $'3(*1
,.('*+, .('+0+$(*,')(' $*' -(,.('4. ,89-('4+.' *'
3 -()+.)+.(7-(' 4($*('+,. 3('4 .' $0+$(*,'-('%
3.$ ('5 ('-(' $'$* ',('+0+$(*,'(.-('/(,'$' ('
+$6(.(2 6 **$,(' -36+44+$,'-' (.' .$9 (./ ('
',.$3,'*-(((''+$.(.(',+$,' 4$($*(' +'3($ -5*,' (',.+1
0+$'$*#+$9+) ('.(4. - $'+$,'36+5,$('+**-(' (' '(!'
('/ ('0-.$,+) (' .$36(''(' (,' +'3(' 3 *-$,$ *'
5$ $$-,+$,4(. $'-('.('4$.(,' +$,'-(' +' 4*(('' *'
##'3+)+*('5 $(*'3 0.(,'+'4 '9.+*-('4+.,$(
4.(' (' ,.+0+ 2 -(' +'3 , ./ $*- ',$(/5 $
(4 $(('$*+,$-.('4.($(.('/(,'('3 (.3(/5 $
(*'#+3$$,(-36+*9(/-(0+$(*,'-,.('+*'3 *.(-$,'
('4.($(.') (,'-'9 0(.*((*,' +' $)(.,8(',
%- ('-('3(' -(2'9.+*-' 8(*'-+) *-+*3('(,'-('
4. '4(.$,8/(,'4+., ' (3 (.3('(,' $*- ',.$(.(*!'
3 *,.+$(*,-('(*,.+0('
('- +*('$*,-.$(.('/ (')+.$-.('-('0$ ('/
('4-+9(' ,4(' .' ('.0-.('/(,'-+ ,.(' ' .
('. ,('/ ('-. $,'' .', ,(' (' +.36+*-$'('/ ('
.+*-('/ ('4.0 -9('(23 '$#')',. +$(*,' ('
(+*+ 2/4+.+8'+$3*,', ' (',+ (*,'' (')(' $*'
' .'.(*+$''+*,'-',.-'.'4)$3'* +0+$(*,' +1
+$'4(. $'*$-('+3.$$(.' *('4 .,$ *'-'.(0(*' /
$'-('#+$.('-('(''+$'- *' ($ (.'.(9$ ('+'.$'5 ('
-('.(,+.-(,' *('4(.3(4,$ *' (' 3 4+9*$(' -(' #$1
*+*3('5 $(*'-,+$(*,'(6+.9-('/ '+' $,.('-('#(. ('/
'3 ('$ 4(.-9$''(.'/+0+$(*,', ,('#+$,'-('
9.+.$-('+0+*3('' '(,.((*'-. $,'-(' ('-(4 $ (./
$'#+ +$,-' $*'-,.((*'-,+,-(' ('.( ) *.'(./(,'
'9 0(.((*,')-.('*('4 0+$,' #$ ('3*'+0 $.
$--(' B'-,+$,')$3*' 4$*'' '$ 4 ('-('$$$0.(' +'. *,3'
#.+8-(/-$*0(*,(.-('* 0(('3)$*+$' *' $$3.+!'
,$0('/(,'-(.(* 0((.'-(')+ 2', .'4 '+0+*!'
,+9(2'4 .' ('#$'3'(,'4 ' *-.(2'4 .'+'*+,$ *'
(Y.(' ,+$,'*-3(''+$.((*,/ ,.(, ' ('+ ,.('
$*3 *0-*$(*,'4 $,$5 ('/% *('+ 9 (*,+,$ *'-('4.$2'
'.', ' (' 0.+9('-(' +* #+3, .('/(,'' .' '
('-%36+*9('7 3(,+$,' ** 0(' $ 4#$,'' .' ('4(*$('
--+'-4 $'-'-(,+*,'-+ ,.(' +*$(.('
('6 ('5 $(2(. +$(*,/ - (#$-(((*,/3('
.$9 .(2(4$.(' ' (' 3$, 8(*'(,'' .' ('4. 4.$-!'
,-'-(0+$(*,'-,.('('*') ,,('+' +6+$*'(/(#*('4 0+$(*,'
-,.(--,(*- '5 ('4+.' +'3.+$*,(' ('4(4 '5 $-(!'
4 $' -(2'+*'3 (*3('+'('- ,(.'5*$'+' -('
-. $,'/*('3 **+$''+$,'+ .'/- '9 0(.*((*,'' $'
(5 ('$'0$0+$,'/!5 (' (' 3 $' -('#(. ('5 $ ('
4$ +$(*,/(' (')--9 -'5 $'$9*+$,'$(' .#$$('-3'$ 1
4 '$,$ *'/ ' .-.('-('('3 *,.+$*,(' ' 4.('+0 $.'K
*9,(4'0-3$$' *' *',(.-9$ (/ (3+$.'-3 +' $1
)(.$('-(0+$,'-,.(' ('$9*+'-(' +' $3(*3(/(' ('*+, .(Z
- (%*-.-'4 +.,'#+3$((*'-,.('(*,.+*-+'-('(21
(3'' (,('.(#(2$ *'(('(24 $5 (' ,3('5*('* *'
+0 *'0 ' ('4(4('*('4 0+#,'0 $.'5 ('-(',8.+*'
-+*', '3(2'5 $(2(.3+$(*,' *('+ , .$,-'' ' *$/
4+.3('5 (' ,(' (' +' .$,-' +0+$(*,'3 *- $,'Y$+'
$'(.(' (,'+*' --('4 $.' '% 4#$,' (' 4 ' $
.+44((.+' *9,(4' (*3 .(' 4(D 5 $ $ (*$(!'
+$(*,' ('*-(((''+$.(' (' (,' 6+)$, -((,' ('(*,$ (*,'
-(' *') *6(.'5 $ $.(*-. $$,''+') *,-'4.$ $,$0(/
(,'5 $ + -9(. *,'4 .' $ ('4 $-'-('36+.9('
)$5 ('
+'4+,$(*3('+0(3 +5 ((' ,+*,' -(' +$6(.(2 *'
' 44 .,-(' +*2+3- -' ' .' (.',.$',(' f $''
,3.$3(' (',' -('. +$' +' '((' 36 '('$*3 *3(0+)('
(*, 6+)$,+*,-('* '0$ +9(' f ,(*+$,!$' +'
0 ('-('6 ('- *,' (') *6(.'+44+.(*,'3 *,.+'!'
,+$''$# .,'+0(3'+' $'(.(c '(2(.3+$(*,'' .F $' *'
4 *0 $.'4 ' ' $*' *-.(2' (' $*('/ ('!'
-0-5 3' ' ' *'3 .'-$ +$(*,''+' .-3 ,(7'' *''($1
9*(.'.(3 $ +$, *+*3$$(*' -. $,'-('4. 4.$ -' .'
' *36+ 4(' ,' .''+'3+)+*(=('9$)$(0/ ('4$9(*'
-(' (,'6 ('4.$0$$-9$('+0+$(*,' ('-. $,'-('0$0.($$'
'(' -(4(*'7(*' ** / ' 9(' -('4. 3 .(.'
#$'3+ 2/-('9+.-('!36+''(' $$*,(*,+$(*,-('4. (-'/
(,' $ (*(0+$(*,'' 0(*,' ('.(,('-(.+0$3$,-'-('
,.+$,+*,'' $Y (' ' 0(*$.'5*('('4(4('+'-$$ .3!'
,. 0(.Y' *'.-0(7'#+ ,')$(*' $4+.-' **(.'5 (D
5 ('$9*('-' *' ',(' *' - (- *'$*' ',('.(''(*!'
,$ (*,'< *+44+ -$,?
(9 0(.*((*,/5 $-(0+$,', ,'0$0$#$('4+.'' *'!'
,$3(/(,' - ('4+.'$*,(.-,/+0+$'-*(' -, ##-' *'!'
5 + 2'9(. ('-(' +'.(4. - 3,$ *
(4(*-+*,''(' .(0(* '*+0+$(*,'+ +$'4 ##$.3'
Y'+0 .+3('3 4$-$,(' '+9('- (.--$,'4)$3/-+*f'
// *(3(.+$*(+,$, -(/*(',4+'# .,'+*3$(*' +.,-(!'
4. *,(./3($' ., ,-('3)$*(.' (' (4. *,'/
4 ''-'-+*'3('-(.*$('.'(4'+' '+4(.#(3,$ */+'-$-'
4.-3--'- *''8',(('+*'$*'$4'+*''$# *('('8 '
*9,(4' (' $*'$',.(-(' ' *,'+3.$#$-' ('9-!'
*-.+,$ *'# , .('+#(.')(' $*'-' (*, ' -!'
4 5 ('- *,'('4+. (/(,'('3$,(0.+9('-('4 '$(.'
'$(3 ('/ *'+0+$',.+#$5 -/+'* '-'. $/-(, ,3('
5 $- **+$,'-('-. $,'Y(2(.3(''.' ('4(4 (7 9('/!'
5#3(.''4-.$(.'(,'$*#(.$(.'-('3(*,' $ ('$.$!'
) *+ 2'5 $(2$',+$(*,/36(#'-(' %+. -(/+- $*$',.+!'
,(./#$*+*3$('/9+9$',('-(, ,(' ('3+''('/- !'
(',$5 (' - (-'. $(,'-('+'#+ $ (/+0+$(*,'-,-'
+',.($*,'+'0(.'(.-('' *$ ('+*,.-' .'4)$3/(,'+'
4 4+.,-('3('(4 $'/.(*- '6(.--$,+$.('/(,+$(*,'
-(0(* ' ('4+ .$ $*(' - *'9.+*-' *).(-('#+ $1
$(' ' *'3(2'5 $'4+8+$(*,/.(3(0+$(*,/-3.$0+#(*,/
3 4,+$(*,/4. #(''+$(*,'**'+.,/(2(.3+$(*,' *' -!'
,$(./, '/'+*'(23(4,$ *'/+0+$(*,'+3)Y(' ('-. $,' '
+'4(. $''$ *'-('#(9+9*(.'' ' ('4(4('/ ' $'4+.

>.6 - .@'7 ,<68 6, 5?'1>. ?1 - 55 .68 6, 7?'7 5 ',J
/ .<7'7 ,<>4 ?1 @>. 5.41 71' - ' 5 ,4 >. 5.41 ;, /
< .1; .8; .=4. 5.41 5 71. 5.41' - ' 5 ;, E57.% '<7 =4 7>
> <'046 .67 4<.6 ,17.>. ;, <6. ;1'7 ,<I 5 - .<5.> 4<.
;5 .<7.5. ?'1' 66' 7'466 <'741.55.=4. 5 - .<7.> 4<.
7.11.% ,16=4. : '0 74>. .< 6.1 .EE'; ..8 ,< '41'
?. <. 'Q;1, 1. =4 4<. <'7 ,< ;> .01. - .;4 6, 4<
% 7.5 1.J / .8 .7 =4. ; >7' 7>'<65.6 ?546 0.'4@ 6 ;5.6
>. 6,< : 67, 1.%

/ 'J <'5 ,<5 ?546 ';7 - . < '41' 7?4 <- .<7.1
>.<,4-.'4@ / ,V.<6 ?,41 6'7 6E' 1. >. <,4-.'<@
0.6, <6I 5 < G1.65' 7?546 >.?4 6 5,<J7. / ?6 >. ; : '1M
J.6 - .<>1.% >.75. ?405 =4.8 >,<7 : 67, 1. .7 5
1.>';7 ,< 7V1'<< =4. 6.1' .<7 5 :,<7. >. ; . >.1< .1
6 .;5. ?546 .<; ,1. =4. >. 7,46 5.6 ?1. ; .>.<768 5
>.77. .7' 7 / ,<7. . 4<?, <7=4 5< .7' 7?546 ?,66 M
05. > .@;.>.1 > E'47> . / ?14<76 1. - .746 > 4< ;'
1';7.1. ?405 ;8 ,< ' - ' 5 - .<>4 5.6 1. - .<46 >. '<
<>. 64 - '<7.8.7; .77. / '< E.1.>. #,<6, / / .1 ' - .< 1
;5 ' - '<;. >.?4 6 5,<J7. / ?6 < >7' 7?546 ;';: .. N 5.
/ ,7 > '<7 ; ?'7 < <. ?1 6.<7' 7 ?546 =4 4<. >..
;, / / 4<.% <E <8 >. 47 > . / ?14<76 .7> '<7 ; ?'
7 ,<68 ;'1 7,47 4< 7.1 / .8 .7 ?'15 47 ,< ' - ' 7 '7
7. <78 ,< ' - ' 5?1 6 5. ?'17 >. 1.7'1>.1 <>.7 < / .<7
5.6 6'5' 1.6,4 5.6 <7.1 76 >46 ?'1 7'7% < .@ 67' 7
?'6 5 <. ?'17 .>.5 '> / < 671'7 ,<85 6,5>. >.671,4
?.6 ;@; .?7..8 , 5 5 < V .>7 4< '11 1> >. ?546 .416
'<<>.68 >,<7'4.4<>7'7 / 9 / . ?>7 . ,<67'7.1 5 = ,
7 7>% #.4@ '=4 66. / 05.. <'7 ,<'5. ; ,< > 5.
6, <>. > 01,4 55.1 ;. ;: ',6 6,<7 7,46 5.6 Q,416 ?546
>7,<< 6 .7 >. 5 > 5 ? >'7 ,< >. '<; .< J,4-.1<.
/ .<78 .5 >. 5 ?'7 .<; . >. 6.6 ;1.'<; .16% ; <Q46
7 ;..67 > '47'<7?546 : ,11 05.=4 .55. 7' 7 6.;1.7.8
.7=4 . 5.?546 6;'<>'5.4 >.6,1>1. < ' - ' 7< 5 /
7.68 < 5. 6'547' 1. E1. <>. 5 :,<7.%

34.55. 7 ;: .S =4.55. E,1 / >'05. .<71.?1 6. =4.
;.55. >. 1. / >> .1 5 E, 6 7'<7 >. / '4@S 34 .>7
,6> ?.<6.1 1 ?'1.1 5.6 E'47.6 ,4 5.6 ;1 / .6 >. > @
6 ; .6Z '<6 >,47. ; . <. 6,<7 ?'6 ; .4@ =4 71,4
- ' .<7 6 6 / ?5. >. 6'4-.1 7'7 .<>. / '<>'<7'4@
,1>1.6 ?1 - 5. J >6 5. 6';1 E ;. > 4,. ?'17 . >. 5. 16
E1'<;: 6.68 .7'4@ ?.4?5.6=4.5=4.6 <,4-.'4@ .EE,176
?,41 1. / ?5 1 4< '11 .1> >. 9 / 55 ,<6% #.4@ =4
,<7,6> ; ,<; . - , 1 7,<<'<7. > . >. 1.<>1.'4 ?.4
?5. 6 ?1,?1 >7>8 > J'J.. >. 7,46 5.6 1.67.6 > 4<.
'<; .<<. 4641?'7 ,<I >. >. 714 1. 5.6 / ?956 ,> .4@
6,46 7,46 5.6 '6?. ;768 <. J'4@ >'<6 7,46 5.416 1'?M
?,1768 ?,41 5.6 1. / ?5';.1 ?'1 >. ; ,<71 047 ,<6 6'
J. / .<7 ?1,?,17 ,<<>.6 ' - . ;5.6 ?1,>4 76I >. > '
#.1 5. ;, / / .1; . >. 7,47.6 6.6 .<71' - .6 .7 <>4671 .
7,47.6 6.6 J9<.6I >.> 714 1. 5 - . '5 7. Q46=4=
>'<6 6.6 ?546 ?.5 7.6 1'; <.6I> '<>'<7 15.6 '<7 ; ?'M
7 ,<68 >. 6,5>.1 '11 >1.8 .7 >. 1. / .771. 7,47.6 5.6
>. ?.<6.6 '4 ;,41'<7I; .4@ =4 ,<7 E,1 / > ; .77. <
;,<; . - '05. .<71.?1 6.8 .7 =4 >. 6,1 / ' 6 6,<76E516
> V 1>466 18 / '5J1> 7,47.6 5.6;'5, / < .68 / '5J1> 5
1'J. >. ; .4@ =4 '41' .<7 5.6 ?1. / .1.6 - ;7 / .6
>4 >>6,1>1. =4 56 1.%J1;7E.<7I ;. @ 5 ,47 0 .< / >
1 7.>. 5.416 ;,<; 7,V.<6% 6 ,<7>1, 7 5 1.; ,<4' 6
6'<; . >. 5 ?,67. 1 7.I 5.6 - ' <.6 >. ;5' / '7 ,<6 ;.
6.1,<78 .7 5 Q467 ; . 4< - .16.55. 5.6 - .<J.1'%
6 E
; %

.4@ >. %5.6 ;, / / 66' 1.6 / .> '7.416 .<-,V>6
?'1 5. 1, - J<,< .7 >'<6 5. ;, / 7'7 .<' 66 < ,<7
1.<>4 ;,1'?7. >.6 / '5: .41.4@ > - .<. / .<76 >,<7 ; .
?'V6 .7; 5. : . 71. >.?4 6 5. / , 6 > ',>7 ()*% +
466 5>7 '?1.6 ; .1'??,178 % '00> '41V >. ;5'1>
=4 5 6. 1.<>' 7 5.41 ; ;46'7.418 .7 =4.8 641 6 1.6
?,<6'0 5 5>8 5 6 .<J'J.' 7 2 5.6 ?,4164 -1. >. - '<7
71 04<'5 6; '<7 15.'<6% + 66. / 05.. 1.E46>
> ;<5.<>1; % '00> '41V8 .7 >,<<> ?546 .416
1.<1 6? S 7 ?6 / '1 / ?Q > '??1,0'7 ,< '4@ ;, / / 66'7

.(--$+,(. ' +' -+*3(+ -,-,(. $*-(4+. DM
4.($(.(4+.,$(- * .+44 ., -(+*3$(* -0-5$
- , * ' . -- 3+,$ * *+,$ *+ (V EB (* 3 *,$
* (.+ + (3, .(-+* + 4. 36+$*((+*3(

/

, > K " 9 + 40% ' & <
71'J#> . 5V1 =4. 64 - . >4 0'55.7 >4 8 ; &
>'<6 5.=4.5 5% >.5,7 ;,<7 <4.1 6.6 >.0476%
K K D & 8
9 8 ?1>;#>. >. 8 ,&
- 5 % + 40% F G
.7 ,
- 1 (14. >. ;: .5 .48 + 40% G
. 71'J>> . >. % #.:>4 .18 64 - . >.6 &
E / 5 5.8 ;, / >> . .< ;7.6%
- H -< 718 ; >. - '<7 >. ,<6 .418
+ 40% G ;, / 88)9 A
,?.1' E,5 ,%
< '77.<>'<7 5 p 1.?1.6.<7'7 ,<>. 69
;, / >> .8 .7 5 G>4 G % ,?>1' E,5 .8
,> '4 '5' 6
V'5% + 40% ,4 G & ;, / #>
.7 ;7.6I ?1>..>>. >.6 G
2 $ I
'4 '5' 6 ,V'5% + 40% G
V / ?5 ,<. >. ! ,66. .7 >. 5.V.5% + ,<-.1541. >. (
$ + 5. K'5'66 > ;: '<7.1 4< ' 1 >. # / '1,6'%
+ % #' 55'1> ;: '<7.1 4< ' 1 >. .7 4<
6; <. >. G
- 3 3 &
40% % $ 8 6.6 'J17
/ .<56E 5.6 .@.1; ;.6 >4 Q.4<. <J5' 6I)@
@ - ?'<7, / / . > 1'4>.6 / ';: <.68 .%
. 5) " '770,45. - '1> >4 . / ?5.8 + 40%
8 5)@ 5
' 6?. ;7';5.8 .7 F &
64 7. >4 / > / . 64Q.78 ' - . ; >.6 > - .17 66.M
/ .<76%
- ..-; HB 3 # 37 a K3 % + P<9
,4 ! 1 ?'1 5. ;,46
;=4.6%
B> K , : 8 / . ' <7 '17 <% + 40% 5
& $ 1 <& 64 - . >. 8
)9 8 & ?. ;7 ;5. 1.>. / '<>#%P
> ,4-, 6% + 40% 5 9 1;?1,6;<
7'5 ,< >4 F & ,?>1 0,455,<8 64 - >.

. ! - ((7)) (7 () ' (+B (,#' (#- , , (
< . (. ! /)
@?1. / .16 / , 6 (* % %5.6 ?'V.416 6.<7 . 5 5.771. !%
#,416 & & > 9
/ 67.1> / % \% % % U cQ #'>@ % % % % % 5 % C6%
B' / 0,41J% % %$ G C 9 ! ><.6% B(
,<>1.6 CC S - ,4 / .% % % % % % C(
'>1 >% % $ % % * % 6 V,<8 , % % % '4 ?'1

;7 ,<6 >.6 <>.6 >. C 5 - %AW % % 1 % % % % % % CC
.,$ * - ('PBW $0 WEG
/ ?14<7 > , .7% >. 5 -% 8 U (
+ >. >>,% ()C% 34 78 >. 9 8 G: % <4 ?' 1 ?
+ >. C / 55 ,<68 >>;% ()U % 0
+ >.) / 55 ,<6 ' - . 0455.7 <6% % %%%%%%%%%%%%% % 0
+ '<6 0455%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %%% %
+ ,17 .6 . <- 'J.1%%% %%%%%%%%%%%%%%%%%%%%%% %% U9 0
K455.7 <6% \ %%%%%%%%%%%%%%%% * G **
;7% B,418 >.6 <>.6 $ % Y % % UC C8 8 8 8 8 8
#' 6% > .6;%)9 8 9 8 9
. / ;' 66. $ *C(8 C98 C)8C*8
/ ?1% .) / 55 ,<68 > ' ,7755()* % $ '4 ?' 18 Q8
6641% ;,471. 5.6 ,; $ % $ % E)(8)98) 8)9)(8))
+ 'U - .% %%%%%%%%%%%%%%%%%%%% (8 8B 8 C
#, 68 F ;5'66. ?% Q% %
^ U ?% 640% '4 9G
+ 2) U G G %$ $ G 8 G G W)

! b ʼ ʼ %ʼ ʼ %

C WXX ʼ 41ʼ) "&& ʼ 4564ʼ ʼ " : ʼ Eʼ Eʼ ʼ

"

ʼ K ʼ a %

8 ʼ ʼ F ʼ a ʼA

ʼ #Kʼ ʼ 5ʼ ʼ 7 K K%

%#,;K Nʼ .ʼ; >.-'<7ʼ1.J / .<7ʼ> 4-.1J<.ʼ "ʼ>7.ʼ <;4 ?.ʼ >'<6ʼ ;.77.ʼ 66. / 05..Iʼ;.?.<>'<7>.6ʼ #.17 E ;'76ʼ>.6ʼ ,EK; .16ʼ1'4< ; ?'4@%.7ʼ >4ʼ;, / / '<M >'<7ʼ>.ʼ5" ?5';.ʼ ,>ʼ 5ʼ .67ʼ .<ʼ J'1< 6,<ʼ '77.67.<7ʼ6" 0,<<.ʼ;,<>4 7.%ʼ .ʼ>. / '<>.ʼ =4.ʼ5.ʼ;, / 7>>.6ʼ1'?M ?,176ʼ 6, 7ʼ <; .66' / / .<7ʼ ;:'1J>ʼ >.ʼ <,46ʼ 1.<>1.ʼ ;, / ?7.ʼ>.ʼ;.77.ʼ>.<,<; '7 ,<%

"?1,?,6 7 ,<ʼ>.ʼ %#,;:.5.7ʼ.67ʼ'>,?7>.%8

+N 78ʼ 14 ,<ʼ?1,?,6.8ʼ'4ʼ<, /ʼ>4ʼ;, / 7.ʼ> . / ʼ ?5';. / .<78ʼ>.ʼE,1 / .1ʼ4<ʼE7'05 66. / .<7ʼ;.<71'5ʼ> '1ʼ 5 55.1 .ʼ ʼ .<<.68ʼ ?1>6ʼ>.ʼ71E.6 5,<J6ʼ > 0'768ʼ;.77.ʼ ?1,?,6 7 ,<ʼ .67ʼ'Q,41<>.ʼ"5"?1 ;:' <.ʼ5.J 65'741.%

+ 41ʼ5"?1,?,6 7 ,<ʼ>.ʼ %#:'?.5 .18ʼ 66.<'05>.ʼ ,1 ,<<. 5.ʼ1'??,17ʼ>4ʼ>.;1.7ʼ=4ʼ?,17.ʼ=4.ʼ5.6ʼ;:' ʼ B, <.66.6ʼ=4ʼ- .<>1' .<7ʼ " 6.ʼ / '1 .1ʼ6.1' .<7ʼ?1 ʼ -..6ʼ>.ʼ 5. 1ʼ71' 7. / .<78ʼ .7ʼ> ;1.7.ʼ =4.ʼ5. 16ʼ?.<M 6 ,<6ʼ<.ʼ?,411,<7ʼ6 >7. <>1.ʼ=4 ʼ5.41ʼ / ,17%8

+ʼ % .1<<'; '<7 '418ʼ .6;.<. >.6 ʼ ʼ 6,<68ʼ ;, / / 66' 1.6ʼ / .> '7.416ʼ.<-,V. 6ʼ?'1ʼ5.ʼ1, ʼ>ʼ - J<,<ʼ .7ʼ>'<6ʼ5.ʼ;, / 7'7ʼ .<' 66' <8ʼ6,<7ʼ'> / 6ʼ" 5"0'11.5

F ʼ A A ! ʼ,07 .<7ʼ5"?'1,5.% ! /

8 $ <-,V>6ʼ?'1ʼ5.ʼ1, ʼ-.16ʼ5.ʼ?.,?5.ʼ> - J<,7ʼ.5ʼ >4ʼ#, / 7'78ʼ .<ʼ .@. ;47 ,<ʼ>.ʼ-,6ʼ5,76ʼ>.6ʼC ʼ / ʼ ʼ.7ʼ UʼQ4 .7ʼ>.1< .18ʼ<,46ʼ'5 .<6ʼ-,46ʼ / .771.ʼ6,46ʼ5.6ʼ V.4@ʼ;.ʼ=4ʼ6.45ʼ.67ʼ> J<.ʼ>.ʼ-,468ʼ5" ->1 5>ʼ'77.67. .ʼ ?'1ʼ5.ʼ>.-, 1ʼ.7ʼ?'15 :,<<.41%ʼ ,46'-.0ʼ"?1,<,<ʼ ;.1ʼ 641ʼ4<.ʼ J1'<>.ʼ =4.67 ,<8ʼ " 5'=4.55.ʼ7 .<7ʼ5.ʼ 0,<:.41ʼ> 4<ʼ?.,?5.ʼ.5ʼ5"71'<=4 55 7.ʼ>.6ʼ>>?'17.G / .<56ʼ>4ʼ >% ,46ʼ-,46ʼE,41 / 1,<68ʼ?,41ʼ>;5' 1.1ʼ ;.77.ʼ>.; 6 ,<8ʼ7,47ʼ ;.ʼ=4.ʼ-,46ʼ'-.0ʼ>1, 7ʼ> .@ J.1ʼ >.ʼ<,468ʼ>.6ʼE' 56ʼ-1' 6ʼ .7ʼ;,<67'7.6%ʼ "1.-,547 ,<ʼ ,?.1..ʼ " - J<,<ʼ .7ʼ>'<6ʼ5.ʼ; /7'7ʼ .<' 66' <ʼ.67ʼ 4<.ʼ64 7.ʼ <'7 1.55.ʼ8ʼ <.- 7'05.8ʼ>.ʼ;.55.ʼ'11 -. .ʼ.<ʼ H1'<;.Iʼ ,4?547>7ʼ.55.ʼE 75" /> / .8ʼ?4 6=4.ʼ>.ʼ7,47ʼ 7. / ?6ʼ5" <'741.8ʼ5.6ʼ5 ' 6,<6ʼ>4ʼ6'<J8ʼ :'0 74>.8ʼP" ?,5 7 =4.8ʼ=4ʼ< .67ʼ;,<67' / / .<7ʼ> 1 J..=4;ʼ?'1ʼ5" 5, ʼ / ?.1 .46.ʼ>.6ʼ0.6, <6ʼ / 474.568ʼ'-' .<7E' 78ʼ>.ʼ ;.6ʼ>.4@ʼ?.7 7.6ʼ?.4?5'>.68ʼ>.6ʼ?,17 ,<6%>.ʼ5"J1'<>.ʼ E' / <.ʼ>'<6ʼ5.ʼ6. <ʼ>.ʼ5'=4.55.ʼ.55.6ʼ .7' .<7ʼ.<;5' ʼ -..6%

W ʼ1 <65'<7ʼ ,4ʼ5"1.-,547 ,<ʼE 7ʼ>?1,4-.1ʼ6.6ʼ.Eʼ E.76ʼ.<ʼ H1'<;.8ʼ;, / / .<7ʼ4<ʼ?'V6ʼ ,4ʼ7,47.6ʼ5.6ʼE'M / 5 .6ʼQ,4 66' .<7ʼ>.ʼ7,46ʼ5.6ʼ>1, 76ʼE1'<3' 68ʼ>Eʼ5.ʼ ;, / / .1;.ʼ .7ʼ5.6ʼ <7>1>76ʼ / .1;'<7 5.6ʼ>7' .<7ʼ5 .68ʼ ;,<E,<>46ʼ'-.;ʼ;.4@ʼ>.6ʼ?1,- <;.6ʼ>4ʼ1,V'4 / .8ʼ '41' 7 5ʼ?4ʼ4.ʼ?'6ʼ.?1,4-.1ʼ5.6ʼ / . / .6ʼ / ,4-. / .<76ʼ ?,5 7 =4.6 466 8ʼ>.6ʼ5" E<ʼ>'',E575()*8 7'7ʼ> ʼ - J<,<ʼ?1.6.<7" >.6ʼ>,5.'<;.6ʼ'4ʼ5.J'5ʼ>4ʼ?'?.Iʼ5" >. / '<>.ʼE47ʼ1.Q.5#.Iʼ 5.ʼ?.4?5.ʼ6,45 <5ʼ6,<ʼ>1, 7Iʼ ;.ʼ>#<ʼ>.ʼQ467 ;.ʼ.@; 7"5"?546ʼJ1'<>.ʼE.1 / .<7'7 ,<8ʼ .7ʼ5.ʼ ʼ6.?7. / 01.ʼ .55.ʼ .;5'5" ?'1ʼ4<.ʼ <6411.;7 ,<8ʼ .ʼ- ;. . J'7ʼ . / ?5,V"5.6ʼ / ,V.<6ʼ> 46'J.Iʼ>.6ʼ?, ʼ 7.<;.6ʼE41.<7ʼ>1.66. .68ʼ .5ʼ1.67.1.<7ʼ5,<J7. / ?6ʼ?5'<ʼ 7>.6ʼ?,41ʼQ.7.1ʼ ;EE1, ʼ>'<6ʼ5.6ʼ> / .6%ʼ <ʼJ1'<>ʼ<, / ʼ 01.ʼ>.ʼ . 7,V.<6ʼ E41.<7ʼ >.;1.7.68ʼ ?546 .416ʼE41.<7ʼ ;1'?1 6,<<E.I;.?.<>'<7ʼ 5ʼ< V.47ʼ?, <7ʼ> .@>;47 ,<%ʼ .ʼ?.,?5.ʼ-,V' 7ʼ'-.;ʼ1.J1.7ʼ.7ʼ / ?'7 .<;.ʼ>'<6ʼ5.6ʼ E.16ʼ ;.4@ʼ=<ʼ'-' .<7ʼ>>E.<>4ʼ6.6ʼ <7. 1556ʼ .7ʼ.<ʼ=4ʼ 5ʼ'-' 5ʼ;,<E'<;.I;.77.ʼ / ?'7 .<;.ʼ>.- <7ʼ <6411.;M 7 ,<8ʼ .7ʼ5.ʼC'E.-1 .1ʼ ,<ʼE,1;"5.6ʼ?1 6 ,<68ʼ ,<ʼ>.5 -1" 5.6ʼ?1 6,<< .168ʼ,<ʼ 01E55"5.6ʼ?1, ;.>41.68ʼ.7ʼ5.ʼ?.4M ?5.ʼ / ,<71" 4<.ʼ-,5,<7>ʼ>>7.1 / <>.ʼ> ,07.< 1ʼ5.ʼ1. ʼ >1;66. / .<7ʼ>.ʼ6.6ʼJ1 .E6%ʼ .6ʼ;:.E 6ʼ;, / 4.<; 1. 77ʼ"

ʼ$ʼ ʼ+ʼ< ʼ'.

6.<7 1ʼ;4@ / > / .6ʼ= H 5ʼ>7' 7ʼ / ?,66 05.ʼ>.ʼ <ʼ1>6 I ʼ 7.1%

$ʼ .6ʼ;,<6456ʼ>,<< 1.<7ʼ5.41ʼ>. / 66 ,<Iʼ4<.ʼ'>ʼ < < 671'7 ,<ʼ?1,- 6, 1.ʼE47ʼ>7'05 .8ʼ .ʼ- ;. 5. J'7ʼ54 ʼ / > / .ʼ6 '?.11'7ʼ=4 5ʼ< >7' ʼ?5467.<'?6ʼ> . / ?5,V.1ʼ >.6ʼ / ,V.<6ʼ>.ʼE,1; .Iʼ 5ʼ <>J,; '8ʼ 5ʼ';;4.055 7ʼ.<5 <ʼ 5">. / '<>.ʼ> '66. / 05.1ʼ5.6ʼ.7'76ʼJ.<. 1'4@%ʼ " ;,<M -,;'7 ,<ʼ >.6ʼ'66. / 05..6ʼ ?1 / ' 1.6ʼ 6.ʼE 7ʼ6,46ʼ6,<ʼ '47,1 6'7 ,<8ʼ .7ʼ > '?1.6ʼ 5.ʼ 1.J5. / .<7ʼE' 5ʼ?'1ʼ 547ʼ / > / .Iʼ5.ʼ?.4?5.ʼ6.ʼ- 7ʼ.<E <ʼ 1.<>4ʼ" 6.6ʼE,<;7 ,<6ʼ >.ʼ6,4-.1' / .7>ʼ?' ʼ5" 6'<;7 ,<ʼ >4ʼ J,4-.1<. / .<78ʼ .7ʼ5.ʼ?1. / .1ʼ46'J.ʼ5 01.ʼ.7ʼ-,5, 7' 1.=< 5ʼ.<ʼE 7E45ʼ > '>,?7.1ʼ 5.6ʼ>.;1.76ʼ>.ʼ 66. / 05>.ʼ4'7 ,<'5.% <ʼ ;,<6.=4.<;.8ʼ4<.ʼ / << ; ?'5 7.ʼ6.ʼE,1 / " " - J<,<8ʼ 5.ʼ)ʼ '-1 5ʼ (* 8ʼ;,<E,11'> / .<7ʼ '4ʼ >>;1.%7ʼ>.ʼ 6ʼ 6. / 05>.ʼ<'7 ,<'5.8ʼ .7ʼ.55.ʼE47ʼ <67'55>.ʼ?'1ʼ5.ʼ- ;. ʼ 5.J'7ʼ54 / > / .%ʼ ,46ʼ;.77.ʼ?1. / .1ʼ <E54.<;.ʼ>.ʼ5" 5 0.17.8ʼ <=4 6 7 ,<ʼE47ʼ'0,5 .%ʼ ";,41ʼ>.ʼ , / .ʼ<.ʼ 7'1>"?'6ʼ"1.J1.77.1;.77.?1. / >1.ʼ;,<>.6;.<>'<;.%ʼ

ʼ#.5.67 <ʼ'11 -'Nʼ 5ʼ-.<ʼ7ʼ;'66.1ʼ5" / 4< ; ?'5 7.8ʼ 1. / .771.ʼ7,47ʼ641ʼ1'<; .<ʼ? .>Iʼ / ' 6ʼ 5ʼ< >7' 7ʼ?546ʼ 7. / ?6%ʼ .ʼ?.4?5.ʼ1.E46">.ʼ d'> / .771.>'<6ʼ5.6ʼ / 416ʼ > - J<,<8ʼ#.?.<>'<78ʼ;.ʼ=< ,<ʼ< ' 7ʼ?4ʼ ,05.< 1ʼ ,4-.17.EE5.<78ʼ,<ʼ;:.1;0"ʼ ʼ ,07.< 1ʼ?'1ʼ>. ʼ;,<Q4M 1'7 ,<6ʼN5.6ʼ?1 - 5>J >68ʼ;'1ʼ .<ʼ.@ 67' 77ʼ5", , / / .ʼ ' 57;4168ʼ5.6ʼ ?1 -5 >J .6ʼ6.ʼ ;, '5 6>1.<7Iʼ=4.5=4.6ʼ :, / / .6ʼ J>,>1'5. / .<7ʼ> J<.6ʼ > .67 / .ʼ .<1.<7ʼ5" E' 0 .66.ʼ>.ʼ6 V ?1>7.18ʼ.7ʼ .ʼ ʼQ, <ʼ - 7ʼ>;5,1;ʼ>.6ʼ ;1 / .6ʼ.7ʼ?1,-, 4.1ʼ>.6-.<J.ʼ<;.6%ʼ <.ʼ71,4?.ʼ>.ʼ J.<6'1 / >68ʼ<,05.68ʼ?1>71.6.5ʼ'J.<76ʼ>4ʼJ,4-.1<. ʼ / .<78ʼ6,17.<7ʼ> 4<.ʼ>J5 6.ʼ,Eʼ ,<ʼ.7' 7ʼ1'66. / 0 >ʼ 6,46ʼ?1.7.@7.ʼ> 4<.ʼ&>7.Iʼ ,<ʼ7, / 0.ʼ6417ʼ7,46ʼ5.6ʼ; ʼ 7,V.<6ʼ?'17 6'<6ʼ>.6ʼ<?4-.57.6ʼ >>.6Iʼ?546 .416ʼ ,<7ʼ 74>6ʼ'-'<7ʼ>'-, 1ʼ?4d .ʼ>>E.<>1.%ʼ '5'1 / .ʼ6.ʼ1. ʼ ?'<>Iʼ ,3ʼ;,417ʼ'4@ʼ'<<.6Iʼ5.ʼ;, / 0'7ʼ6 .<J'J.8ʼ.7ʼ 5.ʼ?.4?5.ʼ1.67.ʼ5.ʼ / ' 71.%ʼ .?5' 6 1ʼ>.ʼ5" -.<J.'<;.ʼ 1. / ?5';.ʼ'5,16ʼ5.ʼ0.6, <ʼ>.ʼ6.ʼ>>E.<>1.%ʼ , / 01.ʼ>.ʼ <,05.6ʼ'-' .<7ʼ>7>ʼ'11>7>6Nʼ=4'71.ʼ / '5:.41=4@ʼE4 ʼ 1><7ʼ- ;7 / .6ʼ>.6ʼE<1.416ʼ>.ʼ5.41ʼ?'17%

Kʼ (4(*-+*,ʼ ("0 $'$*'/ + +. -" -(",.) ("-(ʼ +ʼ0$ (ʼ- 0$9* *ʼ (,ʼ- *ʼ$*3(*-$(ʼ 5 $ 4 50+$,ʼ '(ʼ 3 *$5 (.ʼ+ 3(2ʼ - .+*9(ʼ (,ʼ -(.,+$' */ $*+.36(.(,ʼ0(." 0$9* *7$ "8ʼ(*,.(.(*,ʼ(*ʼ4 ', .(ʼ .('4(3,+) (,ʼ$ " .-,+) $.(*,ʼ (3+ (ʼ-+*" +ʼ0$ (;ʼ ('+"( ) #,""4.$ +$.("# .(*;ʼ3 *0 5 -('7 ("0,(ʼ -(ʼ.(.*$ *ʼ+ +ʼ .+*3(ʼ# ,ʼ9- -.+ ((*ʼ- $'7 (" +. (" -(.+*3(ʼ# .(*ʼ 4 +3-(" ' . ("4-.,(/ (,ʼ *ʼ (*0 8+ *(-(4 ,+,$ *ʼ Y +.$'/ 36+.9((-4 4 ,.(.ʼ ("0 (ʼ - ʼ4(4 (ʼ+0$9* *+$" (,ʼ- (ʼ' 3!ʼ ,(.ʼ +- $'ʼ$ *ʼ +*-$"5 ('3(+ʼ'(4+''+$,ʼ-+*" ,+ʼ - 0$9* */ (ʼ3 ,+,ʼ (*+$"$*ʼ-,+$,ʼ+ ''$(*ʼ.+ !ʼ 0((*,ʼ (,+,+0+$,ʼ(ʼ'(ʼ-,+,'9- -.+$$27 +$" (ʼ4.$*3(ʼ+0+$ʼ(*ʼ +.,/ 3 (ʼ+$ (.'/ - (*ʼ- $!ʼ 9*(.ʼ +ʼ3 *0 3+,$ *ʼ *(ʼ3 $''$ *ʼ$*,(. (-$+$.(ʼ 0($ +$,ʼ+ 2ʼ$*,(.-,"4) $3" ʼ4 ,-,ʼ-,+$,ʼ) !ʼ 9 (((ʼ(ʼ-(0 -(ʼ+ʼ9 0(.*((*,ʼ (# $" +!ʼ 9$ + $ *ʼ -(" ('4.$,"#+$'+$,ʼ-(.++*-(.ʼ# .,((*;ʼ +ʼ 3 *0 3+,$ *ʼ -(" -,+," $ "# .(*,ʼ(*#$*ʼ+"( ) -'ʼ "*(ʼ,+.-(.(*ʼ4+" ʼ36+*9(.ʼ-(ʼ* ʼ(*ʼ.+$ʼ *ʼ-(" * 0(($-.('7$"' +44(-.(*,ʼ+''( ) -(ʼ.(!$ 4.-'(*,+,$0(ʼ (" 0$9* *+$" 3,Y.(,ʼ +0+*,+9 ʼ -%8ʼ $.(ʼ+- $'7 +.4(*,.+"' 8ʼ .(# '+/ '!4.-,(2,+ ʼ +ʼ-0'$ *ʼ-(" -(2ʼ ,+,'ʼ (4*$"3$*5ʼ3(*," +*D *-(" *(ʼ.$0+ $,-ʼ-(ʼ0 $'$*+9(/ -(ʼ4 $''+*3(/ - -,+D) $''((*,'4 $,$5 ('(,ʼ-$* (*3(-$0$'+$,ʼ 0$9* *ʼ" (,ʼ +.4(*,.+'/ (,ʼ(*ʼ+0+$,ʼ#+$,ʼ-(2!#$(." (**($'/ (.(#+"-(ʼ +.4(*,.+"*(#$,5 + 9 (*,(,ʼ +ʼ6+6$(7 5 (5 ("0$ (" $ʼ (" 0$9* *+$"+0+$(*,ʼ-("4+.,$1 '+*"'(ʼ' (0-.(*,ʼ3 *,.(ʼ'0 * A 7V.

XI

>.'5" J'1>.'6,5> .'- J,,<' 6.% H,17.> 4<'>>7';:;' /;<7';7.' " J'1>.'<'7 0<'5.'>.';.77.'- 55.8'>;6'>.&' ':. /.<76'>.'6, @'<7.';, / / 4<.6'.7>.';.<7'=4'71.' - <J76'> 6.17.416'7 1'< 6' "?.<'?17.G'.55.' / ,<7' 7' " ?546'>.'71, 6' / 55.':, / / .6' '1 / E.% ?1.6' '-, 1'1. / 6' 5.416' '1 / .68'5" ?54?'17'>.6'>.7';:. / .<76'6;'1.7 1.' 1.<7' 71'<=4 55. / .<7' >'<6' 5.416' ;, / / 4<.6% ,46' ?1,;5' / / .6' ' / < 67 .8'.7'<,46'E / .6'?'17 1'5.6'>.' 6.17.416%

W ,46'< '-,<6''5,16'=4 "<,<65,4.1>.6';:.E6'.7' >.' '66. / O5..' 7.;7,1'5.% 6'6.';,<E,1 / ' .<7'671 ;' 7. / .<7' " 5" 5, 8' .7' ,1>1.' 1>J<' 7'>'<6' - J<,<% ' 6' .6:' <.6.7' .<7'.<;,1.'71,?E1' ;:.68'5.6'1.6' 6.<7 / .4 6'71,?''.7 E6'?,41',07.< 1'4<.'71'<= 55 7>' '06,54.% #'1,<' '-' 5'.7>'4<.'>.';.6' - 55.6' <E,174' <. .6'=4 8'E5,77'<7'>'<66;6',? < ,<68' '-' 7'E,4<>'>.6' >.7';:. / .<76' '4@' >.4@8' '1 / >.6' .<<. / .6% ,46' '- ,<6?1.-4'5.6' .EE.76'>.';.7' <;,<-.< .<78'.78'?,41' 5.6'.- 7.18'<,46' '- ,<6'>;1 7''4';, / / '<>'<7'>.' ,6' 6,<<' 6'>.'?1,7.J.1'5"1.<71..'?'1'44'>.7';:. / .<7' '>.'71,4?.6'>.5 J<.%

W <' '11 -'<7'6,46'5.6' / 416'>.' #'1?.<71'68';.4@' >.'#'1,<'6.<7' '77'=4.6'?'1'5.'?.4?5.' I' 4<'> .4"' .67' / '66'.1>' / '5J1 .6'.EE,176'>.'<,6'71,4?.6N % .6' 7.1,7' 6'?-"5.'1.67.% '5.6'E 7';,<>4 1.' '#'1,<'?'1' 6, @'<7.':, / / .6'>.'5 J<.8' .7'1. / .771.'6,46'5"?1,M 7.;7 ,<' > 4<.' ;,1'?'J< .' > '17 55. .% .' ?.,?5.8' .@;7.' ?'1'4<' <, / / .' #5. / .<78' ;, / / '<>'<7'>.' :'<>.6'>'<6' 5.' B'47 #, / 7'7'W7' '<; .<'>.6.17.41' E1'<J' 68'E47' 0 .<7 7' .<' <6411.;7 ,<% <' '11';:.' ,<0.'>.';.6' / '5:.41.4@'>4';:>7.'4' ,:' ,<' 5.6' '-' 7' >.?,6.68' .7'6,46'5.6' V.4@'>4'>.7';:. / .<7'E1'< ' 6N 5.6',E5 ; .16' / 4< ;?'4@'6.';';:.<7' .7'<.'?'1' 66.<7' ?, <7I' 6. / O5'O5.6' '4@' #'<< 0'5.68' ;.6'0'<>.6'5.6' 71'7<.<7' :,16'>.' / 416% <' 5.41'>,<<.'4<';,<E.6' 6.418' .7' 5" ,<' 5.6' '66'66 <.' 7, 6' ';,4?6'>.'E46 5% ! .7''71,;.'#5. / .<7'E,1E' 7'5.6'?:1.6'.7' / 1.6'>;'..6' / '5:.41.46.6' - ;7 / .6' " '66 67.1' " ;.7''7E1.4@'64?' ?5 ;.%& 66. / O5>.'E1. / 7'> <> J<'7 ,<%P

$ .6=4.'5"<,4-.55.'<,46'?'1- <7 <,46';,<-E<' / .6'> .<''11>7.1'5.6'64 7.6I' / ' 6' ' <67'<7' / / .' E' E'5547' 6.' / 457 ?5 .1I' 5.' ;, / ?5,7' ?'1' 66' 7' 7, / >' > '66'66 <.1' 7,46'5.6'>>7';:. / .<76'>.' '1 / .' '- ' J<,<' 6.8'2'5.41'1.<71>.'?' 6 O5.'>'<6' 5.416'E,V.16N ; 97' 7>'<6'5.6;, / / 4<.6,4 5'V' [7.4'5.'?546'>.' > - 6 ,<I' :4 / '<7>'<,46' >,<<" ' .6' ' 5.6I' <,46' <,46'71,4- / .6'2' ,5.411.8' " 555.8'>'<6'=4.5=4.6' '471.6';, / / 4<.68' " <67'<7' ,4'5.6'6';1 E ;.6' <O4' / ' <6' '55' .<7';, / / .<;.1I' .7' "E,1;.'>.'6, <68'>.' ?1 .1.68'>.'1' 6,<68'>.' / .<';.68'<,46'?'1- < / .6' " 1>7'O5 1' 5.' ;'5 / .% .@?>1 .<;.'?1,4-" 0 .<' '5,16' ;, / 0 .<' <,6' 1.;5' / '5 ,QQ6' '-' .<7' >7.' Q467.68' .7' ;, / 0 .<' <,6'E,1;.6' .7' .<7' <64EE 6'<7.6% '?1 6' / ?,66 0 5 7.'> ,07.< 1'>.6' 71,4?.6' >.'5 J<.' .75" <.;.66 7.'>4'1.E468'<,46'.1E7 / .6'>.-, 1'. / ?5,V.1'5.6' / ,V.<6'=4.' <,46'E,41< 66' 7'5" 5, '>4'U'Q4 55.78' .7' >1 / '<>.1' .<' ;,<6.=4.<;.'>.6' J'1>.6' <'7 ,<'5.6% ,46' .1E5 / .6'=4 5'6.1' 7'?546' ' 6>'> ,07.< 1'=4 <O.' ,<'> @ :4 7' ;.<76'J'1>.6' <'7 ,<'5.68' =4 '<,46'?1, ' / .77' .<7'>.6'1.66,41;.6'64EE 6'<7.6'?,41';,<6,7 >.1' ;.77.'?' @'=4.'5"5, '<,46';:'1J.' 7'> .7'O5 18.5=4.' > ' 55.416' =4 <O.';.<76' J'1>.6' <'7 ,<'5.6'?1 6'>'<6' 5.6'71, 6'>.?'17. / .<76' .7' .<- 1,<6'<.'?,411' .<7%?'6' '7E' O5 1' 5.416' E,1;.6% ,46' .<' ,07< / .68' <,<' 6'<6' 0.'4;,4?'>.' >EE ;4 .6' .7'>.' ;, / O1.4@'1.E46I'>.6' =4.' <,46' ?E7 / .6' .<' ?5';.1'>'<6'> - .16' ?, <76'>4' #, / 7'78'>.' / '< .1.'"?1.-.< 1'5.6' '66'66 <'768'<,46' ;1E5 / .6'=4 5' .7' 7' / ?,17'<7'> <6? 1.1'5";,<E '<;.' "7,46'5.6'?'17 6%>.'E,41< 1' "7,46'5.6'. / J1'<76'>4' #, / 7'7' 5.6' / ,V.<6'>.' 1.<71.1' >'<6' 5'416'E,V.16I' <,46' '>1.66 / . ";.7. .7' '4@';, / / '<>'<76'> - .16' 5<.' <6714;7 ,<8'>'<6'5'=4.55.'<,46'1.;, / / '<> ,<6' 5" ?546' J1'<>.' / ?'17 '5 7V8' ?1,7.;7 ,<'.7'6>1.7.'" 7,46% ,46'E / .6'1.<>1.' "5 0.17V' ' '?1 6,4< .16

;:.16' " 7,<6'5.6'?'17 68' .7'<,7' / / .<7' ' %7 1, @8' / ?5 =4>'>'<6'8 'EE' 1.'>4' / '5:.41.4@' '- 5'66.8' / ' 1.'>.' ' 6,<% " ;,<E '<;.'.7' ,1>1.'6.'1.7'O5 ' 1.<7'.<.EE.7I'7,46'5.6'> / J1'<76'1.<71.1.<7,<'?<1.<7' 1.<71.1'>'<65.'#, / 7'7I';.'E47' '?1.6';.6' / .641.6=4.' '66. / O5...5.;7,1'5..<J'J."5.6';, / / 4<.6"6 6' 6. / O5.1' .7' "> / .771.8' ;,<E,1 / > / .<7' '4@'?1. / ' <' 1.6'>.'?' @8'4<'-,.4' 641'5.41'6,17'?,5 7 =4.8'=4' ?47' .71.'?1.6.<7>'?'1' .55.'5,16=4 .55.' ?-.<>1' 7'4<' ?'17'4 7.1 .41'641'6.6>1, 768''4'64Q.7'>.6' 7'76'> ' - J<,<'.7'>4'#, / 7'7%

W ' ;.77.'>?,=4.8'5.6' / . / O1.6'>.'5" / .> '7 ,<' E41.<7%'??.5.6' ?'1 .6' ; 1;,<67'<;.6' ">.6,;;4?' ' 7 ,<6'> 7E.1.<7.6I' - J<,<'>7' 7' >.-.<45.' ;.<71.' >.6''E ' 1.68'.5' 4<'>.'<,46'V'1.67" I' 5'E'55' 7'=4 44' '471.'641-.E5 >7'5.6' ,?>1'7 ,<6>.' '66. / O5..' .;7,' 1'5.'?,41'5";,<7.< 1'>'7 6'5.6'0,1<.6'=4'54'.7' .<7' ?1.6;1 E.6'?'1'5.'71' 7>% ">. / '<>.'.7'5.6'6,55 ; 7'' 7 ,<6'>.6';, / / 4<.6'=4'6.'?5' J<' .<7'>.'5"?1.E.M 1.<;.'';;,1>.." - J<,<E 1.<7Q4J.1'=4 5'>7' 7' / M ?,17'<7'=4.' 4<'>.'<,46'6.'1.<> 7' "5.416'>.6 168' .7' > 66 ?>7'5.6'#'5, / < .6'=4.'5.6' .<<. / 6'>4'0 .<'?4M O5 ;'.5'5.6'.;1 -' <6'=4'5.41'6,<7'-.<>46'<.';.66' .<7' >.'1. ?'<>1.% .' E46';:'1J.'>.';.77.' / 66 ,<8' .7'Q.' >. ;5'1.'" '4J467.' 66. / O5..'=4' / .<5.4>'=4.8'6' 7,47.6'5.6';, / / 4<.6'>4'#, / 7'7' < ,<7'?'6''5,16'Q,4' >.'5"?' @'5"?546'?'1E' 7.8'.7'5.6' <> - ;546'>.'5"6E5' 1.7.'5" ?546' .<7 .1.' .7'>.%5" 5 0.17V'>.6'64EE1'J.6'5" ?546' '06,54.8'5" ?546' <>V?.<>'<7.8' / , ' 6.4 Q .<' 64 6' .7 / .<'1.<>6'1.6?,<6'O .% .Q" J1'<>'<, / O1.' '-' .<7'> / 6'5.41' -,.4'5,16=4.'Q.' / .'64 6' ?1. 6.<7.' ;:.O' .55.6I' ?546 .416' ,<7' . / 6' .<' <"?1.6.<;.I' " '51. '68' ?'1' .@. / ?5.8' ;:.E 5 .4'>4'?'17'=4'7 .<7' '4' ?'?.8'1'66. / O5..'6 .67'7.<4.'6,46'5"?1,7.;7 ,<' >.' ;.<7' ; <=4'<7.'J'1>.6' <'7 ,<'4@' E1'<;' 68'6,46' <,6'V.4@' .7' ;.4@'>.6' :466'1>6'=4'<,46' ';;, / ?'' J<' .<7% ''E,41< 8'641'5"1V;5' / '7 ,<'>.'5" / 4< M ; ?'5 7V8' <<.' J'1>.'?,Q 1' 5"?,5 ;.'.7'5"6: 1.7.'>,' '66. / O V.8' .7' '66. / O V.' " -,7.'?,41'5";,41'>.' , / .% ' 65.6<.8' " .1 J<'<8' " 55.> .48' 5' .67' '1M 1 -.'5" / > / .';:,6.8' .7'5.6'-,.4@'>.';.6';, / / 4<.6' ,<7' V7V'?,41'5";,41'>.' , / .I' 5' .67'>,<.' / ?,66 M O5.'>.' 1.-,=4.1' .<'>,45.' 5" 5 0.17V' =4' "?1.6 >.' '4@'-,.4@'> / 6% '17,47Q ''?1 ;:>'5"?' @8' 4< ,<8' 5"#,<;,1>.' .7'5" 5 0.17V' >.6' ,? < ,<6'I' ?'17,47Q.' 5.6' ' 1>7'O5 . 8' .7' Q .<' '??.55.'641'5" -.1 7.'>.';.6' E' 568' <,<'?'6' @'6, @'<7.';, / / 4<.6' '4' -.45.<7' >71.' E1'<?' 6.68'Q .<' '??.55.' '4@';:.E6' '.';.4@'=4' ,<7'-, >'.<'6.<6;,<71' 1.%

W#.77.'>>5 0>1'7 ,<'> - J<,<' .7'>4'#, / 7'7" >7>' E' 7.''4'? , 6>.'E>-1 .18' "4<.' / 'Q,1 7V'>.'6, @'<7.' :4 7';, / / 4<.6';.<71.'6. 0.I' / '768'1.Q.7..';, / / .' < 'V'<7'?'6'.7>'?1 6.'5 O1. / .<78';.77.'>>5 0.1'7 ,<8' > 6 Q.8'6 .67'E' 7.'>.'<,4-.'4''4' / , 6'>.'Q4 55.78'6,46' 5" ?1,7.;7 ,<' .75" J'1'<5 .'>.'5"H1'<;.8'6,46' <' E54.<;.>.5"?546' / ?.17410'O5.'5 0.17V8.7.55. "?1, ' >4 7'5.6' / > / .6'1.6 57'76'N ; <=4'<7. =4'71.' ;, / M / 4<.6' -,7.<7'5" 1>4< ,<' " 5" H1'<;.8' > @ :4 7' ;,<6.1-.<7'5" >>5.J'7 ,<' >4' ?,4-, 1' .@. .47E' '4' ?'?.8' .7'>,40.8' ,;;4?>.6'>.'5.416'71'-'4@8'1.E46.<7' >.'6 '66. / O5.1'>.'<,4-.'4'I' / ' 6'.55.6'6,<7'>4'<, / M O1.' >.';.55.6'=4 8' .<'E>-1 .18'-' .<7'-,7.'?,41'5" % 1>4< ,<' 2' . / ?1.'E1'<;' 6% 5'V' ">,<.'4<.' / 'Q,M 1 7V'5,4Q,4165'466'?1.?,<>.1'<7.?,41;.77.'1.4< ,<% '?1.6' 5.';, / ?7.'=4.'Q '' .4' ;,<<.41'>.' -,46' 1.<>1.8'-,46' '-.O' -4'=4.'5"<7>> '7 ,<' "E' 7';.66.1' 7,47.6' 5.6';,67 5 7.6'.<71.%5.6'?.4?5.6'> - J<,<'.7' >4'#, / 7'7 I=4 .55.''1>7'O5'?'17,47'5"?' @I'=4 ;5 ;' "E' 7'1.<71.1'>'<6'5.6';, / / 4<.6'>4'#, / 7'7'7,46'5.6' > / J1'<76=4.'5.6'71,405.6'.<''-' .<7'.5, J<.6I'.55.' ">,<.'1. / ?5'5.'O47'=4.' 66.< O5..'<'7 ,<'5.'6.' 7' 7'?1,?,6.'>'<6'6,<'>..1.7'>4'C ' / ' %

W#,<E,1 / . / .<7' '4@'?1>5 / <' 1.68'5.6';, / / 4M <.6'6.'6,<7' ,;;4?>.68' '4'6. <'>.' " ?' @' .7'>;'5'

[illegible]

[illegible]

[illegible]

.7 , ' ? 7 6 .416 '451.6 5\W6 , ,<6. 56 J < 1'4@ >.6 > ? '17. ' j
/ .'76 >, -.<7 '57.1<.1 '466 '>'<6 ; .4@ >4 '18 >. 56 1;
.7 >. 5 1> / .8 E' - .41 >. ?1.6=4. 7 ,47.6 5.6 - 55.6 =4
! 6, 76 747.6 34 ,S >. ?546 1 > ;45. .7 >. ?546 ,<#1.4@
8 =4. >.6 '> / < 671'7 ,<6 ' <6 JV1,1'J4.6 =4 <#; .66 7.<7
' / 045'<;. >.@?'? .16 >.6#, / / 6 7 / 457 ?5 ; '5 ,< >.6
0 7 / .<76 ?,41 5.6 1. ; .- , 18 5. > 405. / .<7 >.6 E1' 6 >.6
'> / < 671'7.416
?,4-' 7 71. 7,5>1'05#8 6,46 '<; .< 1.J / .8 =4. 5.6
'66. / 05 .6 >.6 7'76 6. 1.<> 66.<7 '57. / '7 - . / .<7 >'<6
>5 1.<7.6 - 55.6 >.6 ; >.-'<7 ?1,- <; .6I '5,1] 5 < .@ 67'7
?'6 > '> / < 671'7 ,<6 5, ;'5.6 640,1>,<< .6I / '76 - ,71.
; ,<65 747 ,< 5'05 4<. '641-. 55'<; . > 1. ; . 641 7=46 5.6
?, <76 >. 5G. / ?1.'7 #0'=4. '>1' <E6 1 71,4-. ?1 6 >. 54
4<. '> / < 671'7 ,< =4 5. > 1 J.05. ; ,<6. 55.8 5. 1 J5. >'<6
5.6 > E ;455 6 =4. ?.4- .<7 E' 1.'<' 71. 6.61.E'7 ,<66, ; '5.6
<6 ' / 045'<;. >.6 '> / > 671'7 ,<664? 1 .<1.6 .67 >.
- .<4. <,< 6.45. / .<7 <47 5.8 / ' 6 ; . , =4'<7.I 5.7<' / .<7
.67 - .<48 .7 5 .67 <67'<7 >. ?1,6;1 1. ; .7 '0 6I ; '18 '46
6 7>7=4. 5.6 '> / < 671'7 ,<6 6.1,<7 1.<,4-.5 .68 5.6 '57.1
<'5K >, - .<7 .71. .@.1; 6I ,< 5' 66.#' 7 4<. ?, / / . > 6
; ,1>. >'<6 5.6 >.?'15. / .<76 ?,41 5.6=4.56 .@ 67. ; .77.
<67 747 ,< - ; .46.8 .7 =4. 0 ' 7,40,<16 ; , / 0'774.
?'71 ,5 6 / . .75 1' 6,<6. 6,<7 1 4? 6 ?,41 5 1.0.7.18 .7 5
> - 6 ,<>4 1,V' , / .8 / '5J1 6.6 >.7'476 .67 4<. 0'6. >
6,1 / ' 6 <.01'<5'05.>. 5 ; ,<67 47 /
, > 5. ?1,0.7 >. > ;1.7N

W 66. / . . <'75,<'5.8 '?1 6 ' - , 1.<7.<>4 5. 1'??,17
>4 ; , / 7. >. ; ,<67 747 ,< .7 > . / ?5'; . / .<78 >.;1#7. ; .
=4 ' 6 4 7N
W 17 Sr .6 '57.1<'76 >.6 '> / < 671'7 ,<6 > >#?'17.
<.<768 >.'> 671 ;768 ; .4@ >.6 '66. / 05#.6 > . >.?'17. / .<78
. '0556 ?'1 5.6 >##1.76 >. 5 > - 6 ,<>4 1,V'4 / .8 6,<7 64?
?B / .6
8 .6> 7.6 '> / < 671'7 ,<6 .7 '66. / 05>.6 >. >.?'17.M
/ .<7 >,<7 6 . / 0 . . <'7 ,<'5. ' -' 5 '> / 6 5 57.1<'5
>.1' .4E.1,<78 .< ; ,<6.=4.<; . >.6 > 6?,6 7 ,<6 > '17 ;5.
?1.; .>.<78 3@. ;6>'< > 1. ;7, 1.6 > .66,<7 ';54.5
/ .<7 .7'05 .6
W .6 5.J 65'741.6?.411><78 '?1 6 =4. .@?.1 .<; .
'41 / '< E.67. <5#1.7 .7 5. - , .4 >.6 '> / < 671.68 >#;1.
7.1 5.41 6 . .< > '471.6 - 55.6G
#. ?1,0.7 >. > 1.7 .67 '>,?7.
+ K'0'4> ?1,6.<7.8 '< <, / >4 #, / 7. '> 7' 1.
4< ?1,0.7 >. >#;1.7 'V'<7 ?,?1' ,00.7 > ; ,1>.1 > - .1
-'<7'J.6)4@ / . / 01.6 >. '<; .< ; ,1?6 >. 5 / 671 8
;5 '466. . 641 ; .4@ >.6 , ; .16 >. 5' <,4- .55. J.<>'1 / .1
=4 ,<7 .7. <, / / .6 ? '1 5.6 '> / < 671'7 ,<6 >. >.?'17.M
/ .<7 8
#<6K' ,;K N . - , 6>'<6 ; ?1,0.7 >. > . ,1.7 .6?1
>. ; ,1?6>. '<; .<<. J.<>'1 / .1 . ?1.>, / <.1 641 7 ,47.6
5,76I 0. - , 6 =4 ,< ; . .1;5. ; ; '05.1 >. >.J,07 5.6
,E ; .16 <, / / #6 ?'1 c.6 >#?'17. / .<768 .7 0 5 -1.1 7,47.6
5.6 ?5'; .6 '4@ '<; .<6 / '1#; ; '4@ >.6 5,J 6 #.?.<>'<7
- ,46 ' - .0 - ,454 =4. ; .6 ?5'; .68 =4 ; ,<E.1.<7 .@.1; ; . >.
7,<;75,<6 ; - 5.6 / ?,17'<5.68 <. E466.<7 ?'6 >,<<#.6 '4
0'6'1>
. >. / '<>. 5' =4.67 ,< ?1. '5'05. 641 5. ?1,0.5 >.>#;1.7
>4 ; , / 7.
546 .416 / . / 01.6 '?? 4 .<7 5.6 ,06.1-'7 ,<6 >.
#: '01,4>
66. / 05 . >. ; >. =4 < V ?'6 5 .4 7>. 0#1.1 641
5. ?1,0.7 >. >#;1.78 .7 >>;1#7.8 641 5 ?1,?,6 7 ,< >.
.6< .4< .168 5 > 6?,6 7 ,< 64 - '<7.N
W 66. / 05#. <'7 ,<'5. >. ;1.7. =4, 5.6 <, / <'7 ,<6
>.6 ,E5 ; .16 >. 5 J.<>'1 / .1 <'7 ,<'5.'E' . \8 ; ,<E,1 / .
/ .<7 5 5, 8 ?'1 5.6 > 1; ;7, 1.6 >. >.?'17. / .<78 6,17
1,<5 5.41 .EE.7 8
.6> 6 ,E5 ; .16 1. ; .-1,<7 5.41 ; , / / 66 ,< >4 ?,4
- , 1 .@. ;45 E8 . 56 6.1,<7 .<.-,V#6 '4@ 5 .4@ =4 ,<7 >7>
,4 =4 6.1,<7 E@#6 ?,41 5.41 1.6 >.<; .8 +
+ '55.V1'<> ; ,<7 <4. 5 5. ;741. >. 6,< 1'??,17 641
.>4; '7 ,< ?405 =4.
+ . ?1.6 >.<7 '; ; ,1>. 5 ?'1,5. '4 / < 671. >.
<7.1 .41
7g (. .67> / ,< >.- , 1 > '??.5.15 '77.<7 ,<
>. 66. / 0 . . <'7 ,<'5. 641 5. ?, <7 / ?,17'<7,>. '640
6 65'<; ;6 1. ; ,57. .5#, E< / .177 <1.1 . 1. ; .> >.
5 '<4. . >.14 01.I ;55. (,(>. ?546 ;@7 . / .< .<7 <>J'5. I

>'<6 5.6 >.?'17. / .<76 / .1 > ,<'4@8 .7 6417,<7 ?1 6 >.6
71,<7 01.68 .55. .67 ?1.6=4. <<55. 1.67. .<; ,1 >.6 '??1,
- 6 ,<<. / .<76 >. '<<. . ?1. ; .>.<7.I / ' 6 4<. E,45. >.
>.?'17. / .<768 ; .4@ >. 5 ,1>,J<.8 >. 5 ! 1,<>.8 >. 5
#,1100.8 >. 5 ; 01.8 >4 #'5- '>,68 >. ,7 .7 ! '1,<<.8
>4 ! .168 >.6 K'66.6 5?.68 >.6 K'66.6 V1.<.168 >. / '<
>.<7 >.6 6. ; ,4168 60 7 .< <'741.8 6, 5 .< J1' <6 55 / ?,17.
'-'<7 7,47> '6641.1 5 0.17. >4 ; , / / .1; . >.6 6406 67'<
; .6 . ?1 . 66. / 05. >. ; : '1J.1 6,< ; , / 7. >.6 E , '<; .6
>. 54 ?1.6.<7.1 <; .66' / / .47 >.6 -4.6 641 ; .7 ,00.7
66. / 05. . ,1>,<<. 5. 1.<- , ' '< ; , / 7. >.6 E<'<; .6
6. '<; . .67 5.-. . 71, 6 0 .41.6.7 >. / .

C *!

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! / - BHTB K

.(.(" (,'3 *3$, 8(*':

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(*,'(,'+ '$( )$((*+,$ *+ (-(* " -($)(.+,$ *" -(" X (,
BW - 4.('(*, *? $f .(+,$.(" + 4+8((*, -(" 3 *$.$) ,$ *
3 * -(0 " (- $, (" $9* .(.
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* ,.(+.. *-$''(.+(*,7 0 " 3 **+,,.(U 4+. + (" -$'4 '$,$ *"
5 (* " +0 *" #+$,(" 4 . + 4. 4,(($(3 ,$ * - -(3.(,
- 'WE * -(.*$(./ 5 $ 4 .,(5 (/ + 4+. !3 4,(' . ("
& 3 *,.$) ,$ *" -(3(,,('+**('(/ * 5 +.,-("3 ,$'+,$ *" -3
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+44. # *-$.' (" ,'/ 0((*,' '(' 4. 3 .(.' ("#+3$ $,("-D8
.(3 .$.'+ ')(' $*'J 4+.' 0(' ! + -('A .-+$*/6 ('-('
$' +' (**(''/ *!E '-(XXG 4+9(+' .$2' 0'BI'' '). !
36-/ (,'G' $0' BI' #.+*3' -('4 ./ 4+.', ,' ('. 8+ (' '
(**(''/ 36(U' ". ,,(/ $ 4.$ (.! $).+$.(7 ' +.$'/
36(U' ' "($ /).+$.(/. (' +$*,!A+35 ('/ 'Q=WG/ BHTB/

K + ,(.'3 ,*4 +$,'- +) .-'.(''(..('-+*" *''($'0 ('
4 .,+,$# (2,.+$,'-(', ,(" (" $,'-((.-,-("4+.' ''( ) 3('
*+,$ *+ (' 3 ',$, +*,(7 +$" +' ,$4 3,-' -('3(" $ $" +'
) $9('+'4+.,+9 .'' *' ,.+0+$'(*' -(2' ('/ (,' ,$$,('
< *,'4(,'(,.(' (%4.($(./5 ,'3(*,$(*', ' "-$3.(,"4 .!
,(" '5 %+' '#$*' -('BHTI/ (*9+9(' ' ('4) $(.'+0+*,'5 ('
(' '(3 *-' 4 $''('4+.+$,.(' (, $!3$ (*,$(*-.+' 4+.' ' 44 (!
(*,' (2,.+$,'- '.(',(' -("--(.(," '5 % ' +' #$*' -(' ' (9$'D'
+, .(
$(*' -('4 " $,$('5 ('3(',.+0+$/ 5 $ 4(,' $%+-+4,(.'-9+!
((*,/3 (',+) ('+ 46+)(,$5 (' (,.+$' **-(/ , ,(" ("
3,0(.'("3 (3,$ *" 5 (' *' +' #+$,(" '5 (' *'4(,'#+$.('
-(" $"5 $,'.-9-*-.-' +' .+*3(D' ,,+' ("3 , ("4(&

0(*,'Z(' 3 *' ,(.' +0(' #. $,7 +$"$' @.+' 4.$*3$4+ (3*'
,$ ('+' ' * 0(+ 2' (9$' +,(,$."(,''3(2'5 $ ' $0. *,'+,!
,(*,$0((*,' (.",.+0+ 2/ (,'5 $'0 -. *,' ("3 4+.(.'' $
36+5 (' +,$(.('+0(3' 3(2' -(' (."4.(-(3(''(*.'
/A .-+$*' #+$,'-(4(*-.('(*'5 (5 (' ' .,'' +'4) $3+,$ *'
-(' ' *' '(3 *-'0 ('-(' +44.)+,$ '5),$3*-.+' ('4.(1
$(.7 * " *('- , *" 4+"5 ' *('.($05/ 4+.' *'4. 4,'
-()$,/ (*3 .+9((,' (' $*"(5 $0 5 (/ (,'* " (26 .!
, *" ' +36(0(.'4. 4,((*,' *(' (*,.(4.Y(' '$,$ (' (,''$
6(.('((*,'3 (*3((
*'G ' ' ('$ ' ' @ ' ' '
@ A(' ' 1 ' ' ' (+3. $2/ 4. #(''(.'-('
-. $,'4) $3'+' 8 ((' (3 *-('(%-$,$ 'f P' 0 '$*=E ' .$2' 7
E' $0 /). 36(/ (,'T' $0 / #.+*3' -('4 ./ 4+.' +'4 ',(' ' +1
..'/%36(U' ' " $'' */$ 4.$ (.! $).+$.(/. ('@+ ,(#($ 3'
*CWI
+'@ ' ' V ' ' 1 ' ' ' ' ' '
'8'+' $,' *(('('5 $''('-("4 .,.+$,"-(' +' +$' *'.(9*+*,(/
B' 0 '$*!EQ=' .$2',' W' $0 /). 36(/ (,W' 0'E' ' '/ #.+*3' -('
4 .,"4+.' +'4 ',(' ' +.$'/ (('+-.(''(
:'G ') ' ' '3 *,(*+*,' +' $'4 '
(U-(,$ *'-'* 0(+ ',+.$#/ ('-(3.($".(*- "' .' +',.-9$Q
-("- +*("*+$ *+ (" '5 %+ ' DDD+0.$' BHTB/ +0(3' *' '
,.+$,'-(" ,.+$,("-("4 $''+*3(" (,.+*9(.(" +0(3' +' .+*3(7
.(+$$ '+ 2 - +*('
('0(*-' +' +.$'/+ ') .(+ '-'-
. (' 6+)+*+$'/ P' .$2',' W' 0'E' ' '/ +' +.$'/ (
X' 0 / #.+*3' -('4 ./ 4+.', ,' 3' . 8+ (/
+'9 ' ' ' G ' ' ' ' '
& * ' 'BHET/
5' '(3 *-(' (-$,$ *7 +' +.$'/ 36(U' / +0$6'
(,,3/ $).+$.(/. ('-' '"+,, $./ %'G
$+@ ' ! (')
'$ '4+.'@' (.0+*' .$2,'B $0'
F'E' (('+-.(''(

! & " &' &' % 'C (+$* +' B%D'.(4.(''(*,+$ '
/ 'G9 ' & '3 ,* -$(' 8.$5 (' (*' W' +3 ('/ $
+' # %' -(' +'.(4.$'('- ')+ (,'-(' < (1 ' ' +.-(
& & ' ' ' 7 'V' ' '- ' ' '
I,,$G-$((*'W' +4,('/ ' 0(%- '
) & ' ,$ */! ! ' +' PE%' .(4$ '(*,+,$ *' - A
''4. (#(-(('-(' ' &
& * % '. (' -(' $36($(V! / +' WED'.'
4.('(*,+,$ *' -(' ')' & *'3 (-$('* 0( ) '
4.(3(--(' ')@ ' 'F '3 $*(- (($$' *' +3Z(
- ' '5 'K K 1 J ; >.-'<7' -(' *'$(. V!'
' +' X%' .(4.('(*,+,$ *' -(' 2 *' 4(.+'#.+*c+$" 3*'E'
+3 ('
'+ (-+*,' +' D%D'.(4.('(*,+,$ *' -(' ' '
3 * (-$((,' +' - 'G ' ' '% ' 4(.+' # $(
5. K ' ' ' + % + +$'!
8+ V ' +' BW%' .(4.('(*,+,$ *' - H'+G(, (-(X+ '$ .8/
4(.+' * 0(+ '(*' P' +3,('
(+$*' +' B_'.(4.('(4,+ $ *' -(' '$ ' '
3 (-$('* 0(('(*' X' +3,('
- ' ' 3 ' ' 3 ' &'
' ' $ ' ' & '3 (-$('(*' E' +3,(" +0(3' '."
+9.((*$'7' (" (2(.3$3("- ' (*(' *9 +$';' ' '
5' A, ' ' ' ')@ ' *'
3 (. */ 4+, $ (' $ $,+$.(7' '$ ' , ' A'
$ ((,' *'* 0(+ ')+ (,
! "& #$ % '+ ') (0+.-'- ' (4 (V $$.-'
+' Bm'.(4. (*,+ $ *' $ ' ; ' ' '$ ' V '
4+*, $ ('(*' P' +3 ('/ 4.(3(--(' -(" ' (,'-("
$ ' '8 '4$(3('(*' *' +3 (/ +0(3' '("+9.(!'
(,'
- '4 '.,B 3 ' ' * V ?' , '
' ' $ ' ' 0(%- (')'
$ '% & ' 4(.+') #
- % ' ' E.K 8 14.' ' <7 '15 <% + 40% 5" '
1.?1.6.<7'7 ,<>.'5"F ' ''), ' G & 3'64 - .'>"
'0@ 'F '(,'-(' ;
- ' ' ' ' ' 'V' ' ' '
'G, &('3 (-$('(*' *' +3,(/ 4.-((-(('-(" , A'
4(.+'($5 (/ (,'-(''), '8
+ ' ' 7 8 . (- ' +$/ * %BT V (',' &
0(.,, " (" .'/ $,'5*%$',(()(.('5 $4 + , ("
) **(" - .'.(',(.

! b ʿ ʿ ʿB ʿ55 5%

.ʿ< + ʿ/6ʿ+ ʿ/17/ʿ Mʿ "

>.1'7 ,<ʿ>.ʿ6.6ʿ1#?,<6.6ʿ " 11 7>5.Q4J.ʿE5,1.<7 <=4 8ʿ %$
<E,1 / .ʿ>.5"1.-,547 ,<E1',=' 6.ʿ&;, / / .ʿ, < .67?'17, ,7
;0.0ʿ .71'<J.1P8ʿ '??.5' 7 4< 1.?' 1.ʿ >.ʿ 6;. 01'76ʿ ,<
6><'7 >.ʿ1.J ; >.6% .ʿ0<J.ʿ.7 ';;46>ʿ< ,<7ʿ?4ʿ?'1-.< 1ʿ0ʿ
6 .<7.<>1.% #.ʿ>.1< .1ʿ".7>ʿ / 6ʿ'4ʿ;';;,78ʿ ,0ʿ\ " ?'660ʿ
71, 6ʿQ,416% <E< 5ʿ ".7>ʿ / 6ʿ .<5 0.17.8ʿ / ' 60 ;<5>7 5ʿ "
1.ʿ,<<4ʿ =4.ʿ 5.ʿ ?1. / .1ʿ 46'J.ʿ =< 7 >.@' 7 E' 1.ʿ>.6ʿ"5 M
0.17.ʿ.7' 7 >.ʿE4 1ʿ '@..ʿ6" E' / 75.8 .7>.ʿ =4 77.1ʿ?, ,1ʿ7,4ʿ
c, ,16ʿ <,71.ʿ - 57.8ʿ ,0ʿ 6" E,174<.8ʿ 6,< <>4671 .ʿ.7ʿ6"?.1W
6,<<.ʿ6,<7 .< 0,<<.41%
.67ʿ5.ʿ />/.ʿ E% #0'4@.7 ;0.0ʿ=4ʿ .,?,5>8ʿ '5,16ʿ
J1'<> >4.8ʿ6.?5' 6' 7ʿ0@.< 1;'46.1E' / .1. / .<8ʿ.76G<ʿ
671, 1.ʿ>.6ʿ <J.<. "ʿ?1.;.>.6ʿ>.6ʿ'176%
ʿ ʿ ʿ \ 1 ʿ ʿ8 ʿ^ʿf 'EE' 1.ʿ>.ʿ
% #5 '4-.78ʿ >,<7 @, ,6ʿ @.<.08ʿ / .66 .4168ʿ> <6714 1.ʿ5.ʿ
?405 ;8ʿ< .67 / '5:.41.46. / .<7=4.ʿ71,? 77' .% ʿ< .67=4.ʿ
71,? ;.17' < =4.ʿ;.ʿ;> J<.ʿ <#J, ;'<78ʿ;ʿ7>5>ʿ?'71 ,7.8ʿ;ʿ ʿʿ
1.6?.;7'05.ʿ?#1.ʿ>.ʿE' / 55.8ʿ@, 7 6" E,174<.ʿ ;, / ?1, / 6.8ʿ
6,< .7'7 1.<@.16.f =4 5ʿ .67 .0'66>ʿ'@.#6.6ʿ?.<'7.6ʿ> 4<.ʿ
7.11.ʿ =4 5ʿ '@' 7 .<1 .0 .8ʿ .7=4.ʿ 5" ?.16.;47 ,< <E0 /.ʿ
>.<7 5 .675" @ ;7 / .ʿ54ʿ ">7.ʿ6<6; .ʿ?'15 0, / /.ʿ=4.ʿ5"
<'7 ,< ?'V' 7 .6?106ʿ?,41ʿ5.ʿ>>E.<>1.% E' 6 5 .67?'66>ʿ5.ʿ
7. / ?6ʿ ,0ʿ ,??1 / .ʿ <.ʿ71,<@' ʿ<ʿ' / 68ʿ<ʿ@.<J.ʿ'<;.f
B% #E''<@.7 '41" ?,41ʿ ' / 6 7,<6ʿ5.6ʿH1'<=' 68ʿ?,41ʿ@.<W
J.4167,<6ʿ5.6ʿQ4J.6% .ʿ?405 ;'??1.<>1" 7,=6ʿ5.6ʿ>.7' 56ʿ
>.ʿ;.77.ʿ,> .46.ʿ'EE' 1.f 5ʿ6'41";, / /.ʿ5"0.4<.ʿ>?,46.ʿ>.ʿ
% #0'4@.7 " .7;ʿ 6,5 ;7..ʿ> '0'<>,4<.1ʿ6,< / '@ʿ0ʿ5"
:ʿ<.ʿ> 4<J,4@. / . / .<7,??1.66.4 f., / <.K7..77.ʿE. / /.ʿ
'466ʿ@.174.46.ʿ=4.ʿ0.55.8ʿ "1.?,46 ʿ'@7;ʿ <> J<'7 ,< 5"
?1,7.;7 ,< 0,<7. 6.ʿ=4 ʿ54ʿ .7' 7 ,EE.17.8ʿ .7;, / / .<7 .55.ʿ
/ /.ʿ "?1.66.ʿ6,< / '1 >.ʿ=4 77.1ʿ5.ʿ?'V6ʿ,0ʿ.55. 7' 7<>.%
ʿE'4>1" 0 .< '466ʿ54ʿ> 1.ʿ=4.ʿ .6? 7>.ʿ % 41E,17ʿ54ʿ
"641@>;4ʿ>'<6ʿ5" 5.J'7 ,<ʿ>.ʿH5,1.<;.f '< 54ʿ1';,<7.1"
=4.ʿ % 'E5,57.8ʿ=<ʿ5 " 1. / ?5';>ʿ .< =7'5 7.ʿ >.ʿ .0'1J>ʿ
> 'EE' 1.68ʿ " ;,<67' / / .<7 1.546ʿ 0ʿ % & 0'4@.7 <7.>ʿ
=< 5 .7' 7 ,05 J.ʿ>.ʿ?1.<>1.ʿ0ʿ6" ;'46.f 5ʿ, '??1.,>1"?'6ʿ
6'<6.7,<<. / .<7 =4.ʿ;.ʿ1.?1.6.<5ʿ'<7>.5"'<'7 ,<E '<='76.ʿ
"?,466.ʿ5.6ʿ.J'1>6ʿ?,41ʿ6,<ʿ?1.>#;.66.41ʿ0ʿ46=4 01.E<6.1ʿ4<
?'66.?,17ʿ0.. / '5:.41.4@H1'<=' 68ʿ';;46.ʿ>.=4, > .71.ʿ
H1'?,' 68ʿ.7> ' / .16,< ?'V68
W #.6,<7 5ʿ0>.6ʿE' 568ʿ / .66 .4168ʿ>.6ʿ0 76ʿ;,<67',/W >.6ʿ
E' 56ʿ>,<7 7.ʿ;, / 7.ʿ> ?5, / '7 =4.ʿ>, 7 '@, 1ʿ?5. <.ʿ.,<<0 6ʿ
6'<;.8ʿ .7>.<7 5ʿ .67 0 .< .71'<J.ʿ =4 5ʿ<,46ʿ' 7 E' 7 / V6ʿ
7,1.ʿf ,<5.ʿ71, / ?.ʿ6 55.6ʿ J<,1.f 5ʿ<,4671, / ?.ʿ6 5ʿ<,46ʿ
5.6ʿ;';;.% 5' 6ʿ0 .,5>7 % '4-.7ʿ@ .<>1'54 / . / .ʿE' 1.ʿ
.<7.<>1.ʿ>'<6ʿ 5.6ʿ 71 04<'4@ʿ5" @, @ʿ>.ʿ ,??1 / .8ʿ-, @
7.11 05.ʿ>'<6ʿ4<ʿ?'V6ʿ5 01.8ʿ@, @ >,<7ʿ5.6ʿ'.;.<76ʿ6,45 @.<7
<> J<'71,<ʿ>.6ʿ0 / .6?'1.6ʿ 7ʿ?,17.<7H.5 1,ʿ>'<6ʿ .;;.41ʿ
J'<J1.< >.6ʿ Q11'<6%6

! %

9 &ʿ ʿ ʿ ʿ+ʿ ,6ʿ>.W@ʿ / . 55.'1.6ʿ
E. 55.6ʿ .7ʿ5" ?54?'17 >.6ʿ J'0.77.6ʿ>.ʿ 55. / 'J<.ʿ<.ʿ6.<7
1; / ?5 .6ʿ 0ʿ4.ʿ>.ʿ / .<';;6ʿ; ,<71.ʿ7" H1'<;.% <ʿ3ʿ 71,41.ʿ5"
5 65.ʿ>.6ʿ?4 66'<;.6ʿ=4ʿ>,0-.<7 6.ʿ5 J4.1ʿ. ,<71.ʿ5.6ʿH1'<G
=' 6ʿN ; .67;, / / .ʿ6ʿ ,< V ?'15' 7> 4<.ʿ<,4-.55.ʿ;,<=4 7.ʿ
>.6ʿ ! '45.68ʿ,E5.17.ʿ?'1ʿ6, ,6;1 ?7 ,< ʿ7,47.6ʿ5.6ʿ#341,<<.6ʿ
>.ʿ 41,?.% ʿ<.ʿ7 .<7=4 5" H1'<;.ʿ>.5.7.1ʿ<<'1 >ʿ;,5.ʿ
<.E55]'05.ʿ6<1ʿ;.77.ʿ<,05.66.ʿ>, J1..ʿ=4ʿ >7,41> 7 5.6ʿ<'M
7 ,<6ʿ>.ʿ6,< 6,7 / >?1 6ʿ?,41ʿ5.ʿ6.;,<>ʿ?.4?5.ʿ=4 8ʿ>'<6ʿ5.ʿ
/ ,<>.8ʿ' 7 -,454ʿ';;, / ?5 1ʿ5.ʿ-,.48ʿ> 6,<6ʿ / .4@8ʿ ,1>1;ʿ
>.ʿ5"<'741=8ʿ.< E,<>'<7 '5 7.8
ʿ,06.1-.1ʿ> ;ʿ5.6ʿ>-><. / .<76ʿ?' 68ʿ5.6ʿ>-><. / .<76ʿ
';74.568ʿ .7 7'<7 >.ʿ / ,4@. / .<76ʿ '06,74 / .<7 <,4@.'4@
?'1 / ʿ5.6ʿ?546ʿ?4 66'<76ʿ?1 <;.68ʿ.<<.ʿ?.47 6.ʿ1.E46.1ʿ"
.6?, 1=4.8ʿ6ʿ5"H1'<;.ʿ.67 '75'=<>.8ʿ.55.ʿ>,<<.1" .@. / ʿ
? .ʿ >77<.ʿ J4.11.ʿ, ʿ5.6ʿ64;;'6ʿ> 4< ?.4?5.ʿ6ʿ ;,41'J.4@
.7 6ʿ <5467. / .<7 ,EE.<6.ʿ;.ʿ'<J.1,<7 '-'<7'J.46. / .<78ʿ"
71'@.16ʿ5.6ʿ ?.1 568ʿ5.6ʿ>>6'651.6ʿ .7ʿ5.6ʿ@ ;7, 1.68ʿ5" E';.ʿ
>.6ʿ;E',6.6ʿ>'<6ʿ5,47.ʿH 41,?.ʿʿ'-'<7 5.ʿ / 5 .4ʿ>4ʿ6 .;5.ʿ
?1,.0' <%

% %

ʿ ʿ ʿ) ʿ 4 ʿ +ʿ .ʿ1, ʿ.7ʿ5.ʿ?1 <;.ʿ1,V'5ʿ6,<7
1.@.<<6ʿ0 .1ʿ '4ʿ6, 1ʿ>.ʿ 5< 50.7ʿ>.ʿ 1.6>.0ʿ ,76>' / f
,< <.ʿ6'57 1 .<ʿ>.ʿ;.77.ʿ. ,71.-<.8ʿ>,<7ʿ5" / # / , 1.ʿ6.1"
?.47 .71.ʿ4<0,41ʿ;#5.01.% .ʿ1,ʿ>.ʿ 1466.8ʿ';;, / ?'J< ʿ>.ʿ
6,<E 56ʿ.7ʿ>4ʿ?1 <;.ʿ>.ʿB, :.<5, :.8ʿ6.ʿ1.<>7 .C ʿ'4ʿ;:'M
7.'4ʿ>.ʿ 5< 508ʿ'4ʿ / 5 .4ʿ> ,<;,<;,,16ʿ?1,> J .4@ʿ>>ʿ
71'<J.168ʿ?'1 / ʿ 5.6=<.56ʿ ,< > 65ʿ<J4' 7 % 5.ʿ >4.ʿ >.ʿ
. / '18ʿ5.ʿ J.<.1'5ʿK,4 5ʿ.ʿ ʿ % 5.ʿ?1 <;.ʿ>.ʿ '66'4%
. .;7.41ʿE 7>.,@ʿ5 .,.6ʿ?, ,1ʿ'57.1ʿ'4 >.-'?7>.ʿ ʿʿ
0.67.8ʿ.7 ;.6ʿ>.4@ 'E 1.<78ʿ5.ʿ5.<>. / ' <8ʿ0ʿ?.<
?1#6ʿ'<7'<7>..0. / <ʿ?,41ʿ'57.1ʿ0ʿ5"1.<;,<71.ʿ>.ʿ . / ?.ʿ
1.41% ʿ.67 ?1,0'05.ʿ=<.ʿF ʿ> 17, 6ʿ6 .67 71,4-.ʿ0ʿ;.77.ʿ
.<71.@4.f 5" ?1.6.<;.ʿ>.ʿ % K,4 5 .ʿ<.ʿ?.1 / .7ʿ?'6ʿ> .<
>,47.1%

%

ʿ - / 78ʿ&.ʿ C ʿ +ʿ ʿ.67 '11 @.ʿ ;S8ʿ>.?< 6ʿ=4.5ʿ
=4.6ʿ0,416ʿ4<.ʿ .6?0..ʿ> .<",V.ʿ>.6ʿ.@#=4.6ʿ.7 ;41>6ʿ=4ʿ
,<7 1.E46.ʿ5.ʿ6.1 / .<7ʿ?1.6;1 7ʿ?'1ʿ 66. / 05>.ʿ<'7 ,<ʿ5.ʿ>.ʿ
H1'<;.8ʿ E% '00.ʿ>.#' / 0 68ʿ@ ;' 1.ʿ J.<.1ʿ5ʿ>4ʿ> , ʿ
>.ʿ #:'171.6% ʿ">>ʿ,05.< 1ʿ4 .ʿ'4> .<;.ʿ>.ʿ " ' <7.7.8ʿ
=4ʿ"1.<@,V>ʿ0ʿ5" ;, <J1 7 ,<ʿ>.6ʿ;'1> <'4@ʿ<, / / .6ʿ0ʿ
;.7 .EE.75">6;466 ,< >.6ʿ> 55 ;45 .6ʿ6771ʿ5.6=4.55.6ʿ '00.ʿ
>.#' / 0 6ʿ.67ʿ6'<6ʿ>,47.ʿ@.<4ʿ;0.1;.;1ʿ4<.1>?,<6.ʿ'4ʿ
%70. 7=4.%
.ʿ?'?.ʿ>, 7 E0 1.ʿ'<ʿ;, / / .<;. / .<7 >,ʿ / , 6ʿ?1, .0' <
, ,@.1741.ʿ>4ʿ;,<6 67, 1.% <ʿ?1.7.<>ʿ=4.ʿ % % >, 7ʿ?1,%
<,<;.1ʿ>'<6;.57.,;;'6 ,< ,< > 6;,416ʿ641ʿ >5'7>.1 J5 6.ʿ
;' ;.5 =4.ʿ< H1'<;.%
% K.1<'1>< "?, <7 .4ʿ>.ʿ1>?,<6.ʿ>4ʿ '<7 >J.8ʿ'4ʿ
=4.5 5" ;, / / 4< =4.ʿ5" ; 1;45' 1.ʿ=, 5'@' 71.=4.ʿ>4ʿ / ʿ
< 671.>.ʿH1'<;.8ʿ1.5'7 @. / .<7 ' ,@ʿ>6ʿ?,6 7 ,<6ʿ>.ʿ 66. / ʿ
05>.ʿ<'7 ,<ʿ5.ʿ641ʿ1 <@ ,5'0 5 7>ʿ>4ʿ1, %
<ʿ>;1 7>.ʿ '?5.6ʿ=4.ʿ % >.ʿ '55.V1'<>8ʿ'?106ʿ'@, 1ʿ
>,<<>60ʿ>> / 66 ,<ʿ>.ʿ ' / 0'66'>.ʿ>.ʿH1'<;.ʿ.<;.77.ʿ;,418ʿ
">0ʿ6.ʿ1.<>1.ʿ,< 55. / 'J<.%
.ʿ$ ʿ+ʿ <ʿH1'<=' 68ʿ<, / 1,>ʿ % .11.ʿ#0'4ʿ
@.78ʿ / '<4E';5,1 .1ʿ> '05ʿ>'<6ʿ;.77.ʿ-55.ʿ>.?,76ʿ>@'<68ʿ
@ .477.ʿ=4 77.1ʿH5,1.<;.8ʿ?,466>ʿ?'1ʿ5" 1 J4.41ʿ>4ʿJ,4ʿ
@.14. / .<7 .7 / '17V1ʿ>.ʿ6,< ' / ,41ʿ?,41ʿ5"H1'<;.8ʿ6"?' ʿ
71 .% <ʿ54ʿ"E' 7 4< ;1 / .ʿ>.ʿ;.7 '77';0. / .<78ʿ.7 6417,47
> '@, 1ʿ / ,<71>ʿ4<.ʿ0, .ʿ.@71. / .ʿ .<'??1.<'<7ʿ5"<.4@.55.ʿ
>.ʿ '11.67'7 ,4ʿ>.ʿ ,4 6ʿ " 0ʿ '1.<<.6% '6 .7'7 / >/.ʿ
1.<>4ʿ646?.;7 '4?'1'-'<7 ?'1ʿ5" >,45.41ʿ=4 5ʿ'-'7 E' 7
>;5'7.1ʿ '4ʿ?1. / .1ʿ'-6ʿ>.ʿ >-'6 ,< >4ʿ1, % % 41E,17%
/ < 671.ʿ>.ʿH1'<;.8ʿ>.@' 7 ?1,7.;7 ,< 0ʿ;.ʿ Hʿ'<=' 68ʿ=4ʿ
H" 1>;5' / >.ʿ.7<.ʿ "?, <7 ,07.<4.% % #0'4@.7 ">,<.ʿ
>7;ʿ'11. .f 5"640ʿ4< <7.11,J'7, 1.ʿ641ʿ6.6ʿ?1,?,68ʿ641ʿ
ʿ';7 ,<68ʿ641ʿ6.6J.67.6ʿ>.?4 6ʿ?546 .416ʿ0,416% " / ,ʿ
ʿ ʿ^< ʿ'.

H # %
!ʿ8 ʿ+ʿ@ ʿ ʿ & ʿ ʿ ʿ ʿ ʿ
ʿ ʿ(ʿ (* %
" ; / / 66 ,< >.6ʿ / ,<<, .68ʿ <E,1 / >.ʿ=4 4<.ʿ?'17 .ʿ
>4ʿ?405 ;ʿ6.ʿ?.164ʿ>.ʿ=4.ʿ5.6ʿ? .;.6ʿ>.ʿ ʿ6,468ʿ=<ʿV .<ʿ
<.<7> .71.ʿ / 6.6ʿ.< ; 1;45'7 ,<8ʿ.7 ;.55.6ʿ>.ʿ ʿ6,468ʿ>,<7
"E'01 ;'7 ,<ʿ@" <;.66' / / .<7;, / / .<;.18<.;, '7 .<4.<7
=4.ʿ 5.6ʿ>.4@ʿ7 .16ʿ>.ʿ5.41@ʿ5.41.< '1J.<78ʿ;1, 7>.@, 1ʿ
1.>' 1.1ʿ641ʿ5" @ 17'05.ʿ@ʿ5.<1ʿ>.ʿ ;.6ʿ? .;.68ʿ.7 641ʿ5.6ʿ
/ ,7 E6ʿ=4ʿ <7 >>7.1 / <>ʿ0ʿ '55 .1ʿ '1J.<7> 4< 7 .16ʿ>.ʿ
;< @1.%
% ;.4ʿ>.ʿ '5 71.68ʿ'V'<7 <7.J1 70ʿ>4ʿ?, >6ʿ.7>4ʿ5 71.ʿ
>.7.1 / <.6ʿ?'1ʿ5"5, 8ʿ>, 7ʿ?.6.1ʿC((ʿJ1' <6ʿ .7 ,.,7.< 1ʿ
C UʿJ1' <6ʿ > '1J.<78ʿ.7ʿC ʿJ1' <6ʿBʿ>. .4 1.%
34'71.ʿ? .;.6ʿ> .56ʿ6,468ʿ'V'<7>.ʿ / . / ,ʿ7 7.5 <7.ʿ
J1 .ʿ>4ʿ?, >6ʿ.7 >4ʿ5 71.ʿ>.7.1 / <.6ʿ?'1ʿ5"5, 8ʿ>, -.<7ʿ?.M
6.1ʿ) ʿJ1' <6ʿ @7 ;,<7.< 1ʿ> .4@ʿ7 .16ʿ> '1J <7.7 4<
7 .16ʿ>.ʿ;4 @1.8ʿ; 8ʿ;.ʿ=4ʿ.675" 4 . / .ʿ;:,6.8ʿ C(ʿJ1' <6ʿ
1ʿ>.ʿ;4 @1.8ʿC UʿJ1' <6ʿBʿ> '1J.<7%
<6ʿ5"@ʿ5.41ʿ>.ʿ;.6ʿ.6? .16ʿ.67 .@';5. / .<7 ;.55.ʿ >.ʿ
'1J. 7 =4ʿ V .67 ;,<7.<48ʿ.7ʿ5.ʿ;4 @1.ʿ<V .67 ;, / ?0ʿ
?,41ʿ1 ;<% $
34'<7 '4@ / ,7 E6ʿ=4ʿ,<7>.7.1 / <.ʿ0ʿ'55 .1ʿ;.77.ʿ / ,<ʿ
<' .ʿ> 4<.ʿ?'17 .ʿ>;ʿ;4 @1.ʿ;.<71.ʿ>.4@ ?'15 .6ʿ> 'EJ.<78

0/

,< <.'1'??.57.1''=<.';.4@=45 ?;4 .<7 71.'?<6 ' 6 / .47
..<5 6?'1'7,47.66,77.'' >.'?.16,<<.6%
.'?1. / .1' '' >.'>,<<.1' ';.6? .;.6 4< -,5' / .'?5'6
;,<6>.1'05.8 =4' 5.6 1.<>7 46;.? 05.6 >.' 1.;.-,1'5.6
<,41.55.6 . / ?1. <7.6% #.6 . / ?1. <7.68 'V'<7 0.'4;,4??546
>.' 1.5 .5 =4.' 5.6 '<; ,<<.68 .@ J.<7 =4.' ,< >,<<.'4@
? .;.6 4<.'?546 J1'<>.'>?' 66.41%
.' 6.;,<>' '' >>' =7.<7 ,< =4.' ,< 6 .67 ?1,?,6>.'>.'
E4 1.'?'1'5'' 64 7.'>.6? >;.6 >.' '6,46 .7 >.' '6,46% <''
;.,6 >>1> =4 5>5' 7 47 5.'=4.'7,47.6 5.6 / .<4.6 / ,<<' .6
> '1J.<7 E466.<7 E'01 =4..6 '4 / > / .'5 71.8 ?'1.> =4 '5,16
5.416 ?, >6 1.6?.;7 E6 6,<7 >'<6 5.6 / > / .6 1'??,176 =4.'
5.416 -'5.4168 .7 ..67 'E< >.'?,4-, 1' >,<<.1' '5'' ?>..'
/ > / .'>.' '6,46 4< -,54 / .' .7 4<.'>?' 66.4164 6'<5.?,41
1.;.-, 1' . / ?1. <7.8 =4.' ,< '' ;14 >.-, 1' '>,?7.18 >'<6
7,47.6 5.6 / .<4.6 .6?>..6 >' '1J.<78 '55 'J.'>.'>.4@ ?' -'
7 .6 > '1J.<7 ;.<71.' 4<.'?'17 .'>.';4 -1.% 8
#.77.' >6?,67 ,< '' ,<;,1.' 4< '471.' '-'<7'J.' >'<65.6
? >;.6 / > / .'>.' '.7 >.' '6,46 . .67 =4 .55.'5.6 > 67 <J4.'
/ .4@ >.6 ? >..6 >.' C .7 >.' CU 6,468 >,<7 .55.6 '41' .<7
%?.4 > EE.1> ?'1'5.'-,54 / .' .5 >?' 66.<18 6' .55.6 .466.<7 >>
E'01 =4..6 '4 / > / .'5 71.% 55.'7.<>' '466'U ;,<6.1-.1' ?546
5,<J7. / ?6 5.6 . / ?1. <7.6 >.';.6 .6?>..6%

'F' !' &

.706 5.')' 6.?7. / 01.' (*%

' W ,<6 .418 5'-,46 ''>>'1.<>4 ;, / ?7.'64;;.66 -. / .<7
>.'5'' E,1 / '7 ,< >.6 0'7' 55,<6 >.' J'1>.6 <'7 ,<'5.6 -,5,<'
7' 1.6 >.6 >>?'15. / .<76 >.' 5'' .415:.' .7 >.' 5'' ,6.55.8
=4.' -,46 '-.0 ?'17 ;45 >1. / .<7 >.67 <>6 U 1.<E,1;.1' <G
E'<7.1 .' >.'5'' 71, 6 > / .' > - 6 ,<% #.77.'E,1 / '7 ,< .67 '4 '
f >;4 ;, / ?5>7.&U5 .@;.?7 ,< > << 6.458 7,<65.6 0'7' 5M
5,<6 ,<7 ?'66> 5'' 1.-4.P1' .7 7.5 '' >>' .7E.7 >.6 / .641.6
?1.; 6.6 =4.' -,46 '-.0 4> =4>.68 6, 7 '4@ ;,1?6 '> / < 6'
71'7 E68 6, 7 '4@ ;, / / '<>'<76 / 7' 1.68 =4.';.77.' ?>1'
7 ,< '' >7> E' 7.' >'<6 5.'?546 ;.417 >>5'' .7 '-.'5'' ?546
J1'<>.'4< E,1 / 7>% .6 .'0 7'<76 >.';.6 >.4@ >>?'15. / .<76
,<7 1. / ?5' 641'0,<>' / / .<7 5.415>;0.?'71 ,7 =4.8 .7 5.'
>>?'17. / .<7 >.'5'' .415:.'>. / '<>.'U E,41< 1'.<;,1.'>.4@
0'7' 55,<6 =4.' -,46 04J.1.0%6'<6 >,47.' <>..66' 1.6 ?,41
.@>;45 ,< .<7 >1.'>4 ?5'<>.'>.E.<6.' =4.' % >.'K.5 / ,<7
-,46 '' ?1,?,6>8 .5 '4=4.5 5.6J><.1'<@ ,;.' / 0.'48 57.'
J <67. < .7 4; 4.1',47 >,<<5 5.41' '66.47 / .<7 .7 >, -.<E
;,<;,41 1%
W .6 =<'71.' 0'7' 55,<6 >,' >>?'17. / .<7 >.'5'' ,6.55.'
6,<7 1.<>46 >5.416 .7 ?'17'J.<7 >>0U 5.' 6.1- ;.'-.'
5.416 E1>1,6 >.6 71,4?.6 >.' 5 J4;' >'46 5.6 ?1 <; ?'5.6J'1'
<6,<6 >.' ;.77.'E1,<7 >1.%
& .6 =4'71.'0'7' 55,<6 >4 >>?'17. / .<7 >.'5'' .4170.8
1'66. / 05 >6 >'<6f 5.6 ;'6.1<.6 >.' '<;V8 6,46 5.6 V.4@ >4
J><>1'5 77.<J,EE86.'71,4-' .<7 U >.4@ ,4 71, 6 / '1;.6
>.6 ;'<5,4<. / .<76 =4' 5.41' 6.<7 >.67 <>6 6<1' .@51> / .'
E1,<7 >1.%
& '<6 7,<6;.60'7' 55,<61>J<.'5.' / > / .0> .'U6.' / .771.'
.< >7'7 >.'?'1'71.' .< ;' <?'J<.f 5.416 ?1,J1>6 6,<71'?'
>.6 f 56 >, -.<7 >5,<<.18 .70' / ' 6 ,< < ''7'47 ,07.<4> 5''
E, 6 >.'71,4?.6 <,4-.55. / .47 E,1 / ..6f B'47 V1.;,<<'7'
71.' '1>.41 E1'4 ' 6.'> .->.' .7 > 1 J>.'?'1'5.'6.<7 / .<7 >.'
5''5 0.17>%
,46 1.;.-1,<6 6'<6 >,47.' <;.66' / / .<7 5.6 .E.76
> >=4 ?. / .47 =4.' -,46 <,46 '-.0 '<<,<.>6?,41'7.6 04 7
0'7' 55,<68 .7 ,<71'-' 55.'U 0'0 55. / .<7%
W '< / .771''?'6 >'<6 '1>64 / > ,00.75.'?546 .66.<Y
7 .5>.'<,6 6,5,68 5'' > 6; ?5 <.' / 5 7' 1.'N .55.' .67 6;14?4'
5.46. / .<7 ,06.1-.' ?'1'5.60'7' 55,<6 >.' -,5,<7' 1.6f .6'
?, 1' >.' 66. / 05>.' <'7 ,<'5.' <.'6.1'' ?, <7 71, / ?> f 5.6
;7,V.<6 6,5>'76 >,<<.<7 U ;.7 >J'1>5.' / . 55.41 .@. / ?5.8
.7 ''5'' 6'7 6E';7 ,< >.'?,4-, 1' J'1'<7 1' =4 5 .670 46=4 U
?1.6.<7 64 -'?'15.671,4?.6 =4';, / ?,6.<7 ;.77.'%> - 65, 7G
.7 =4 55.'6.1'' 6'<6 >,47.'?'1'7,47.' '1 / >.%
& @-' 77

' K7 ' B 7 ' ' ' ' ' 7 56 K
! %
' '8
% ! ' / .18
' ' &
5 % K1.66,<8 '> / < 671'7.<1'>4 >1.;7, 1.'
>77 > 671 ;7>.' K'1<.Vf K1'4@8 ?1,;41.41 6V<> ;'>4'>1.;

5, 1.'>4 > 671 ;7 >.' 4 / 0.1- 55.1' 'K'55'<>8 ?1,;41;41 6Q<'
> .'>4 > 671 ;7 >.' K14V>1.6% ' $
F ' ' ' 3 5 % #.'<7' 1.8 >>?45> U
66. / 05>.'<'7 ,<'5.' ';54. 5.f B>7 7 .,J <

' ' % K4.J4.78 B,4>.0.178 '5,4;:.' .5
! '47: .1%
' ' ' A- ! *
% B,;:.78 '> / < 671'7.41' >4 >>?'17. / .<78 04J.'>.'
?' @ >.' '<<.- 55.f '<J5, 6f .7' 55.418 5'0<41. 1' U
50.4E8 ?1>6 ! ,41<'V .<'K1'Vf K,455.<J.18 ?1>6 >.,5>,'
71 04<'5 >.'> 671 ;7%

' ' G

% H'4.0.78 >-E =4.'>4 #'5-'>,6f 40, 6 40' 68 '>'
/ < 1'7.41' >4 ;,<6. 5 >.' >>?'17. / .<78 04J.' >. ?' @ >;'
#' / 01. / .1f .1, 8 / ' 1.'>.' 6 .4@f '1 - >1.8 0, / / .'
>.'5,'>.'H'5' 6.f 471V8 ;, / / 66' 1.'>4 1, ' '4 71 04<'5
>. '1.'f , / .<78 '> / < 671'7.41' >4 >>?' 5. / .<7%
' '0@
'5 % 34.148 ?1.6 >.<7 >4 > 671 ;7 >.' .1'
<.4 5f .014<8 '> / < 671'7.41' >4 >>?'17. / .<78 K, / / >
';;46'7.41'?405 ;N 41'V8 04J.'>'' 71 04<'5 >4 > 671 ;7 >.'
K.1<'V7 K, 6 .<<. / .6 ' % %

' ' G A A

% '1> -.'4f ;.:.5 5.'0.4<.'f ! ,: .10 .01.5,<8
?1,;41.41 6V<> ;'>4 > 671 ;7 >.' H,4JE.1.6f .;1, 648 04J.'
>4 > 671 ;7 >.' 1>f 4-'58 04J.' >4 > 671 ;7 >.' ''
! 4.1;:.f K.5<,.';'>.7f .;,08 >- =4.'>4 >>?'17. / .<7f
4?.7 70, 6%
' % .'< K,> < .18 . / .1.1%
8' ' ' ' F

%% % #,4741 .18 04J.' '< 71 04<'5 >.'K,40,<- 55.f .1M
5 <8 ,E5 ; .1 / 4< ; ?'5 U 0 ,<- 55.' f '1 <8 04J.' >4 71 M
04<'5 U K7;:.' f' ,55'<>8 ?1>6 >.<7 >-' 71 04<'5 U ,1'
:'<J.f .11,48 04J.'>4 71 04<'5 U K1 .Vf >' / 8 / . <01.'
>4 > 671 ;7 U '11.J4. / <.6f V1, 78 ?1,;41.41 6V<> ;'>4
> 671 ;7 U .70f '<J <8 0, / / .'U.'5,'U ,<J4V,<8
')'

% #,55.7 >.' .66 <.8 ?1,;41.41' J><>1'5 6V<> ;f
41=4.5 >.' 'V.1<.8 ?1,;41.41 6V<> ;' >4 > 671 ;7 >4
K5J<;f #1405 .1' > 05.11.8 , ; .1 '4 ',1?6 >4 J>< .f
4?.174 68 '> / < 671'7.41' >4 >>?'17. / .<7f K,;:,4@>.'
'' K,4J .8 '> / < 671'7.41' >4 >>?'17. / .<7f - .1'>.' ''
>1,;:.1 .8 '> / < 671'7.41' >4 >>?'17. / .<7%
'% % ,1;:.1'>.' 66,<<'V8 ;, / / 66' 1.'>4
1,'U '#5 U51.f .;,<7.8 , ; .1'4 ;,1?6 >4 J>< .8 '4 K5'<;%
< 5 % 'V / .0,<8 '> / < 671'7.41'>''
>.?'15. / .<78 ?1.6 >.<7f .? <8 ?1,;41.41 6V<> ;'> 1J.<'
7,<8 ';;46'7.41' ?405 ;f .0.'<E,17 E 568 0, / / .'>.'5,'U
'' #:'71.8 J1.E5 .1%
9 '- 'FF' ,<'1>8 5 .47.<'<7 ;,5,<.5 >.'5''
J.<>'1 / .1 .'<'7 ,<'5.f ' 55'<> .18 > 66,4>4<8

+' 3$(,(' -(' $'' -(' +' *',$, ,$ *' '(+*,'$' +$*,! .$D
0$(./ -(4+.,((*,' -(' $*/ 3,'3((' -(' ''.$0.+/ -(4+.,((*,'
-(' +' ..(U(/ *,' +..-,-' -(' *('4$*'' .(3(0 $.' -(' (,,.(''(,'
4+5 (,''+*''(,.('+@.+*36$'/ '$ 3('* (','-+' +' 3$(,(' '(++,'F
A +.$'/ + 2 A+3)$*'' +$*,!@ .(

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' 4 2 ' ' ;: +..$0(' *.*(((*,'Q' +.$''D'
9.+*-'* *$).('-('-(4 ,('(% ''+' +'4. 36+$*(' (%9$'!'
+, .(/5 $' +*$#(',(*,' (' - -'$.' - +''$' (.'+ 2 '(+*1
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-('' +.36$0(''-(' ''( ) ((/ $'' ' $(*,''+- $'' -+*''
(''',.$) *(''+3, (((*,'+)+*- **(%(''+ '4))%(
'm D;'A)'(.0(' 55 $' (','4 '' 3 *0(*+) ('5 (

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(

'6>.'5,47 ;41.=<?./?<78 / /.'.<;:.-' @8 .7 >;'E' 1.'4<.' /'66.' ;, / /4<.'J,41'7,47.6 5.6'451.6 >.?.'6.6 .@71',1> <' 1.6% 556<.'>. /'<>.7 7=4 4<.' ?'V.>.'C '6,46?'1Q,418>G6 .4J'J. 7"6.1- 1' '<6' Q46=4 .<'<,-./01.' (*C% 556,<7>;'?546;,<6; 7' " ;.' = .' 5.6 ,E5 ; ;16 64?.1 .416 >.' ;.' ;,1?6 6, .<7 <,<44.6?'1'5.'>1.;7, 1.'>4'>.?'17./ .<7% , ; 8 .< '??5'4> 66'<7'4'?'71 ,5 6 /.'>.';.6Q;4<.6 ; 7,V.<68 5.'>. ;1.7=4.'Q ' ' 5 , / . 1'>.'-,46?1.6.<7.1%

% % / /.1V5 7 4<?1,Q.5>.'>#;1.7?,17'<5 .<6406 7'<;.' =4 5'6.1" E,1/>' /' ;,1?6>.' ;'-'5.1 .'?'1 6 .<<.' ; , /?,6> >.'Q.4<.6;7,V.<6=4' '41,<7 6.11'>'<6 5" J'1>.'5'5 ,<'5.' >.?4 6 5" 1.-,547 ,<I =4.' ;.' ;,1?6 6.1" ; , /?,6.'>.'=4'51.' ;6;'>1,<68 .7;5 '=4;' .6;'>1,<'>.'>.4@ ; , /?'J< .6>.'; <' =4'<7.'5 , / /.6I =4.'5.6 ,55 ; .16 64?.1 .416 6.1,<7 '4' ;5 , @>.'>1.;7, 1.'>4'>.?'17. / .<78 .7=4.'5.6'471.6 6.1,<7 '4' ; ; , @>.6; , /?'J< .6I=4.' ;.6-,5,<7' 1.61.;.-1,<5 ,<.' ?'V.'>.'C '6,46?'1Q,41I =4.'5.6 6 @>-6 ,<6?1.<>1, 7 5.'4, /'>.'5.J ,<68 .7=4.'5.6 ; , / / '<>'<76>.'5.J ,<'E.' 1,<7 "7,41'>.'1,5.8 .7?'1' / , 68 5.6E,<; ,<6>.%; , / /'<\ >'<7 J.<.1'58

' 7 'N ' V'+' 0.'4;,4?' >.' - 55.6>'<6'5.' 1,V'4 / .'=4 8 ; , / / .' ;.55.'>.' '1 68 >. /'<>.<E" E,41< 1' "5">.E.<6.'>4'1,V'4 / .'4<' ;,1?6>.' ;'-'5.' 1 .'-,5, 7' 1.% #.6 - 55.6% ,<7 /X/ .'>.Q" >.6 ;,1?6 >.' ;'-'5.1 .'E,1/ .6I 56 -,46 ,<7 .<-,V.'>.6?.7 M 7 ,<6 6 J<..6 ?'1'5.6 '>/ < 671'7 ,<6 >.' >.?'17.' / .<7 .7 ?'1 .6 /4< ; ?'5 7.6I ; .6?.7 7 ,<6 ,<7 .7.' 1.<-,V..6 '4 ; , / 7.' / 5 7' 1.% .'>. /'<>.' ?,41' =4, 8 ?'1'?1.E.1.<;.'?,41'5" - 55.'>.' '1 68 <,46 - .<7 ,< ?1.6.<7.1'4<'?1,Q.7> ,1J'< 6'7 ,<8>.6'?' ?, <7. / .<768 .7;%8?,41'4<.'J'1>.'<,<'E,1/ ..%7'<' > 6=4.';.55.'>.'K,1>.'4@8 ;.55.'>.' ,<7?.55 .18 ;.55.' >.' '<7.68 .7;%8 6,<7 E,11'>.6% .'>. /'<>.'>,<.'=4.' ,< 1.<-, .'5.'?1,Q.7 >.' >>;1;7 '4 ; , / 7.8 ?,41' =4 5'E'66.'4<'1'??,17J.<.1'5I ;'1'6'5" J'1>.'<'7 , ' <'5.'?'1 6 .<<.'>. /'<>.' " /'1;:.1 641'5.6E1,<7 .' 1.68 ;.55.'>.'K,1>.'4@ - .47 V '55.1'466 8 .7 -,71.' >7, .5 7.'6.1"?1,?1.'=4 "E' 1.'<'771.'>.6Q'5,46 .68 >.6'1 -' 7 68=4.'<,46>.-,<6 - 7.1'.<71.'5.6 - 55.6 >4'1,V'4 / .6%

*'I' ,06.1-.' >'0,1>' =7 .8 6 5 >7' 7 =4.67 ,< >.'E,1/ .1' 4<' ;,1?6 >.' ;'-'5.1 .'6>>.<' 7' 1.8 5<.'E'4>1' 7?'6 /E /.'>.'>. .1.7>.' 66./' 05>.'<'7 ,<'5.I ;'1'5.6 - 55.6 6,<7'47,1 6>.6 "E,1/ .1' >.' ;.6 ;,1?6>.'-,5,<7' 1.6 N ;.' < .67 >,<.'?'6 6,46 ;.'?, <7 >.'-4.'=4.'-,46 '-.0 1.<-,V.'5" ?.7 7 ,< >.6Q.4<.6 ; 7,V.<6 >.' '1 6'<' ; , / 7>8 /' 6 0 .< >'<6 ,0Q.7=4.'5.' ; , / 7.'-,46?1.6.<7>7 4<'?1,Q.7 >.>. ;1.7=4'5.6'45,1 6.' "6.'?,17.1'641'5.6E1, 7 . ' 1.6% 7> 1.'=4.' ;.55.'71,4?.'< .67?'6 .<;,1.'E,1/ ..8 . .67 > 1.'4<.' ;: ,6.' <.@';7.I ;'1'5.6 .=4?. / .<76 6,<7 ?1E 568 .7 ;.6 ; 7,V.<6 < '55.<>.<7 =4.' -,71.' >.;1.7?,41'6.'1.4< 1' .< .6;'>1,<6 .E;?4416.' / .7' 71.' .< /'1;:.% ,71.' ; , / 7V<.'-,46 " ?1.6.<76 4< ?1,Q.7> ,1J'< 6'7 ,<=4.'6415'E, '>.6 '??5'4> 66.' / .<76=4.'-,46 '- .0>,<<'6 '5"?.7 7 ,<%

% #46 N '<6>,47.' 1 .< < .67 ?546 5,4'05.' =4.'5.'L '>.6; 7,V.<6=4'E,1/.<7 5"?.7 7 ,< =4' -,46 .67 ?1.6.<7..I /' 6 6 -,46 '47,1 6.0'5"E,1/'M 7 ,<'>.'7,46;.6;,1?6>.';'-'5.1 .8 -,46 '41.0 4<.' '1/..'6./05'05.'4@'1/..6741=4.68=4'6,<7; , / ' ?,6..6>4<.';'-'5.1 .'71E.6 <, /01.46.8 71.6 > E5 ; 5.' " / ,4-, 18 =4' .@J.'4<.' J1'<>.'64 7.'> :, / / .6 ?,41' ?'<6.1'5.6 ; :.-'4@8 .7'<,46 '41,<6 ?546 >.' 7,4;:.6 <47 5.6=4.'>.'0,4;:.6 ; , /0'77'<7.6%

% B 'N "6,5>7.'>.6 ?1<; ?.6>.?.<>'>.' 5.41'4<E,1/ 7.% ,16=4.'-,46'-.0>.;1.7.'=4.'5.6 , K; .16>.6 ;,1?6>.'-,5,<7'1.6'<'7 ,<'4@'6.1' .<7 4, / / .6?'1'5.6;,1?68 Q.' <.'6' 6?,41=4,'-,46E.' 1 .0<, / / .1';.4@ ;'?'1'5.'>.?'17./ .<7%

' , 0 'N #.'?1,Q.7 .67>.6?546>'4J.1.4@%
' ; 5 ' ' A- A 0, & 3' "=4.6M 7 ,< ?1. '5'05.'=4.'Q.' - .<6 > .<7.<>1.'>. /'<>.1' ,-';.17' <.#7.'6.1' 7 .@71I / . / .<7>'4J.1.46.%

.16,<<.'< J<,1.'= 5 .67>.6?.16,<<.6=4') >1' .<7 1.047.1'5.'0.5.'>.6 ; , / <.6=4'6.'>.-,4.<' -,5,1 7' 1. / .<7"5">. .<6.'>.'5"?'71 .8 .7>. ;,4 / ' J.7'5.41'?'71 ,7 6 / .I .7; .17.6?.16,<<.'>.'<,46< M J<,1.'=4.55.6 6,<7 5.6 /'<,.4-1.6=4', <7 .7.'?1'7 ' =4.?6 >'<6 5.6 >.?'17./ .<56 ?,41' >.J,E57.1' 5.6 J'1>.6 <' ,<'5.6 =4'6.'1;4< 66. 7 ?,41' /'1; : .1' 641'5.6E1,<7 .1.6% .6 -,5,<7' 1.6=4'6.'?1.6.<7.<7 >'<6;.' / , / .<7" '1 68 .7=4'6 .7' .<7>.Q"1.4< 68 ,<7E' 77,465.416?1.?'1'7 E68>'<6'5" ;,< '<;.'=4.' -,46 <.'?,411 .0'5.41'1.E46.1'5.41'>. /'<>.8 >.' / ' ' < .1.' =4 56%< '77.<>.<7=4.' -,71.' >.;1.7 ?,41'6.' / .771.'.< /'1;:.% 4 6=4 5< V .0'" .<;,1.'=4.'= ' ' 71.';.<76E54 '6.'?1.6.<7.<78 5 V "'4;4< <;,<->' < .<7 "5.6 '>,?7.1' ; , / / .'5.6?1. / .16=4'6.'6,<7 ?1.6.<7.68 .7 " '>/.771.'64;;.66 - . / .<7 7,46 ; .4@ = '6.'?1.6.<7.1,<7 Q46=4 " ;.'=4.'5.8 <, /01.'6, 5 64E5 6'<7I ;'1' <,46 '-,<6 7'47 0.6, 4 >.' ; '-'5.1 .8 =4.' ,<'6' 5=4.' ,< " .7>',05 J.'>.'1.7 1.1'7,47.'5'%

;' 'E.1 .'>.' <7.1 .41'>4'1,V'4 / .'?,41'5"?,17.1' 641'5.6E1,<7 .1.6I .7; .?.<>'?75.6>. ?'-5. / .<76>.' 1 7>1 .41'.<>. /'<>.<78?'1; .'=4 56.< ,<7 0.6, < ?,41' / ' <7.< 1'5" ?' @ <7.1 .41.8?'1; .'=4 ,<.< " 0.6, <?,41' ;,<6, / / .1'5.6E,411'J.68?'1; .'=4 .55.' .67<.;.66'1.'?,41' /?,6.18 >'<6>.6 / , / .<76>. 71,405.68 '4@ :'0 7'<76 >.6 ;' /?'J<.6%%%%%% '5 5.<16'5.'>.;1.7>4 C(Q4 55.7?,15.'E,1/ .55. / ;<5=4.' >'<6 ;.'=4.'-55.' 5 ?,411" V '-, 1' 4<.' J'1>.'" ; :.-'5%

<>. /'<>.' '55.1'4@ -, @%

% 7 'N <6 67.'641' / " ?1,?,6 7 ,<% .6 ;,1?6>.';'-'5.1 .'<'7 ,<'5.8 E,1/ .6 $ '<7.68 "K,1M >.'4@8 .7;%8>. /'<>.<7> .<-'" ;,<;, 1 1' "5">.M E.<6.'>4'1,V'4 / .8 />/ .'6'<6>71.'?'V. 6% 1'>'<6 ;.'/ , / .<7 QQ ,<-,46?1,?,6.8 ?,41'5.'6 .,5 ;,1?6 >.'5"-55.'>.' '1 68 4<.'> ?.<6.'=4'?4411' 7'55.1'4 9 8 ' 5 -% 'E'47>,<.8 ,4'=4.'-,46E'66 .04<.' <M Q467 ;.' /'<E.67.'.<'1.E46'47 5.6>.?.<6.6=4.'-,46 >. /'<>.1,<7 5.6'471.6 - 55.67 ,4'=4.'-,46 E'66 .0 4<.'>>?.<6.'>.' ' / 55 ,<6% # .67 5" -1' .' /'< .1.>.' >.J,>7.1'5.6 J'1>.6 <'7 ,<'5.6"? .>I ;'1' 5 < .67 ?;6,<<.'=4'<.'6';:.'=4.'5.'6.1- ;.' "? .> .67 < < ' / .<7 ?546 ?.< 05.8 ?546 ?. 1 55.4@8 .7 ;.?;<>' 7 .55.6 6.1,<7 / , <6?'V..6% .6 J.<6 1 ;:.6 - .<>1, 7 6.'?1.6.<7.1' .<E,45.'?,41'E' 1.'>.';.6 ;,1?6>;';'-'M 5.1 .I 56' / .<.1,<7'-.;' .4@>.6 >, / .67 = .6I 56 <71,>4 1,<7'5.'54@.'>'<6-,6'1/ ..6% .' /'1;:'5>.' '@. > 6' 7=4.'5" / '6,<'>4'1, '<>7' 7 0,<<.'=4.' ?,41Q4 'Q,41'>.'0'7' 55>% <'<.'E' 7?'6>'<6= '71.' Q,416'<'>'<6=4'51.' / , 6>.0,<6 ;'-'5 .16I 5E'47>.6 ; , / / .6'5,<J7. /?6 .@.1; .6 '4@ /'<,.4-1.68 .71 .< < .67 ?546>'<J.1.4@>'<6 4<.'1/ ..8=4 4<.' /'4' -'6.';'-'5.1 .% ,46'5.'1'??,17>.' .J'5 7 8 5.'>.M ;1.7=4 ,<-,46?1,?,6.'.67>.7.67'05.8?4 6=4.'-,46 >,<<.0 5" ?1.E.1.<;.' "4<'>.?'17. / .<78 ?4 6=4.' -,46 ;:'<J.0 5" =4,7 7 >.'5" ?'V.% ,46 '55.0 .<M ;,1.' 1.<;:.1 1' .@71>/ . / .<7 5.'?1 @'>.6 ; :.-'4@8 >'<6'4< / , / .<7 5 5 .67 > E5 ; 5.'> .<'7 1.1'> 5.' / 'J<.I ;'1' 5 < .67 ?'6'4<>.6<,4-.'4@ ;0.-'5. 6 =4'<.'-.4 55.''-, 1'>.'64?.10.6 ;:.-'4@?,41'54 .7 ?,41'6;6-'5.76% .'>./'<>.'>,<.'=4.'5. ?1,Q.7 >.' >. .1.7 6, 5 5 -1.' "E<.'?1,E, >.'1.E5.@ ,<%

*(" " 8 ' ' ;,<<.41'> ,06.1-.1=4.Q '>' / 1.'5"E.;,<>7.'>.6'1' 6,<<. <.<76=4 ,<'<,46 ,?M ?,6.8 / ' 6=4.'Q.'< .<64 6 ?'6>7, <.% <'?'15.'>.' >.?.<6.68 >.'54@.8> '1 67,;1'7 .NQ.'<.'6' 6 6 5 V " >4'54@.8 /' 6 5 V " ;.1E' <. / .<7>.' ' 67,;1'5 .% 7.<=4, ' ;,<6]7. 7 .55.Z # .67 >'<6 <7.1 7=4 ,< / .7 ">.;,41'J.1'5.'?'71 ,7 6/ .'>.6J'1>.6<'7 ,<' ' 5.6I; .65>'<6 <7. 1.5=4 ,< / .78 5,16=4 ,< .67 ,E5 ' ; .1>.';'-'5.1 .8 "< '-, 1'?'6>.'<,4-.'4@ ;,<;41M 1.<76% " -1' .'1 67,;1'7 .' / 5 7' 1.' .67 ; .7 .6?1 7 / 5 7' 1.'.@;: 6 E=4'1.>, 7.'5"; ,<;411.<;.% 3 4'<7 ' 5" >;?. 6.8 6' . '3$$$) ((' -, 5' 7 .<7.<>1.' (

;, / ?7.'>.'7'"> ?.<6.'> 4<'0'7' 55,<'>.'J'1>.6'<'7 , '
4'5.6'6,5>..6' " '6,<6'?'1'Q,<18'1.;' ..75.'> 4>'0' '
5' 55,<'>.'71,4?.'>.'5 J<.'>.' / / .'E,1;.8'.55.'-.11' 7'
= .'5.'?1. / .1';,37.' 8 '5 -%>.' / , <6?61' '<%P'.<'
6.1"'>. / / .>.';.55.'>.6'-,5,<7' 1.6 ' ;:.-'5I'Q.<.'
;1, 6'?'6'=4 5'6 .<'?1 6.<7.'4<'71,?'J1'<>'<,< 01.8'
?4 6=4.'5" - 5.'>.' '1 68'5" - 55.'5" ?546' ,?45.<7.8'
4 .<' E,41< 7'=4.'=4'71.';.<768' .7'?4 6=4.'<,46'6' 8
-, '=4.'?546 .<16> ?'17. / .476',47'.<'?. <.' 'E,1 '
<.1'5.41';,<7 <J.<7'> :, / / .6' " ? .>% <6' 5'.67'
1 >.<7'=4.' <,46' ?,<-,<6' '4J / .<7.1' <,6' E,1;.6'
6'<6' 0.'4;,4?' '4J / .<7.1'5">.?.<6;I' / ' 6' ,<'<.'
-.<7'?'6'>.;.' .;1.7'?'1;.'=4 ,<'<.'-=&7' '6'>.'J'1M
>.6'<'7 ,<'5.6%
+ ' .16, / .'<.'1.6?.;7.'?546'=4.'1','5.'
L ' 'J'1>.6'<'7 ,<'5.68'?.16,<<.'< .6?.1.'>"-'41'
& ' ' ';,41'J.% ' '.4'5.'0,<:.<1'> .71.'5.'7. '
/ , <'>.' . / ?1.66. / .<7' '-.;'5.=4.5'.55.6' ,<7'1,454'
/ '1;:.1' 641' 5.6'E1,47 .1.6% ' 6' .'-,4>1' 6'=4.'5.'
?1,Q.7' >.' > ;1.7' =4 ,4' <,46' ?1. .<7.' E>7' 'Q,41<.'
Q46=4 '4' / , / .<7' 4'<,71.' ;'-'5.1 .'6.1" '4' ;, / M
?5.7.' ;'1'5.'014 7'6.'5' =4 5'>.-1' 7' 6.' E,1 / .1' 4<'
;,1?6'>.'-,5,<7' 1.6'=4' ';0.7.1' .<7'5.416' ;:.-' @'
71.6 ;0.1' / .771' 7' -,71.' ;'-'5.1 .' :,16'> .7'7' > .<'
71,<-.1>.'64??,17'05.6%
% ,' 55.6 <6 67.6415"=4.67 ,<'?1 '5'07.%
66. / 0 .'1.Q.55.'64;;.66 -. / .<7'5"=4.67 ,<'? '5'07.'
.7' 'Q,4 / . / .<7'>4'?1,Q.7>.'> ;1.7%
% . [0.55>. / '<>.'5"64??1.66 ,<'>4'5 71.'>.';'-'5.1 .'
-,5,777' 1.'
#.7' ' / .<>. / .<78' '??4V>' ?'1' % ,65' <J8' ;, / 0'774'
?'1' % #0'01.4>' .7' / / .1V8' .671.Q.7>%
% #46577.'?1,?,6.'4<'=4 1.' ' / .<>. / .<7'?,15'<7'=4.'
5.6';'-'5 .16' >.6';,1?6'>.6' J'1>.6'<'7 ,<'5.6'<.'?,411,<7'
. / / .<.1' '-.;' .<@'>.'>, / .67=4.68' / ' 6'6;1,<7' 7.<46'>.'
?'<6.1'5.416';0.-'4@' .4@ / > / .6%
66. / 05>.'>.;>.'=4.' ;.6';,1?6'6.1,<77,4 / 6'4@' / >'
/ .6'1>J5.1,.<56' / 5'7' 1;6'=4.';.4@>.'7'<<#.'>.'5 J<.%
.'?1,Q.7'>.'>>;1.7'?1 6.<7#?'1' % / / .1V' .67'>,?7>%
' ,46'.<>,<<.1,<6'>. / ' <'5.'7.@ .%
C' 'N -'<7'>.'E' 1.' / ,<'1'??,178'E'7' :,<'
<.41'> ,06.1-.1'=4.' 'EE' 1.'> - J<,<' " .7>'> 6;4'
7>.8' 5'V' "=4.5=4.6'Q,4168';:.0' % 5.'J'1>.'>4' ;.'78'
>'<6'4<';, / 7.'71.6 <, / 01.4@8';, / ?,6.'>.'7,<6'5.6'
>.?47>6' >.6' >>?'17. / .<76' -, 6 <6' > - J<,<%% B .1'
Q '1' 6';,<-,=4.'?,41'5.6, 1'5.6;,7< 7>6'> ?5, / '7 M
=4.'.7'> - J<,<'?,41'5.41';, / / 4< =4.1' / ,<'1'?M
?,17'I' 5'<.' 3' .67'1.<>4' ?.16,<'.% # .67'>,<.'5.'1>'
6457'7' >.6' ! '7.<4.6' ;:.0' % 5.'J'1>.'>4'
6;.'<'=4.'Q.' - .<6' -,46'?1.6.<7.1%
' / (' ^% 46'J.';,<67'<7'>'<6';.7' 6'
6. / 05>.'.67'>.'< .47.<>1.'Q' / ' 6'=4.'>.61'??,176>.'
#, / 7>I' ;.54' =4@ / ' -,46' '4<,7 ;.'< .67' >,<.' ?'6'
;,<E,1 / .' ' 46'J.1. 4% .>>6 1.'?546 / ?'7 . / _'
/ .<7'=4.'?.16,<<.'=4.' ;.77.''EE' 1.'6, 7'7.1 / <>.'T
/ ' 6' .'-,46',06.1-.'=4.'6'-,46'.<7.<>.0' 5.'1'?M
?,17'>.' % . ,48'=4 '<.'?.<7' 71.'=4.'6,<,?< ,<'
<> - >4.55.8' -,46' 6.1.0' ,05 J.6'> ,1>,<<.1'=4.'5.6'
? .;.6'6, .<7'1. / 6.6''46';, / 7>6'?,41'=4.'7,46'5.6'
/ . / 01.6'?4 66.<7'.<'?1.<>1.';,<<' 66'<;.% #.'1'?M
?,17'<.'>.-'<7'>,<.'?'6'>71.'> 6;47.' .<';.' / , / .<78'
5' .67' <47 5.'>.' .<7.<>1.% ,41' / , 8'Q ' '4<' ,0Q17'
/ ?,17'<7' " 71' 7.18' 4<' ,0Q.7'=4' 6.1" <5< / .<7'
47 5.' '40' ;, / 7>6' .4@ / > / .6% .'1'??,17'<.'?.47'
5 1.' E,<>>'=4.'641'5.6' ?1, .>6 -.10'4@'>.6';, / 7>6%
:0 .<8Q.'>. / '<>.'"5 1.'1.<-,V.' <> - >4.55. / .<78'
" / .61 6=4.6.7'?.1 568' '4' 71 04<'5'>.'5" :'47.' ;,41'
<'7 ,<'7.' 6>'<7' " 15.'<68' ?,41' V' ?,416 -1.'5.6'
/ >> '7.416% #.6' / '7.41 8'<, / / >6'?'1'5.'1, '641'
5">. / '<>.'>.' 66. / 05..'<'7 ,<'5.8'6,<7 .66.<7 .5'
5. / .<7>.6' 'J.<76'1.6?,<6'05.68' / ' 6' 56'<.'?.4-.<7'
>71.' ';;46.6' =4.'?'1' 4<' >>;1.7' >.' 66. / 05>.'<'M
7 ,<'5.'N'6 56' 6,<7' <<,;.<768'Q.'5.41'1.<>6'>- >. / '
< .<7'4<' J1'<>'6.1- ;.8';'1'Q.'?1. >6' 641' / ,'7,47'
,>7.4@'>.'5" ;'5, / < E;I' / ' 6';.'=4.'-, 6'6'-.07,46

#.67= 97 #*;*\4"%c '<';' # # #4 ' '%&%4'4 ;N
=4' J'1'<7 7'641'6"1.6?,<6'0 5 7>'E';;46'7 ,<8',<'<.'
?.47'1.E46.1'>.' .<7.<>1.% .'<.'6' 6'?'6';'5, / <7.1%
.'1. / ?5 6' 4<' J1'<>' >.-, 18'Q.'7 ' 64<' J1'<>'6';1 M
E ;.% .'?1.7 >6' 641' / " 7>7.'5" -.1 7>' >.6'E' 56'=4.'Q.'
-' 6><,<;.1% .'-.4@' -,46'E' 1.'-, 1'=4.'5.6<, / '
/ .6'=4.'-,46'-.b'.<-,V>6' ">.4@';.<76'5 .<.6'> ;'
?,41'1>7'05 1'5" 71'<=4 55 5>6.'6,<7' 1.<>7 6'>.6'- ;.'
1, 68;7'=4 56'6.'6.<7' / 6' "5" 7>7.'> 4<'?'17' ' '4'5 .4'
>.'5.6';,<; 5 .1'7,46% ,46';,<<'771.0' ;.6';, / / 6'
6' 1.%6' / .>Q'7.4168'=4 '< ,<7'.7;'=4>'>.]';, / / 66' '
1.6'.@7.1 / <'7.416%
% ,46'5.6'?'17 6'6,<7' ;'?1 ` .<76N' -, ;' 66. / 05>.'
<'7 ,<'5.I' -, ;'5.6' / >> '7.416I' -, ;'5.6'>.?47>6, '
;.4"'=4' 6.'> 6.<7'5.6' >>?45>6'> - J<,<% ' J<.0%
/ .<7.<>1.'.7'<.'>,47.0'?'6=4.6'Q' - '<;' 6%>. 7]'
E'4@8'Q.'<.'E466.' " <67'<7' ;,<71.> 7%' .'>. / '<>.8'
% 5.'?1>6 >.<78'=4.'-,46' / .77 ;0''<@' -, @'6'Q.'6.1' '
.<7.<>4I' 66. / 05..'<.' / .'64??,6.1';.17' <. / .<7'
?'6'5.' / ,7 E'>.';:.1;:.1'"?.1>1.'>4'7. / ?6'?,41'> E'
>1.1'5.'1'??,17% .'-,46' ',06.1->'=4.' #.'1'??,17'
< "?'6'>7.'E' 7'>'<6'5" / '4 .1.'5.J'5.I' / ' 6'6 5' '1M
1 -.' ?'1' :'6'1>'=4.'-,46' / .'1.<-,V .0''4' 71 04<'5'
> 15>'<6'?,41' ';;46.1'-,6'71, 6' / >> '7.4168'=4.'Q.'
>><,<;.8' =4.'Q.' >E><,<;.1' ' .7'=4.'Q.' ?,416< -1' '
Q46=4 " ;.'=4.'Q ' ;' ,07.<4'Q467 ;.8' '5,16' -,71.'1'?M
?,17 7, / 0.1'8' ?4 6=4 5' < '41" ?546' ;.6' 0'6.68'Q;'
-.4@'> 1.'5.'1>; 7'>.6';, / / 66' 1.6%68 '
% ,46'-,45.0'>,<.'> EE>1.1' 5.'1'??,17' P' <6'Q ' '5.'
>1, 7'=4 " 7,47' / . / 01.'>.' 66. / 05..'>.'E' 1.'>.6'
/ ,7 ,<68' .7Q .<%E' 6' 4<.8' # .65' " 66. / 05>.'"E' 1.'
>.6'>>;1.7 Q' .7Q .<'6,55 ; 5.'4 I' / ' 6' ?1>1.' ?J =4.'
>.'5" >.5 0.1'7 ,<' .@ J.'=4.'Q.'6, 6'.<7.<>4' '-' 7'5.'
1'??,17% '1.65.8E',0> 1' ' '-.;'1.6?.;7'.7. / ?1.66. '
/ .<7'4@' ,1>1.6'>.' 66. / 05>.I' .78';, / 1,.' 7' / .67'
' ?.4' ?1.6' <> EE.1.<7' > '77'=4.1' 5.6' / >> '7.416'
K-'<',<'?1.6'5.'1'??,178'Q.' -,46'?1>6.<7;'4<''471.'
/ ,7 E'?,41' -,576'>>7.1 / <.1' '5.'> EE>1.1N' ; .67'=4.'
-,46'<.'?,4-.0' .<7.<>1.' 4<'1'??,17' <6? 1>'?'1'>.6'
:, / 1'.6'=4.'Q ';.<6.'>.':'47.'71' : 6,<%
' $ "=4.67 ,<' " .7.'> 6;47..'?.<>'<7'
71, 6':.41.6';:.05.' / < 671.>.'5'Q467 ;.8.<'?1>6.<;.'
>.6'>.?47.6'>.6'>.?'17. / .<76'-, 6 <6I'.76'Q' / ' 6'E'
E' 1.' " . '4<.'> 6;466 ,<';, / ?5.7.8'; .67';.55. ; % '
,<' '>??'%7'5" ?1,?,6 7 ,<'>.' % '00>' '41V8' 5'
6 .<64 11' 7'=4.'7,47.6'5.6'E, 6'=4.'>.6';, / / 66' 1.6'
; - 56' '41' .<7'>7>' .<-,V>6' >'<6' E.6' >.?'17. / .<76'
?,41'V' 1>7'05 1' ,1><.' .7'5" 71'<=4 55 7>8' 5' 64E 1' 7'
=4 4<' / . / 01.'6.'5.- 7' ?,41'5.6'';;46.18'?,41'. / '
?>;57.1'5.';,1?6' >J 65'7 E'>.'?1.<>1.'5.6' / .641.6'=7 '
5.41'6.1' .<7'<>..66' 1.6%
66.''0'.'>.;>.'=4.'5.'1'??,17'6.1". <7.<>48'5"?'1'
7 .'> 7.?1.<'<7'4<'< / . / .<7'?'17' '5">.5 0.1'7 ,<8
' $' ?1.6'=4.' / ,<' 1'c\?,17' 6.1" EE<8'Q.'
1>?,<>1' '.<'?.4'>.' / ,76' " % '00>' '41V% ' ' ;'
5.6' ? >..6' ?1,0'<7.6' >.' 7,46' 5.6'E' 56' =4.'Q.' -' 6'
><,<;.1%
% .6';, / 7>68'=4.'?,41'5"=<'51 ; / .E, 6' L'
;:'1J>6'>.' ,461.<>1.;, / ?7.'>.'E'EE' 1.'> - J<,<'
.7'>4' #, / 7'78' ,47' .<E<' :,<<.41'>.' / .751.'6,46'
' V.4@'5.6' >-><. / .<5 ' .7'5" 6 74'7 ,<' ?,5 7 =4.'
';74'55.'>.;.6'>.4@' / '5:.41.4@'?'V68'=4 8'?5';.6''<'
6. <'>.'5"H1'<;.'.7' 6,46'5.' .5 <'7'5.'?546' <.41.4@8'
6,<7' >.?4 6' >.4@' '<6' 5 -1>6' '4@' :,11.416' >.' 5"
J4.11.'; - 5.% .' .'1.71';.1'Q'?'6'5.6' / '55Q.416'=4'
5.6' ,<7' >>6,5.6' >.?4 6'5" 1>-,547 ,<I'5.6'<, / 01.4@'
1'??,176'=4'-,46',<7'.7.'E' 56'641';.7',0Q.78.7'<,7' / '
/ .<7' ;.54'>.6' / >> '7.4168' -,46' ,47' '??1 6'=4 56'
6,<7' >>;: 1>6'?'1'?546 .416'?'17 6' I' 5.6' 41 6-.45.<7'
5";,<67 747 ,<'E1'<;' 6.' .7'5" 1>4< ,<' I' 5.6' '471.6'5"
;,<67 747 ,<' E1'43'76.' 6,46' '47,1 7>'>4' ?'?.I'5.6'
'471.68' '-.;'>.6' / ,> 5 ;'7 ,<6I'>'451.6''466' -.<'
5.<7'1.7,41<.1'?41. / .<7'.7'6 / ?5. / .<7'6,46' '47, '
1 7.'?'?'5.% 34.5=4.6 4<6'-.45.<7'>71.5 01.6'.7' <

>.<.<>'<76l'> '471.6'.<E<'<.'-.45.<7'?, <7'>.'J,4'
-.1<. .<78' / ' 6'-.'5.<7' '<'1;0 .' ?,41' .@.1;.'
/'?4<. / .47'5.'-,5'.7'5.'01 J'<>'J.%
.'7,47.6'?'176'5.6' ?'66 ,<6'=4' 'J 7.<75.6: , / '
/ .6' V' 6,<7'>.?5,V. .6' '-.;' ;.77.' E,1;.'=<.'>,<<.'
.@?5,6 ,<'>4<.'1.-,547 ,<N'>4<' ; 7.8'5.'>.6 1''1M
>.<7'>.71.'7 01.8'>.' '471.'1'77';:./ .<7'''>.6?1 M
-5.J.68'''>.6?1.04J.6'=4'>.?4 6' ?546 .416' 6 ;5.6'
.7' .<7' '?'<'J.'>.'5''<,05.66.'.7'>4' ;5.1J.% ''<''
0.771.'?'17 .'-.<7'5'' 5 0.17.' .7'5'' ;,<67 747 ,<'E1'<'
?' 6.l' / ' 6'5';, / / ..<' H1'<;.'4<.' / <,1 7.'#,4'
?'05.' 6';1 0.' '' 64<' <7.1>7' ?'17 ;45 .1' <7.1>7'
J.<.1'58' .7' -.47' ;,<6.1-.1' '<; .< J,4-.1<. / .<78'
?546' E'-,1'05.' '' 6.6' ?1 - 5>J.6l' .7';.77.' / <,1 7>8'
=4, =4.'E 05.' .<'1.'5 7.8'1.J, 7'>.6' .;,416'>.6'.<'
<. / 6'>.' 5'' ;:,6.' ?405 =4.' .7'>.6' #,<71. 1>-,54'
7 ,<<' 1.6' E1'<;' 6% # .67' ;.77.' ; -;?<67'<;.'=4 ''
E' 7;1, 1.'=4.'5.'?'17'>;5'' 1.-,547 ,<'<'-' 7'?'6'
.4'4<.''466'E,17.' / '0,1S7.'=4 5' ''?'1'5.'E' 7l' '<6'
;.77.' / <,1 7.'6,46'5.6' '1 / .6'?1.6.<7.'4<' '6?.;7'6'
6.0' / ?,6'<78' ?'1;.'=4 .55.' .67' ;, / ?,6;.' .<'J1'<>.'
?'17 .'>.71'<J.16l' / ' 6'>'<6'5.6' '66. / 05. .6' ?1 / ' '
1.68', :'7,47';.'=4'< .67'?'6' ; 7,V.<'<.'?.<7'>71.''>'
/ 68' .55.' <.'E,1 / .'?'6' 5.' ; <=4 . / .'>.' 5'' ?,?45''
7 ,<% .6' ; , / / 66' 1.6' 7<.> '7.<16' -,46' ,<7' 1.<>4'
; , / ?7..4@ / > / .6'>.'5.416',?>1'7 ,<6l' -,6; , / 6'
7.6'6.'0,1<.1,<7' '' -,46' ?1.6.<7.1' 5.6'; ,<6 >.1'7 ,<'
=4' ?.4-.<7' E,1 / .1' 4<.' ,? < ,<'6' <.' .7' 0467.' 64 8
5''>. / '<>.'>.6' - J<,<' 6% ,71.'>>;1.7'>4'C' / '' %
?'1'5.=4.5' -,46' '-.0',1>,<<>' G.<-,'>.'; , / / 66' '
-.6' / .> '7.4168' ?,17.'5''1.6.1-.' .@?1.66.'>.6'>1, 76'
>.'5''H1'<;.8'.7 5'< V.67'<455. / .<7'=4.67 ,<>.6>1, 76'
>.'5'' ;,41'>.'K,1<.%
.' U'04 <8'5.6'>>?47>6'>.'7,47.6'5.6' ?'17 .6 <7> '
1.66..6'6.'1.<> 1.<7' '' 1'<J.8' .7'6 J<>1.<7'5.6' ?1. '
5 / <' 1.6'>.'5'' ?' @% '<6''4;4<'>.6' '17 ;5.6'>. ;.'
71' 7>' 5'< .67' =4.67 ,<' >4' ?'?.l'5'' H1'<;.' ''71' 7>'
'-.;' 5.' ?.4?5.' -'4;546 .<' ; , / / .' '-.;'4<' ?.4?5.'
,4-.1' 7% .' U'04 55.78'1 66. / 05. .'<'5 ,<'5;'1.<'
> 7' 4<'>.;1.7' 6,5.,<.58' ?'1' 5.=4.5' .55.' '??1,4-'' .7'
!,<E1 / '' 5'' J'1'<7 .'>, [..' ?'1' 5.6'; , / / 66' 1.6'
/ .> '7.416' '4@' ?1> / <' 1.6' >.' 5'' ?' @' 6 J >.''
' 1'<J.% '<6' ;.' >>;1.7' 5'< .67' .<; ,1.'<455. / .<7'
/ .<7 ,<' >.6'>1, 76' >4' ?'?.% 66. / 05..'V'1.;,<'
<' 7' E,1 / .55. / .<7' 5'' 6,4-.1' <.7>'>.6'?.,?5.6' '- '
J<,<' 6.7; , / 7'> <' l' 5' .67' >,<.' .- >.<78' .7' ; .67' 4<'
?, <7'=4.' ,<' <.'?.<7' ?546' ; ,<7.67.1' >.' 0,<<.'E, 8'
5' .67'>,<.'.- >.<7'=4.'5.6' - J<,<' 6' .7'5.6' #, / 7' '
> <6' ,<7' .7.' 1.;,<<46' ; , / / .' 4<' ?.4?5.' 5 01.8' .7'
=4 56' ,<7' ?4' .7'>>' .@?1 / .1'5.41' -,.4'641'5'' 1>4'
< ,<%
#.'-,.4' ' 7 5'>7>'5 01.8' 6,5.<<.5' .7' >J'5'Z ?1E.6'
5.6'?1>5 / <' 1.6'5.6' / .> '7.416'>;1 - 1.<7' '' '66. / '
05..'.5.;7,1'5.8' =4'7.<' 7' 6.6'6>'<;.6' ''K.>'11 >.68'
5 .4' ,4'.55.'< .7' 7' <E54.<.>.'?'1' '4;4<'?'17 8' ?,41'
.<J'J.1' '' .<-,V.1' '' 7,47.6'5.6'; , / / 4<.6'4<.'5.7'
71.' ; 1;45' 1.' ?'1' 5'=4.55.' .55.6' 6.1' .<7' <- 7..6' ''
>77 .771.'5.41'-,.4% .'*)'; , / / '47>6' =4' E,1 / .<5'
5.6' 7'76' 44 6'> - J<,<' .7'>4' # , / 7'78' (' ,<7' . / 6'
5.416'-,.4@l' C'>. / '<>.<7'5''1>4< ,<' ''5'' H1'<;.l' *'
,<7' -,7.' ?,41' 5.' ?'?.l' C(' '471.6' < ,<7' ?, <7' . / 6'
5.41' -,.4l' / ' 6'641' ;.6' C(8')' '-' .<7'-, >' ?,41' 5''
H1'<;.' >'<6' 5.6' / , 6'>.' / '16' .7'>.' / '' >.1< .16%
7'<7' ;, / ?,6>;> :'0 7'<765'0,1 .4@.7' ,;;4?>6' 4@'
71'1'4@'>.'5'' ;' / ?'J<.8' . 5.6' 4.'6.'6,<7'?'6' '66. / '
0 >.6l' / ' 6 5' .67' '' ,06.1-.1=4 'V'<7?1>;.>. / / .<7'
>. / '<>.' 5'' 1>4< ,<' .7'< 'V'<7'?, <7'> / 6'>.' -,.4'
; ,<71' 1.8' 5.41' ?1. / .1' -,.4' >, 7' >71.' ;,<6 >>1>'
; , / / .' 6406 67'<7' 7,40,<16% ' 6' =4><>' / / .' ,<'
1.J'1>.1' 7' ;.6' ; , / / 4<.68' ' <6' =4.' 5.6' <.4E' =4'
< ,<7'0' / ' 6'> / 6'>.'-,.48'; , / / .'>7'<7' ;,<71' 1.6' ''
5'' 1>4< ,<8' 5'V' '41' 7'7,40,416' 4<.'J1'<>.' / '0,1 7.'
>.' ; , / / 4<.6' .7>.' ?,?45'7 ,<l' ;'18' >7.0' C'>.*)8'
5' <.' 1.67.' =4.' U9' ; , / / 4<.6% '06' ' .67' ; ,<67'<78

> '?1.6' ' ?1, ;.6 .10'4@8' =4.' *' 6.45. / .<7,<7'
-, >' ?,41' '<; .<'1.J / .l' ;.'=4'>7'0 78'.<'E'-.41'
>.'5''1.4< ,<8'4<'.@; .>'<7'>.' ' ; , / / 4<.6%
34'<7' '5'' ?,?45'7 ,<8' .55.' .678' .<' 7,7'5 7>8' >.'
C8* *' / .6l; . 5.'>.6' ; , / / 4<.6'=4', <7' . / 6'4<'
-,.4' E,1 / .5' ?,41' 5'' 1>4< ,<' .67' >.' 8 U9' / .6%
<6 8'>'<6' 5.' ;'5; 5'5.' ?E546' E'-,1'05.''4'?'?.8' 5'V'
'41' 7' 4<.' / <,1 7.'>.' 8) ' ;.<71.' 4<.' / '0,1 7.'
>.' 8 U98' .7' 5''> EE.1.<;.' .<' E'-.41'>.'5'' H1'<;.'
6.1' 7' >.'U*8) (% ' 68' .<'1>7'0 66'<7' 5.' ;'5;45' 7.5'
=4 5'>, 7' ' .<'1. / '1=4'<7=4.'> @ <.4E'; , / / %
<.6' 6.45. / .<7,<7'-,7>' ?,41'5.'?'?.8'.7'=4.'; .6'; , / M
/ 4<.6'<.'E,17?.<7'=4 4<.'?,?45'7 ,<'>.' 899(' <'
> - >468' 5' .:' 1.6457.' .<' E'-.41' >.' 5'' H1'<;.' 4<'
.@;.>'<7'>.'(8 (% ' ,<'0,47' 7'5''?,?45'7 ,<'>.6'
; , / / 4<.6'=4 8' 'V'<7'?1>;>>. < / .<7'> / 6' 5.41' -,.4'
?,41' 5'' H1'<;.8'< .<' ,<7'?, <7' . / 6'>.?4 68' 5''> EE.M
1.<;.''4J / .<7.1' 7'>.' 8 '>.'?546l' ;.'=4'E.1' 7'
<.' / '0,1 7.'>.' C 8 ' ;.<71.' 8 % .'?5468'>'<6'
5.'<, / 01.'>.';.55.6'=4'6,<7'?,41' 5.'?'?.8' 4<.' A'
?,1 7>' '66.0'; ,<6 >>1'05.' '' -,7>' ' ' 5' '
?1,;.6 -.10'4@'.<E,<7'E, 8' .7' / > / .'?546 .416' 6,<7'
';; , / ?'J<>6' >.' ?1,7.67'7 ,<6% 1.6=4.' 7,47.6' 5.6'
>>5 0>1'7 ,<6'; ,<71.'5'' H1'<;.' ,<7'>7>' ?1 6.6'.<' ?1.M
6.<;.'>.6' J'1>.6'<'7 ,<'5.6' E1'< ' 6.6l' ?546 .416'>.'
##' ; , / / 4<.6' ,<7' -,7>' >.6' 1. / .1; . / .<76' '' ;.6'
J'1>.6'<'7 ,<'5.6' ?,41' 5'' 5 0.17.' .7' 5'' 6>1.7>' >,<7'
;.55.%6 ; '5.6' ,<7'E' 7'0,4 1%
<.>.'; .6'; , / / 4<.6' 'V'<7'>. / '<>>''4@' / .> 'M
7.416' ;56' '66. / 05.1'>.'<,4-.'48'5.' / >> '7.41'1>?,<'
> 7' =4.8' 5.-7.4' 'V'<7'>7> >J'5. / .<7' > / 6' ?,41' 5.'
?'?.8' ,<'<.'?,4-' 7' ?'6' 1.-.< 1' .<' 4<' <67'<7' 641'
4<.>>5 0.1' ,<'466' / ?,17'<7.% 34'?,411' 7'> 1.'
'?1>6'; .5''=4.'5''5 0.17>>.6' ,? < ,<6'< ' 7'?'6' .7>. '
7 .1.8' .7'=4.'5.6'; , / / 66' 1.6'' .<7'; :.1; :.''5.6' < '
E54.<;.1' .<'E'-.41'>.'5''1.4< ,<Z' 5' .67' .<;,1.''1. '
/ '1=4.1'=4.' >'<6' 5.6' ; <=4'<7. >.4@' ; , / / 4<.6'
=4' ,<7'-,7>' ?,41'5''H1'<;.8'<.4E'6.45. / .<7' '-' .<7'
4<.'J'1< 6,<'E1'<J' 6.8'7'<> 6'=4.' 641'5.6' > @ <.4E'
'<71.6' 'V' '-' 5', 0.'J'1< 6,<6' ; , / ?,6..6'7,47.6'>.6'
; 7,V.<6'>.'>>?'17. / .<76'=4'>>6 1' .<7' '1>. / / .<7'
5'' 1.4< ,<%
,<.'; .' -,.4' '' >7>'5 01. / .<7'> / 6' l' 5' ''>7>'%6,5;<'
<.5N' 5.6'; ,<-,;'7 ,<6' ,<7'>7>' E' 7.6' ?'1'?405 ;'7 ,<6'
''6,<'>.'71, / ?.8'5.6' 1'66. / 05. / .<76',<7'>7>' E' 56'.<'
?5. <'0,41'>'<6'>.6' .J5 6.6l' 5' .67' >J'58' ;'1' 5' ''>7>'
> / 6' ?'1'64 7.'>4' 71' 7>'> 1'<J.8' .<' - .174'>.6' ,1'
>1.6'>,<7 >6' ?'1' '66. / 05..' >5.;7,1'5.8'641' 5''>.M
/ '<>.'>.6' / .> '7.4168' .7'> '?1.6'5.6'E,1 / .6'?1.6;1 '
7.6 ?'1' 5.6' >>;1.76' >.' 66. / 05>.'<'7 ,<'5.% ,6'
;? / 7>6' ,<7'>,<.'1.;,<<4'=4.';.'-,.4' .67'6,5.<<.58'
5 01.' .7' >J'5%
'<.'6d'J 7>,<;'?546'=4.'>.6'-, 1'6'5''H1'<;.''' < '
7>1.7' ''5''1>4< ,<% # .77.'=4.67 ,<' '' .7.'>6;47>.'>'<6'
?546 .416'6>'<..6% <' ''6.<7'=4 5'6.1' 7' / ?,66 05.'
>.' 7 1.1' =4.5=4.' ?'17' >.' <,6' / '<4E';741.6' 6', <'
4 .<7,41' 7' - J<,<'.7'5.'#, / 7'7'>.'0'11 >1.6l'=4.'
5.'> 671 ;7'> 1'<J.'54 / > / .' .67' .<;5'-.'>'<6' 5.'
#, / 7'7l'=4.'?546 .416'; , / / 4<.6'>.'; .' > 671 ;7'>>'
?.<>.<7>4'#, / 7'78' .7=4.'5.6'0'11 .1.6'<.'?,411' .<7'
>71.' >7'05 .6'=4 '-..'>.6'>>?.<6.6'><,1 / .6% 6,<6'
?546l'5'' ;,<71.0'<>.' 6.'0,4.1' 7' / . / .'>.' -,6'0'1M
1 .1.68' .7'4<.' J4.11.' ; ,<7 <<.55.'6406 67.1' 7' .<71.'
; .6' >.4@' ?.4?5.6N' ; .6' >.4@' ?'V6'>.- .<>1' .<7' ;'
1.?' 1.'>.'7,46'5.6' / '4-' 6'640.768'>.'7,46'5.6' .<<. '
/ 6'>.'5'' ;:,6.'?405 =4.8'>.'7,46'5.6'; ,<71. 1>-,54'
7 ,<<' 1.6l''4'; ,<71' 1.8' - J<,<' .7' 5.'#, / 7'78'6 56'
<,46''??'17 .<<.<78'6.1, 7 5.'0,45.-'1>'>.'5'H1'<;.%
'.67'>,<.'>-.>.<7=4 5' .67'>.' <5>1>7'>.'5''H1'<;.'
> '>,?7.1'5''1>4< ,<%
' 68' >. / '<>. 7 ,<8' 5.6'<'7 ,<6' >71'<J>1.6' -.1'
1,<7 .55.6' > 4<' ;. 5'71'<=4 55.' ;.77.'1>4< ,<Z ;47'
,<';1, 1.'=4 .55.6' ' .<7'0.6, <'>.';.6'?1>7.@7.6'?,41'
<,46' '77'=4.1' f .?4 6' >.4@' '<6' .55.6' ., ''41' .<7

71,4- '0 .<' > '451.6I' ;.c .<>'<7 -$('"<.' <,46' ,<7 ?'6' '77'=4.6I' .7 ?,41=4, Z'?'1;.'=4 .5. ' .,<<' 6' 6.<7<,55.' .<.1J .8' ?'1;.' =4 .55.6' ; ,<<' 66.<7 5.41' <7.1 7% <' <.' 6.'>.7.1 / <.'?'6' '<66'5'; . / .<7 '' >.6'>.?.<6.6' ><,1 / .68' "4<.'J<.11.'6'<J5'<7.% . ' 1' 7 ;.'?,41' . / ?.; :.1'5" ?1,?'J'7 ,<' >.' <,6' ,? M < ,<6'Z34 . .61, / ?.<7 7> 5.'; , / / 4< ;'7 ,<' '-.;' <,46% .1' 7 ;.' ?,41' >.714 1.' <,71.' 5 0 .17.Z' .6' B,55'<>' 6' ,<7 -,4: 'X71.'5 71.6I' 6' ,<7 >7.' / '5J1>' 7,<6'5.6' .EE,176'>.'5"1,' 6,<' > 471 ; : .% .6' 4 66.6' ,<7 -,454' 71.'5 71.68' 76' E,<7' >7>% .6' ?4 66'<;.6' .71'<J7,6'; ,<<' 66.<7 -,6' >1, 76I' .55.6'6'-.<7 =4.' ;.77.'1.4< ,<' < '4J< .<7.1" ?'6' -,71.' ?4 66'<;.8' .7' J .55.' <.'E;1" =4.' >>714 1.' =4.5=4.GJE <.' >'<6' 5.' ; , / / .1; .% <E <86' .55.6' -.45.<7<,46' '77'=4.18' <.' 6.1,<6 ,46' ?'6' ?546' .<' .5'7>.' <,46>>.<; .'5,16' =4.' <,46' < '41,<6' ?'6' '' 1.>,47.1' .' E,V.1' > 4<.' J4.11.' <7.67 <.'Z

.@?,6.6'>,<.'?'6'; .<7; <=<'<7.' / 55.' <> - >46' '6 .<71 J,1J.1' .<' / '4> 66'<7 5"H1'<;.'.7' 66. / ' 05. .'<'7 ,<'5.%

<' <,46' " > 7 =4.' ..6' ?.4?5.6' <.'?'V' .<7 ?, <7 > / ?77I' ; .5" .67'E'4@% ' .67 -1' '=4.'5.'?'?.' .<'1. ' 7 1' 7 ?.<'>.'1.-.<4.'> 1.;7. / .<7I / ' 6% .6' -.@'7 ,<6' >.6.6' / < 671.685.6' > EE.1.<7.6'>. ?.<6.6' ?405 =4.6' >' .<7 4<.' ; :'1J.'; ,<6 >.1'05.8' .7 5.6'>.77. '>.'; .6' >.4@' 7'76' '77.67.<7 / / .'=4.'5.6' / ?>76' #7' .<7>.' V.<46 <64E5 6'<76% ' 6'5.' J,4-.1<. / .<7 >4?'?.8' .E57 5' >7.' 5.' ?546' >,4@' ?,66 05.8' .<;,1.'6.1' 7 5' >.' <7.1>7 >.'; .'?.<?5.'>.'>. / '<>.1'5"1.4< ,<I' ; '18' 6 5' -,46' 1.65' 7' .71'<J.18' -, [6' <.' ? 411 ;0' -,46' . / ?>. : .1'> .<'E' 1.'5.'?546' / '5: .41.7 @'?.4?5.'>.'5" 7.11.% '?1.6'7,46';.6' / ,7 E68' ' ; , / 7.6' -,46' ?1, ' ?,6.<7 >.'>. ;1.7.1' =4.' 5.6' 7'76' 4< 6' > - J<,<' .7' >4' ; , / 7'7 V.<' 66 <'E,<78' >.6'; .' / , / .<78' ?'17 .' < ' 7>J1'<7.>.'E. / ? 1.E1'<;' 6I' =4.' 5.6' ; , / / 66' 1.6' / '7.416' 6 V' 1.<>10<7G <#.66' / / .<5' ?,41.EE. ; ' 74.1' ; .77.'1.4< ,<I' =4.'7,47.' -, .' >.'E' 7 6.1"1.G' ?1 / . .8' (,'=4.'5.'1, '6.1"; :'1J.'>.'<>J, ; ;1' '-.;'5.' ?'?.'4<.' <>. / < 7V%

' +))(' + .8'4+.+,'$' +',$$) *(

' '#, / 0.' 5< 5 '7 -.8' 641'5,47 ; .'=4 ' ; ,<;.1<.' 5"> ?5, / '7 ;8' '??'17 .<7 '4' ?,4-, 1' .@. ' ;47 E8' .7 =< .<' ;.' / , / .<7 '- 6' >.6' / / 671.68' =4 8' >4' / , <68' ?1.6.<7.1' .<7 4<.' 1.6?,<6'0 5 7. 8' < " ?, <7 .7.'>,<4 8'Q.'?.<6.%%%%'&' " ?'17 .' J'4.0.'1.M ;5' / .' ,1>1.'>4'Q, 4 1%P'

% .<, ,N' .' ' ; ,<<' 6' ?, <7 '- 6'>.6' / < 6' 71.6' I' / ' 6' % .'J'1>.'>4'6; .'4' " ?1 6'1 < 5 '7 - .' .<' ?1 '<7 66. / 05..'>.'6 , ; ;4?.1'>.' ; .77.' 'EE' 1.%

@F % 6' " #' !' %!9' ')!'+#!' !,! '+#!' ', %!

' ('N' <; >.<7 =4' - .<7 >.'6 .5.-.1' .67 4<.'?41.' ; : ; '<.I' ; '1'1 < 5 '7 - .'< '??'15 .<5' '4' 1, ' =4.'?,41' 5.6' 71' 7#6.7 5.6' ; ,<-.<7 ,<6' '-.;'5.6' ?4 6M 6'<;.6' >71'<J.1;6% 1' 7 <.'6 'J 7 ?'6' ;'>.'<.J, ; .1' '-.;'5.' ?'?.8' / ' 6' > .@' / <.1'5.' -,.4' . / 6' ?'1'5.6' '- J<,<' 6' .7 5.6' #, / 7'> <6% .'>. / '<>.'>,<.'=< ,<' ?'66.' " ,1>1.'>4' Q, 41%

' ' 'I' .6%1' 6,<6' >.' B% '<>1>'<.'6,<7 =4 4<' .@?.> .<7 >.' ; : ;'<.% .6' - J<,<' 68' 5.6' #, / 7'> <6' <.' 6,<7 56' ?'6' 4<' ?.4?5.' >71'<J.1Z' % ,4-.0 -,46' 5.6' 1 4< 1' '5" H1'<; .'6'<6' < 7 '7 -. 4'1, 'Z '<6' 5" ?,6 7 ,<' , :'<,46' 6, / / .68' 6' -,46' ,<<.04<7.5' .@. / ?5.' " 41,?.%%%'& <'1.;5' / .'>.' <,4-.'4' ,1>1.>4Q, 41%PS

'1 ('N' ' V' " .4' 4<.' 1.4< ,<'>.6'; , / 7.6' ?,416 , ; ;4?.1' >.' ; .77.' 'EE' 1.% 5<6 .416' / < 671.6' 6 V'6,<7 71,4->68' .7 76' ,<7 ?'14' >71. >.' '- 6' >.'5" 1. 4< ,<8' >4' / , <6' % 5.' J'1>.'>4' 6; .' 5%%%

66. / 05#.'?'66.' ' ,1>1.'>4'Q,41%

' / ' 'N' " / '1; : .'>.'5">.5 0 .1'7 ,<%%% % ' / 'I' % '00.' '41V8' -,4 ' ;0 -,46' .<' / .'?.1 / .771.'Z %5.'?1.6 >.<7 %%%'& '

?'17 .' J'<; 7;'1>;5' / .' ,1>1.' > 'Q,<E%P' # .67 ?,4 ' 4<.' / ,7 ,<' ' ,1>1.' .7 ?,41' -,46' >. / '<>.1'5" ?.1M / 66 ,<' >.>>?,6.1'641' 5.' 041. '4' 4<.' >.;5'1'7 ,<' > 4<' 71.6 J1'<>' <, / 01.'>.' / .6' ; ,55 0J4.6' 6410 5 ' ;7' ; ,<67 47 ,<<.5%

546 .416 / . / 01.6' >.'5"?'17 .'>1, 7.'6.'5 -.<7 . '6 J<' - + -6('$ ' +' <' 1 7 >'<6' 5" 4+.,$('J'4.0.8' .7 ,<>.' / '<>.' ,1>1.'>4' .

(' ' ' ' ' ' ' 'E'47 =77 7 .<' 6, ' E' 7 / .<7 ,<' '4' ?1, ; .6 - .10'5%

8'1 'N' 4 -'<7 5.'1.J / .<78' =4'<>' 4 /' / ,7 ,<' .67 '??4V. .'?'1' ?546' >.' > @' / . / 01.68' .55_' >, 7 >71.' / 6.'4@'

% ' / ' ' ' 66. / 0 .'1.E ' >.'>.5 0 .1.1'641' / "?1,?,6 7 ,<8' <,46' 6, / / .6' E,1M ; .6' > 'Q,47.1' .<; ,1.'<<' '17 ;5.' "<,71.'>. ;5'1'7 ,<%

66. / 06#.'?'66.' " ,1>1.'>4'Q,41%

% 9 ' *' ,41' ?1, .>>.1' '-.;' / .7: ,>; ' Q.' > - 6.1' ' / .6' ,06.1-'7 ,<6' .<' >.4@' ?'17 .6N' 6' ?1. / 01.' 6.1"1.5'7 -.' '4' 1'??,17 >,<5' -,46' -.<. ' > .<7.<>1.'5" 5. ;741.8' .7 5"6. ; ,<>.' "5" / 66 ,<' >.N' ; , / / 66' 1.6' / .> '7.416% 34'<7 '4'1'??,178' % .' <,4' -,46' " > 7=4 5' < '-' 7 ?'6'.7.'>.E< -. / .<' ; , / / 4< =4.' '4' ; , / 7>% .'>. / '<>.'>,<.'=4.'7,4' 7.65.6' ? .;.6' 6, .<7 >>?,6>.6' '<' ; , / 7>' > ?5, / '7 M =4.8' .7 =4 5' 6, 7 5 01.' '7,46' 5.6' / . / 01.6' >E1; .77.' 66. / 05.'> '55.1' V' ?4 6.1' 7,46' 5.6' 1.<6. J<. / .<768' .7' =4 .<64 7.' H 66.1,0 .' <> =4.' 7.5' Q,41' ?,41'5" > 6;466 ,<% .5'7 - . / .<7 '4' 6. ; ,<>' ,0Q.78' Q .@' / ' <.1' '71, 6' ; : ,6.6N' 7,'5.'-,.4'> - J<,<' .7>4' ; , / ' 7'7 .4' 66 <% B' < .67 ?.16,<>.' ; '=4'<.'; ,<- .<<.% =4.55.'=4.'6, 7 6,<' ? < ,<'6<1'5.'>1, 7 =4 "5.'?.4M ?5.'>. . :'<J.16, ' J,4-.1<. / .<78' =4.' ; .'>1, 7>, 5' '-, 1'4<' 7.1 / .%'=7 1 ' ' ' '& '

,<SP' .'?'1 '> '?1.6' -,6' ?1,?1.6'>.;1.76% 4 / , N' >.'<,-. / 01.' ()*8' 7,47.6' 5.6' . , / / <<.6' >4' #, / 7' ' ,<7 ?1,7.65>' >.' 5.41' E >.5 7.' '4' ?'?.8' 5.41'5.J 5 <<' 6,4-.1' <8.75" ; , / / 4<.'> - J<,<' ">,<<.5 .@. /' ? .% .'U' / ' 8' - 46' '-.0'>. ;1.7.8' '?1.6' 4< '??.5' <,' / <'58' =4 - J<,<' .7 5.' ; , / 7'7 .<' 66 <' <.E' ' 6' .<7 ?'6' ?'17 .'>.5 . / ? 1.E1'<? 6% .'CU / ' ' (*N' -,46' '-.0' 1.Q.7>' 4<.'?.7 7 ,<' >.' 5" ; , / / 4<.'> ' - J<,<8' =4 '>. / '1 >' 7 5"1.4< ,<I' .7 5.C '>4' / 0 / ' / , 6' -,46' '-.0'>. ;1>7.'=4 5' 6.1' 7 .<-,V>' " - J<,S' .7 >'<6'5.'#, / 7'7>.6' ; , / / 66' 1.6' / .> '7.416' ?,4' <7.1?,6.1'5.6'0 ,<6' ,EE ; .6' >.'5" H1'<; .8' .7 E' 1.' ; .6M 6.1'5.6' : ,67 5 7.6% ' 6' -,46' < '-.0' ?'6' .<-,V>' >.6' : , / / .6' ?,41' '75.1'?1.<>1.'?,66.66 ,<' >.'; .'?'V6%

@'1' <,<6' '-.;'5.6?1. .'47 ,<6>.'5" 6'J.66.#7 >& 5" ?1,0 7>'5" ; ,<>4 7.'>.6' / .> '7.416% 34 ,<7 56' >' E' 1.Z' =4 ,<7 56'E' 7 Z <' 1'??1, ; :'475.41' ; ,<>4 7S' >.6' ?1 <; ?.6' =4 ' '4 ' .<7 >E7]'> 1 J.18' 56' ,<7 E' ' 5.' ; ,<71' 1.' >.' ; .'=4.'?,17' 7 5.41' / 66 ,<I' 6.>4; M 7 ,<8' ?'17 '5 7>8' ; , / ?5 ; 7>' ' .;' 5.6' ; .5>1'768' - ,' <. . 6' .7 <Q467 ; .6' ?.16,<<.55.68' -, 5" 5.'7'05. '4' >' 5.41' ; ,<>4 7.% <' / .' > 1" =4 56' 6, <7 ?,17.<16' >' . .17 0 ; '76' .7 >.' 771.%6' =4 ' '77.67.<7 5" 1. ; ,<<' 6M 6'<; .'>4' ?.4?5.% .' < ' ; ;46.'?'6' ?'1'>.6' .? 7: .6I' =4 , ' <.' / .'1.?,<>.'?'6' ?'1' >.6' ?'<.JV1 =4.6% 34.55.'.7' 7 5.41' / 66 ,<Z' >.' E' 1.'; .66.1' ; ; ,67 1' 5 7.6' .7 >.' >.6'1 / .1' 6'?'17 .6' 0.55 J>1'<7. % ,4' -,45Q.0'>,<.'5" ?' @' I' -,46' '-.0'> 7 E,1 / .5 / .<' =4 '-'<7 =4.'5. ' - J<,<' 6' .7 5.6' #, / 7'> <6' ?46' 6.<7 . / .771.' <<' -, .4' 5'E'55' 7 =4 56'Q,4 66><7 >.' % ?' @' .7 >.'5"5 0 .17V' >.6' ,? < ,<6% ,46' '-.0.<7.<>7 .' / ' 1.' .7 5.6' ,EE ; .16' / 4< ; ?'4%7 > - J<,<%I' ' -,46' ,<7 '??,15.'5.' -, .4' >.' ; .77.' - 55.8' '-.J -,4' ; , / / .<7 56' .<' 6,<7 ?'17 6Z'>. J4 606' .<' :4 6'1>6' 56' '-' .<5' ?.41' > .71.'?.<>46I' 56' / .<7.<>.<7 .7<;' / .' ; ,<51.> 1,<7 ?'6% 56' 6.' 6,<7 1.E4J .6' ?.<>'<7 >.4@'Q,4168' ; : .0'5.6' ; , / / 66' 1.6' / .> '7.4168' .7 ' 71, 6 . / .'Q,41' 56'6,<7 ?'17 6' ?,41'-.< 1' -,46?'15; ' >.'5"5 0 .17.'>,<7Q,4 7 5.'?.4?5.''- J<,<' 6%

' ;.'E' 7<.'64EE 7 ?'6'8'Q 'Q,47.1' '=4.'>'<6?. / ,

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/ E - 6<, < .67 / ' <7. < ' ' E J , 4 - .14 ? ' 1 ' ' 1 / .
.6 1E J ' < > 6 8 =4. 5.6 / > '7.416 , <7 ? ' 6
- , 54 > .6 ' 1 / .18 .7 =4 56 ?1.6. <5. <7 / . / .8 ' <6
=4 ; 67 ?1, , - . ? ' 1 4< >; 1 7 6 J< > . 5 / ' < > .
' O O . 45; 78 ; , / / . > .6 : , ? / .6 > J< .6 > . .6
7 / . ?4057=4 . . 6 ' ? ? .55. >4 < , / > . 01 J ' <>68
? ' 1< . =4 56 6. 5. 6 . <7 > , << . .4@ / / .6
.77. ' 1 / > .8 5 7X7. > . 5 ' =4 .55. .67 5. E ' / ; 7@
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641 6 ; , ; ' 1> .N & / 1 > &G>
1 2 a < ' 11 - ' <7
> ' <6 ; ; ? ' V68 5.6 / >> '7.416 ? ' 141. <7 6. <7 1 5 <>
; .66 7. > . E ' 1 . .@ # 7.1 - , 6 , 1>1.68 .7 56 , <7 E ' 74< .
?1, ; 5 ' / ' 7 , < ? , 41 =4. 7.] > .6.17.416 E1 ' <= ' 6 =4 7
7 ' 66. <7 5.6 ; , 1?6 56 >7 ' . <78 .7 ? , 41 . <J ' J.1 5.6
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56 E ' 7 ; .5 ' Z ? ' 1; . = ' 7,16 , < Q , < 66 ' 7 > . 5 ? ' @8 .7
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& 6 .5E. - . > . - , 5. <76 / 411, 41.6> ' <6 5 ? ' 17 .J ' 4
; : . P , > 5 ?1.4 - . .6 : ' O 7 ' <76 >4 # , / 7 ' 7
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> , <<.1 4< J1 ' <> .@. / ?5. 5 1 ' < ; . 3 4. 6, <7 . <
64 7. > . - . <46 5.6 ; , / / 66 ' 1.6 Z 56 , <7 E 5. > . ; 1.7.6
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+ 4Q 5 U7 1.?1E 6. <7 ' 7 , < > . $ G , ?>1
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11.66.8 , ?E 1 O, 45 , < . < << ' ; 7.
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6641 ; , 51. 5.6 < ;) 8) U8) 8 8) (8 8) (
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O:ʿ WXH ʿ F ʿ BFʿ + ʿ B HTB ʿ j ʿ < (ʿ 6 ʿ ʿ ' ʿ

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G

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ʿF ʿ ʿ (^ ʿ"E' 4=4.ʿ5.J,4-.1<./.<7 ;< <7= / ,>E.1ʿ6,<>.;1.5ʿ>4ʿC 8ʿ .7ʿ <671' ;7 ,<>,<7 5 '-' 7 ';:, /?'J >5.ʿC ʿQ' 55.78ʿ1.5'7 -.1'.<7 '4@ 71'<M J.16 >, / ; 5 7, ,4 ?'66'J.16 .< 6?'J<.% .6 1 .5' / '7 ,<6 '11 1' .<7 >.ʿ 7,47.6 ?'176 1 7,<6 5.6 / < 671 6 71'<J.16 '-' .<7 1. 4 ,< '55' <7 1. . . -, 1ʿ ,1>1.ʿ> .6 .<?5' <>1.% " ; <1" >,<.ʿ; ,<6.<7S E ʿ>,4; 1ʿ5"1 J4.41ʿ>.ʿ6.6 ?1. 4 1.6 <7.<7 ,<6I .55.ʿ" .<-,V6 >.4@; 1;45' 1. ʿ .<>'7. 4C*ʿQ4 55.7 .7%>4 ' ,>7I .55.ʿ V > ; '1.8 W .41 -7.1 &,47>,47.ʿ ,< E'466.ʿ <7.1?1 7'7 ,3 ;,<;. / '<7 5.6 71'<M J.168 6 >.<7' 1.6 ,4 >.ʿ?'66'J.ʿ= Eʿ=4ʿ?1 7.ʿ 1,<75.ʿ6.1 / .<7 1.=4 68 =4.ʿ5".1.<,<; '7 ,< ʿ7,476 1.5'M 7 ,<8 5 ' 6,< .7 > ?.<>'<;.ʿ'-.;ʿ5.41ʿ?'V6<'7'5ʿ;,<;.1<. 6.45. / .<7 ;.>.6 =4ʿ6.1' .<7 1.5'7 -.6 '4@ 'EE' 1.6 ?,5 7 ʿ =4.6 >4 J,4-.1<. / .<7 .7 > ?.<>'<..ʿ; - 5.8 .7 <,<5.6 'EE' 1.6 >, / . =4.6 .7 ;,<, / =4.6 >.ʿ5.416 0 .<6 .7 >.ʿ 5.41ʿ; / / .1;.8 ' <6 =4.ʿ5.61.5'7 ,<6 '-.;ʿ5.416 ?'1.<76I >.ʿ?546 8 =4.ʿ5.ʿ6.1 / .<7 ʿ.@ J.1ʿ>.6 71'<J.16 =4ʿ>. / .4ʿ 1.47 ʿ5";,41 ,4 0,16 >.5" .,418 .<=4'5 7 ʿ>.ʿ?'66'J.168 W.ʿ0,1<.ʿ ʿ4<.ʿ6,4 / 66 ,< > ,0 1ʿ'4 1, ʿ.7 '<J 5, 6 >4 %?V'4 / .8 6'<6 <.<E 7 1.8 > 1.ʿ<ʿ; 11.6?,<>1.ʿ> 4<.ʿE ;,4 1' 1.ʿ ʿ;.77.ʿ?1, / .66.8 '<665 5,<J7. / ?6 =4.ʿ; .6 71'<ʿ J.16 1.67.1,<7 >'<6 5.6 7'76%>.ʿ % %I .<E <8 =0 5 6.1' 7 E,1 / 6 4<.ʿ5 65.ʿ6 ?'1>.ʿ>.6 71'<J.16 . / ?5,V ʿ>'<6 5.6 041.'4@>.ʿ ";,41,48'451.6 7'05 66. / .<76 ?405 ;68 ' <6 =4 ʿ5"6,5>.ʿ>.ʿ % %8 6, 7 =4 56 .466.<7 ʿ?1 7ʿ,<<,<5.ʿ 6.1 / .<71.=4 68 6.ʿ1 6.1-'<7 % %>.6 .@?5 ='.1?546 ?'1ʿ 7 ;45 1. / .<7641ʿ5.ʿ640.7>.ʿ;0';4< > .4@% Y #.?.<>'<7 ;.6%;,<>.6;.<>'<;.]ʿ6,<7 71,? E'505.6 ?,41 1'6641.1 >'<6 <,6 ?,176 5.ʿJ1'<> <, / 01.ʿ>.ʿ<.J,; '<76 71'<J.16 =4 8 ?,41 "?54?'178 6,<7 ?1,7.67'<768 .7;% ; / / .1;.ʿ.75 <>4671 .ʿ>.ʿ;.ʿ1,V'4 / .ʿ?,411,<7>,<.ʿ6.ʿ 1.66.<7 1 >.ʿ5" 7.11.41 =4.ʿ5.ʿJ,4-.1<. / .<7 "?1 6.S .< ?,5 7 =4.8 1.5'7 -. / .<7 '4@ ?1 <>?.6 >.ʿ "1>-, 47 ,<>.ʿ H1'<;.%

ʿ;7.ʿ;,<67 747 ,<E .5 E1'<='6 .67 '11 - ʿ >ʿ'-.;ʿ5.6 .0'<J. / .<76 =4ʿV ,<7 7ʿ'??,17 6?'1 5.6 ;, / 7 6 >.ʿ ;,<67 747 ,<.7>.ʿ1 - 6 ,<% ʿ<.ʿ?'1' 7?'6'=4...6 .0'<J.ʿ / .< 6' .<7 1. / ?5'5.047 >.ʿ7. / ? 1' / .<7 =< 6 6 ' .<7 ?1,?,6>I ;.ʿ6.1"?.47 71.ʿ7,47 5.ʿ ;,<71' 1.% #.17'< ' 1ʿ > <=4 74>.ʿ=4 56 6.ʿ6,<7 >,<< 8 .< '0'<>,<<'<7 =4.5ʿ =4.E, 6 " 1 J4.41ʿ>.6 ?1 <;?.6 .7 5.ʿ6.<6 >.ʿ <5.@05.ʿ 1' 6,<8 <.ʿ <'<=4.1 ʿ?'6 >.ʿ64JJ 1.1'4@;,'16 71'<J %% 1.6 55>..ʿ=4.ʿ ,ʿ"?.418 .7;.57.ʿ.11.41ʿ?.47 ?1,>4 1.ʿ>.ʿ J1'<>6 / '4@%

,71.ʿ;,418 =4ʿ<.ʿ?'1'77?'6 >.-,18 =4.5=4.ʿ;;,6.ʿ=4ʿ '11 - .8 ?1.<>1.ʿ 4<.ʿ?'17 > 1,;5.ʿ>'<6 ^,??,67 ,< = ʿ ?,411" - .< 1 >4 >.:,16 ;,<51.ʿ ;7.ʿ;,<67 745 ,<<.5 ># H1'<;.8 "?1 6 4<.ʿ?1 ;'45 ,< >.ʿ?,5 7 =4.8 .<,1>,<<'<5 " %5.ʿ; / ʿ>.ʿH.1<'<> 4< 68 ' ,< ' / 0'66'>.41 ʿ \ʿ 1 68 > '55.1 -,V'J.1% % % " ; ,41ʿ> 6?'J<.ʿ'8ʿ> 7,<8 E' 7 E6 1.ʿ>.6 ?5' <7.6 0 ! .<.6 ʿ'4 640.7 >.ʿ % >.ʿ / ,<- 55.8 ' / 0'66'>.41 >.ʿ H1'<;.%G ʿ / < 671.ʿ"?5';>641ʿ5"?,17.ʿ>.ʿ6,< 0>7.5 4< ʿ&5.66 < =4ʿ1.?1>6.<7.ʿ5"H1'<;.ʿ. / 01'66'<7 5.ʿJ>4 .ʿ>.ʿ5" 5 0.1 .%%% .ʿ?.4?5.ʿ6 .67 1'66. / 05>ʿ? <6 .416 E, 6 >.-'<7 ?.7.ʿ / 'J.%%% ? 6>4'7 < '??1,4-.ʿ?, <7 ;.6 0,4-.'4 .6 =4ʿ<.ʿ6,<7?, <7 >.6 '1 / , 1 .6I / ' 68 <.ʿ-,45',7?, <7 ?1.<>1.ʿ>.ʿ?'17ʿ0 5' .J01.1 5 6 .67 #,<7.<7>>.ʿ>#E.<>1.ʿS .<=4.5=4.ʿ6,17.8 '4@<,05.6 !><, 6 =4.ʿ % >. . / ,<- 55.ʿ <- .0>< .1;;.0 5458>.ʿ6.ʿ1.<>1.;;.0;.7' / 0'66'>.41%%

a 0 QI K K

a,1H% +ʿ ";,1?,1'7 ,< >.ʿ5'- 55.ʿ> L.1 ʿ-.<7 >.ʿ ?1.6.<7.1 0 % H,@5.6 E1'<;: 6.68>.8;.77?'<;5. <.;7.8 >'<6 4<.ʿ0, .ʿ>,18 '-.;ʿ^ <6;1 ?7 ,< 64 -',5 5 8

7>> L,1 8%ʿ % 8ʿ ʿ
'66. / 05..ʿ.<5";:' / 01.ʿ>4 ;,<6. 58 641 346.0B>J.8
>'<6 5'>7.ʿ- 55.8 5.")ʿ',E 7 (* % 8

W75'ʿ>>1>6 4 5.6 E1'<.77 64 .ʿ;.77.ʿ 75.ʿ6.1,<7
ʿ .1 .% , / .ʿ'.)

?1.6.<7..6 0 ;,<,1'05.ʿ #0'15.6 ' / .6 H>@ʿ>'<6 7 /1 0, 7.ʿ >,1 >.ʿ5" -ʿ5.<1 >.ʿ * ʿJ4 <..68 .<7. / , J<'J.ʿ >4 J1'<>ʿ1.%6?.;7.7>.ʿ5"6 <.01.ʿ1.;,<<' 66'<;.ʿ>.ʿ5";,1M ?,1'7 ,< ;,-.16 ;.ʿ; 70V.<8 ?,41 ʿ-, 1ʿ;,<65' / / .<7 . / M ?5,V.ʿ'-.;ʿ64;.06 6.67'5.<76 1'1.6 .7 01 55'<76 '4 / ' <5 .< 75.ʿ5";,<67 747 ,< 01 7'<< =4.8 > '?106 5.6 -1' 6 ?1 <;?.6 >.ʿ5"J5,1 .<6.ʿ1.-,547 ,<8ʿ> '?106 5.6 0467.6 >1, 76 >.ʿ7,4M 7.6 5.6 ;5'66.6 >.ʿ; 7,V.<68 .7 ?,41'-, 171'-' >ʿ0ʿ5"?' @8 05"5 0.17.ʿ.7040,<5 .41>4 J.<1.04 / ' %Y 8%ʿ . / 0 / .0,418 %H,@8 5.;, / 7.H 70 [55 ' / 8 5.%>4;>.ʿ ,1E,5 8 6 1 ;, / '6 ! '6;, J<.8 6 1 % '-'6,418 8 K'1M 5,[ʿ.74<.ʿ; <=4'<7' <.ʿ>.6 ?546 <,7'05.6 >.ʿ5"?1,- <;.ʿ.7 >.ʿ5";,1?,1'7 ,<8 > <01.<7 0 5 :97.5 >. 3 .ʿ'-.;ʿ;, / '6 76, 0%0;4V.1.5 / ' 1.> L,1 %

j ʿEE% H,@1.;4. 55.ʿ5.6 E14 76 >.ʿ6,<?'51 ,7 6 / .8 .7 5 < .67 ?'6 4< ;, / / .ʿ;,<<07.ʿ.7 6.<6.ʿ'4@V.4ʿ>4=7 .5 ;.ʿ >,<;, - =4.ʿ<.ʿ ;,<,1. ,E 4 / .<7 ?546=4.ʿ ,1>1.ʿ>4 K' 75 4 5"J'5'47.ʿ '11.7 01.E

Y 7 K %

ʿ ʿ6 ʿW ʿ+ʿ5E%> 170 68 >.ʿ1.707 1 >.ʿ#'05.<708ʿ%'<<,<.0 =4 ,<'-' 5?546 B50.7 4.ʿ0 / ' 6 >.ʿ;1 .1 - -.ʿ5.ʿ , 5 - -.ʿ5"<,05.66.ʿʿ ,50#.ʿ=4.ʿ>6.<7 >ʿ5.6 10E4J 06 &1'<;' E% ʿ< .67 ?546 =4.67 ,4 I >'<67,<6 5.416 > 6;,4168 =4.%>.ʿ5";,4E01.<;.ʿ>.?53S %%34.55,ʿ ;.ʿ / 01.ʿ1>.<7.8 =7 .5 71 04<'5 ?,41 5" 0.1708 10?07.<0:ʿ 56 6'<6 ;.66.8 =4.ʿ7'<7>.ʿ6 / -.1' <6.5>%.J1'<>6 ;, / / .6 104< 6;:.0 05.;7.41>.ʿ '@.ʿ 0,?,5>8 '-.;ʿ6,4 E.5>N / 0G 1>;:'5 '6;V8 6,< ;,<6. 5.1 ? .5 / '<<8 '1;0 >4;ʿ0 '<G ?, 68 .7 5.ʿ1, ʿ>.ʿ 1<66.8ʿ';, / ?'J<>4 ?1 <;. 1,V'5ʿ >4 J0<01'5 ?1 <;.ʿB,0.<5,5 .8 >4 ;, / 7.ʿ>.ʿK17 05Q >4 J>ʿ <.1'5 <0J,; '7.41 K 6;:,E6 [.1>.1I .<E <;ʿ;, / 7.ʿ> 17, 68 .6?01'<;.ʿ.7 7 >,5.ʿ>.ʿ5"<,05.66.ʿE1'<?' 6.8 'V'<7 '-;ʿ 4ʿ %>.ʿ#'5,<<.ʿ.5 %5.ʿ / '1=4 6 >.ʿK,4775>ʿ ,46 00 0 >,<.ʿ'6641.68 > 6.<7 568 >.ʿ505 J4.ʿ>.6 ?4 66'<;.6 >71.<G J01.6%%% .41ʿ<,4-.55.ʿ>'<0,41> :4 8 .6ʿ=4.ʿ 8 > ʿ ;'168 > 67.10'7V .7>.ʿK,4 5>ʿ,<7>7> >0?47>6I >.?4 650 ;,<E.1.<;.ʿ>.ʿ 5< 778 4< 0 H.7.160,41J8 '4 1.ʿ0 &,.ʿ ;, 1'8 .7 5.ʿ71, 6 0 / .ʿ0 .<<.% ʿ'11 -.ʿ;ʿ;;.=4.ʿE,41 >.6 ,3 ; .16E1'<?' 6ʿ>.6J. 6;, / / .6% <5.7 1 1';,<7:ʿ #ʿ=4.ʿ ,< 6' 78 ;.ʿ=4.ʿ7 ,< .6?01.8 .7 .0';4< > .4@ <M 71 J4.ʿ.76 >-.174.ʿ?,41 71,4-.14<.ʿ?5';.ʿ> 67 <J40.ʿ&'<ʿ 0,41> :4ʿ;.ʿ< .67 ?546 >'<6 '1 / >.8 / ' 6 >'<6 5.6 '1 / >.6P .7 '-, 1ʿ?'17 0 5'%; ,=407.% 7 V .< "=4ʿ 8ʿ-,V'<7 >>00 1.-.<46 &1 , / ?:'<;"<768 .75";'<<.ʿ:'47.ʿ641 7,<6 0,41J., 6 >.6- 55.6>.ʿH1'<;.ʿ.7 641 7,46 EE5'<',76>.6.>7<?'J<.6% ;1, .<70 ;.77.ʿ<,4-.55.ʿ;,<=4>7.ʿ>.ʿ5" ! '45.8 =4%>, 7 '-, 1 5.6 / 01<.6 .EE.76 = .ʿ '<; .<<.8 .7 ?.<6.<7 > .00 5 1.ʿ 5.6 G 1 ((

#.?.<>'<7 '6641'<;.ʿ>.6 > / J1?6 ?'1'57 >'-'<7'J.ʿ >'<6 5.6 &5 6;,416 =4.ʿ>'<6 > / ' <5 .<% 76 6,<7 '4 E,<> %5 1 / .<706 > <=4 >7 / 5.6 1>.55.6I 56 :.ʿ 6. / 07.<7 ?'6 / > / .ʿ: 1.ʿ'4667 &1'<=4 55.6 =4 56 > ' .<7 5%V "> .4@ ,57% &1, 6 / , 6% .16 , ,<.ʿ<.ʿ>,47.ʿ;ʿ=4.ʿ5";,,E>1.<;.ʿ>.ʿ 5ʿ < 70 5 ' ʿ.<5"H1'<;.ʿ?,418 =00.7 ?1 <; ?'5I / ' 6 ,<<. %?.<6.ʿ?, <7 =4.ʿ5.6 >.7.1 / <'7 ,<6 =4 ,ʿV "?1 6.6 ' . E 4<'471.ʿ047 =4.ʿ> '5'1 / .1ʿ5.6%H1'<?' 68 .7 >.ʿ6.1- 18 ?'1 ;.ʿ / ,V.<8 5";'46.ʿ>.ʿ5"> >.-'<7 <,05.66.8 =4ʿ6.ʿE5'77.ʿ =4.ʿ5";1' <7.8 5" '66.66.ʿ,7 "?.1E > .ʿ% 4ʿ / >4'J <7. 7 H1'<;.ʿ?< ?'17ʿ<, / 01.4@% % 4ʿ641?546 8ʿ5.6 H1' ?' " ?1 <;.6 .7 5.6 ; >.-'<7 J.<7 64, / / ."E1',?' 68 6. / 05.<78 .<'??. '?7 7,47.6 5.6 ?4 66'<;.6 ;,< 1.%5"<'7 ,<88ʿ%-, 1 ;,4?4 5.41 E'05.ʿ>.ʿ70-357.I8.7 >.ʿ -.<J.ʿ4;. ?.4 ?106 ., / / ? B, / 01.I ʿ6,45? / 7 , ʿ V / ?.8 ʿ ʿ >5.ʿ 6 0J.>.ʿ 1,V.6%

ʿ %7' ; %ʿ % 8

ʿ .1 6% ʿ ʿ ʿ ʿ

ʿ">7>-.<>4 0 5 > .5 >. - 55.ʿ>.ʿ '1 68 5.6 8 98 Z) ʿ .7 6.?7. / 01.8 ?,41 5" ʿ>.5 / 55 ,<(8*0 %

EW

[illegible]

. '4@%%%% .'<.'1,76''<'64E?5<6''<;<<' <;,<- <5.,7'
'';'=4.'5.'1, '?,17.'4:';,1>,<'05. 5%'34'>7''<'?1<;.'
1,V'58'=4, = 5'<V' 7'?'6'> '466'E,17.6'1' 6,<6'?941'
54 ' >,<<.1;.77.' > 67 <;7 ,<8'Q.' <.' -, 6' ;.?.<>'<7'
?'6'> <;,<-><.<7' '5'' <'>,<<.18'6' ,<';1, 5'<>'
;.66' 1.'>.'>,<<.1';.7'>;5'7' '' :>1 7 .1'?1>6,17 ?7 E'>.'
5'' ;,41,<<.%' .'>. / '<>.'>,<.'=4 5'6, 7' <7.1> 7' ''
7,47' H1'<J' 6'>.'?,17.1' '4;4<',1>1.8''<;4<.' / '1 '
=4.' > 67 <;7 -.' '471.' >4.' '' >.;,1'7 ,<' / 5 7' 1.8'
/ ' 6'=4.'5.'1, ' .7'5.'?1 <;.'1,V'5' ?>17.1,<7' 5.';,1 '
>,<'05.4%' '

'' ?1,?,6 7 ,<'>.' %' '<>1>'.67' '>>?7>.%

%' GT' ?1,?,6.' 4<'?1 Q.7>.>.;1.7=4 ' .67' '>,?7.'
.<';.67.1 / .61

W' 66. / 05.'<' ,<'5.8'641'5.';,< ?7.' =4'54 ' ''
.7>'1.<>48'?'1'6.6';,< 7>6'.6'>, / ' <.6'.7'>.'E.>>' \'
5 7>8'>.6'?.7 7 ,<6'1.5'7 -.6' ''5'' J1<1 .'46 7>.'>'<6'5.'
>.?'17. / .<7'>4' , 1.7'.7' '5''> / .';:' / ?'17'>4' ; '
>.-'<7'#'5' 6 68'.7';,<6 >.1'<7'=4.'5.6> 5.6'?>7 5 ,<6'
6,<7'>4' 1.66,17'>4'?,4-, 1'Q4> ;5' 1.8'>.;5'1.'=4 5'
<V''?'6'5 .4' '' >.5 1.18Y' ' %' A

+' 415.'1'??,17'>. 8 '- 5 . '4 K, 685.> ;1.7'
6< -'<7'.67'1.<>4I

$' 66. / 05..'<' ,<'5.8''?1E.6''-, 1'.<7.<>4'6.6'
;, / 7>6'>.6'1'??,176'.7'> 'J1 ;45741.'6<15'' ?.7 7 ,<'
' .55.' ?1>6.<7..'5.'C ' ',>7'>.1< .18' 7.:>'<7' 'E' 1.'
1'??,17.1'5.'>>;1.7'=4 ' '47,1 6.' 5.6'6 .416' ! 1 J<.78'
! .1>1.78' '16' .7;, / ?'J< .' ''1>7'05 1'5'' <'- J'7 ,<'
>.6'1 - 1;6'>.' .<.'.7'> 66,<.8' '' .7'05 1' 4<'E5,7 '
7'J.'641' J'14 66.'4'>.'K.1<'1>8'.7' '' ,4-1 1'4<=<,4 '
-.55.' <'- J'7 ,<'>.? 6' 7: - .16'Q46=4 ''5'' , 1.8'
>>;177.'=4 5' < V' '' ?'6'5 .4' '' >.5 0.1.18 .7=?.'6,?'
?1>;.>. 7' >>;1.7' 6.1'' .@>;47>' >'<6' 6.6'> EE.1.<7.6'
> 6?,6 7 ,<6'8' 5'' ;:'1J.' ?'1' 5.6' 6 .416' ! 1 J<.7'.7'
;, / ?'J< .'>.' ;, / / .<;.1' 5.6> 76' ,4-1'J.6'>'<6'5.'
>>5' 'E @>'?'1';.'>>;1.78' '4@';:'1J.6'V' #<,<;>.68'.5'
>.5.6' ';:. .1'>'<6'5.' >>5''>.'=4'71.' '<<>.6I' .7'
E'47.'?'1' .4 '>.'1. / ?5 1' 4<.' .7' '451.'>.';.6';,<M
> 7 ,<68 56'6;1,<7'>.;:46'>4' 0>,>E5;.'>.';.'>>;1.78'
6'<6'?,4-, 1' 1>?>7.1' '' 5'' <'7 ,<''<';4<.' <>. / < 7.'
?,41'1' 6,<>.6=>?.<6.6',4',4-1'J.6=4 56'41' .<7'
?4' '-, 1'E' 7%Y F 8' ' %

d + 41'5.'1'??,17'>.' .15 <8'5''> ,6 7 ,<'64 -'<5.
.65>>;1>7 .N' %%%%%%$ %' G

W' 66. / 05.'<' ,<'5.8''?1 6''-, 1'.<7.<>4'5.'
1'??,17'>?'6,<';, / 7>'> '5 ><'7 =<' >.6'0 .<6'?'7 , '
:'4@% .1E.7.';.'=4'64'7N

W .'>>5''?,41'E' 1.'.7'';;.?7.1'5.6'>.;5'1'7 ,<6'>.'
;, / / '<>'04'.5.;7 ,<6'> ' / 6'>. / .<1.'E@>'>'<6'7,47'
5.'1,V'4 / .8'?,41 7047.6' .6?0;.6>.' 0 .<6' .7' ?,41'
7,46'.EE.768' ''6 @' =, 6' '' ;,EE ?7.1' >.' 5''>'7.'>.6' .?'
7.6'.7' '>Q4> ;'7 ,<68';,<7 <4'<7'5.6'1.6.1-.6'.<'-.174'
>.6=<.55.6'.55.6''41,<7' 'E' 7.6%

%' K<' ;,<6.=4.<;.8'7,47.' ?.16,<<.' '4' ?1,E 7' >.'
5'=4.5 .'7 1'' .7. E' 5.' .7'=4''41'' ';;.?7.8'>'<6'5.6'
@' / , 6'> 4:.''>Q4> ;'7 ,<'>.' 0 .<6'<'5 ,<'4@8' .<'
-.1E4'>.6' 1.6.1-.6' .7''4@' / / .6' ;,<> 7 ,<6'=4 'V'
6,<7' 67 ?45..68' 4<.' >.;5'1'7 ,<' >.' ;, / / '<>' ,4'
.5.;7 ,<6'> ' / 6'?017'<7641'7,<6'5.6' 0 .<6';, / ?1 6'
>'<6'5'> 7.''>Q4> ;'7 ,<8'6.1'8'>.'?5. <'>1, 78' 6401,
.' ' ';=4.1.41'=4''41''E' 7' ;.77.'>.;5'1'7 ,<',4'
#5.;7 ,<'> ' / 68' .7'<.'?,411'8' .<'?'V'<7' '' 5''<'7 ,<'
5.'?1 '' '>.6> 76'0 .<68'.71.'1.;:.1;<..'<'?,4164 - .8'
6, 7' :V?,7:.;' 1. / .<78' 6, 7' '471. / .<78'?'1'=4'=4.'
;.'6, 78'>4';:.E'>4> 7' ';=4.1.=1%Y ' F

1'.6'.4165.6' / >> '7.<16%' .'>. / '<>.'=< 56'6, .<7'
.<7.<>4 8' .7'=4.'8 ?,41'=4 56'?4 66.<7'?,4164 -1.'
%' '00.' '41V8' 6 5' .67d;'5, / < '7.418d %' '00.N'
' 1V'6, 7' 7.<4'>.'>.?,6.1' 641'5.' 041.'4' 5.6';:.E6'
>.'6,<' ';;46'7 ,<8'

%' #0 KI' .' >. / '<>.'=4.' %' 5,4;:.'6, 7'
1'??. .'2' ,1>1.8'?'1;.'=4 .<' <-,=4'<7'5''1.6?=<G'
6'0 557.' ;,<71.' 4<' / . / 01.' >.' 66. / 0 ..'<'7 , '
<'5.' ''1' 6,<'>.6',?< ,<6'=4.';.' / . / 01.'?1,<, ;.'
>'<6' 66. / 0 ..8' 5' '77'=4.'> 1.;7. / .<7'5'' ;,<67M
747 ,<%' ''

' ' 'N #.=<.Q.'>. / '<>.8' . .67'=4 5'>.?,6.'
6,<' ';;46'7 ,<'641'5.'041.'48

' . .'N 5'.67' / ?,66 05.'=4.'-,<6'E,1; .04<'
/ . / 01.'>.' 66. / 0 ..' '' >.?,6.1'641'5.'041.'4' 7<'
> 6;,416'.;1 7' ?'1' 54 I';'18' 6 5' .<' .7' 7' ' 6 8' 7,<6'
5.6'Q,416'5.6 / . / 01.6'>.' 66. / 0 ..'<' ,<'5.' 6. '
1' .<7'>'<6' 5.' ;'6' > .71.' ?,4164 - 6' ?'1';.4@'>,<7'
56' '41' .<7'?'15>'G .7'Q.' 1'??.55.' '' %' K,4;:.'=4.8'
5,16=4 5'?'1 ''4E.'E, 6'>.'5'' - 55.'> 1'<J.8'5'' #
3' '>.<,<.'8'.7'=4 5'71,4-'';.5'' ,17'1,'<'
-' 6%

' 'N ,41'.- 7.1';.'=4 '6 .67'?'66.'0 .18'Q.'
.?, 6' =4 5' E'47' 6.' 1.<E.1 / .1' 671 ;7. / .<7' >'<6' 5''
=4.67 ,<'Q',<' ''E' 5'4<'1'??,17' '??4V0'641'>.6'? .;.6'
5.J'5.6I' 5'E'47'1.E47.1'5.'1'??,17'?'1'> '471.6'? .;.6'
5.J'5.6%0<'6.7' 1.%' $

' ' 'I' <'>. / '<>.'>.'?'66.1' / / .'
> '7. / .<7' '' 5''> 6;466 ,<8' >'<6' 5'=4.5 .' %' '00.'
'41V' ''5.'?1. / .1'?1 6'5''?'1,5.8

' 66. / 05. .'>.? >.=4.'5''> 6;466 ,<'6.1'' ,4-.17.%
%' / ' *'N .'<.'1>;5' / .'?, <7'?,41' < '
7.1>'<'7 ,<'5'5.'>1, 7'=4''??'17 .<7' ''7,46'5.6' / . / '
01.6'>.';.77.' 66. <0 ..'>.'-.< 1' > 1.'>'<6';.77.'71 8'
047 .'7,47' ;.'=4 56' ?.<6.<78' 7,4?. .' =4 56';1, .<7'
47 5.' ''5''6, ; .7.%' ' ' ?.<6>'=4.'5'';,<6; .<;.'> 4<'
; 7,V.<'>.-' 7'>71.'?546'6.-.1.'=4.'5''5, %' <';,<6. '
=4.<.?'-, >' / ,<'';;46'7 ,<8'=4.'Q.'-'8'6'5 1.' .7'>. '
%?,6.1' 641' 5.' 041.'48'?.164'>>'=4.' 5.6'E' 56' -, 6'
?'1' 71,<7' '66.0'J1'-.6'?,41' -,46'E' 1.'6.<7 1' ''<.G'
;.66 7>'>.'?4< 1'5.6' / >' '7.416'6 56'6,<7' ;,4?'05.68'
.7'>.5.6'Q467 E .16 56'6,<7' <<,;.<76%

, ;' / ,<'';7.'> ';;46'7 ,<7

66. / 05>.' <' ,<'5.' 6 .7'<7' 1>6.7->' 5.6' E,<;G'
5 ,<6'>.'J1'<>'Q41V'?,41'>>; >.1'6 5'V' ''5 .4' '' ';;4M
6'7 ,<' ;,<71.' 5.6' 'J.<76'>4' J ,4-.1<. / .<78'Q.' 54'
>. 4,<;.' %' .6;.<.W>.6 ' 69<6' .7' 45,78' ;,< '
/ 667 1.6' / >> '7.4168';:'1J.6'>.'1>7'05 1'c;'0,<' ,1M
>1.' .7' 5'' 71'<=4 55 7.'>'<6' 5.' # , / 7'7%' .'>. / '<>.' '
>71.''47,1 6>' ''5. '?,4164 -1.'>.-'45'5.'71 04<'5'?1, '
- 6, 1.'6>'<5' '' 15>'<68'.> / / .'6 >7'<7' 1.<>46';,4M
?'05.6' >.'5''?'17 '5 7.'5'' ?546' 1>-,57'<7.8'>.6' '0 6'
> '47,1 7.'5.6' ?546' < =4.6%>.'5''?1,7.;7 ,<'5'' ?546'
6;'<>'5;46.' >,<<>.' '4@' <1 J'<'68' .<E<' ;, / / .'
'V'<7' ;,<71'1 >'5.' 047' >.'5.41' / 66 ,<'8'6'<6''-, 1'
Q' / ' 6' -,454' .<'1. / ?5 1'5.'->1 7'05.',0Q.7%' <';,<M
6.=4.<;.'Q.'5.6'';;46.8'641' / '' 1.6?,<6'0 5 7. 8'> '-, 1'
-.; 8'>.6'5.41' '11 -..8'>'<6'5'' ?546'J1'<>.' <7 / 7>'
'-.;'5.6';:.E6'>.6'01 J'<>6'>.' '4;546.8' > .<''-, 1'
5' 7'5.416';,<6. 55.16' .7'5.416';,<- -.6%' .'5.6'';;46.'
>.'<'-, 1'>>6'1 / .'=4.'5.6'6.?56'; 7,V.<6'>4' #, / M
7'78''?1>6' <.'?1,;5' / '7 ,<'= Q' .<Q, J<' 7''4@'>.4@'
?'17 6'>.'?,6.1'5.6' '1 / .6' > 6'-, 1'5' 66. .<71.1' '1

5 6\' %'*9 %% %'89 '

%' '00>' '41V?'1'57' ''5''71 04<.%
%' K,4;4.N' .'>. / '<>.' ''E' 1.' <?.' / ,7 ,<'> ,1 '
>1.' 1.5'7 -.' '' 7,47';.'=4.' %' '00.' '41V' -''> 1.%
,71.'>.;6 ,<'>: .1'1.6.1-.'5''?'1,5.' '' %' '00>'
'41VI';.'>.;1.7'>, 7'U71.'.@. ;47.I' / ' 6' ;, / / .'5''
;'5,1,< .'-,5.' .7'=4.'5''->1 70' / '1;:.' '' ?'6'5.<768' 5'
.67'>.'<,71.'>.-, 1'> '-, 1'6, 4'>.'5'' 1.?47'7 ,<'>.

71,4?.6'>.'5 J<.'>'<6'5.'#, / 7'78'.7'> V' -, 1'0 .:7>7'
64067 74>8 ,16=<.';.6'71,4?.6' 1.E46.1.:7'> .@>;47.1'
5.416',1>1. ' >.6?,7=4.68'>.6' J'1>.6' <'7 ,<'5.6'>.'
/ .6'.5' Q,<7'40'<'>'<6'5.' / , / .<7'>.6'1, , 66,<68'
5'' , 5' 1 . ' <.'6,55 ; 7' 7'5.41' ?1>6.<;.I' > '-, 1' / 6'
;.6'J'1< 6,<6'>'<6'5.6';, / / 4<.6'=4 ' .7' .<7'1.6 >.6'
E >.5.6' '<' ?'?.I' > '-, 1' .@ J.'>.6'>.?'17. / .<76'5.'
?'V. / .<7>.6'J'1>.6'<'7 ,<'5.6'=4 56''-' .<7'??.

?.6 6'<6 ' 5,1 7 I> '-, 1 ?E,-,=,> 5.6 ?E' <7.6
>.?'17. / .<76 =4 ' ,<7 >.4,<.> 5.6< '7.4168 .< > '
6'<7 =4 56 ,<7 ; .1; : . > / .771. 5'' / >6 <7.55 J.<; .
;<71. 5.6 - 55.6 E1' . ' 6.6 .7 #.>.6 >4 # , ? 7'78 .7 =4
,<7 >. / '<>. '' 66. / O5>. <'5 ,<'5. > .d / .771. 4
E1. < '' 5.41 '47,1 7> . 5.6 ' ; ;46. > '-, 1 1.E46. 5''
>. / '<>. .@?1.66. =4 '-' 7 E,1 / > . 5'' / 4< ; ?'5 7V
> - J<,< >4 >.6'1 / . / .<7 >. 1'1 / >. ' - J<,<' 6.I
> '-, 1 ?1.6 >> 5. ;540 > - J<,< 5. Q, 41 , 5 5'' =,
7 ,< V E47 E'>. > '<>'<7 1 5'' ?1, ;>>41. ; , / / .<;>.
; .<71. 5.6 ; : .E6 >.6 O1 J'<>6I > '-, 1 . ;1 7 .< #.77.
=4'5 7V 4<. 5.771. '' '1 / . . >.6 O1 J'<>6I > '-, 1 > 7
'' 55.<.4-. V6 - J<,< =4. 5.6 ; , / / 4<.6 ,O7 . $
>1' .<7 E51.7V .7 ?1,7. ;7 ,< '' ; ,<> 7 ,< =4 .55.6 -,
7.1' .<7 ?,41 5''H1'<; .
. 5.6 ' ; ;46. > '-, 1 ?'1; ,414 7,47 5.#, / 7'7 6'<6
'4;4<. / 66 ,<8 6'<6 '4;4< ,1>1. >. 66. / O5. .
<'7 ,<'5. < >4 1, 8 ?,41 6,55 ; 7.1 5'' 1V4< ,< '' 5''
H1'<; .I > '-, 1 ; : '<J. >. 5.41 ?1,?1. '47,1 7. 5.
Q,41 >. 5''7.<4. >.6 ' 6. / O5. .6 ?1 <' 1.6 8 ?'1; . =4.
5.6 .6?1 76 <. 5.41 ?'1' 66' .<7 ?'6 E'-,1'O5. / .<7 $
> 6?,6.6I > '-, 1 / .< ; . 5.6 ; , / / 4<.6 >.6 ?546
J1'<>.6 ; '7' / 7.6 6 .55.6 <. 6. 1.4< 66' .<7 '' 5''
H1'<; .I > '-, 1 7.<4 5.6 ?1,?,6 5.6 ?546 <; .?> '
1.6I > '-, 1 ?4O5 =4. / .<7 ?1V6.<7. 5. ?'?. ; , / / .
4< >.6?,7. >'<6 4< ?'V6 ,< ,< OV< 7 >.?4 6 ?546
>. 6 @ ; .<76 '<6 5'' >,4; .41 >. 6,< J,4-.1<. / .<7
?'7.1<.5 - 5.6 ' ; ;46. > '-, 1 .@ J. >. 5'' ; , / / 4<.
> - J<,< >. 1. ; , / ?.<6.1 5.6 O1 J'<>6 >. '1 / . .
>. '4;546.8 = 1 >. / '<>' .<7 <6,5. / / .<7 U 6,46
?'1 Q,41 8 .7 E'-, 1 E' 7 . / ?1 6,<<.1 >.6 ; 7,V.<6
'- J<,<' 6 >. 5.41 ?1,?1. '47,1 7.I > '-, 1 1# <7.
J1. '?: .58 1.<-,V. ?'1 5.6 6. ;7 ,<6 >.?4 6 =4 5
6 V7' 7 / 6 V 5'' 64 7. >. '1 / . . >.6 O1 J'<>6 .< =4'M
5 7V >. Q4J. >.6 ;1 / .6 >. 5.6. <'7 ,< . 5.6 ' ; ;46.
> >57. 1.67.6 6?. ;7'7.416 71'<=4 55.6 >.6 ?546 J1'<>6
>>6,1>1.68 > '-, 1 E' 7 >.6 ,1J .6 '-. ; 5.6 ; : .E6 >.6
:1 J'<>6
' ; ;46. ;6 / V> '7.416 >. 7,<6 ; .6 >E5 768 .7>.6
>V6,1>1.6 ' ;74'56 >'<6 5. #, / 7'7I .<E < >. <'-, 1
?'6 1. / ?5 5.41 / 66 ,<8 .7 Q. / .1.6.1-. >. ?,17.1
; ,<71. .4@ >.6 ' ; ;46'7 ,<6 / 'Q.41.68 =4'<> 5 / .
6.1''?.1 / 6 >. 5.6 ?,<164 -1. >.-'<7 5. 71 O4<'58 / .
6,4 / .77'<7 '' 7,?7.6 5.6 ?. <.6 >. 5'' ; '5, / < .8.7''
7,<6 5.6 >, / / 'J.68 >.?.<6 .7 <7.1V76G
?1.6.<7 Q. >. / '<>. 5''E';457V >. E' 1. 7 / O1. ;
/ ,< ?'? .18 ?'1; . J<. Q. 1 ' ?'6 .< 5. 7. / ?6 >. .
E' 1.I / ' 6 ; .77. E,? / '5 7. - '' >71. 1. / ? . Y
O .6 ?'? .16 1.5'7 E6 '' 66. / O5. .
<'7 ,<'5. < ,<7 ?'6 O.6, < > V71. 7 / O1.6
+ && & S < / .77'<7 ; .7 ' ;7. > ' ; ;46'
7 <<64 . O41. '48 Q. >. / '<>. / ' <7.<'<7 6
6. / O5. .8 .7 Q. 5'' 64??5 . >. -,45, 1 O .< ' ; ;4. 55 18
?'1 4< >. ;1.78 =. =4. Q 5 ,<<.41 >; <'>. / '<>;1
641 <''1.6?,<6'O 5 7.5 d
. -,46 ?1 . >. ; ,<6 >>1.1 =<. ' ; ;46'7 ,< =4.
-,46 -. , .O> .<7.<>1. .67 '??4V>. 641 5.6 5 71.6 5.6
? E 6 / ?,6'<76 .7 5.6 ?546 1.6?. ;7'O5.68 641 5.6 >.
,7 ; '7 ,<6 >.6 >.?'17. / .<768 641 >.6 5.751.6 . .17.6
>. 5'' / ' < >.6 ; , / / 66' 1.6 .4@ / V / .6I .<E <8 641
>.6 ?1.4-.6 ?'1 . ;1 7 >. 7,<6 f.6 E' 56 =<. Q ' ' <
<,<; .68 641 >.6 E' 56 >. <,7,1 .7V ?4O5 =4. . ; , <
6.<6 '' ; . =4. 5.6 / .> '5.416 ?1.<<.<7 5'' ?'1,5.8 .7
Q; 5.6 6, / / . >. 1.?,<>1.8 '17 ;5. ?'1 '17 ;5.8 .7 ?'1
>.6 E' 568 '' / .6 ; : .E6 > ' ; ;46'7 ,<f 7,47 5. 1.67. <.
6.1' 7 =4. >. -'54.6 >V>'1''7 ,<68
^ '?1.6 ; .6 E' 568 -,46 -,V.O =4. 5. 1'??,17> - M
J<,<8 #4*-8 641 >.6 ?1, ; .6 - .1O'4@=4 6,<7H,4
Q-1'J. >. ; .6 1'V> '7.4168 <. ?.<7 ?546 V7 . > 6;47V
& < 1 7 + < / 41 / 41. P ,6. > 1. '' H 66. / O5. .
=4. Q. <. 1.>,47. ?, <7 ; .77. > 6;466 ,<8 .7 =4. Q .6
2P . 71,4-.18 >'<6 5.6 ' ;7.6 / QV / .6 =4 ,< <,46 ?1VM
6.<7. ; , / / . 5'' ?1.<-. >4 -.4 >. 5'' 1.4< ,<8 5.6
/ ,V.<6 > .< ?1,4-.1 5''<455 7V

N . >. / '<>. 6 5.6 / V> '7.<16 6,<E
>.-.<46 / < 671.68 .7 ?,41=4, Q56 V .<<.<7 '6
6. , 1 '' 5'' ?5' ; . >.6 / < 671.6
N V '' 4< >>.1.7 =4 ,1>,<<.
=4. 5.6 / < 671.6 '41,<74<. ?5' ; . 6V?'1. . > '<6 <
7.1 .41 >. 5'' 6'55.I 6'1 66. / O5. . < .< O1>,<: . '4
71. / .<78 5 / . 6. / O5. =4. 5.6 #, / / 66' 1.6 >, N
- .<76. ?5' ; .1 5'' O'11. h
5.6 ; , / / 66' 1.6 6. 1.7 1.<7 '' 5'' O'11.
.J<'457 >. / '<>. =4 56 6, .<7 '> / 6 >'<6
<7.1 .41 + 66. / O5. .?'66. ,1>E.>4 Q,41
K6V *2 ' > 7 =4. 5.6 / .> '7;416
'-' .<7 >. >.6?,7.6 >'<6 5. #, / 7'78 6,46 .5.<
>'1> >. 5'' 5 O.17V , ; >.6 E' 56 1. ; .:76 . ;5 O >.
#'1?.<71'68 . .67 > 1. 5'' - 55. >. #'1?.<71'6 7,47
.17 # .8 '-' 5 ?1 6 4< '1EV V ?,41 5. 1.<-, >. 5''
J'1< 6,< ' >.6646 5.6 / .> '7.416 V;1 - 1.<7 '<
#5<O 5'' 5.771. 5'' ?546 <'.<'='<5. .7 5'' ?5 a 6V-.1.I 56
54 ,1>,<<.1.<7 >. E.1 / .18 / '<>E.1.<7 5. ?1.6 >.<7
- J<,< ?,41 5.41 '??O17.1 5'' >V O.1'7 ,< . >.M
/ '<>. 6 5.6 5 V> '7.4168 .<-,V.6 ?,41 1 7'O5 1 5''
?' @8 <. >.-' .<7 ?'6 6. 1.<>1. <E < / .<7 646?. ;76
?'1 ; .77. ?'17 '5 7VZ 4.<< : < 6 1.>4 1O <,6.1' 7
E.1 / .1 4< ;54O >'<6 . 1,V'4 / .8 .7 -,6 <Q.> '7.416
'O46.<7 ' <6 >. 5.41 '47,1 7VS
.65 ?'1 6 1VE,J'5 ,<8 . .67 ?'1 4< ' :46 >. 5.<1
?,4-, 1 =4 56 , :7 >. / '<>. 5.6 -..4@ >.6 ; , / / <
<.68 ?4 6=4. -,<6 ' - .O >. ;5'1> =4. -,46 <. -, , .O
'-, 1 =4 4< -'< . / 6 '?1E.6 =4. 5'' 71'<=4 55 7V ?4M
O5 =4. .47 .7. 1.7' . 556 6,<7 >,<. ; ,4?'O5.6
> .71. -.<46 -,46 ?1V6.<7.1 ; . -, .4I 56 ,<7 .6?V1.
> ,O7.< E J1 ; . >.-'<7 -,46 ;= -,46 ?1V6.<7'<7 4<
-. .< E'-,1'O5.I / ' 6 -,46 : . -,46 5' 66.1.O?, <78
6V>4 1. ?'1 4< 6. / O5'O5. : , / / 'J.8 ?4 6=4. 5.6
: , < / .61.- 746 > 4< ; '1' ;7E.1. ?4O5 ; 6 <7 ?1V-'1
; '7.416 >4 / , / .<7 ,E 56 ; .>.<7 5.6 O?1'. I >=
5.416 ?,4-, 16
5. ?1V6 >.<7 ' ; .?1>. 5'' ?'1,5. '<@ >.4@ ?, /
/ 1.6 / V> '7.<16 ?1.6.<76 = 5'' O'11.
;E. 76, I ' ; ;46'7 ,< >. 'OM
B 41V 1.<E.1 / . 7'177 >. ; : '1J.6 =4. Q. ?1 ? 6
6. / O V. >. / . E' 1. 1. / .77-. ; .77. ' ; ;46'7 ,<8 ' <
=4. Q. ?4 66. V 1.?,<>1. '17 ;5. ?'1 '17 ;5.8 ?'1; .
=4. Q. <. 64 6 ?'6 ?1V?'1>8 .7 =< 5 .67 / ?,17'<7
>. >,<<.1 >. 5'' / V7<,>. '' 5'' > 6;466 ,<
/ + 77-N . >. / '<>. =4? ,1 .< >V -1,
4<. ; ,? .8 / ' 6 =?. 1 '' / <47? 1.67. 641 5. O> V'<
& < < 41 / 41 ; P
5. ?1V6 >.<7 E' 7 ; , / / << =4.1 '' 5.6?, /
/ 66' 1.6 ' ;7. > ' ; ;46'7 ,< >. '41V8
' .)) N #: '1J.6 >. ?,4-, 16
>. 66. / O V. <'7 ,<'5.8 ; ,1 ,1V6 >. Q ; ,<E '<; .
>4 ?,4-, 1 .@V; 47 E8 <,46 '-,<6 .4 > '471.6 <M
6714;7 ,<6 : 4. -,6 ?1,?1.6 ? 6I ; .55.6 5 <,46 ,<7
'??1 6 <,6 >.-, 168
11 -V6 '' 1'<J.8 <,46 '-,<6 E' 7 ; . J4? <,716
>.-, 1 <?46 > .7' 7 ,46 -,VQ,<6 >.-'<7 <,46 4=
?'V6 =4 >.?4 6 6 @ / , 6 V7' 7 ' 7:V 71. >. 7,47.6
5.6 : ,11.416 >. c'' J4.11. ; -Q5.I <,46 <,46 6, / / .6
'11>7V6 1'<J.8 ?'1; . =4 5 V7' 7 / ?,17'<7 >.
-, 1 5.6 ; : .E6 >. 7,46 5.6 ; ,1?6 '1 / . 68 7,47.6 5.6
'47,1 7.6 '5,16 1. ; ,<<4.68 .7 == 5 E'5c= 7 .7'O5 1 5''
?' @8
'OOV '41V <,46 ''1.?1, ; : > > '-, 1 '> / 6 Q
; .6 ; ,<E.1.<; .6 5.6 >.?47.6 >. '66. / O5. . 5. ;7?1'5.8
5.6 >.?47V6 >. Q '66. / O V. 1.?1.6.<7'7 -. >4 ?'V68
/ 4< 6 >. 6, @'<7. '?4 7 ?1, ; .6 V.1O'4@ =4 5.6
'-' .<7 V7'O5 6 #.77. '66. / O V. '-' 5 6.6 =1>E.6
'1 / V. >. '4;546.I '1<8V. >. '4;546. ?7' 7 4<.
>.6 ?'17 .6 ?1 < ; ?'5.6 .<71. 7,46 5.6 ?'11 6 <7>1.6
6 6 -. ; =4 .466 ,<6 <,=6 71' 7. 6 ; . = .67 '-. ; 5.
; ,1?6 '4= .5 ; .77. 'E / . ,O> 66' EZ 55 1 . <,46'?
?'17.<'Q5 ?'6 >d Q41 .1 4<. >.6 ?'17 .6I 5 =. <,46
'??'17.<'4 ?'68 ; , / / . 'OOE '41V8 >. 5.6 '?

?.5.1ʹ 01 J'<>6‰ ,71.ʹ>.- 1ʹ>7' 7>.ʹ5.6ʹ.<7.<>1.8ʹ ?4 6=4.ʹ> . @ʹ.<ʹ?'17 .ʹ>.?.<>' 7ʹ #.77.ʹ ?' @ʹ=4.ʹ -,46ʹ<,46ʹ'- .0ʹ;:'1J.6ʹ> .7'05 1‰
5ʹ< .67ʹ?, <7ʹ-1'ʹ=4.ʹ<,46ʹ6,V,<6ʹ1.6 6ʹ' 1'<J.ʹ =4 <0.ʹQ,416ʹ?,<1'77.<>1.ʹ5ʹ' ?1 6.ʹ>.ʹ#'1?.<71'6‰ @ʹQ,416ʹ'?1 ʹ<,71#ʹ'11 ->.ʹ<,46ʹ6, / / .6ʹ?'17 6Iʹ 5.ʹ UʹQ4 55.7ʹ<,46ʹ6 J< / .6ʹ5.ʹ?';7.ʹ, 5ʹ;:';4<ʹ?1. ʹ <' 7ʹ1.<J'J. / .<7ʹ>.ʹ / .771.ʹ0'6ʹ 6ʹ'1 / .6‰ ,71.ʹ5,ʹ <,46ʹ,1>,<<' 7ʹ>.ʹ5 ;.<; .1ʹ>.6ʹ'1 / ..6ʹ=5ʹ6.ʹ0'7ʹ 7' .<7Iʹ<,46ʹ5 ;.<; > / .6ʹ5.6ʹ'1 / ..6ʹ / ' 6ʹ<,46ʹ<>‰\ 7> / .6ʹ?'6ʹ5.6ʹ'1 / .6ʹ>.6ʹ <> - >46ʹ= <ʹ'7 ' .<7ʹ?' ʹ 6 05. / .<7ʹ>'<6ʹ5.416ʹ ' / 55.6ʹ, 5ʹ76ʹ'-' .<7ʹ.<;,1.ʹ 0.6, <ʹ>.ʹ5.416ʹ'1 / .6ʹ.7ʹ 0 67, 1.ʹ>.ʹ#'1,<ʹ<.ʹ ʹ' =4.ʹ71,?ʹ?1,4-.‰
‰ '00.ʹ '41Vʹ<,46ʹʹ' > 7ʹ=4. ʹ6ʹ<,46ʹ< .7 ,<6ʹ ?'6ʹ'11 -.6ʹ6ʹ<,46ʹ'- ,<6ʹ1.7'1>.ʹ=4.5=4.6ʹQ,416ʹʹ 5ʹ'?' @< .>7ʹ?'6ʹ.7. 71,405..ʹ7=4.55.?' @$5ʹ'?' @>.ʹ 5ʹ' / ,17Sʹ ,40.ʹ;.<76ʹ0, / / .6ʹ=4ʹ'-' .<7ʹQ41.ʹ5ʹ' ?.17.ʹ> - J<,<ʹ;7ʹ5ʹ' / ,17ʹ>.ʹ6.6ʹ:'0 7'<76Iʹ -, 5ʹ'5ʹ' ?' @>.ʹ ‰ '00.ʹ '41V‰‰ ,46ʹ-,46ʹ1'??.5.06'<6ʹ >,47.ʹ 0 67, 1.ʹ>.ʹ#'1,<8ʹ,5ʹ,<0.ʹ / '5:.41.4@ʹ1.ʹ 7,41<'<7>'<6ʹ5.416ʹE,V.16ʹ641ʹ5ʹ'E,ʹ>.6ʹ71' 7>6ʹ6,46ʹ 5ʹ' J'1'<7 .ʹ>.ʹ5ʹ' H1'<;.8ʹ6,46ʹ5ʹ' 6ʹ4-.J'1>.ʹ>.6ʹ ?'66.?,156ʹ>.6ʹ / .> '7.416ʹE1'<;' 6ʹ ,4ʹ;.6ʹ,<0.ʹ / '5:.41.4@ʹ,?7ʹ Hʹ E46 55. 6ʹ .7ʹ / '66';1.6ʹ>.ʹ6ʹ<JM E1, >ʹ8ʹ'?1 6ʹ=4 ,<ʹ5.6ʹ.47ʹE' 7ʹ;,<E.66.18ʹ.7ʹ?'66.1ʹ 6,46ʹ5.6ʹV.4@ʹ>.ʹ5.416ʹ?.1.6ʹ.7ʹ>.ʹ5.416ʹ / .1.6‰ ,46ʹ '-,<6ʹ>.6'11'.ʹ5.6ʹ'47.416ʹ>.ʹ;.6ʹ;1 / .6Iʹ<,46ʹ5.41ʹ '-,756ʹ 7.ʹ5.6ʹ'1 / .6ʹ;, / / .ʹ,<ʹ'E1';:.ʹ #6ʹ>.<76ʹ '4@ʹ0>7.6ʹE.1,;.6ʹ.7ʹ;, / / .ʹ,<ʹ>.-1' 7ʹ'11';:.1ʹ5ʹ' 5ʹ<J4.ʹ'4@ʹ;'5, / < '7.416‰‰‰ʹ& <ʹ'??5'4> 7ʹ'?54 ʹ 6 .416ʹ1.?1 6.6‰P
.ʹ5.ʹ>. / '<>.ʹ' 66. / 05>.Nʹ6 8ʹ;,<71.ʹ5.6ʹ?,41ʹ -, 16ʹ=4ʹ<,46ʹ.7' .<7ʹ;,<5>6ʹ?'1ʹ<,71.ʹ / 66 ,<8ʹ <,46ʹ'- ,<6ʹ'11';:.ʹ5.6ʹ'1 / .6ʹ'7,47.6ʹ5.6ʹ;, / / 4M <.6ʹ'7,47.6ʹ5.6ʹJ'1>.6ʹ<'7 , '5.6ʹ'5,16ʹ ‰ '00>ʹ '41Vʹ'41' 7ʹ?4ʹ<,46ʹ> 1.N ,46ʹ'-.0ʹ- ,5>5ʹ'5, 8ʹ -,46ʹ'-.0ʹ'046>ʹ>.ʹ-,6ʹ?,4-, 16Iʹ -,46ʹ<,46ʹ'-.0ʹ '??,17>ʹ>.6ʹ-;.4@8ʹ.7ʹ-,46ʹ'-.0ʹ;, / / .<;.ʹ?'1ʹE 5.1ʹ 5.6ʹ'1 / .6ʹ'4@ʹ-,5'<76ʹ?,41ʹ5.41ʹE 5.1ʹ5.41ʹ5 0.17>‰ 'ʹ6ʹ5,16=4.ʹ<,46ʹ'-,<6ʹ1. / ?5ʹ5ʹ'5, 8ʹQ.ʹ;1, 6ʹ=4.8ʹ 5ʹ'6.45.ʹ;:,6.ʹ=4.ʹ ‰ '00>ʹ '41Vʹ1.J1.77.8ʹ; .67ʹ =4.ʹ<,46ʹ< 'V?<6ʹ?' ʹE' 7ʹ5. ʹ;:,6.6ʹ / . <.6ʹ>,<7ʹ5 <, 6 <;45?.‰ .6ʹ;1 / .6ʹ;, / / 6ʹ'#'1,<ʹ<.ʹE41.<7ʹ ?'6ʹ5.6ʹ6.456Iʹ>.Q'8ʹ>'<6ʹ5.6ʹ;, / / 4<.6‰‰‰ʹ,<ʹ'-' 5ʹ '66'66 <.ʹ>.4@ʹ,4ʹ71, 6ʹ?.16,<<.6‰ 'H' .6ʹ4<ʹQ.4<.ʹ :, / / .ʹ1.<71'<7ʹ>'<6ʹ6.6ʹE,V.16ʹ'?1E.6ʹ5.5 ;.<; .ʹ / .<7ʹ>.ʹ '1 / ..8ʹE47ʹ'66'66 <.ʹ .7ʹ.<7.1.>ʹ- 5‰ .6ʹ ;1 / .6ʹ.5ʹ>.6ʹ-.<J.'<;.6ʹ?1> / >> 7>6ʹ6.ʹF;, / / .7ʹ 5' .<7ʹ?'17,47Iʹ ; .67ʹ?,41ʹ.<ʹ. / ?>;0.1ʹ .E5.7=4.ʹ <,46ʹ?'1;,41> / .6ʹ5.6ʹ;, / / 4<.6ʹ;54ʹ#, / 7'78ʹ.7ʹ=4.ʹ <,46ʹE / .6ʹ,05 J.6ʹ>.ʹ>. / '<>.1ʹ>.6ʹE,1;.6‰
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ʹ / ʹ *ʹN .ʹ-' 6ʹ1.?,<>1.8ʹ.7ʹQ.ʹ64 6ʹE ʹ ;0.ʹ=<.ʹ5.6ʹ;, / / 6' 1.6ʹ?'1ʹ5.6ʹ.5,J.6ʹ=4 56ʹ / .ʹ >,<<.<78ʹQ< ,05 J.<7ʹ'5.41ʹE' 1.ʹ4<ʹ1.?1,;:.ʹ71E.6ʹ J1'-.‰ , ;ʹ;, / / .<7ʹ5.6ʹJ'1>.6ʹ<'7 ,<'4@ʹ=4 56ʹ ,47ʹ.<-,V>6ʹ6.ʹ6,<7ʹ;,<>4 76‰ 3 4'71.ʹ6,5>'76ʹ6,<7ʹ '55. 6ʹ;.0ʹ V->=4.ʹ>.ʹ 'ʹ6,<ʹ54ʹ> 1.ʹN W ,46ʹ?1.ʹ <.0ʹ>4ʹ;'E.8ʹ<,46ʹ-,45,<6ʹ.77ʹ?1.<>1.ʹ'466 IY.7ʹ ,<7ʹ E,1;>ʹ' 5.41ʹ>,<<.1ʹ>.ʹ '1J.<7‰ ʹ .67ʹ-1' ʹ=4.ʹ5.ʹ ;, / / '<>'<7ʹ' ?4<ʹ5.ʹ6,5>'7ʹ=4ʹ'-' 5ʹ?,17.ʹ5ʹ'?'M 1,5.Iʹ / ' 6ʹQ;ʹ>. / '<>.ʹ?,41=4, ʹ7,47.6ʹ5.6J'1< 6,<6ʹ E1'<;' 6.6ʹ,<7.7.ʹ / 6.6ʹ>'<6ʹ5.6ʹ;, / / 4<.6ʹ=4ʹ,<7ʹ -,7.ʹ?,41ʹ5.ʹ?'?.8ʹ?,41=4, ʹ5.ʹ / E / .ʹQ,41ʹ5.ʹE.4ʹ' #7>ʹ ʹ ʹ5ʹ'E, 6ʹ'4@ʹ=4'71.ʹ;, <6ʹ>.ʹ5ʹ'- 55.ʹ>.ʹ '5ʹ 1#'6ʹ6ʹ<6ʹ= .ʹ5.6ʹJ'1>.6ʹ<'7 ,<'5.6ʹ>,<7ʹ5.ʹ?.4?5.ʹ .<7 .1ʹ1;;5' / ' 7ʹ5.ʹ 6.;,416ʹ'ʹ .<7ʹ-,454ʹ>,<<.1ʹ5ʹ' / ' <8
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.>7 ,<' '4J / .<7..' >.6' '>.7' 56' >.6' ;.<<.416' =4 5 '' ,07,<46'
?.<>'<7 6'' - .8' .7'>.' ; <6' =4 ,< 0' '>.;.1<.' '4 7. / ?5.' >.6'
J1'<>6' :, / /#6% @ - ,54 / .6' < 8' >=?-1,< b '?'J.6' ;''
;4<% ' '1 68' ; .0 V.18' 01' 1.8' =5''' >.6' 4J467 <6I' .7
'4' #540 >.6' 71'<J.168 14.' >4' '58' <G %
+' ' 1 '), & ' ' ' G ' ' '
' ' '-.;' ;.77.' .?J7'?:.'N
' @ '1 ' ' '
8' 8 ' (' '
' '1 68' >.' , / ?1 / ,1 .' >.' H1,4 .8' =4' ' >.6' 4J467 <6%
. ' ,4 .6H. / / .6' >.-.<4. '?'?.68' .'1'
><'418' .-.=4.68' / < 671.68' / 'J 651'768' ?1,E.66.4168' ,5;%I' ?'P'
4<' ;#1?6' ';'>. / =4.' >.' >' / .68' > '?1.6' 5.' ., <6. 5 >.' % h G'
' '1 68' ;.:.0 5 '47.41\' '4' '1;:> .4E8' ?1.6' 5.' '5' 6 '1'
; '4>8' 4G>,%

, ,(
;1,5 4.' ' ' '' & .<>1.>' >' CG' 1.?1>6.<7'5 ,<

>.' 8 ' & H J4' 5V1 =4..<' C ';7.66'
-.>'0'55.5' >.' (R. / '=4.8' >.' ! '1>.5%
- (' ' 5 ' , ' + 4Q' ' F S'
/ > . .,% '>;7. 1645- .' '% V('- ' 'V.;'7 /' >.' '
-.17 66. / .<4' % 8'
.<>?.>'5'' h'1.?1> <5'7 , 5' >4' G ' '
.<' ' ' ;7.6%
- ' , % ,0% 6 ' Z' ' ' ! '
F !! ' : ' A
' - '1 U +' 14.' >.' ;0.5 .4% +' 4Q% 5' F' 1;'
?1.6.<7'7 ,<'>.' ' F ' ' ;, / .4 .' .<' b' ';5;68'
64 - .'>4' >E41; 4<>8' ?1,-.<E45%
9- ' ' ' ' 1 'd; >.-'<7' >;' ,<6 .41%
+ 4Q% 5'' S $' 1#?1 6. '7 ,<'>.' 9 ' ' ',<;
.4 ' ';7.68' .7' ': ' '\ '<;' 6%
<' '77.<>8' 5'' '%G' 1.?1>6.775'55,<' >4' G ' '
!. 68' ,?E 1'' E,5 .% 8' ' % % %
B> B' ' 8%+ ' B 17 77' H'5, '
,V'58' + 4Q% 5'' 5 8%1;?1 ;<7'5 ,<' >.' '0@) A'
' ;, / >> .' <,4-.55.' .<' ' ' ;7.68' ' - .' >.6'
O1R68%,? 1'.,EE =77.' .'4 ' '.7.%' ' I
- ' ' ' 3 % ' 11' ' ! 706 E KK65 +'
; P' @ ! ' & ' #0 <>>7.I' 5.6.@.1; ;.6' >4' Q.4<.'
<J5' 6I' '- 8, 5' '),
7, [K.'48?'<7, / / .' 0<7'; : <.6I'-.;44' > -.17 66. / .<7'
<' ;, / / .<;.1'' ?'1' (', ') %) ; A')
%' ' G 8' 8' %
B ! #,< 376$' '4' 0,45.-'1>' >4' . / ?5.% 4Q,41>%
5'' 5F1.?1 6.<7'5 ,<'>.' '$ ' ; ,4' '$ ' '
?'<7, / / .' .<' ' ';7.68' ? >.>>>.' >.' 5'' ' ' G A'
.7' >4'
BK ' H ' # a73 ' ' 7 3 % 6 5 Q% 5#'
' ' 04' ' ') ! !)' ?'17.'
;,46 <' ';=4.6%
- e ' ' ,40 8' 14E.' ' <5 '15 :% 4Q%5'' h'
1;?1.6.45'5 ,<' >.' _'' H1'<;.' & ' %; , / > .' .<' 4<'
';7.8' ?1#;>>>.' > 4<' 1,5,J4.8' .7' '
- % 'K' 'KK K' ,, -,6% +' 4Q% (' ' '
8, & ' ; / .> .' .< 4<' ';7.8' ?1.;.>>.' >.' 5'' '1.?1.M
6.<7'7 ,<%>.' ')@ ' ' 8' ,?.1''0,45 ,<%
+ ' ' ' '14.' > ' '' 84G%7' *% + ' .67' , -;17'
7,46' 5.6Q,4168' Q46=4 >' 7.55.' :.41.' =4 ' ?5' 7' '' % .6'
'0,4<>6' > V1.67.1% ' 8'

.!-((7)' ()' / (7 ()' '(' ,+ (,#'(#- , ('
' '(' .! /)
@?1. / .16' / ,6' (* % %5.6' 'V.416' 6.<7' ' '5.551;' %
, ' ' ' '9' $' B ' ' '
/67.1>' / % %' ' ' ' U P #'>' 0' ' % % % % ' % C 6
B' / 0=41J % 8' % % % C 9P' !><.6% 8' B(
,<>1.6%I CC I 0P % -,41<.' % % % % % % ' C(
'>1 >%%%%%%%%%%%%%%%% * % '6 V,<8' , ! '<' ?' 1
' ' ')
5;7 ,<6' >.6' : >.6' >.' C ' 5 -' 8' CC C' 8' C(' c8' C
%8?14<7' > , ; ,01.>.' '5 -% % I %%%%%%%%%%%%%%%% ' $' A> (
+'>.' >>;% ()C8' =4 578' >.' E <' % I' c8' P8' ' ?% '4' ?' 1' Q 0
+'>.' C / 55 ,<68' >.;% ()U% PI' P8' P8' 8' *P8' P8' 1k\
+'>.' 6,1 / 55% 6'<6' 0455% % % % % % % % % % % ' G/ 9 '0
+' ,1 .<- 'J.1%%%%%%%%%%%%%%%%%%%%
5455.7 <6% 7FGG%
:, <<' 66'<;.6' >.' 0455.7 <6' %%%%%%%%%%%%
;7%' <,4-% >.6' < > . 6 C 8' C*8C'
#' 66=> .6;% % % I' %)9 8' 8' 8' 8' U)8' U 8' U %!
. / #' 66. %%%%%%%%%%%%%%%%%%%%% *C)8' C(8' C98' C 8' C ' Y%
/ ?1% >.') ' / 55 ,<68' > ',37 ()*8' I' P8' P8' '4' ?' 1% %
6641% ;,<71.' 5.6' 4;' 9* 8* 8* 8) *8'))8) (8')
% %)U8') 8')C8')U%
+'0' .% % % % % % ' ( )8' (8' U8 8' 8' 8' % %
K ' F' ;5'66.' ' ?% $ $ 8'
+ C' ' ?% P64Q% '4' G% S
+ G 'U '?% P8' 6WQ% '4' Y % % % % $
+ U' 'U' '?8P8' 640% '4' d' .7' C 68' ?%5 -' % $ $ G

! b

GC)% - /BK (* % <

, A

G * !' * Ç 4E WE% + . / ?71. ,77, <'< .67
1 >< 7 ;.PB7W >.;< 1 . .@71 / 7> >. <. ?,41, 1 ?546
6 .@?,6.1'55 0' .7>>. 1.5.-.1 . <<.41 > 6,6 '1 / .6
6'06 1 6=4.1 1.7> />/. > .]" ;'?5'5.8 .7 5" >.1
< >1. ?1, <.6 . >4 < > -6 1 > 1' / .<.1 0 ,<7>7 5.6
E4V'1>68 .7 >. 6. 1 71,4-.1 "5" 7>7. >4< '1/> ;'?'05.
> =4.5=4. J5, 1.8$" <=4 >5> 5. 457'< .7 " E' 7 71. / M
05.1'50 /7< 67>1.% " ? 6. > <'?'8 , / ? 17> > '66'47 ?'1
.6 466.68 " ; <E <4> 5'?1.4-.=4.'5. ; '? 7'< ?' ; :" 6.
71,<1. '-. 6" E5,77. >'<6 < 6 74'7 ,< ' < ' ?, <7>,<<;1
>. 6.; 41 7Z '7.1 .41 >. 5 .1'? 1. .67 .< ?1, "7,<6 5.6
J.<1.6 > ; '5' / 7>6f BV 1#J<. '< < ; <7.<7. / .<7 J<>
1'5% .<' / .1' 1. V .67 > 4<. 1'1.5> .@71. / .8 '?1#6 '-, 1
K,4E5.17 ?546 .416 '57.1'7 ,<6% '<6 =4.5=4.6 ?1,-<;.65"
>.?,?45'7 ,< .67 6.<6 05.% .6 <;.<> .6 =4 ,<7>41> >.6
6. / ' <.6 .<7 >1,6 ,<7 '??'4-1 #,<67'<7 <,?5.f 5.6 <,4
-.55.6 >. ; '=<. ,41 '4J / .<7. 57 5.6 <=4 .74>.6 .4 <,7
E '<7 =4. =4. / ' 0.41 <,0-. '4% .1< 1. / .<7 4<. 71 04
'1'0.8 '6641. '7 ,<8 6 .67%. <?'1 >.'5" ,;=4.8 ">>?,6>5.
6:;1 E ,7 "?5 > 5.6 71>6,16% < '0 .>7. =4 ; .7 .EE1, ">
1.7.< 15.6 ;'1'-'<.6 >'<6 5" V1 % '<6 5" ,1>.8 5" ?.67.
E' 7 6.6 1'-'J.68 .7;% '?'1'57 > EE ; 5.> '??,15.1 '7'<7 >.
/ '4@>. ?1, / ?5.6 1.66 ,41;.6f 5.-.=4 -.16.5 .67 ?,41 5"
?' @f ,< ?.<7 5" 1.J'1>.1 '40,41> :4 ; / / 0 7.f 5.
!1'<> . J<.41 ?,<11 "6 , ; 4?.1 .<64 7. >.6 / ,V.<6 >.
1>?'1.1 5.6 / '50.416 ?7 0 .6% '<6 >, '7. 5.6 7>7.6 >.6 7M
; .6 ?' ; '6 < ,EE17, ' .<78 6.5,< 7 46'J.8 >.E' ; 5.6 >>
?.< .6f / '76 5 <G.< 1.67. ?546 >. 71>6 ?45.<768 ,@;.?7>
5.?' ; ">. ;47'1 8 =4 ' 1" >>E.<>1.6.6 71>6,16 .7 6 " -.8
.7 =4 1'??>5. ; .6 - .1 8 =4. 5. ?1. / .1 >.6?,>7.6 E 1'<E' 6
' / 7,>'<65'0,4; : .> [-6 1N d

5 <,78 > / ,?>.-, 18 , '<7"E, '<. '11>7.8
E$ '('5 (5 ('A . (-(+*-(. +,-,(
(' (24 $5('4 $*,7 ' ,*/ $" ('4.-,(*-"
- ($*"$,'#+*-.+ +'-(+*-(. *9,(4'

'8 & 'C(<,7 % + .'C 8 2 / > 8 . / ?.1.41 .7
'1;0 >' H1'<; , 6 '115->1.<7 >. .<<. < ;.77. - 5. >'<6
5. ?546 671 ;7 & ?1>6 '-, 1 / 6 ? .> '7.11. >'<6
5. ; '7. '4 1,V'58 56 . "' / <>1.<7 ?546 .416 ?1>?'1'7 E6 1.
5'7 E6 '4 ; 41 <4. <.<78 .7 V ?'66>1.<7 5" <4 7% .<>.
/ ' < CU8 ;.6 '4J467.6 -. / .416 ; <7 <4>1.<7 5.41 -,V'J.
?,,1 6 1.<>1. 1.6>.% ?. " '?1>65. >>?'17 >4 / ,<'1=<.
'11 - 5 ; / 7. > 17, 68 '#; , / ?'J<> >. % > '#'5,<<.8 =4
1.?'17 7 '466 7 7 ? ,41 '55.1 <>1 " '0.67> /?>1 '5.%
. / ?.1.41 " > '506<> .@. / ?7.1'5"- 5. >. 1'J4. >. 7,46
>1, 76 > .<71>. .7 > > <'<.=4.5 ; <=4.6 ?.<>'<7 4< / ,68
6'-, 1N >.?4 6 5. 7 046=4 '4 '6.?7. / 01.% "B'0.67>
/ ?>1 '5. - .<7 > ,1> <<.1 .< ,471. =4.'5. >.< J1'74 7 =,
; '=4. <1,<<. / .<7 5.6 >7'76 >4 1,V'4 / EE1.<7 '<6,4
-.1'< 6, 5 > 671 04> ?'< 5.6 '0 7'<76 <>. .66 7.4@ >.
; .77. 1.6 >.<; .f ,1>. 7 '#.5"1>6457.1"6'<6 >, / '4<. >M
/ <47 ,< ; ,<6 >>1'0 .>4 ?1 @ >.6 ; , / .67 5>.6 .7 >'471.6
,00. 6>. , / / .1; % 8 8
.6 ?1>?'1'7 E6 ?,<15. ; ,41, <<. / .<76,<7 / / .<6.6% <
" '4J / .<7> .1 6, >'76 > '?7> 8 'E < > '?,<-, 1 -.55.1
?546 .EE ; / .<7 5" 6 1.7> ?405 =4.8 .58 ?,41 641;1,57 >.
?1. ; '47 ,<8 >.6 >>7' ; / .<76 <, / 01.4@>. ' '-'5.1 E.1,<7
>.6 ?'71,4 55.6 E1>= .<7# 5" <4 7% '<6 5,47.6 5.6.1<.6 ?'1
0 .<71> > / ,<'1=4. '41" 5 .4 ,< " 7> 5.6 J ,474.1.6
6'555 '7,68 .7 ; ,<6714 7 >.6 J'5.1 .6 ,7 >.6 > ; 'E'4>6 ; ,4
-.176 .7 >>; 4-.17% ,41 1' / 46. / .<7 >4 ?405 5" E0 1.
?.16'< / / <; > .6 >. / '< " ?54?'17 >.6 J1'<>6 >.
5" ; 41 6. 71,4-.<7 > 0 8 .7>.?4 6 ?. " > .416 6,<764 ,
; .66 - . / .<7 '11 - .6 .<; 1 '5. 5 ?1 <; >. #,55,1.>.8 -
0'<.5 .1 >4 1,V'4 / .f 5.?1 <; > 7 '1. / 0.1J8 J1'<>
/ ,71.f 5. ?1 <; >. ,6. / 0.1J8 J1'<> ;0' / 0.55'<f 5.

^ '< '.

; , / 7. > a,55, [1'78 ; '<; .5 .1f 5. , / 7. > ! ; ,5.; 8 ?1.M
6 >.<7 >. 5" ; '/ 01. '45 =4.f 5.6 E.5> / '1> ; '4@ '6;V8
#,55,1.> .7 .55.J1 < f 5. >4 > . .5 J<' .8 5.6 J'1>.6 <.
05.6 '55.1 '<>6 .7 ; <J1, 68 ?546 .416 / < 671.6 >71'<J.168
; ' / 0.55'<6 .7 '471.6 6. .4168 <E < 5. 1>->1.<> >1.
; <E.66.<18 .7 046=4 '>1,<'47. K5'<; '1>8 '-. ,6.8
6,< ; ,EE5?'J<,<%
.6 =4'71. ; ,1?6 >.'0,41J, ,6 .>1 J>6 ? 41 ?'1'>.1 '4
; 41, <<. / .<78 ; ,<6 67'<7 ,< #'-'5.1 .8 <E'<7.1 .8 ; '6 0
6.416 .7 / '1.E' '<>68 6.'6 ,<77,46 1 .E' / .<7 >=4 ?>6 '5.416
?1,?1.6 >>?.<6% .E.5> / '1>, ; '5 > .#,55,1.> .7'5.1'8 .<
6"=<'5 7> >.J1'<> ?1 .41 >. ,1>1. >. '57.8 4<. J1'<>.
/ 'J< E ; <; % ; 41, <<. / .<7 6.1" E' 7 ?'1 '1; .-#=4.
> 5 / 4708 =4 '1. / ?5' ; ; .54 >. 1'J4.8 <E 1 / . .7 ; '66#>.
- ; 55.66.% <E < 5.6 7'76 6.?1,?,6.< >.>,4<.1 4<.E#7.
5'=4.55. ?546 >. =4'71. / 55. ?.16,4<.6 6.1,<7 '> / 6.6%
5. 641?'66.1" 7,47 ;#= 6 .67 0' / ' 6 -4 >'<6 ; J.<1.8
;7 1.- .<>1'8 '-. 5. :4 > '175E ; .8 4<. 6, / / . >.
87"'PE ,1 6%
6@ '% L , E

G

'G 'CC 5J ,1'< ; , ,< '
1,V'4 / .> 5" 1#-,547 ,4 .7 > 5" <,4-.55. ; <6 45 ,< >.
H1'< ; 'E' 7 =4. <,71. J,4-.1<. / .<7. / ?5, .7,<7.6 6,17.6
> / ,V.<6 ?,41 1.<>1.5" 657'<'75,< >,6H1'< ; '6 > ?546 .<
?<6 > .6'J4'0 .f '466 >. 7, / .65. '?'17 .6 >. 6?'J<.
,< - ,7 >.6H1'<; ' 66 >7, J<.1f 5 <V "?'6 46=4 '4@ 4
-.1J<'76 / 045'<56 =4 '< ' ;<7 ?1>E>1> > 6 .< 1.5,41<.1
?5 / ,7=<. > ?1#7;1 5. 6.1 / .<7 =4 ,< 5.41>. / ' ,>.f 5 .<
.67> / #/ .> ?1.6=4.'7,465.6 >71'<J.16% .6 ! ><, 6'466
/ ,<7 / .4@6.1,7 1.1 =4.> .<>41.1>'-'<0 '$% ! %#
1 >7> <=4 6 7,1 '5. >.5" 5,7=,4-.55.%

H # %

6,<6 '4 'B 7 / , 5 4 ('4 .
" KK8

* '8

B% % % K1 66,7%% G

,
% ! ,417, 68 71>6,17.1 >4 > 671 ;7 > 1>6f '0 1.68
04J. >. ?' @ >. 1,-.1- 55.f #7'?,<.78 0, / / . >. 5, .7
'> / < 671'7.41 >4 >>?'1&W / .<7f .J4'457 >4 K. '4; '1,<8
04J. >4 71 04<'5 > 1-Vf ,0 <8 <>J, ; '<7 '#,J.<7f 6
6,<68 04J. >4 > 671 ;7 >. 1,V.6f K.4J<,78 ?1, ;41.41 J.M
<.1'5 >4 >>?'17. / .<7f B4J,78 04J. >4 > 671 ;7 >.K'1 641
. <.f .11 <8 / ' 1. >. 1,V.6%

% A *! F

% K>1'1>&>. '1.<<.6P8 - ; ; =1>6 >.<7 >4 >>?'17. / ;<5f
.5 ;,65.8 ?1.6 >.<7 >4 71 04<'5 >4 > 671 ;7 >. " ; .55.f
K.1<'1>8 ; / / '<>'<7 >. 5" J'1>. <'7 <'5. > '<5.6 .7
?1.6 >.<7 >4 71 04<'5 >4 > 671 ;7f 6; '66.1 '<@8 >4 > 671 ;7
>. '<7.68 '> / < 671'7.41 >4>.?'17. / .<7f K4' / ?68 >"
> 671 ;7 > . '<7 .'< > <J.5V8 '> / < 671'7.41 >4 >#?'17.
/ .<7f 5,4<.'48 > 5. > 0.8 ,E 0? .1 >. 5" J.<>'1/ .1 .
<'7 ,<'5.f .1- .555.4@ B,17'E,778 >4 > 671 ;7 >. ,7 .'<
> <J.5V8 ?1, ?1 .7' 1.f / <,47 .18 &>. " ; .55.P8 <#J,
; '<5f ,<6 / ' 1. >. ; ; .E,17f =4.78 >4 > 671 ;7 >.
,<5 ,48 '> / < 671'7,41 > '>.?'17. / .<7f ! 50.17 >. '4
0 < '4@8 >4 > 671 ;7 >. ,<6%

* '

B% ! 4V'1>8 &>. ,<7'1J6P%

% 55'1>8 ?1, ;41.41 >.5" ; , / / 4<.f '1 <.'<8 04J.

)

& AC% '%' + ' , ' ' %'4e % ^'
/ .771.'>.6' '66'66 '768' 7' >E ;>17'>' 56'2 A'
J ,B' 075>5= .6' >7 5 ;: . E .B7 'E5 ' : '7' .: 7' ?>6' 1. '
c65c7 >' E. 1' V ' ' >7' 7' >'<.'4<?,17' :7' >6' ?1 :'0'
1"' ?' @8' 5JE ><8E7.'? 7; : .1' " 7,7 6' 1'0'<>>7 ' >E.'
'> 6 J<'7 , :6>E.'?'17 I'77; E.77.5 .57E.>0 %1'00 '
' 5?V' , 6' " ; . ' ' " ?:1'6.' ;0<1,7 ' ' ; : 0E'> ' ; '
;46'7 075' '47' ' : , :<.01' > ' 5' / .77 . ' .<' ,1 J <'5'
, 56' 5.6' V.4"'>;' 66; / 050.I' , 'Q J.1 0'6 ' dE;6?1 7'
>.'5" E . > '7 0 '1 07' 7' ?' '#00E0E1: .')'5"7, 66 ,75' =75'
5" ; : '1J' 7' > > 05 1' 5" ?' @' >' '5.' ?'V6' >7' > .'?1. '
- .< 1'5.6' > 66.<6 ,<6' ; - 5.6% , 0 '0.77.'50&7 9N
\' "77 6 >P'>,1 7 <, ' 04 ' 60 / 77 '6' E; : '1J' 7 % .'J' '
K>1'58 '677.<. <.07' : 1'>' / .64 .6' ,1> <' 106 '4"'71,4?.6'
>.'5 J, .8 =4.'<,46' ' - ,<6' ;14' < ; .66' 1 ' .'1 7' 'E7 1.' .07E.'
5.5550 ?,41' , 1 ' 707<7<4< =4' ' ' / .66 .416 5,6' ,E7 ; 16' >.'
'1 / . ,I' 'E 7' =4.'7,46' . ,<; .41.<7 '4' 6 , ; ' > ' <, 1.' <>J,'
>'5 ,<' 66. / 05> ' <'5 ,<'5 . .7 5.'1, ' ,<7 10 ,5< 1>7'05 1'5"
\'@'>'<6' 4<.' . ,<71>' ,0'5"<'7 ,< ' "7' 66 '6.6' >1, 76' <>>'
I 6 04 1] =' ' '81>7'05 66. <.<7'?.' ; .'7.'?' %05 .6' >' , ' <> 6'
d76'05 8' ?, ,1' 07.<1' , .7. 7 8 =7 .'5 ' 1 4? ' ' 'E V' 6.6'
'1J>. '7 ' 7 ' 7 5 .< >.' ,7>1.' ' ; 1>.7 7 U7,4 '601.7">.6'
?16,<<.6 '7 >.6' ?1,?1 > .6' =4 065.' '> 7><7'->' ;14? '
4;4<' .7> =77' '>, ? .?'17 ' 7>' '7 ?7 . '7 ,<' ?,J1'4.77<
?'1 ' <' >, 7 ?1,7 .;7 ,<' U . .4@ => ,<' '??.55.'> / J1'<76I
?' 6 'E'47 0 .<6.'J'1>.1'>"5.41'>,<<.1' .41'1.%7,41'>' 1'
>47 71 , / ?: .I' ?4 =?.' ; .4@=4'6.<7' 6.0E, 05.6? 41' '0'<'
>,<<.1'5" : : ,6.' ?405 =4.' .<'>'<J.1'<, <7 ?, <7 5.'>1, 7 >.'
1.?'1' 71.' '->' ' ,1J4. 5' / 6457'<7 ?'1 / '5. ' > 7,V. ,6' =7 '
,B7 >.E. 5> . % ' <' 'E, ,7 ?'U ;7 < ?546' =4"'5'] ; 7 V'<6' =7 '
47 ' , / 0'70' ?, ?1'5'751' ?'71 " ' '04 .>7 ?, 47 . >1' '4' '
=4' 1'- '<<. 5' '7 ?47 ,47 >1, 7 U'5" ?1,7. ;7 ,< >.' 5"5,7% G A'
?.<>'<7 5 5 .'E'47 ?'6' ,40 .1' =4.' '.77@ =4' 1.- ,<<. <7 >.'
1'1 / >.'>.' B, <7.4@6 ,<7 > .6' .7 V.06 =4' '7,47 6' ;1 5 >'U
'5 0.17>8' .7 =4' / >1 7.<7 .67 / ' "7 5" . ,<6 >>1'7 ,<%
$ <' >, 7 6417, 47 >71 7.1'5. ' >>6 J<'7 ,<5' '77. ?'17 ' \ 7 Q '
5 416 ,> .46. \' / ' 6' <, 7 6' ?'7>, <0'05>6' ,<7 1.'=4' >' .55.6'
5,7<0.<7 641'; '4@=4' ? 7 .4' ' .41'J" >"71'16.1'5.4E' '<J
' 4E'5 ' <7'<' ,41' V50'15>' E'1,7>.7 ,< U 7 ,46 8' . ,0>4 7.'
.J' " '<1'16 7,46' '7 '4' 0<" > 60<0B, ' > " ?'16' <?'6I'
5.55.6 6,<7 5.6 7<.641. ' .@ J> .66 ?'1 '5"1 >> '7 ,<8' > .6' ,E M
; 16 9' 6, >'7 'E1' <=' 6 8' ,471.' ' '55.6' =4" + ' = ' . / <' '>.'G
'7 =4' 6 ,<76 ,06 5" 1.6?, <6' '05 7> <> V ><.5 ' > .7 046' .6' ,E'
; .16 . / ?,V>6 >'<6' - J<, < .7 '> / 7' % 46 ; ,<<' 6'
U ,<6' , ' J><>E' ' - , 71> ?'1 >06 / "E 7 ; 70' >'6' 71, 0?.6' > '
5 J<.I' 5, '<.'>44' ,<6' ?, <7 >.' ' :?1'76.7<'<7 U1. ?5 1'
0,6' -4>6' E0' 6 75 > ' 7 >"<, 1.'>.- , 1'E ' >066 ? .E 5.'71,4M
05.6 1'?6 >46' 1'5'6' ?1>0, J>6' ?.6' >.47 ?'17 6 Z' 7 =4'?,41G
1' .47 5.6' '>451.' . " .11'41'7 ' % %

9 &U 6' E.77E ' '7 E7P? <.% 77
, ' ! $,'%' (*!)&' ,'() %, '!)' ! ,'& #'
'V8 0'& *-' 2 % $ 'B $ '('$ *'$B '
% ' , ' ' ! ,& % ?' %E ' $$ '& % '
'(!, *T &2 $$') &P' '%* & %4, = % , , '
@(,' $ ' ! $,'$ %' % ,'& '$%' A ' $ E' & '
$#% = E' '(% ' '%, % , % & '$%' $% % '$%'
($,'% ! ' % -' ' % $ % '&% ,C$,'*! ,'8 '
!E ,'$ '& % & " & 4 ,# ! ,' (%,' ! ,'8 '
%' $$ '&' ') B %%' ! , * U$@' '$ '
! % & '&' @' ($, ($! '& ,'& , (% ! ,'
' & ,'(! % @' &@ ! !% -@ ,'
& '*$! 4 % -'%, ,% , % ,T' " ' " # 5
' ; : .E' > ';! 6'7 , ' =47 ?,1 .G 647 1'66. 405>.'
>5' ;7,1'5.'K'6,0'7 > 66 ,<'4'71' 7>'>.'?' @WQ.' < V
1.?, <>1' ?'6

% 1600>' '7 1V' " ?1>7.<>4' =4.' 5" 45>>5'7 ,<'
'- ' 5' '47,1 6.' 1'66.7<05K.' K5K !7,1'5.' " 5.-#1'>#6' <G'
? 760 5' " ?1>7.7 >4' =4' . 5.' ' - ' 7, 4>1 6K' . '77.' > / .' '
666'7<05K.' >' 6 . / ?'1.1' > .6' 0 .<6' . . > >67'67 =4.6%%
'66.< 0 . .>5. ;701'5.'5 " ?, <7Q " / " ; ,1 < ' 66'<; .8'
E. ; 7 ' ' ;4<.EK;5' / '7 ,<'?,5 1'- , 1'5.-K>.6 :? 5 %
' .65' 0 .<' -1' ' =4.' '66. / 05. .' 1.?1.6.<7'7 - .'> 4 :'
?;4?5.' =4 ' '-' 5' > .;5'1.' ,4' <>.?. >'<; .' >.?4 6'
?1.6' > 4<' '<8' =4.' . .77.' '66.740 .K'1.?1.6.<7'7 - .8'
.<' - .174' >.6' ?1. / .16' ';7.6' > .'5' =4.55.' 5.6' ?. ,?5.6'
- ' . :7; .66.>.?'V.1'5K'> / .6' .7 6 .7' .<7 ; , <E,1 '
.6 .<'7,47 '4 ' >>.1.76' >.'1 66. / : >.'<'7 , <'5.88

'- ' 5' .=5.671.' 0.'4. ,4?' >.' 0 .<6' .; .6 '67 =4.>'
6' ; .' < .67 7<.1 . ' "7,7'5 7.I'7,16= .'Q.'E 6'5.' - ,V'J'
>4' # , <5'7 ?,41' V 1>7'05 E8' '47'<7 =4 5' .7' 7 . :'<,46'
4<' ,1>1K?1, - 6, 1.'= 'K / ? . .0'7 <Q4 7 . ' .7 .6' ;'
7.6' > 'B7,1 7.I' ' . .=4.>. ' 6 ,< / .1' ; ,<7 " =4'
.6' 0 .<6' '- ' .7 7 .7.'6.=4K677.68' .7 =4 5' < '- ' 7 ?"
>.'=4, ' - 7K' .' <'> 6' =4.'Q.'71,4- ' 6' . .77.' / .641'
>.'5" ?546' J1'<>.' <Q467 ; .I' =4.' '66. / 0 . .' .5. .7,'
1' .Q' =4.56' =4.' E 6 .<5' 6.6' >1, 76' Q' < '- ' 7 ?4' 5.'>.'
?,4 55.E' '<6' 4<' 1. / ?5' ; . / .<7 ?'E' 4<.' ?.<6 , '
' '5 7<.<7' 1K' .7 ; ,<E,1 / .' '<@' >. ;1.76' =4 .55.' >7' '
>.7.1 / <. .' " 4 -1KI' .7 '5,16' Q.' / K7<?5,V' ' ?,4
4.' ' .V.= K' >.' ' 6,< EE57 1. / 6' . :' ?,66.66 , '
.6' ?E. >4 76>.'6,< .-K; : .8' .@; .?7.' " > / . _' =4.'5.'
?'V6' 56' E5K W 5.E 7 ?K6' ?'V.18' =4.' 1 ;E7 <.' E.1' '
?'V.1' =4.' ?'1'5" E,1>.Q' .7 =4.' <,46' < .7 ,<6' ?'6' - `'
046' ? 1E' 1K ?'V.1% ' 46 8' 5, < =4.'5" / .> '7 ,<'6'
6, 71.<>4. ; ,4?'05.'>.' ; .6' <;45?'7 ,<6' ;'5,< < .4'
6.6'5"7' .> '7 ,17 " E' 7 7, 47 0.' =4 ' .7' 7 .<' .55.8' <,<'
.1<. / .<7 ?,41' ,?K1.1' 5" ?' @' Q' / ' 6' ?, 1' E' 1'
0# <>1.' Q467 ; .' "7 46' ; .4"' =4 ' K7' .<7 - .@ .68' = '
.7'5K 7 >'<6' .' / '5: .418' .7 <,7, 1. / .47 '4' ;5.1J'
>4? 'V68% 8
<6411. ;7 B' > - J<,<8' ' C' ' >.' .'1>?.7.5'
.67 4<.' <6411; .7 ,< ?'1E .E5.8' =4 ' .6E' '11 - . ' >'<'
4<. - 55.' " 1' 6.<' > 4<.' 1 E'5 7.' .<71.' >.4@' ?'17'
= ' ; : .170' .<7 2' >,1' <.1' / 474.55. / .<7%'#.77.' <M
6411. ;7 ,< < ' - ' 7'4.7 <'7' ??, 17' - . .'5.'# , / 7'78' < 5'
?'6' / . / K' .EE5.47K' 5"'71'4=4 55 7.'>.' ,1 01.6' .7 >.'
?.7 5K6' K, / / 4<.6' =4 ' '??'17 .<<.<7:' K7'7> -5'
J<, B0' .7 =4 ' .<7, 41.07I' . .77.' <6 511. ;75,< < " .'
'4;4<.' .6?0. .'> KEE.7 641' 5.6 E.4"' =4 '7, 46' 047 .7
?1.6.07.68' ?4 6=4 057.' .7' 7 ?,6 .1 .41.'>.'6 @'6. / ' '
< . 6Q' .< 66 ,B' >.' . .6' -7E.4@I' . .77.' <6411. ;7 ,< <'
?.47 ' ?'6' ! ' K 5" 0: '1J.' > .6' / .> '7.416% ,<'
'- ,B68' > 7 % '00.' '41V8' E' 7 ; .<71.1'5.6' 01 J'<>'
>' : ' 5.476' E,V.16I' / '76' Q.'%>. / '<>.' ' % '00'
' 1V ; , / / .<7 5.6' ? 7,V.<6'<E.'>.7' . 7 ?'6' 1.<71.'
>?:6' 0 1 ' : '0 7'7 ,<6' d .> / / .<7 5.6' J'1>.6' <'7 ,'
<'5E76' <.' >.- ' .'7 ?'6' 1.7,41<.1' ; : .0'5. 16' EKRK / .6'
<.'?,4- ' .47 ?'6' 1.7,41<.1' >'<6' 4<.'V 5.' >,<7 5'
6,<7 ; 7=V.<68' >,<7 56' E,<7 " ?,?45'7 ,<Z' 556' 6,<
1.7 71.6' >6<6' J<.< ?'1; .' =4 - J<,E5' .7' 7 5.4'
>;77 041.8' 5.41' >, / ; 5.'] 5.41' ?,66.66 ,<% 855' .7' '
/ ?,66 05.8' Q.' ;1, 68' U'5" / .> '7 ,<'>.' ; : '66.1'5" ?,'
?4 67 ,E5' > - J4,<' ?, 41' ?5' 1.' '4' : '47 ! , / 7'7%
% <' " '17 ;4 .' =4.8' 5,16' >.' . / 66 ,<>4' - ,74' > _
E J<,<I' <' '- ' 7 - .17 >.6' 7, / 0.'4@' >'<6' 4 / '
>J5 6.% 'E' 7 .67 '06,54> .<7 E'4@% ,1 >.' K / 6'
,<>4' #K > - J<,<8' 5' < V " K4 <'7, / 0.'4@' ,4'
- .1768' <'= .1.55.68' 7' > EE' / '7 ,4% "J'0.77.'>.' 5'
5.<.4- .% 5.6 - J<,<8' . .77.' J'0.77.' =4 ' .67 ?'VK.'?"
5.'?'17'>.6' ; , <71. 1. - ,547 ,<<' 1.6' =4' 6 V 6,<71.'
E J 0 7 . .77.' J'0.77.' =4 ' " E,41< ' " % '41V' N
?04?'17 >.6' E' 76' =4 5' " '17 ;45K68' ?'1; .' =4 .< .E5.'
%' V 6,<7 #,<6 J<.6' >K?4 6'71, 6' 6. / ' <.68' # .77.' J"
0.77.8' > 6 Q.8' "71'<6?,17.'U . .77.' . ?,=4.'4<.' '<. .'
>,7.' =4' .7' 7 '11 -K.' 5,16=4.' 5" J'1>.' <'7 ,<'5'
> - J<,<8' 6 @' 6. / ' <.6' ' ?>1'-'<58' E,1< ' 7 6,'
>7U7 d< UQ,1' >'<6' 4<.'KJ 6.8' '??.5. .'>.6' # '1 / .68' 7
Q.' <.' / .'71, <?.% <.' 1 -'5 7.'> .<71#.'>'<6' K7'7
/ 'Q,1' '- ' 7 , ; ; '6 ,<<K' =4.5=4.6' 1 @.6% < " ?1K
%7.7 / 4' =4.' =4.5=4 4<' '- ' 7 E. / 4K' 4<.'7, / 0.I' <,4'
< ' ,<6' .7. ' - .17 68' .7 U' <67'<7 <,46' '- ,<6' E' '
' :< 5.1' 5.6' >K5 0.1'7 ,<6I' <,46' '- ,<6' >.<,<; .' '
E' 7 " 5" / 4< >?' 7.8' .7 '66. / 05K.' =4' ' '
7.<4.' " .7> 1. ; , / 1' .<;K.I - , 5"5.'E' 7 =4 ,4' >.<"
541.8' .7' =4.' Q.' ; .17 5 .' E; ,1' / .' -K1 7'05.8' ?,41' .'
' ,1' ?1 6' / ,7 / K / .' " ; ,<<' 66' : . .' " ?546' .@' ,7.'
7')' > .5 ' % '41V' >.'> 1 '5 ' ; <71' 1 %
N % '00K E74V / '8 ?'14<' '17 ;5.'E <'5 .7 ?.EG
6><<,58 ' ; : 46' >'- , 1 K7. U K. / '- , ' > .6 : 46'
6'1> 7 > VU71.' .<71> '1. " > .6 : 466'1>' 'V' ,7Q.6'01.

ʿ ʿ / ' <8ʿ ʿ ' - , 1ʿ / ,<71 ʿ 7 '??'1. 5ʿ>.ʿ5ʿʿ-'< ʿ
.7ʿ>.ʿ ,1J4.'5% Q.ʿ> 1' ʿ ʿ 66. / ʿ=4.ʿQ ' ʿ>7.ʿ
?546> 4<.ʿ E, 6ʿ>'<6ʿ 7.ʿ ;'6ʿ> .71.ʿ'66'66 <>ʿ>'<6ʿ5.ʿ
#, / 7'7I' Q.ʿ> 1' ʿ ʿ 66. / 05>.ʿ=4 .<ʿ'55'<7ʿ2ʿ A
1. '68ʿ>'<6ʿ ;.ʿ?'V6ʿ ,>ʿ ,<ʿ'-' 7ʿE'6; <.ʿ5.6ʿV.4@ʿ>4ʿ
?. ?5.8ʿ ;.ʿ#5. / .<78ʿ '71, ;.ʿ '47.41ʿ>.6ʿ ;1 / .6ʿ>.ʿ
#'1,<8ʿ ; , / / '<>' 7ʿ '1 / >.Iʿ ;.ʿ#5. / .<78ʿ=4ʿ;1' ʿ
J<' 7ʿ '??1, ; :.ʿ>.6ʿ / >> '7.416ʿ .7ʿ5ʿʿ -.<J.'<; .ʿ>.ʿ
5ʿʿ 5, 8ʿ '-' 7ʿ ?,67.ʿ ;.<7ʿ ; <=4' ,7.ʿ : , / / .6ʿ >.ʿ 5ʿʿ
J'1>.ʿ<'7 ,<'5.8ʿ'-.;ʿ ,1>1.ʿ?,6 7 5ʿ>.ʿE' 1.ʿE.4ʿ641ʿ
5.ʿ / .> '7.41ʿ>.ʿ5ʿʿ H1'<; .% ,ʿJ'1>.ʿ<'7 ,<'5ʿ- <7ʿʿʿ
'0'4ʿ / '-.17 1ʿ>.ʿ<.ʿ?'6ʿ / .ʿ1 6=4.1ʿ>'<6ʿ5.6ʿ / ,<ʿ
Q'J<.6Iʿ -, 5ʿʿ 5ʿʿ 1' 6,<ʿ>.ʿ ;.6ʿ ; <=4'<7.ʿ :466'1>6ʿ
=4ʿʿ; ; , / ?'J<ʿ .<7ʿ5ʿʿ / >> '7 ,<Iʿ ;.5ʿʿ .7' 7ʿ<. ;.6ʿ
6' 1.ʿ?,41ʿ<,71.ʿ6>1.7.Iʿ ;.5ʿʿ >7'Q7ʿ <>;.66' 1.ʿ?,41ʿ
/ ' <7.< 1ʿ5.ʿ?.4?5.>'<6ʿ5 ,1>1.8.7 5ʿ< .<71' 7ʿ5' ʿ
>.>'<6ʿ'4;4<.ʿ .6?. ;.ʿ>.ʿ / ,7 Eʿ7.5ʿ=4.ʿ5ʿʿ / ' J< 7.ʿ
<,46ʿ ʿʿ?1>7>%

<ʿ>.1< .1ʿ ; :.Eʿ .67ʿ> '-, 1ʿ1> <7.J1>ʿ % '?:.:ʿ
Q4J.ʿ> - J<,<% %K'?:.5ʿʿ .7><, / / .ʿQ4J.ʿ> - ʿ
J<,<ʿ?'1ʿ5ʿʿ; , / / 4<.% '<6ʿ5.ʿ7.> ?6ʿ>.6ʿ71,405.68ʿ
Eʿʿ; , / / 4<.ʿ; :'1J.6ʿ5ʿʿ / 4< ; ?'5 7.ʿ>.ʿ<, / / .1ʿ4<ʿ
'471.ʿQ4J.% % '?:.58ʿ 1.-.<4ʿ'?1>6ʿ 4<.%'06.<;.ʿ
>.ʿ>.4@ʿ / , 68ʿ>. / '<>ʿʿ ʿʿ1.<71.1''<6ʿ6.6E,<;7 ,<68ʿ
=4 5ʿ< '-' 7Q' / ' 6ʿ;.66.> .@.1;.18.<ʿ-.174>.6ʿʿ<,M
/ <'7 ,<ʿ.7ʿ.<ʿ-.174ʿ>.ʿ5ʿʿ5, 8ʿ=4ʿ-.47=4 4<ʿQ4J.ʿ<.ʿ
?4 66.ʿX71.ʿ>.67 74>ʿ=4.ʿ?'1ʿ4<ʿ 4J. / .<7% %K' ʿ
?:.5ʿ6 '>1.66ʿʿ ʿʿ<,468ʿ .7ʿ<,46ʿ ʿʿ5ʿʿ / 4< ; ?'5 7V%
,46ʿ <,46ʿ 71,4- ,<6ʿ ; :'1JV6ʿ .<-.16ʿ B% '?:.5ʿ
> 44.ʿ6,17.>.ʿ1.6?,<6'0 5 7.8ʿ?4 6=4.< 46ʿV7 ,<6ʿ
5.6ʿJ'1'<76ʿ>.ʿ5ʿʿ?1,?1 >7.ʿ.7>.6ʿ?.16,4<.6%0ʿʿ / 4M
< ; ?'5 7V1>7'05 7 % '?:'.5Iʿ .7ʿ'5,168ʿ; , / / .ʿ<0<6ʿ
6.456ʿ'- ,<6ʿ641ʿ5.6ʿ .6?1 76ʿ4<.ʿ?1V?,<>.1'<; .ʿ> , ʿ
? < ,<ʿ=4ʿ ?1V-.<' 7ʿ5.6ʿ71,405.68ʿ<,46ʿ>>;5'1 / .6ʿ
=4 .<ʿ -.174ʿ >4ʿ 1V7'05 66. / .<7ʿ >.ʿ % '?:.5ʿ 5ʿʿ
E,1;.ʿ ?405=4.ʿ ?1V7.1' 7ʿ '66 67'<;.ʿ ʿʿ 6.6ʿ Q4J.ʿ
/ .476Iʿ .7ʿQ.ʿ;1, 6ʿ=4.ʿ<,46ʿV7 ,<6ʿ>'<6ʿ5.6ʿ7.1 / .6ʿ
?1.; 6ʿ>.ʿ5ʿʿ5, % <6 8ʿQ.ʿ;1, 6ʿ'-, 1ʿ1.?,<>4ʿʿ7,4 ʿ
7.6ʿ5.6ʿ <;45?'7 ,<6ʿ>.ʿ % '00Vʿ '41V% & <ʿ'?ʿ
?5'4> 7%P

(ʿ ʿ ʿ ʿ<\ʿ %

$ʿ 17% 5.1% ʿʿ J'1>.ʿ<'7 ,<'5.ʿ>.ʿ '1 6ʿ1.67.1ʿʿ
; , / ?,6V.8ʿ; , / / .ʿ.55.ʿ .67ʿ'4Q,<1> :4 8ʿ>.ʿ6, @'<7.ʿ
0'7' 55,<68ʿE,1 / '<7ʿ6 @ʿ> - 6 ,<6ʿ>.ʿ> @ʿ 0'7' 55,<6ʿ
; :';4<.Iʿ; :'=4.ʿ> - 6 ,<ʿ?,17.1ʿʿ>>6,1 / ' 6ʿ5.ʿ<, / ʿ
>.ʿ &

W % .6ʿ=4'17 .16ʿ'EE.;7V6ʿQ 6=4 ; ʿ ʿ; :'=4.ʿ0' ʿ
7' 55,<ʿ ; ,<7 <4.1,<7ʿ>.ʿ >71.ʿ ʿ ʿ / / .ʿ0'7' 55,<ʿN
7,46ʿ; ,<6.1-.1,<7ʿ5.416ʿ>1'?.ʿ'4@8ʿ.<ʿVʿ'Q,47'<7ʿ;.6ʿ
/ ,76N ʿ ʿ! Iʿ.7ʿ;.6ʿ'471.6ʿ / ,76N ʿ A
ʿ

dʿ % ʿVʿ'41ʿʿ=4'71.ʿ; , / ?'J< .6ʿ?'1ʿ0'7' 55,<8ʿ
<,<ʿ; , / ?1 6ʿ;.55.ʿ>.6ʿJ1.<'> .168ʿ=4ʿ6.1ʿʿ7:V.ʿ>.6ʿ
=4'71.ʿ'471.6%

$ % ,46ʿ5.6ʿ ; 7,V.<6ʿ';7 E6ʿ .7ʿE 56ʿ>.ʿ; 7,V.<6'; ʿ
7 E6ʿ=4ʿ>, -.<7ʿ V71.ʿ <6;1 76ʿ?,41ʿ5.ʿ6.1- ; .ʿ>.ʿ5ʿʿ
J'1>.ʿ<'7 ,<'5.8ʿ.7ʿ=4ʿ>. / .41.<7ʿ>'<6ʿ5.6ʿ=4'17 .16ʿ
'EE.;7V6ʿ'4ʿ / / .ʿ0'7' 55,<8ʿ6.1,<7ʿ1>?'17 6ʿ>'<6ʿ5.6ʿ
=4'71.ʿ; , / ?'J< .68ʿ>.ʿ / '< 1.ʿ ʿ5.6ʿ1.<>1.ʿ ʿ?.4ʿ
?1.6ʿ> .J'5.ʿE,1;.%

W % #:'=4.ʿ; ,1,?'J< .ʿ 6.1ʿʿ ; , / ?,6V.ʿ> <<ʿ; ' ʿ
? 7' <.8ʿ4<ʿ5 .47.<'<78ʿ>.4@ʿ6,46 5 .47.<'<768ʿ=4'71.ʿ
6.1J.<768ʿ :4 7ʿ;'?,1'4@8ʿ .7ʿ>4ʿ<, / 01.ʿ <>V7.1 / <.ʿ
>.ʿJ'1>.6ʿ<'7 ,<'5.6ʿ=4ʿ?,411,<7ʿVʿV71.ʿ'77'; :V6ʿ.<ʿ
1' 6,<ʿ>.ʿ5ʿʿ?546ʿ,4ʿ / , <6ʿJ1'<>.ʿ?,?45'7 ,<%

W % #:'=4.ʿ; , / ?'J< .ʿE,1 / .16ʿ>.4@ʿ> - 6 ,<68ʿ
; , / / '<>V.6% 4<.ʿ?'1ʿ5.ʿ ;'? 7' <.ʿ .7ʿ5.ʿ6.; ,<>ʿ
6,46 5 .47.<'<78ʿ '471.ʿ?'1ʿ5.ʿ5 .47.<'<7ʿ .7ʿ5.ʿ?1.M
/ .1ʿ6,46 5 .47.<'<7% ʿʿ> - 6 ,<ʿ6.1ʿʿ?'17'J..ʿ.<ʿ
>.4@ʿ?.5,7,<6ʿ; , / / '<>.6ʿ; :';4<ʿ '1ʿ4<ʿ6.1J.<7N
5.ʿ?.5,7,Kʿ6.1ʿʿE,1 / .ʿ>.ʿ>.4@ʿ.6; ,4'>.6ʿ; , / / '<ʿ
>..6ʿ; :';4<.ʿ?'1ʿ44ʿ;'?,1'5Iʿ 6ʿJ'1>.6ʿ<'7 ,<'4@

'77'; :V6ʿ ʿ5ʿʿ ; , / ?'J< .ʿ6.1,<7ʿ>J'5. / .<7ʿ1V?'17 6ʿ
>'<6ʿ; :'=4.ʿ.6; ,4'>.%

W % ʿʿ; , / ?'J< .ʿ>.ʿJ1.<'> .16ʿ>.ʿ; :'=4.ʿ0'M
7' 55,<ʿ6.1ʿʿ; , / ?,6. .ʿ> 4<ʿ ;'? 7' <.8ʿ4<ʿ5 .47.<'<78ʿ
>.>@ʿ6,46 5 .47.<'<7 Eʿ=4'71.ʿ 6.1J.<768ʿ:4 7ʿ;'?,M
1'4@8ʿ .7ʿ=4'71. - <J76ʿ J1.<'> .16Iʿ5.ʿ7,47ʿE,1 / '<7ʿ
>.4@ʿ> - 6 ,<68ʿ=4'71.ʿ?.5,7,<68ʿ.7ʿ:4 7ʿ .6; ,4'>.6ʿ>.ʿ
> @ʿJ1.<'> .16ʿ; :';4<.8ʿ6'<6ʿ; , / ?7.1ʿ5.ʿ;'?,1'5%

$ % 7'7 / 'Q,1ʿ>.ʿ; :'=4.ʿ0'7' 55,<ʿ6.1ʿʿ; , / M
?,6.ʿ> 4<ʿ; , / / '<>'<7ʿ.<ʿ; :.E8ʿ> 4<ʿ; , / / '<>'<7ʿ
.<ʿ6.; ,<>8ʿ> 4<ʿ'>Q4>'<78ʿ> 4<ʿ?,17. >1'?.ʿ'4ʿ.7ʿ
> 4<ʿ / '571.ʿ'1 / 41 .1%

W "% .7'7 / 'Q,1ʿ>.ʿ; :'=4.ʿ5VJ ,<ʿ6.1ʿʿ; ,1'?,6Vʿ
> 4<ʿ; :.Eʿ>.ʿ5.J ,<8ʿ> 4<ʿ'>Q4>'<7ʿJV<.1'5ʿ .7ʿ> 4<ʿ
$6,46 '>Q4>':7ʿJ.<.1'5%

$ "% ʿ< V '41ʿʿ?'6ʿ>.ʿ; , / / '<>'<7ʿJV<.1'5ʿ>.ʿ5ʿʿ
J'1>.ʿ<'7 ,<'5.ʿ?'1 6 .<<.Iʿ; :'=4.ʿ; :.Eʿ>.ʿ5.J ,<ʿ
.<ʿE.1ʿʿ5.6ʿE,<;7 ,<68ʿ.7ʿ.@.1;.1ʿʿ5.ʿ; , / / '<>. / .<7ʿ
?.<>'<7ʿ4<ʿ / , 68ʿʿ7,41ʿ>.ʿ1>5.%

W " % .ʿ; , / / '<>'<7ʿ.7ʿ5.6. '? 7' <.6ʿ';74.56ʿ>.ʿ
; :'=4.ʿ 0'7' 55,<ʿ6.ʿ1>4< 1,<7ʿ / / .> '7. / .<7ʿ'<ʿ
5 .4ʿ=4ʿ5.41ʿ6.1ʿʿ <> =4>ʿ?'1ʿ5ʿʿ / 4< ; ?'5 7V8ʿ'-.;ʿ
<ʿ ; , / / 66' 1.ʿ<, / / Vʿ?'1ʿ .55.8ʿ?,41ʿ #,<67'7.18ʿ
> '?1.6ʿ5.6ʿ1.J 671.6ʿ> <6;1 ?7 ,<ʿ .7ʿ5.6ʿ'471.6ʿ1.< ʿ
6. J . / .<76ʿ=4 56ʿ?,411,<7ʿ6.ʿ?1, ;41.1ʿ641ʿ5ʿʿ?,?4M
5'7 ,<ʿ>.ʿ5.416ʿ =4'17 .168ʿ5.ʿ <, / 01.ʿ >.6ʿ ; 7,V.<6ʿ
';7 E6ʿ .7ʿE 56ʿ>.ʿ; 7,V.<6ʿ';7 E.ʿ=4ʿ'??'17 .<<. 5ʿʿ
5.41ʿ0'7' 55,<Iʿ 56ʿ5.6> 671 04.1,<7ʿ.<ʿ=4'71.ʿ; , / M
?'J< .6ʿ>.ʿE,1;.ʿ ʿ?.4ʿ?1.6ʿ.J'5.8ʿ.<ʿ,06.1-'<7ʿ>.ʿ
1.4< 1ʿ>'<6ʿ5ʿʿ / . / .ʿ; , / ?'J< .ʿ5.6ʿ ; 7,V.<6ʿ=4ʿ
>. / .41.<7ʿ>'<6ʿ5ʿʿ1<>/ .ʿ14.8ʿ,4ʿ>'<6ʿ5.6ʿ14.6ʿ5.6ʿ
?546ʿ -, 6 <.6Iʿ 56ʿ>1.66.1,<7ʿ .<64 7.ʿ 5.ʿ; ,<7145;ʿ
.@'.7ʿ>.ʿ; :'=4.ʿ; , / ?'J< .%

$ " % #.5ʿʿE' 78ʿ5ʿʿ; , / ?'J< .ʿ >.ʿJ1.<'> .16ʿ>.ʿ
; :'=4.ʿ0'7' 55,<ʿ'??.55.1ʿʿ641ʿ5.6ʿ=4'71.ʿ; , / ?'M
J< .6ʿ5.6ʿ: , / / .6ʿ>.ʿ 0,<<.ʿ-,5,<7>ʿ>,<7ʿ.55.ʿ'41ʿʿ
0.6, <ʿ?,41ʿ6.ʿ; , / ? V7.18ʿ.7ʿ5ʿ6.1ʿʿE' 7ʿ / .<7 ,<ʿ641ʿ
5.ʿ; ,<71 B.ʿ>.ʿ; :';4<.ʿ>.6ʿ=4'71.ʿ ; , / ?'J< .6ʿ>.6ʿ
: , / / .6ʿ=4 .55.ʿ'41ʿʿ: 41< 6ʿ'4@ʿJ1.<'> .16%

$ " 555% .6ʿ; 7,V.<6ʿ>.67 <>6ʿ ʿE,1 / .1ʿ; :';4<.ʿ>.6ʿ
; <=ʿ; , / ?'J< .6ʿ>,<7ʿ5.ʿ 0'7' 55,<ʿ6.1ʿʿ ; , / ?,6.ʿ
'5,168ʿ.<ʿVʿ; , / ?1.<'<7ʿ;.55.ʿ>.6ʿJ1.<'> .1686 '6ʿ
6. / 05.1,<7ʿ.<ʿ?'17 ;45 .18ʿ6'<6 4< E,1 / .ʿ .7ʿ6'<6ʿ
'1 / .686,46ʿ5ʿʿ?1.6 >.<;.ʿ> 4<ʿ; , / / 66' 1.ʿ>.ʿ5ʿʿ
/ 4< ; ?'5 7V8ʿ.7ʿ<, / / .1,<7ʿ> '0,1>ʿ5.6ʿ,E5 ; .16ʿ>.ʿ
5ʿʿ ; , / ?'J< .8ʿ'4ʿ6;147 <ʿ <> - >4.5ʿ.7ʿʿ5ʿʿ?541'5 7Vʿ
'06,54.ʿ>.6ʿ64EE1'J.6Iʿ 56ʿ<, / / .1,<7ʿ.<64 7.ʿ5.416ʿ
6, 6 ,EE ; .16ʿ'4ʿ6;147 <ʿ <> - >4.58ʿ ʿ5ʿʿ6 / ?5.ʿ?54M
1'5 7Vʿ>.6ʿ64EE1'J.6%

$ " % .6ʿ, / ; .16ʿ.7ʿ5.6ʿ6.1J.<76ʿ>.6ʿ ; <=ʿ; ,<[ʿ
?'J< .6ʿ6.ʿ1.4< 1 ,<7ʿ6,46ʿ5ʿʿ?1 ` >.<; .ʿ>4ʿ?546ʿ J.ʿ
>.6ʿ;'? 7' <.68ʿ.7ʿ<, / / .1,<7ʿ5.6ʿ,E5 ; .16ʿ>.ʿ V7'7ʿ
/ 'Q,1ʿ>40'7' 5,<%'46;147 <ʿ <> - >4.5ʿ.7ʿ 5ʿʿ?54M
1'5 7Vʿ'06,54.ʿ>.6ʿ64EE1'J.6% %

$ " % .6ʿ; , / / '<>'<76ʿ.<ʿ; :.Eʿ.7ʿ.<ʿ6.; ,<>8ʿ5.6ʿ
'>Q4>'<768ʿ5.6ʿ;'? 7' <.6ʿ .7ʿ5.6ʿ5 .47.<'<76ʿ>.6ʿ>@
0'7' 55,<6ʿE,1 / '<7ʿ; :'=4.ʿ> ,<ʿ6.ʿ1V4< 1,<78ʿ6,<6ʿ
5ʿʿ?1V6 >.<; .ʿ> 4<ʿ; , / / 66' 1.ʿ>4ʿ>.?'17. / .<78ʿ.7ʿ
<, / / .1,<7ʿ5.6ʿ,E5 ; .16ʿ>.ʿ V7'7 / 'Q,1ʿ>.ʿ5ʿʿ >J ,<8ʿ
'4ʿ6;147 <ʿ <> - >4.5ʿ.7ʿ ʿ5ʿʿ?541'5 7Vʿ'06,54.ʿ>.6ʿ
64EE1'J.6%

W " % ʿʿ-55.ʿ>.ʿ '1 6ʿ?,41-, 1ʿʿ ʿ .<51.7 .<ʿ
> 4<ʿ7' / 0,41ʿ?'1ʿ; , / ?'J< .%

$ " % .6ʿ> 6?,6 7 ,<6ʿ>4ʿ>>.1.7ʿ>.6ʿ C(ʿ.7ʿ
C)ʿQ4 55.7ʿ (* 8ʿ=4ʿ<.ʿ6,<7?, <7ʿ; ,<71' 1.6ʿ ʿ;.55.6ʿ
>4ʿ?1V6.<7>V ;1.78ʿ6.1,<7ʿ.@V;47>.6ʿ ʿ '1 6ʿ; , / / .ʿ
>'<6ʿ5.6ʿ'471.6ʿ- 55.6ʿ.7ʿ .4@ʿ>4ʿ1,V'4 / .8ʿ6'4E..ʿ
=4ʿ6.1ʿʿ1>J5>ʿ641ʿ5ʿʿ / '< .1.ʿ>,<7ʿ6.ʿE.1ʿ8ʿ>'<6ʿ5ʿʿ
;'? 7'5.8ʿ5.ʿ6.1- ;.ʿ>.ʿ5ʿʿE,1;.ʿ '1 / ..8ʿ> '?1 ʿ5.ʿ
1'??,17ʿ=4ʿ>, 7ʿ>71.ʿE' 78ʿ641ʿ; .7ʿ=0Q.78ʿ?'1ʿ5.6ʿ; , ʿ
/ 7>6ʿ / 5 7' 1.ʿ.7ʿ>.ʿ; ,<67 747 ,<8; :'1J.6ʿ>.ʿ; .ʿ71'M
-' 5ʿ?'1ʿ '17 ;5.ʿ ʿʿ>4ʿ5 71.ʿ ʿ>4ʿ>>.1.7ʿ>.6ʿ 8Uʿ.7ʿ
ʿʿ,47ʿ>.1, .1%$

D'APRÈS UN DESSIN DU TEMPS.

Typ. Henri Plon. E. BELLOT

Réimpression de l'Ancien Moniteur, — T. IX page 661.

La reine essaye de relever le courage de Louis XVI.

66. / 05>.'<'7 ,<'5.8 '5'=4.57.'B' 1.<>4' P/&7.'?'1'6,<' ;, / 7.' ?5 7' 1.'=4 .<- 1,<'71, 6' /76Q.4<.6'; #,V.<6'>.'5' - 57.'>.' '1 68'7,<6''V'<7' 1- '>'<6 '' '1>.' <'7 ,<'5.'>.?4 6'5.' ;, / / .<;. ' %4.<7'>.'E' 1.-,547 ,< 6.'6,<7'1>4< 6'?,41'E,1 / .1' 7<.'71,4?.' '' ;:.-'58 .7'>. / '<>.47 ''>71.' . / ?5,V.6' ''5''>.E.<6.'>.'5''E1,<7 .E.I' =4 56'].'6,<7' / ?,6.6' '' ;4@ / > / .6' ,05 J'7 ,<'>.'6.11 1' Q46=4 '4' '<, ' -. / 01.' NW '7 / , <6'=4.' 66. / 05..'<'7 ,<'5.'<.' -'4 55.'5.6'5 ;.<; .1'?546'7>78' .7=4 566.'6,<7'.<J'M J.6' ''6401.< 1' '7.416'>>?.<6''4@'E1' 6'>.'5.41'<' ' 0 55. / .<78' '1 / . / .<78' .=4 ?. / .<78' .7'>.' .=< ?. ' / .<7'>.'5.416' ;:.-'4@8'; , / / .' '466' '' .<71;7 .<' >,';.6',0Q.768' / > / .'>.'>>?,6.1'4<.';.17' <.6, / / .' ?,41'>71.' . / ?5,V..' ''1:'0 55. / . 57'>.6'71, / ?.77.6I' .<7' '??5'4> 66'<7' '4' ?'71 ,7 6 / .' .7' '<'0.5.'>.';.6' Q 4<.6'; 7,V.<68' ''>>;1>7>'; .'=4 '64 7N

W 17% 5W1%' ' 6.1'' E,1 / >' 4<' ;,1?6' >.'71,4?.' '' ;:.-'5'6,46'5''>.<, / <'7 ,<'>.'& '=4 '6.1- 1'';,<' E,1 / . / .<7' '40',1>,<<'<;.6% / 57' 1.6';,<;.1<'<7' 5.6'71,4?.6' '';:.-'58 .7'6.1'';, / ?,6.'>.'Q.4<.6'; ' 7,V.<6' 'V'<7'6.1-'>'<65''J'1>.'<'7 ,<'5.'>.?4 6'5.' ;, / / .<;. / .<7'>.'5''1.-,547 ,<%

5' / / ' ' ! (,' , %' ! (! ,& & ' % ' , %& # ! , ' & ! ' '% - % '& , &'%' 4B ' '%'* ! '$,') ! ,' '$,') 4% -'& '

$' 558' >7'7 / 'Q,1'>4';,1?6'6,7'';, / ?,6.'>.'>.4@' 5 .47.,'<'7 #,54<.568'=4'71.''>Q<>'<76 ,E5 ; .168'4<' =4'17 .1 / ' 71. 71. 6,1 .18' 4<' ;< 141J .<'E' <' '>. ' ;0 141J .<8' 4<' / '1>;:'5' .@?.178'=4'71.' / '1. ;0'4@% E.11'<768'4<' / ' 71.'6.55 .18'4<' / '571.'.?.1,<< .18'4<' / ' 71.'7' 75.41'.7'<< <6?.;7.41>.6'E,411'J.6%

W %'#:'=4.'.6;'>1,<'6.1'';, / ?,6>'>.'>.4@'; , / G' ?'J< .6%

$' %'#:'=4.';, / ?'J<.'6.1'';. / ?,6>.'> 4<';'?G' 7' <.%<<'5 .47.<'<78' 4<'6,46 5 .47.<'<78%4<''>Q4 ' >'<7'6,46G,E9; .168'4<' / '1.;:'5'>.6'5,J 6 .<';:.E8' >.4@' / '1>;:'4@'>.65,J 68'=4'71.'01 J'> .168'=4'71.' 6,46 01 J'> .168' ; ,=4'<7. 71, 6' -,5,<7' 1.6'.7' <' 71, / ?.77.8'E' 6'<7'.<'7,47'6, @'<7. 04 7':, / / .6%

$' %' .'?546'<;.<';'?7' <.'>.6'>.4@'; , / ?'G J< .6'E,1 / '<7' .6;'>1,<'5.';, / / '<>.1''6,46'5.'5 M 71.'>.';:.E'> .6;'>1,<% G

5' '3 ') ! -'& ,'!** ,' ' ,! ,#!** ' , %' *% '& '$%' & ' % & ' '&% ,'$,'B% % $$! ,'& ' A% & ,' % ! %$,'4!$! % ,' '(&'

5'4 ' .6'J4 >,<6'?,17.1,<7'5''>.- 6.' .7'6.1,<7' '4@';,45.416'>>;1>7>.6'?,41'5.6'>1'?.'4@'>.6'J'1>.6' <'7 ,<'5.6' -,5?<7' '.6' ''? .>I' 56'6.1,<7'?,17>6'?'1' >.6' / '1.;:'4@ >.65,J 6'.<';:.E8' '4';:, @'>4'?1.M / .1'5 .47.<'<7 ;,5,:.5%

$' ''%' 4'Q,41',4'5.6'J'1>.6'<'7 ,<'5.6' -,5,<7' 1.6' ?'1 6 .<<.6' '';:.-'5'6.1,<7'1.J4.6'?'1'5.6';, / / 6' 6' 1.6'>.6'J4.11.6'?,41' .<71.1'.<' ';7 - 7.8' 56'1.>.G' -1,<7'C '6,46'?'1'Q,41'>.6,5>.%' ''?'V.'>.';:'=4.' J1'>.'6.1''>'<6'5'' / / .'?1,?,17 ,<8';,<E,1 / > / .<7' '' ;,'=<' '' .7.'1>J5>'?,41'5.6'J'1>.6' <'7 ,<'5.6' -,G' 5,<7' 1.6' '? .>%Y

' , 4' #: '% U' KKK%

' '' ' ' .'1'??.55.' '' 66. / 05>.'=4 .8' 5,16 ' =4.'5.'1, ' .67'?1.6.7178' '<.'>, 7' 7 '?1 6''4;4<.'>. %' 5 0.1'7 ,<8'.7'Q.'>. / '<>.' =4.' 5.'?1.6 >.<7'6, 7' <M -.67S'>.'7,47.' '47,1 7>'<.;.66' 1.' ?,41'. / ?>;:.1' '4;4<' / . / 01.'>.'?1.<>1.'5''?'1,5.'5.'1, '?1.6.<7%

3 2 , , B$ '& & 2% ' ! ! ' ' %'*% ')'(, '& ' !

M' '$ ' %((! '& ' ' % &. % $$% ' ($ #' , ,'& ,'& ' ! , (! '& '(% ! , , ,' ,! ' &G

V' *(' -$ ''3 ,-' #+$,(' 4+.' (' -$.(3, $.(' - ' --4+.!' ,((*,' -(' +-*(! (,D $.(' +' *('3 4+9*$(/ # . (-' +' $ (#.+*36(' 4 .' .($''$ *' -(' 4+4$(. ''.(4.-'(*!' ,+,$#'' -(' 0+ (. '' *-,+$.(' *+,$ *+ ('/ (',' .(*D 0 8-(/ ' .' +' -(+*-(' -(' ' 6+''(8/ + '4 0 $.' (2-3 ,$#

' $ ';A('4.$(' ''( ) -(' -(' +33 .- .' *' (*,' -%+,,(*,$ *'4 .'5 (' (' $.(*-(' 3 4,3' -(' +' -(4 ,+,$ *'(*0 8-('6$(.'36(U (. $' '' +0 $$'' .(4$'+ 4.(''- ' . $ +' $''$ *'5 ('0 '* '' +0$(U' - **((/ -('.((,,.(' +' +' + (',(' (' -(3.(,'5 ('0 $$'' 0(*$(U' -(' .(*-.(' *' $.((,+*,'3(' --3.(,/ * '' +0 *'' (24.$.+(% + ' . $ +' '(*'+,$ *'5 +0+$,' (23$,-(' -+*'' '' ( ) -(' ' *' (''+9(7 * '' $'+0 *'' -$,;

' 1.8' 66. / 0 .'<'7 ,<'5.8' .<',<7.<>'<E5''5.;741.'>4% / .66'J.'>.' ,71.'B'Q.67>8' ''6,4-.<7' <7.11, / ?<';.77.'5.;M 741.' ?'1'>.6 '??5'4>566. / .<76' =45' .@?B / ., 7' 'EE.;7 ,<' >.6 H1'<;.' 6'?,41'5.41'1, I' . 5.' ''.?1.4-#'5.'?546'>,4@'>. ' 6.<> / .476'.<'-,V'<7' ,71.'B'Q.67#.@?1 / .1'6,<-,.4?,418' 4<.' ' / '< 67 .' J#<#1'5.' =45' ?4 6.'7.1 / <.1'7, 7.6'5.6 > 6G' ;,1>.6 .7'5.6'> 66.<6 ,<6I' .55.'6d.67' . / ?1.66#.'>.'1.<>1.'4 ' >>;1.7 =45'E@.'5.'7.1 / .'>.'5''1>-,54 ,<% Y

(' . $/ 4+. +*,'- *', *' ,$'#+$,/+' .-4 $$- '(*'3(' ,(. (';

' ' / .L.1''7,40,<164<'?5' 6 1' .7'4 '>.-, 1'>,'6<5-1.'5'' -,5?<7>'>.'5''<'7 ,<8' =4'<>' .55.'6.1'' ;,,<4.% ' .-, 6 '-.,' 1.1,<<' 66'<;.'=4.'E' 66. / 05>.'<'7 ,<'5.'' 7 '.;>>>' ' / ,K -..4% .'6,40'7.'=4.'5.'>>;1.7=4.'-,46' / .'?1>6.<7.0 / .7 ' E<'4@>6;,1>.68' =' 5'1>4, 66.'7,47'5.' / ,<>.8 ,7=4.'<,4'' <.'6,V,<6=4 4<% $

(' . $'+' + , -;

' ' 6< 6' <6714 7 =4.' 66. / 05>.%<'7 ,<'5.' '' 1.<>4' ;' / '><' 4< >>;1.7 1.5'7 E' '<.;,1>,< 05.4I Q.' / .'64 6 >>7.1\' / <>' '=4 77.1' ..57,'>.;,1'7,<8 .7Q.' -,46'?1 .'>.'E'51.'?'17 >.' / '' 1.6,547 ,<' 66. / 05>.I'

+' .($*(' (,' (' (*#+*#'' - ' . $ '(' ,. 0+$(*,' ' (*!' ,.((' -(' +'36+).(' - '3 *'($ / ' +' -(4 ,+,$ *' +' (,-' .(3 (' (' . $' * '' +' -$,;

$' ' / ''E . / / .' .7 / .6 .<E'<76' =45' ?'17'J.<7 / .6'6.<M 7 / .<76% !

+' .($6(' '%(',' +0+*(-((,' +' -$,;

' ,46'';,,41,<67,<68 / .6 .<E'<76' .7 / ,' .7'<,46'?'1G' 7'J.,<67,46'5.6'6.<7 / .<76 >4'1, % \' & <'??5'4> 7%P

D ' ($.-'$-(,$,'+** *3(' *('4(,$,$ *' 4+.' +5 ((' (''($(3,(. ''- ' - 4+.,((*,' .-3$+ (*,3 *,.(' .(2 D 3 ,$ *' - *' - 3.(,' -(' 4.$'(' -(' 3 .4''3(*,.(' ' +$$!' , *'/ (*, (' 4+.' *' 6, $''$(.' -+*'' (' '($*' (' -(' +''( ) (' (3, .+ (

% (,,(' 4 ,@ *' (',' .(*0 8 (' + 3 $, -(' 3 *',$1 , ,$ *

' ' ') !! ' 0, &)

' # 'ID '(','(4'' ' (#,.('#$*' +' *('+# +$.(' 5 $' 33$$4(' -(4 $''$' $$9,(4'' '' ( ) ((' %(,' -(' + **(.' +' ,(. (' + 2 (23(''5 $' - ' (*,' 0$9* *' (, (' ,+,7 (,' *(' * '' -$''$ *''4+''5 (' , ,((' (!' 4(3(' -(' 4+.,$5 $'*(' '(.+$,'4+'' +)' ' (,' -(#$*$,$#'+(' ,(*-.+$,'5 +'4(.4 , (.' ('' ,) ('' ,'+'9 (..(' 3$1 0$ (' '' + $(U' 4.(*-.(' *(!-(3$'$ *' .'5 *' 4. 4$*+*,' (','0(*' (0(.' *'$*3$-(*,'5 $'.(*-.+$,' $%+##+$.(' $*,(. $*+) (/ *' $*3$-(*,'5 $'(',' +)' ! (*,' ,.+*9(.' ' +'5 (',$ */ (,'5 $/ '(' (' -$.(/ * +' ,' 6*+9$*' '5 ('4 ' $*-(.' *'4+.,$ - $*$,$#' '' +0(U' (*,(*-' ' ('' -(3 + +,$ *'' -(' ' +)) ' + .8D7'(''3+ *$('' *' ,' .(4 '' ('' +0(3' + !' ,+*,' -% *(.9$(' 5 (' -(' 0 .$,(' 4+.' (''3 $''+$.('' -$+,(.' '' +0(U'0 '5 *' *(' 0 '' +$'3$,(' + !' 3 *' #+$,/ '$* *'5 (5 ('' +)' .-(''3+ *$(''$.(%('' - *('9+U(,,(' ('*9(.(' ' *D8 +'4+'' *' (*,' +'4(.-.(''$ 0 '' *('0 (U + (.'A+'9 (..('3$0$ (% -+*'' ' - 4+.,((*,''A(' -(+*-(' - *(' 5 (' *' 4+''(' ' .-.(' - ' .' ' . $*3$-(*,' -(' D +)) ' + .8' K

G 669 / 05> ' ? '6 E7 'Q > E7
% ! 5. 17W\<7 7 7 / .17_S ? ' 7 ' 5 7) ' 5 ' ' 71 7 I
66' / 05. . 'E.1 5.' 5 ' > 6 ; 466 >
. ' ?1 , Q. 7 > . ' >> ; 1E. 7 > . 6 . >7 7E. ' ' C<E577 >7 E5 G
?5 , / ' =4 . ' >67 ' >> ?7> ') ' 14< ' : 7 7. ' >> ' 5 ' ' ? ' 77 E.
J ' K ; : . 8 . 7 ' 4 014 7 > . 6 ' ? ?5 ' 4> 66 . / . <76 > . 7B04 .
5 . 6 . 7 > . % 5. 6 > . ?47>6 ' 5 ' ?E , ; : ' <> 5Ec 5 ' 7 1. 8
?1 . 6 . <76 ' 5 ' 67 ' < ; . 8 ' 7 6 ' Q4 5 64 7N

C 66.1 05. . ' < ' 7 > : ' 5. 8 ' ?1 6 ' - , 1 . 5 . 4 ' ' 1 ' ? ? , 17
> . ' 6. 6 ; , / 5 ' > ?5 , < ' =4 . ' . 7 ' - Q< , <7 8 8 8
& * ' $ - (. + * ' #L (/ 3 . $. $ + ($$$ (* $ + $$ 4 b $ " # - + $. (" -

[illegible]

% B 8 . 1 , 7 6.1 ' ?< . ' 4 . ' 44<< . 1 4. 6 , 1 ' 1. 6 ' 4 4 4 6 1.
> . ' 5 ' Q467 ; . ' > . ' E ' 1 . ' >1. 66. 1 ? ' 1 ' 5. 6 Q4J. 6 > . ' ; : ' = . 71 Q4M
< ' 5 1 . ' 7I ' - 6 . ' ? ' 1 5 . ' . / / 6 ' 51 . ' >4 1 , 8 > . 6 ?1 , ; . >41. 6
. 7Q4J. / . <76 . , / ?1 6 > ' <6 % ' ?1. 6 . 47 . ' ' Q , 5 7 , <I 5 . / < 671 .
. . 17 E . 1 ' P . ' ; . 1 ?6 5 . J 65 ' 7 E > . ' 5 ' 1 . / 6 . ' > . 6> 76 . 7 ' 76 %

[illegible]

5.'1, ' '' ? ' E5 N' ;6' >.<?7.6' 6.'6,<7' '66 6'.7' ; 3?-.176%
% 6,< 4J'5'<>'?1.6.<7.' 5'' 64 7.' >.6' >.;1.76
4 .'.+-#*$*$',.+,$ *' # .(, ` c$
*' #,,,$''$(47 $ +' 4 . $&
' . $'(,.(' -+4'' +' '+ (/ +33 4+9*-' -4' , 4'' '(''
4$$4$',.('/ 4 +8'*,' - + ,.(' --35.+ $ *' 54(' +' 3. $2'
-(' +$*,! $'' V' ''4 b) ((' '(' 40(. ' (' . $'0+'
'4' 4 44(.' '3-,4' 4' 7 L4' 44-' (4 N !
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! %ʿ d

ʿ ʿ 7.' ' ,>E% + ,'6 .<71.>.<70.'>; ,4? ʿ>.'5" ; ,<-.<7 ,< ?'17 ;45 1.8 >.' .?>; .'>.'?'; .'=4.' . / ?.1.41 .7 5.'1< ʿ>.' 1466.' - .<<.<7 >.'E' 1.' .<71.' .4@% ' ,71.' / < 671.'> .<<.' " / '<>' > 6" ; ,41 =4.' ; .7' ;7.' ' - ' 5 > > 6 J<>8 ' - '<5 5.'>>?'17 >.' >,?,5> 8 ?'1'5.' ?1 <; .'>.' a'4< ' .5 % K 6; : ,#1 [.1>.18 =<.' ; .'>.1< .1'5.'54 ' ' - ' 5 K7, /1>% #.'71' 5>8 '0,<7. 5 5 8 ; ,<7 .<7 4<.' J'1'<5 .' 1>; \ ' ?1,=4.'>.6 7'76 1.6?. ; 5 E >>.' ; .6 >.4@ ?1 < ; .680.7 >.6 6. ' ; ,416 67 ?45>6 >'<6 ; .6 7. / ?6 ; 1 7 =4.68 ,> .6?1 7 >.'>>\ / , .1'5 .'6. / 05.' / .< ' ; .1' " 71'<=4 55 7> >.6 ?,7.<7'56% ' 1.<E;1 / .' .< ,471.%4< '17 ;5.' =4' <,46.671.5'7 E8 .< ; .'=4.' 5.6 >.4@ / ,<'1=4.6 V 6,<7 ; ,<-.<46 >.'<.'>,<4.1 0' / ' 6 '4;4< >.'5.416 ?1 < ; .6 .< / '1 'J.'>4<.' <E'<7.'>.' ,5, \ % J<.I' ; .'=4 ' >,<<.1' 7 > ?.<6.1' =4.'5" <,4- . . ; ,<65 74 ' 7 ,< >.' ; .'1,V'4 / .'<.'6.1"?, <7 > ' 75.416 <=4 >5>.?'1' 5.6 >.4@ / ' 6,<6 ; ,<7E' ;7'<7.68 > '47'<7 ?546 =4 5< .67 E' 7 >'<6 ; .7 '17 ;5.' '77;4<. ' / .<7 ,< >.'5" 466 .% < 6 , ; ; <?.' / ' <7.<'<7 >.'5" ; ,<E.;5 ,< >.65, 6 ; - 5.6 .5 ; / 5<.55.6 =4 'E,1 / .1,<75.' ; ,>.'>.' 7'< 65'6 4J467.% <?'15.'>4 ?1,0.7 =4 "5"0,41J. , 6 .'>.'E' 1.'>1 J.1' 4<.' 65'7<.'>' ; .' ?1 <; .%

ʿ .<-,V> > 6?'J<.' .67 '11 -> >'7 ,< ?1>7.<> =< 5 <.'?'1 .'=4.'6"5'<J4.' / '7.1<.55.'8 ; .' =4 ' 1.<>1' 7 71>6 ?>, 05.5" / '4 >1.'>.'71' 5.1' ' - .'54 % ,6 > / J1>6 '<7 1>-,547 ,<<' 1.6 <.'7'1>.1,<7 ?, <7 > 1.-.< 1'>'<65.41 ?'71 .% >0> =4.5=4.6 446 >.6 / . / 01.6 5.6 ?546 > 65 <J4 ' >.'5" <,05.66.8 ?,5,<' 6.8 =4 ' ' - ' .<7 7>/ , J<> : '47. / .<7 5.' / >; ,<7.<5. / .<7 =4.'5.41; '46' 7 " ,4-.75? ; ,<6 747 , 8 - . '<.<7 >.'1.<71.1>'<65.41'?'\ 71 . .7>.%>,77<.10.41 '>0>6 ,< > 6.6 <,4-.5 .65, 68 .' ; .' <, / 01.'6,<75.' ; , / 7.' ,7, ; 8 J1'<> J.<>1'5 > '15 55.B.' >.' " ,5,J<.8 4<%>.6 6. J<.416 - '%?546 1 ; : .6 .7 5.6 ?546 ?4 66'<76>,' ; .' ?'V6I' 5.' ; , / 7.' 0. [46 8 ?.7 7 J><>' 1'5>.'5" ; ,41, <<.I'5.'?1 < ; .' ?1 K'78 5.' ; , / 7.' ' ; 0 <6 8 7<'1>;0'5>.' 04'< .8 .7 5" J1'<>.' / '1>; : '5.' ?1 4; .66.' 040, / 16 '% F %%%

,46 <,46 '77.E'>,<6 " 1.; .-, 1' >.6 <,4-.5 .6 <7>1.6G '<7.6>.'1.<71.-<.>.1' 5< ' ; : .0 >5.; 5.41 >.' '@.% ,46 6, / / .6% ' ; .5 >J'1>8 >'<> 4<.'J1'<>.'?.1?5.@ 7>% % ' [.4.18 .<-,V>.@71' ,1> <' 1.'>.'5" ; ,41>. ,<W >1.60 ; .55.'>.' >5.160,41J8 .67 '11 -> ; '>.' ; .77.' - 55.% ' <.'7'1>.1"?, <7 > 1.?'17 1'?,41'1.7,41<.18 ?'1E .15 <8 > , ' 1.68

8 d % ! %

: ʿ ʿC)ʿ (ʿ + 471.'&,?<,< >>0" ; ,<G ?4.'>. " > >7.'641'5.6 'EE' 1.6 > 56' ; .I'5.' / < 671.' .7 >G 5.; 7.41 >.' B'<,-1.' " / '< E.67> 5'6 .<<.8 =4 1.- .<7 > ; . ; % # . 7=4.V>.5> / '< >1.'>,<7 ; .77.' '7 .71>6% / ?,1\ 7'<7. ">>5>71' >.046=4 ; 8 '< .67J4>1.?,66 05.=4 ,<'?4 66.' ' / .<.1>4<. ; .<;546 ,<I' =4 =< ' ; ; >>.1' 7- ,5,<7 .16 '4@ .< / .<76>.6>'56> 471 ; : .' .7>.'K' - >1.8=4 '6,<7> ' - 6 =4.' ,<>>5 0>1.?1. / >1. / .<7.76'<6>>5' '641'5"<'741.>.6 J1 .E6 =<' ,<7>7>?,15>6 > 5" > >7.8 .7 641'5.6 / .6<1.6 =4 5 V " " ?1.<>1.' .< >,<6>=4.<; .8 ' <=4.' <6, 5 .< >7'7 >.' ; , <<' 71.' ; .4@=4 '6,<7 E,<>>6 ?,41 V '??,17.1'>4 1.G / >>.' 6'<6 1.7'1>8 < ?1,?,6.'?,41' ; .5 .EE.78 ; , / / .'5.' / ,V.<5.'?546 ?1,?1.'> ?'1-.<1'>' ; .'0 8 >.'; 0, 6 1'?'1 / ' 5.6 / . / 01.6 >.6 > '56 4<.'>.?47'7 ,< .@71' ,1>0<' 1.'=4

7 G' ' +' , / .' ' .

6 7.1' 7 >'<65.'5 .4 / > / .'>.6 '66. / 05>.6% ! .'6.1' 7 < ' < =4.' / ,V.<>.'6.<>.1' . E , ' ; . / .<7 5.'E,<> >.' ; .77.' 'E\ E' 1G / ?,15'<7.8 =<' >,17>.?4 6 <,' 6 > ; 5.8 .7>.' ' / .G8 <.1'>6'E <% < >>. ,4-11' 7 ?'1' >7,<65.6 . / ? >7. / .<76 =<.'5" H1'<; .8 " ?4 E, 1.641' / ? 1.% # .5" E,41< 1' 7 .< ' / > <.' 7. / ?67.' / ,V.<6 <,<\6.'5. / .<7 >.-. / >> .1' '4@ % '07768 / ' 6 .< ; ,1.' >.'>.7.1 / <.1' 4<.'E, 6?,41'7,47.68 .7 > 4<.' / '< >1.'>. ; 6 -.8 5.65 / 7.6 =4 ' 6>?'1.<5 / ? 1.' >.'5" H1'<; .8 < ?1,7.67.' .< ; ,<6.=4.<; .I > .'5" ?'17 >.' >5. ; 7.41 >.'B'<,-1.8 ; ,<71.'7,47.'>> / '1; 0.'=4 ?,411' 7 ' - , 1' 6,< .E >7 > '?1>65.6 ; ,<;546 ,<6 >.' " > >5.8 ' - '<7 .@' / .< ?1>5 / <' 1.' .5 ; 1; ,<67'< ; > =4.' ,<?1,?,6.8 ?4 6=4.' ; .5"6.1' 7 ; '?'05.'>.'?1 - .1'5.6 5'56 >6>6 >4'1.\8 >1.66. / .<7 =4 6 '77.<>.<78 .7 =< 56 ,<7 >1,B > 'B.<> K >.' '66 67'<; .'>.' <5? 1.%

ʿ (ʿ ʿ ʿC)ʿ ʿ +ʿ '5 6 5.6 ; 1; ,<67'<; .6 ' ; ' 7<.55.68 =4 '>. / '<>.<7 4< ; ,<; .17 .<71.'5.6 7'76 >.5 /G ? 1.8 ?,41'>,<,.1'64 7.' '4 >.1< .1' ' - 6 >.'5" > >7.8 ; ,<' ; .1<'<7 5.6 ?1 < ; .6 '55. / '0>6 ?,66.66 ,<<>6 .< H1'<; .88 ' > . ; 7.41 " 04 ' ; ,<-.<'05.'> ' ; ; 1.>5.15.'0'1,< >.'B.16 ' 5 <J ; , / / .' / < 671.' '4?1>6 >4 ' ; .1; 7.'>. ,4'0.% 8.%; ,<' 7 <J.<5 >,405.'=4.' >5. ; 7.41 E,4: 1" .67 >.'6.?7 / 5 .6 @ ; .<76 ; , / / .6I ,< 71' - ' 5 .'>'<6 ; .' / , / .<7 ' / .551.' ; .77.8 71,4?.' .< >7'7 >.' / '1; ; .1% % % %%

34 <0.'0'7' 55,<6 >.'71,4?.6 / ?>1 '5.66.'1.<>1, ,78 '6G 641. 7 ,<8 >4 .>7> >.'5" ' - , .8 ?,41 E,1 / .18 >.' ; ,< ; .178 ' - .' 671,4?.6 6'1>.68 4" ; ,1>,<'6'7 .6 / <7 >1.6 >.' H1'< ; .% % %d

' ` $! ' 9 ' +'K.'4; ,4?>.H1'<?' 68 .76415,47>.'E'01 ; '< 6 .7 >.' J.<6 >.' / >7 .18 ?'66.<7 ?'1' / ?1.' ?,41 '55.1' 6 >7'05 1'>'< ' 5.6 5'56 >4 1, 1' >,' 1466.I' ; .' < .67 ?'6 ?1,?1. / .<7 ?'1' .6?1 7 > '< / ,67 > =4 6 =4 75.<7 5.41 7.11.' <'7'5.8 / ' 6 ?'1; .' =4.8 >'<6 ; .6 / , / .<76 > 'J 7'7 ,<8 56 < V71,4-.<7 ?'6 >.' =4, '6 , . ' ; 4?.1'.7 6.'?1, ; 41.1' .<71.7 .< <>. .66' 1.' ' .4@.7 '5.416 E' / 5 .68

.'0'1,< >.' ? .5 / '<<8 1>E>1.<>' 1.> 7'7 >.5 . / ?.G 1. '18 6 .67 1.<>4 K.15 < I' ,< ?1>64 / .' =4.' , .6 ' ?,41 / .771.'5" >.1< >1.' / ' < '4@ '1E'407. / .<76 ; ,<.8.<>6 .<71.' 5.6 >.4@ ; ,416%

.4@1>J / .<76 > <E'<7.1 .'>.' . / ?.1.41 6.' 1.<>.<78 > '?1>6 >.'<,4-.'4@ ,1>1.68 >'<65.6 'V6 K'6%

.'>4.' .7 5" >4; : .66.'>.' 17. / 0.1J 6,<7 1.-.<; 6 > B, : .< : . / 8 5.') ' ' , 78-.<'<7 >.' .<<.8

%

% W .1E <8%E. <,>E8 +'K .1'>'6, 1'5. -%8 64 7.8 .67 '11 -> ' ,76> ' / 8 >.'1.70<1' >.61.-4.6 >.' 5>6 .8 '?1>6 ' - , 1'?'66> ' 5< 70 .5 ' 1.6>.% 5'>7' 7 ' ; . , / ?KJ'> >4 ?1 <; .'1,V'5 >.' 1466.8

%5.'0'1,< >.'K 6; : ,E6 [.1>.18 '>07 >'<7J>4>1'5 >4 1, Y " >7>>5.-> '4 J1'>.' >.' / '0,1'J><>1'5 >.'6.6 '1 / >.6%

' ʿC)ʿ 4.> ' +G < " ; ,<6.1->641'5.' ? .> >.' J4.11.'5.6 1>J / .<76 =4 ' ; , / ?,6' .<7 5.' ; ,1?6 EE'1 / >.' '66. / 0 > ?1>6 >.' ' / E5'4% < > 7 / > / .' =4.'6,46 ?.< ; / > / ; ; ,1?6 6.'?,17,1" - .165.6 E1,<7 >1.6 >.'5" ,5,J . % ' ' ' ,>E8% 8 ' ' ; ,1?6 >4 J><>1'5 6.G >, / ' 6406 67.' .<; ,1.'641'5.' ? .>'>.' J4.11.8 ' ; ,<6 676 .= 6.?71>J / .<76 > 4E'<7.1 .' .7 =<'71.'>.' ; ' - '5.1 .'

! %

ʿ F ʿ ʿ ʿ* ' '??1.<,<68 ?'7 >.6 5.771.6 >.' # ' > @8 5.6 >.7' 56 64 - '<76 I'5.'1, '>.' '1, ; 6 .67 ?1>6.<7> >.- '<7 ! .4748 '5"7>7.'>.'6, ' '1 / >.'8 .7 > .<-,V> ?546 .416 , K ; .16 '4 J,4-.1<.41'>.'5"'?5' ; .8 ?,41 5.6, / / .1>.6.'1.<>1.% 8 410 .0'8 5.'J,4-.1<.41%'V'<7 >'<65.' / > / .'7. / ?6 7. . < 4< .@?1>6 >.' '>1 >8 =4 ' 54' '<<,<; ' 75" <,4-.55.'>.'5" >> ; 5'1'7 ,<>.'J4.11.8 1>?,<G > 7 '4@ .<-,V>6 >4 1, '>.' '1, ; =4 56 .466.<7 6.'1.5 1.1' 6,46 4<.'0.41.' ; ,16 >.'5" ?,17>.'>4 ; '<,<8 ?'1; .'=4 ' '4 0,47>.' ; .'7. / ?6 ,< ; , / / .< ; .1' 77.'E.4I ; .'=4 ' ' > >.@>' ; 47>% .6 '41.6 ,<7 1 ?,67> >.'5.41'0' .1 .8 .7 ,<7 0. >

>.6 0, / 0;6 =4 ' ,<7.<> ` / 6 >' /'5"'?5'; .'?5'65.416 0`'
7 / .< 6%
.' 6,<' ;>7>8 % >.' ,1'5.8 ; : .E > .6<>1.8 ; , / / ''G
>'<7 5.' - ' 66.'4 ((: '>.'9 ' ;'<,<68 .7 'V'<7
6,46 6.6 ,1>1.6 5.6 E1 '7.6 7.' : I '.7 ' AG 9 '
' - .;'4< ; .17' <' <, / 01.>.,;.> .;6.7 >.' ; ; '5,4?.6;'<,<6
< 71.6 .7 0, / 0'1> 1.68 ''7 '=4#' 5" - 55.' >. '<J.1% <
'6641.'=4.'5.6 0, / 0.6 = ' 5 V ''0.5#.6 ,<7 ;'46.'4<'>, / \'
/ 'J.' ; ,<6 >.1'05.% %
% K'1; .5,8 ; : .E > .6;'>1.8 >, 7 / .771.' <; .66' / / .<7 .'
5" - , 5.' ' - . ;4<.'?.7 7.'E5, 55.>;67 <. ;'' '77'=4.1'5.6 >SEV
E 1.<7.6 ?5' ; .6 / '1 7 / .6 >4 1,V'4 / .'>;' '1, ;%
.0, 41>.5'' ' <71 ,4 68 5.6 ; '? 7' <.6 >.6 0 `7 / .<76
/ '1; .'<>6 E1'<; ' 6 =4 ' 6.'71,41' .<7 '' #'> @ ,47 ;# #01.'
5" E.7.'>,' 1, % ,46 5.6 <' - 1.6 , '7 >7.'?' - , 6#68 .7 ,<' "
E' 7 >.6 6'5-.6 > '17 55.1 .' '> E.1.<6 <7.1-'55.68 #0,41' .7
5" - . 7.% .' ; , / / '<>'<7 >.6 0 `7 / .<76 E1'<I' 6 '' .4
7,47.'5"<4 7 ,<.' 554 / <'7 ,<71.6 0' 55'<7.8

%%
—

' ' +'E <.'5.771.'>.' ; .77.' ; ;? 7'5.8 .<' >'7.' >4
C(' , 78 ?,15.' =4.'5.6 - ,5,<7'51.68 '?1#6 ' - , 1 .7.'?'66.6
.< 1 . - 4 . 5 < 'J : 85.' G >.' ; .' / , 68 ?1.6.<701.<7 4<.'
>1.66.' '<' #, / 7.'>.' # : '15. / ,<78 5.41 J.<.1'58 >'<6 5'\'
=4.55.'8 .<' >>?,6'<7 .@?1.66 ,<' >.6 6.<5 ?.<76 >4 ?546
?41 ?'71 ,7 6 / .8 56 54 '> 6' .<78 .<71.' '471.6 ; : ,6.6N $ "
#,<67'<; .' ' - .;'5'=4.55.' ,71.' . J<.41 .'6 .67 . E,1; .'> ,0'
7.< 1 4<.'1.E,1 / .' J#<#1'5.' >4 ?'15. / .<7 > 515'<>.' '"> '
<'741.55. / .<7 <,46 .<J'J.1 : 1#?#7.1 <,6 >.;5'1'7 ,<6 .<
E' - .41 >.' ; . . / ?,17'<7.' / .641.8 =4 5 .67 .66.<7 '5 >.'
<.'0' / ' 6 ?.1>1.'>.' - 4.% K< . E.78 7'<7 =4.'<,46 <.'6.1,46
?'6 ?'1 - .<46 ; ; .77.'1.E,1 / .8 <, 1.' ; ,<67 747 ,<6 ' - '<7#.'
< .67 =4 4< - ' <' / ,71 =4'<>' <, 465 '41,<6 ,07.<4.%8
/ ,>.'>4 J,4 - .1<. / .<7 6,46 5.=4.5 <,46 - - ,<6 .67 646; .?M
7 05.' >.'>. - .< 1 5.' / . 5.41 .7 .< / 0 / .'7. / ?6 5.'?546 >4M
1'05.% '<> 6 =4.'> '471.6 K5'76 / .77.<7 .< , .4-1.'7,47.'1. G
<.1J .>4 ?. ,?5.'?,416.'1.E,1 / .18<,46 <,46 E5'77,<6 >.'71,4 '
- .18 >'<6 ; .4@ =4 'J,4 - .1<.<75.'?'V68 '66.7>.'6 I.66"?,41
. '77 1.1 ' E.;7 ,<' >.6 J,4 .1<.68.<' ; ; ,1>'<7 .'5.416 >.G
/ '<>.6 <67'<7.6 4<.'1.?1.6.<7'7 ,< 1 . .55.' .7 5.J'7.' >.'5"
- ,5,<7.' <'7 ,<'5.I 1.?1.6.<7'7 ,< 8=4' 6.45.' ?.<7 '6641.1
?,41 7,40,416 5" ?' @8 7 0.17.' .7 5.' 0,<0.41 >.' ; .'
1,V'4 / .%Y

K%

' : ' Y ' Y ' +$. ' <7 01.' '.7.7106 `5 J77.'
?'1 5.6 ; : '5.416 .@; .66 - .6 .7 ?'1'5.'71' - ' 5 .@71' ,1> <' 1.'
'4=4.5 5 < ''?'6 ; .66# >.'6.' - 1.1% % % 'V'<7.?1,4 - .85.'
C)' >.' ; .' / , 68 4<.' >,<5.<1 >.'1. <6 E,17 ' J4.8 % >.'
K,66 8 6,< / #>.; <' >.' ; ,<: '<; .8 ,1>,<<" 4<.' 6'5J<. .8
=4 'E47 E' 7.'6<115. ; : '< ?8 .7 =77'?'1<7 7 '0,1> ?1,>4 1.'
4< 06 0,<' . E.7I / ' 6 5.'5.<>. / ' < 5 641- <7 4<.'E . - 1.'
- ,5.<7.8 .7 5.' ' <7 01.' .47 4<#- '<,4 66.< .<7 =4'>,<<"
0.'4; ,4? > <=4 #74>.% < 54 ' " E' 7 ?1.<>1.'4<.'E,17.'
>,6.' >.' =4 <=4 <'% 40,41> 04 '5.' ?'?.' .67 E,17 'J 7.8 .5
,< ?.<6.'=4 55'41"4<' <, 7 - .5 ' ; .06% <' <.' ?.<7 ?'6 >#G
7.1 / <.1 .<; ,1.'6 ' . .67 ,<.'E 0-1.'7 .1; .8 ,4 6 .55.' .67 >4
J.<1.' >.' ; . .6 =4 ,< '??.5.' 0 , / . .7 .<
1'<; .'>0 - 1.6 / '5 J<.6%
% ' +' E% ; ; .5 <J.5,'#' / ' 0
0 '6,' "07;'#54 : .1'>,J.'>.'5"10?405 =4.% # .67 4<0, / / .'
> 4<.'0.55.'E J41.8 =4 ' "0.'4; ,4?> .6?1 78 .7 =4 '6 #<,<; .
' - ; '4<.'J1'<>.'E'. 5 70% "E' / 55. .67 ?546 > 67 <J40.'?'1
a ' - .1746 =4.'?'1 6,< '<; .<<.70%
<' '77.<>' <; .66' / / .<7 .< , / 0'1> .'5.6 >,40.' / 55.''
0, / / .6 >.' 71,4?.6 =4.'5.6 5'<' 6 ,<7 >. / '<>#6 ?,41
'4J / .<7.1'5" ; ,<6, / / '7 , ,8 .7 6.' / .771.'?'1'50 .< #7'7 >.'
?'V.1 5.416 / ? 56%
' ' C(4 ' +' .' ?1, ;41'7.41 ! , - '<.55 8
E 01.'>4 ?'71 '1; : .'>.' L.< 6.' .67 / ,178 .7 5.'6 .41 ;0 .5'
''0 ' #54 0 '' " ?5' ; .%

%

@ ' ' '>.' ' ' '6.?7. / 01.% W .'
. 6. 5 6. ;1.7 >.' K.1<.' - .<7 >.'?1,6;1 1.' 5.6 ?'? .16 >.'
H1'<; .8 .@; .?70 5.'8 A
5.' - ' ' '.7 5.' - ' ' '8

$ <' - .<7 > '11 7.1 0 '46'<<.'>.<6 ?.16,<<.6 =4' 5'
E 0.6 >.5" - 55.8 8 ,66.7 .7 455.18 #.6; 7,V.<],47#5>
71'<6E#1#6 '<' ; : '7.'4 >. # : 55, <%
W ' .67 '11 - .'0K.1<.'=4' 1.'>#?4706 >.' '46'<<.8 ?,41 0
?1.6.<7.1 4<.' 64??5 =4.' >'<6 5'=4.55.' 56 >. / '<>.<78
> '?106 5.416 ?1 - 5 E.68 >.'?,4 - , 1 & ' ' '641
5.41 7.11 7, .% <' >,47. =4 5 6 ,07 .<<.<78 =4, = .<
. .7 5V' 7 4<' '17 ;5.8 >'<6 5.' ; ,474 / .1 >4 ?'V6 >.' '4>8
=4 ' "5 7 =4 56 04J.1'<7 5.6 ;1 / .6 ; , / / 6 >'<6 5.41 - B.8
.@; .?70 5.6% ;1 / .6 > 5'7I / ' 6 ; .67 =4.' - , 50 5'> 5K'
$ 0

H # %

'8 ' ' ' ' j '1> ' 8 4< .'4 66 .18
<, / / 0 ' / .<8 6 <71,>4 6 7 >'<6 5.6 041.'4@ >.' '66. / '
0 >.' . . ;7,1'5.8 ?,41 V / .771.' 0 .@. ;47 ,< 4< >. ;1.7 >.'
?1 6.'>.' ; ,1?68 .< >'7.'>,'U ' , E78 ; ,<71.' % '<7,<8 .5.; '
7.41 >.'5" 6. ;7 ,< >4 0.' 1. H1'<; ' 68 .7 =4 ' .< 1. / ?5 6'
6' 7 '5,16 5.6 E,<; 7 ,<6% #.7 :4 66 .1 0.1 - 7 4<.'5.771.' '4
?1.6 >.<7 >.'1'66. / 050.8 ?,41 5.'?10 - .< 1 =4 5 07' 7 ?,1 '
7.41> ,< >0.1.7 ; .<71.' % '<7,<8 .554 >; / '<>.1 =4.55.'
.7' 7 5" / '1; : .' =4 5 >. - ' 7 6< - 1.% % 5.' ?1.6 >.<7 <.'
10?, <> 7 ?, <7 0 ; .77.'5.771.%
546 .416 05. ;7.416 1. ; ,<<41. ,7 % ' / .<8 .78 ,00.7>,'
6" / 66 ,< 05'<7 ; ,<<48 < 6.'6' 6 7 >.' 54 % '66. / 050.'
.5. ;7,1'7.' 6.' >0;5'1" ?.1 / '<.<7.8 .7 ,< ?1, .0>"046=4 0
>.4@ : .41.6 >4 / '7 < 0 <7.11,J'7, 1.'>.' % ' / .< .5
>.'6,< ;5.1; % '106457.'>.'5.416 10?,<6.6 =4.' <7.<5 ,<>.'
:4 66 .1 07' 7 >.'6 . / ?'1.1 >.' % '<7,< ?'17,47 ,0 '5.'
71,4 - .1' 5% % ' / .< >0;5'1" >.' ?546 =4.' 5.6 04J.6 >4
71 04<'5 >4 6 @ 0 / .' '11,<> 66. / .<78 >4=4.5 .67 0 / '<0 5.'
>0.1.78 ' - ' .<5 / '<>0 54<>'6, 18 .7 54 ' ' - ' .<7 1.?1, ;5 0
5" <7.41 =4 5 ' - ' 5 / 6.'>'<6 .@0;47 ,<' >.' ; .'>0.1.7%
?1.65 <7.11,J'7, 1.8 '66. / 050.' '1107"=4 5 6.1' 7 0.1 7
6771 5. ; : ' / ?'4 / < 1.'>.'5"0467 ; .8 ?,41 46514 1.'>; '
; .'=4 ' - .<' 7>.6.'?'66.18 .7 =4 5 6.1' 71.> J0 4<.' >1.66.'
0 66. / 050.' <'7 ,<'5.'?, ,1 54 ' >. / '<>.1 1.?'1'7 ,<
>.' ; .' ;1 / .'>0 06. 6,4 - .1' <.70I ; .'=4 ' E47 E' 70 ' '
65'<7%
+' '1>'6, 1 5.6 4 5.1 .6 E41.<7 1. / ?5 .6 > 4< J1'<>'
<, / 01.'>.' ; 7,V.<6I 5.6 / ' 6,<6 E41. / 5 554 / <0.6%
.' / .1;1.> 8 >.6 5.' / '7 <8 4<.'E,45.' <<, / 01'05.'1. / '
?5 66' 7 5.6 14.6 ?'1 5.6=4.55.6 5.'1, ' >. - ' 7 ?'66.1 ?,41 6.'
1.<>1.' 0 66. / 050.' <'7 ,<'5.I ' 6,15 7 >.6 4 5.1 .6 0
,<0.' ; .41.6 .7 >. / .I 44'>05' ; . . / .<7 >.'5" ; ' - '5.1 .'<' '
7 <<'5.' ,4 - 1 7 " / '1; : .I - .<' 7 % 'E'V.77.8 05"7.7.'
>.0 ,EE ; .16 >.' 07'7 / '0,1% #< >07' ; . . / .<7 >.6 0 '
7,<6 >.6 - .7.1'<6 .7 >.'0.<<.6 0 - .6 / 5 7' 1.6 .7' 7 ?10'
;0>.'>.6 7' / 0,416 .7>.'5" / 46 =4.'>.' J'1>.'<'7 ,<'5.%
.6 0 ;4V.168 5.6 ,EE ; .16 .7 5.6 ?'J.6 >.'5" / ' 6,< >4 1, '
?10.0>' .<75.6 - , 741.68 =4 '07' .<7 >.'5" ?546 J1'<>.'6 / '
?5 ; 7.I 4< >07' ; . . / .<7 >.' ; ' - '5.1 .' E.1 / ' 7 5" / '1; : .8
; - 07. / .<7 >4 1, ' 7' 7 4< ' : '0 7 05.4 01,>.% ' <' - ' 7
>%'471.' >. ; ,1'7 ,< =4.'5" ;1, @ >.' ' <7 ,4 6% .6 J'1M
>.6 <'5 ,<'5.6 0,1>' .<7 5" ?5' ; .' >4 # '11,46.58 5.6 14.6
'<7 ; ' 6.' .7 ' <7 B,<,108 ?'7 ,0 5.' ; ,150J.' " ?'660%
.'1, ' .67 .<710 ?'1'5" ?,17.'>.6 H.4 55'<76% <' "E' 5 ?54M
6 .416 >0; : '1J.6 > '17 55.1 .' '4 / , / .<7 >.'6,< '11 - 0.%
<' ;1,V' 7 =4.'5.'1, ' 1.7,41<.1' 5 '4@ 4 5.1 .6 ?'1 "
/ 0 / .'1,47.I / ' 6 5 .67 1.<710 '1 5.' 0'1> <% ,47.'5"
0,41<0.' 5 V '' .4 J1'<>.' ' 54.<; .' '4@ 4 5.1 .6% .1, ' .7
6"E' / 5 .'6.'6.<7 / ,<71.6 0 ?546 .416 1.?1 6.68 .7 ,<7 070
'??5'4> 6% .' 6,71 5 V '' .4 554 / <'7 ,< >'<68 7,47.'5"
- 55.% ,47 6 .67 ?'660 >'<6 5.'?546 J1'<>' ,1>1.%

$ "' '

@ ' ' & ' ' ' ' ' '
' ' (*G%

41 5.' - '??,77 >.6 '> / < 6 1'7. ,16 '< >0?'17. / . '7 >,'
?,5 ; .8 5.' ; ,1 ' / 4< ; 5% '?106 ' - , 1 .<7.<>4 5.'?1. / .1
64067 47 '>0, <7 >4 ? / .41.41 >.'5" ; , / / 4<.8 ''11070N
G =4.' 07'7 >.'6 74'7 ,< >.6 / 'J'6 <6 0 ?,4>1.'>.' '1 6
.7 K66,<.8 '<' G' 7. / 01.' (* 8 6. - ' 7 / ? / .8 'EE ;:0
.7.< - ,V0'4@ ; , / 706 >.6 =4'1'<7. :4 7 6. ;7 ,<6I JH =4.'
5.6 ; 7,V.<6 6.1' .?7 <E,1 / 06 =4.' 5.' / 'J'6 < >.' '1 6"
070 - 01 E 0 ?'1 4< ,EE . .1 / <4 ; ?'5 ' .7 =4 0 0J'1> >,

' =" P ' BX' , " "

' ' f 7'<5': .1';0.G'5.'1, 8'-.;'S.6
'471.6 / ? / 01.6 >.'5" >.?47'7 ,<'=4 '5.'1.;,<>4 6 7
'4';:>7.'48 %5.'J'1>.'>4'6;.'4'/.'1./ 7' '.<'/'"
=4'5 7.G>.'6.;1.7' 1.8 .@?.>7 ,<'>. ';7.';,?67 74'
7 ,<<.58 1.- 74'>.'5" 6 J<'741.'>4'1, 8 .'1.7,41'
>'<6';.77.' 6'55.8 Q.'E46 E,17 641?1 6'>.'71,4-.1'5"
6.'<;.'5.1>.I'Q.'7./ , J<' ' / ,<' <=4 .74>.'2'?54'
6 .416 / . / 01.6 >.'> EE.1.<76 ; , / 7>68 .7 Q.'5.41'
>. / '<>' ',E'Q.'?,411' 6'>>?,6.1' ';7.';,<67 747 ,<'
<.5% ' /.'E7 7 1.?,<>4'=4.'Q.'>.-' 6'5.J'1>.1'Q46'
=4 " 5" ?1. / E.1.'6.'<;.8 .7 =4.'Q .<'>7' 61.6?,<'
6'05.% .'5.41''6641''=4 ,<'<.' / .< .-.1' 7;.'>.?>7
=4 '-.;'5" - .8 466'Q.'<.'5.'=4 77' '?'6IQ.'5.'?5';''
5.'Q,41';,<71.' / ,<'6. 4I .7 5" <4 7 >'<6 / ,<'5 7%%%
.'?4 6'>.;5'1.1'=4.'Q' / ' 6 71.6,1'< " .7.' / .4@
J'1'>'?'1' 4<'6.4 ' : , / / .% ' / .'6'<6'>,47.'0 .<'
';7.';,<67 747 ,<<.5I / ' 68=4.5=4.'E,17.'=4.'6, 5
'EE.;7 ,4'>4<' : , / / .8 ; .67 4<.' / 66 ,<'>.5;'7.'
=4.';.55.'>.71.'4<'>.?,6 7' 1.' ' .';,<'
; 46' " / " >>;:'1J.%

66.1'05. .',1>,<<.' " % '1<'4>'7 >.'>.?,6.1'
.@?.>7 ,<'1,V' .'>.' ';7.';,<67 747 ,<<.5'4@''1M
;: -.6%

8 ! ,4 % N -'<7 =4.' 66./05>>'<'7 ,<'5.'
?'66.'" ,1>1.'>4'Q,418 Q.'5" ?1 .'>.'E @.1'6,<'77.<M
7 ,<'64.'5" <>..66 7.'>.'>,1 / .1' " 5" ?1,;5' / '7 ,<'>.'
5" ;,<67 747 ,<'7?47.'5" 6, .<< 7>8 7,47 '??'1.5
=4 .@ J.'4<' ';7.'>.';.77.' / ?,17'<;.% .'>./ '<>.'
=4 .55.';:'1J.'6,<' ;./ 7.'>.';,<67 747 ,<'>.'54'
?1.6.<7.1'>.6 -4.6 641';.7 ,0Q.7%

A- '), & 3'
,16=4 4<'71' 7.'>.'?' @'>7' 7 6 J<>8 5 >7' 7 ?1, '
;5' / .'>'<6'5" .'? 7'5.'?'1'>.6 : / 476'>'1 / .6'Q .7G'
>'<6'7,47.6 .]'- 55.6 >4'1,V'4 / .'?'1'>.6,E!; .16
/ 4<;?'4@% 'E'47=4.' ';7.';,<67 747 ,<<.58=4'
E,1 / .''4Q,41>:4'4<.''55'<;.'<,4-.55.'.<71.7,46
5.6 H1'<;' 6.7 5.41';:.E8 6, 7 ?405 ;'-.;'7,47.'5"
6,5.<< 7>'?,66 05.% 66./05. .'<'7 ,<'5.''" > #11 7.'
=4 5 V' ' 1' 7 >.6 E>7.6?405 =4.6 ?,41; 5.01.1' >'
?,=4.'>.'5' .-,547 ,<% .'>./ '<>.8 ' #,<6.M
=4.<;.8=4.'> / '<;:.'?1,;:' <8 " '1 68 .78 >'<6
7,47.6 5.6 '471.6 #, / / 4<.6 >4'1,V'4 / .%5.'>1''<'
;:.'=4' 64 -1" 5" 1.;.?7 ,<'>.'5" ;,<67 747 ,<.<'
-,V..'?'1'5.'1, 8 ';7.';,<67 747 ,<<.5 6, 7 6,5.<'
<.55./ .<7 ?1,;5' / .I =4 4<' < ' ' 6, 7 ;:'<7>
.<' ';7 ,<6'>.'J1 ..68 .7 =4.'5.6 / 4<;?'5 7.6,1'
>,<<.<7 7.55.6 E.7.6 =4 .5 .6Q4J.1,<7;,<-.<'0Q.6%

' 1 ' N 'Q,47.'=4 5 .67 <.;.66'1.'=4.'
;.77.'?1,;5' / '7 ,<'6, 7 '466' 0 .<7 7 ;,<<4.'>.6
?4 66'<;.6 .71'<J.1.6%

' ' N #:.07,46 5.6 ?.4?5.6 ,<'< "Q' / ' 6
/ '<=4.'>.'>,<<.1''4@E 5.6 ?405 =4.6 5.'J1'<>' <'
7.157 >.6 ';7.6 >.'0 .<E' 6'<;.' .7 >:4 / '< 7>I "
'1 68 ?'1' .@./ ?5.8 ,<'>.5 -1' 7 >.6 ?1 6,<< .16
>.7.<46 ?,41' / , 6 >.'<,411 ;.% .'>./ '<>..<';,<M
6.=4.<;.'=4.'5" ?1,;5' / '7 ,<'=4 '-"5 1.'E' 7.'>M
/ '<;:.'?1,;:' <' " '1 6 6, 76,5.<< 65.'?'1'5" >.5 '
-1'<;.'>.';.6 ?1 6,<< .168=4 '6.1" E' 7.''4@E1' 6 >4'
71.6,1'?405 ;% $

' # 'I .'71,4-.'71.6 .@71',1>?' 1.=4.'
,<'-.4 55.'0,1<.1' ;.77.'E'-.<1'2'5" .'? 7'5.% .'
>./ '<>.'=4 .55.'6, 7;7.<>4.'"7,47.6 5.6 ;, / / 4<.6
>4'1,V'4 / .8 / ' 6 =4.'5.6 E1' 6 =4 .55.',;;'6 ,<<.1"
6, .<7 4<.'>.?.<6.' / 4<;?'5.% & <'??5'<> 7%P

% ' ' N .;1, 6=4.';.7 ';7.>.'0 .<E' '
6'<;.'>, 7 -.1 7'05. / .<7 5 1.'.@.1;.'?'1'5" <'7 ,<'
E5 5. / / .I ; .67 '4@';, / 7.6 >.6 E <'<;.6 .7>'66 6'
d%<;.'?405 =4.'"<,46?1,?,6.1'5.6 / ,V.<6>V'E' 1.'
?'17 ; ?.1'7,47.6 5.6 ;, / / 4<.6 >4' ,V'4 / .%

% K ! EN .'V .<6'>.'154< 1'7,47.6 5.6 ?1,M

?,6 7 ,<6=4 ' ,<7 57>'E' 7.6 >'<6 ' 1>>';7 ,<'6<
-'<7.N % %

W 66./05>.'<'7 ,<'5.'>>;1 .'=4.'6.6;, / / 66'1.6
?,41'?,17.1'5.6 >#;1;7."5" 6'<;7 ,<'6.1.7 1.1,<7?'1 >.-.16
5.'1, 8 ?,41' ?1 .7 " 'Q.67# >.'>,<<.1'>.6 ,1>1.6 ?,41'
=4.8 > / '<.0.'?1,;:' <8 >'<6 5" .'? 7'5.8 5" ;,<67 747 ,<'
6, 7 6,5.<<.55./ .<7 ?1,;5'7<>.'?'1 .6 ,E ; .16 / 4<;?'4@8
.7 =4 5 6, 7 E' 7 >.6 1#Q,4 66'4;.6 ?405 =4.6 ?,41' ;#5 1.1'
6,<:.41.4@';:.-. / .<7%

$ 7 =4.'5" / # / .'?405 ;'7 ,<'6.5.<<.55.'.7'5.6 / # / .6
1#Q.4 66'<;.6 ' . 75 .4'>'<6 7,46 5.6 ;5 .E6 5 .47 >.'>#?'1'
7. / .<78 5.'> / '<;:.'=4'64 -1" 5.'Q,41',>'5" ;,<67 747 ,<'
6.1" ?'1-.<4.', K; .55./ .<7 '4@'>/ <671'7 ,<6>.'>#?'1'
7. / .<76I .7>'<6 5.6 '471.6 / 4<;?'5 5>68 5.'Q,41'=4E 6.1"
E @.'?'1' 4<'11#7.'>4'>1.;7, 1.>4'>.?'17. / .<7%

W 66./05#.'>..1 7.'=4.'5.6 ?1 6,<< .16 >.7.<46 ?,41'
>.77.6 >.' / , 6 >.'<,411 ;.%6.1,<7 / 6 .<'5 0.17.8 .7 =4.'5"
>.57.'?,41'5'=4.55.' 76 #5' .<7 >.7.<46 6.1" ';=4 77..'>.6
%E,<>6 >4 71.6,1' ?405 ;%

.<-, .''4@;, / 7.6 >.6E<'<;.6 .7>.' /;<>; .8 ?,41'
?1.6.<7.1' ' 66./0..'4<'?1,Q.7 ?,41'E' 1.'?'15 ; ?.1'5.6
&5.?'15. / .47" ';.7 ';7.'>.'0 .<E' 6'<;.%Y

#.'?1,Q.7 >.'>. .1.7 .67 '>,?7.%

% ' '-'?1 .' 66./055.'>.'E @.18 '-'<7
>.'6.'6>?'1.18 6,<'77.<7 ,<'641'5.'6,17 >4'1.J / .<7
;,<<4'6,46 5.' <, / ' >.' J'1>.6 64 66.68 =4 8 '4'
/ ,V.<'>.'5"<,4-.55.' J'1>.' ;,<67 547 ,<<.55. / .<7
>,<<..''4'1, 8 -"6.'71,4-.1'6'<6 . / ?5, IQ.'5" ?1 .'
>.';,<6 > 1.1';, / 0 .<';.';,1?6I ;, / ?,6.'>.'>.4@
< 55.' 6 @';.<76 :, / / .68 / .1 5.'> .J'1>6 ?'1'5.6
6.1- ;.6 =4 5 " 1.<>J6 ?.<>'<7 5" 1.-,547 ,<8 .'
?'1'6,< <- ,5'05.''77';:. / .<7 " 5" >6; ?5 <.' / 5 '
7' 1.% ' .67 >'47'<7 ?546 .66.<7 .5 >.'6 .< ,;;4?.'
?1, / ?7. / .<7 =4.'5.6 ;'? 745'7 ,<6 >.'5" H1'<;'
K-.;5.6 #'<7,<68 ?,4E 5.6 ,<0.'1.J / .<76 =4 .55'
7 .<5 " 6,<'6.1- ;.8 6,<7 .@?1..6 >.?4 6 ())'8 .'
=4 5 .67 / ?,17'<7 >.'5.6 1.<,4-.5.1I .7 ;,1' / .'
?'1'5" ;,<67 747 ,<8 7,47 ;.'=4 ';,<;.1<.'5.6 71' 7.6
'-.;'5.6 ?4 66'<;.6 .51'<JE.1.6 >, 7 5 1.'?1,?,6'?'
5.'1, '8 Q.'?1 .' 6./0E.'>.'1.<>1.'5.'>.;1.764'
-'<7N

' 66./05#.'<'7 ,<'5.'> .1 .'=4.'5.'1, '6.1"?1 #&
>,<<#1'>.6 ,1>1.6 '4 / <671.'>.'5" J4.11.'?,41'=4
?1#6.<7. <;.66' / / .<7' 66./0 #.8 >.';,<;.17'-.;5;<
<651.'>.6 'EE'1.6 #71'<J01.68 .7 > '?106 >.6 ;,<-.<7 ,'
<,4-.55.6 '-.;' H 7'7 >.' 4 66.8 4<' 10J5. / .<7 641'5.'
>.-'<7 1#J / .<7 >.6 J'1>.6 64 66.6 .7 '471.6 10J / .<76
;.77.'<'7 ,<I .7 ?1,- 6, 1. / .<7 E 66./050.8 ;,<6 >#1"
=4.'5.'10J / .<7 >.6 ; >.-'<7 J'1>.6 64 66.66 .67 ;, / ?,'
>.'5" / ' 01.'5" ?546 6'7 6E' 6'<7.8 .7 "0 .< / #17.'>.'
<'7 ,<'?'1'6" ;,<>4 768 >>.107.' =4 5 6.1" .<71.7.<4'6
'<; .<'? .>'Q46=4 5';.'=4 5 ' 7 9 967'549' '471. / .<7%

#.'?1,Q.7 >.'> ;1.7 .67 '>,?7.%

% N .6'> / < 671'7 ,<6 .7 / 4<;?'5
5.6 >4'>.?'17. / .<7 >.'5" '<;:.'6,55 ; 7.<7'-.;''
67'<;.'4<.'5, '=4' / .77.'5.6 ?1571.6 '66.1 / .<7.6
'01'>.6 ?.16.;47 ,<6=4.'5.41'646; 7.<7 5.6 ?1571'
1.E1';7' 1.6% 546 .416'>.6 E, ;7 ,<<' 1.6 .;;5.6''
7 =4.6 ,<7 75' / .<';.68 .7 ,<EG 6=45'>571.''66'66
< 6% .';, / 7.'.;;556 '67 =4.'-, Q6 '-' 5 ?1.6.<7.'
?1,Q.7 > 4<.'5, '1.?1.66 -.IQ.'>. / '<>.'=4.';.77.''
6, 7 <;.66' / / .<7 1.?1.6.<7..%

546 .416 / . / 01.6 '??4 .<7 5" / ,7 ,<>.' % .'
5'1>%8

E ' N ,<6 >.-,<6 ;1, 1.'=4.'>5 6,'
/ ' 6 E;.4@=4 ',<7 E' 7Q,4.1'5.6 1.66,176 >.' <71 J '
;,<1.' 4<.';,<67 747 ,<'<' 66'<7.'6.<7 1,<7 <47
5 7 '>.'5.7716 .EE,176 ;,<71.'4<.';,<67 747 ,<'5 .1 /'
.7 6'<;7 ,<< .'?'1' ,?< ,<'J.<.1'5.% '.@ 67.'>''
5.416 > Q" >.6 5, 6 ?.<'5.6 ;,<71.'5.6 ?.1740'7.4'
>.' ,1>E.'?405 ;% ! '1>,<6%<,46 >.'E' 1.'>.6 5, 6 ='
E'66.<7 ;1, 1.'=4.'5" 1 -,545 ,<'< .67 ?'6 E < .8 '
=4 5 E'47 .<;,1.'5.6 / ,V.<6>.'5" - ,5.<;.% .'E' / '
7 6 / .'<.'6 .7. <7 ?'6 ?'1'5.6 -, .6 1 J,41.<6.6I _
=4 '5.'>.714 7 ; 5''&! '; .67 ! ''>4 67<

7 ,<'6'J.'.%7?1,7.;71 ;.% # .67 '<,6' /S<5671'5.4 68
; .67 " <,6'Q4J.6=4.'<,46>.-,<6;,<E .1'5.6, <'>>'
7. <>1.'5.'E'<'7 6 / .% # .67 '4'?,4-, 1.@>;47 E" . / M
?5,V.1'5.' ?,4-, 1' =4.'5" ;,<67 747 ,< 54 ' >.EE.1.8
?,41' 1.?1 / .1' 5.6' / ,4 . / .<76 =4 ' 6.' / '< E.67.<7
>'<6=4.5=4.6'?'17 .6'>4' 1,V'4 / .I .5Q.'6,55 ; 7.'5"
6'J.66.'.7 :4 / '< 7.'>.' 66. / 05..'>.'<.'?'6'1.<'
> W 4<.'5,5'?546'6.-.1.'=4.'5.' ;,>.'?.<'5 =4 .55. "
.55. / E / .' 7'05 % & <'??5'4> 7%P

''( ) (.(*0 $(+' ,$ *'-(' $($ +.-'+'
(*,'-(+'.(0$'$ *'- '3 -(4(*+

+' 41' 5.'1'??,17 >.' % 1,<;:.78 5.'>>;1.7 64 '
-'<7 .67 1.<>4N

+ ' ' 1.%

'! ' ' ' (' '4
3(1

d 17%5.1% 5' 6.1" 5 01.8 6, 5' '4' ?1.<.418 ?,66.6
6.41' ';74.5>4' E,<>6 " 5 71.' >.'0' 5' . / ?:V7. ,7 =4.'
,< "1.<7.'<,<'?.1?>74.55.8 6, 7 '4'0' 55.41' ?1,?1 >'
7' 1.'>.% 5" 1.<7.'.7 'V'<7 >1, 7 "5" ?1,?1 >7>'1.-.1M
6 05.8 >.'1';:.7.1'5.6'>1, 76'; >.-'<7 6. J<.41 '4@8
E @.6',4';'64.568 >,<7 5.> 7 E,<>6'6.71,4-.1";:'1J.8
.7 >,<7 5.6> 76' 0' 55.41' .7 ?1.<.41'6,<7 1.6?.;7 -.'
/ .<7 7.<468%.<'6.';,<E,1 / '<7 ?'1';:';4<'> .4@'4@
1.J .6'; '?1E.6%

$ B% .'?1.<.418 ?,66.66.41' ';74.5'>4' E,<>68 =4'
-,4>1" <.'1';:.7.1' =4.'5.6' >1, 76'>,<7 5' ?.47 >71.'
7.<4' ?.<>'<7 6"Q,4 66'<;.8 6.1" 7.<4' >.'E' 1.'5.'1''
;:'7 >.6'>1, 76'E @.6'.7 '<<4.568 .4' . J'1>' " 5.41' -'1'
5.41' 7,7'5.'.7 ?.1?>74.55.8 > '?1.6'5.' / ,>.'.75.67'4@
?1.6;1 76' ?'1' 5.'>. ;1;7 >4' ' / '' (* I .7' ' / ,V.<
>4> 7 1';<'78 5' >. / .41.1" 6401,J.'4'>1, 7 >4'; '
>.-'<7 6. J<.418 =4'<7 "c"?1,?1 .7V >.'5'> 7.'1.<7.'
6.45. / .<78 >,<7 7 ?,411" 6.'E' 1.'?'V.18 '?1.6' .@'
? 1'7 ,<'>40' 58 ?'1'5.'0' 55.41'=<'6.1'1.<71.'>'<6
6,<E,<>68 6' / .4@'<' / .Y;.54 ;'1. / 0,416.1''4'
?1. / .1'5"6, / / .' =4 '54 ' '41" >7 '?'V..'?,41' 5.> 7
1';:'7%

'34'<7 '4@'>1, 76'; '64.568 >,<7 5.'?1.<.41'?.<7
>71.7.<4'?.<>'<7 6"Q,4 66'<;.8 ?,41' .<5 =4 >.1'5.'
1';:'7N \ 7 6.1" E' 7 4<.'>-'54'7 ,<'>4'?1 @'4=4.5'
5.' 0<>6 ?,411' 7 >71.'-.<>48 >>>4;7 ,< E' 7.'>.'5"
1.<7.',4';'<,<' . / ?:V7>,7 =4.8 .4.J'1>''4'<, / 01.'
>.6''<<>.6'>.'Q,4 66'<;.'= / '1.67.1,<7 ";,41 1I CD5.'
81';:'7 >.6> 76'>1, 76';'64.56'6.1" .<64 7.'E @.'> '?1.6'
5.> 7 ;'? 7'58 ;,<E,1 / > / .<7 '4' / ,>.' .7 '4@'7'4@
?1.6;1 76'?'15.'>. ;1.7 >4' ' / ' ' (* I D'4' / ,V.<
>4> 7 1';:'78 5.'; >.-'<7 6. J<.418 ?.<>'<7 5">4'
1..'>4' 0' 58 <.'?,411" ?546'Q,4 1'>.6'>1, 76';'64.56'
=4.'- 6 ' - 6'>4' 0' 55.418 .78 .<';'6'>.'-.<7.,4''4M
71.' / 47'7 ,<8 >.'5" 1.<7.'.7 >4' >1, 7 ' 5" ?1,?1 .5>'
1.-.16 05.8 >'<6'5.6'?'V6' .7 5.6';'6',4'5'> 7. -.<7.'.7
5.6> 5.6' / 47'7 ,<6' >,<<.<7 ,4-.1741.' '4<'>1, 7I
UD '?1E.6' .@? 1'7 ,<'>4'0' 58 5.?1,?1 .7' 1.'=4 '6.1"
1.<7@ .'>'<6'6,<E,<>6' >. / .41.1";:'1J>'>.'5" 7,7''
5 7.'>.6'>1, 76';'64.568;<';'6'>.' / 47'7 ,<8 Q46=4 '4'
1';:'7 > ;.4@%

$ % .'?1.<.41'' ?,66.66.41' ';74.5' >4' E,<>68
?,411"<. '< / , <68 6 5' 5.'Q4J.' " ?1,?,68 1';:.7.1'
5.6'>1, 76';'64.568 .4' .J'1>' '5.41' -'5.41' .<7 1.' .7
?.1?.74.55.I '4=4.5';'6' 5' 6.1" 7.<4' >.'5.6'1';:.7.1'
641'5.'? .>'>.'5" -'5.41'7,7'5.'>7EE,<>68 6'<6'>.>EE5;'
7 ,<'>.'5" 1.<7.' '<<4.55.'?,17..''4'0' 5' . / ?:V7a,'
7 =4.8 ,4'>.'5" 1. :7.' <,<'?.1?. 74.55.% 4> 7 ;'68 5.'
?1.<.41'6.1" .7 >. / .41.1" 6401,J.'4@'>1, 76'>4'; '
>.-'<7 6. J<.418 ?,41' .@.1;.1'5.6> 76'>1, 76 ;'64.56'
;,<71.5.'0' 55.4186'-, 1'N ?.<>'<7 5" >41>.>40' 58
.<';'6'>.'-.<7.',4' / 47'7 ,<'>.'5" 1.<7.8 >'<6'5.6'
?'V6' .7 5.6';'6'>'<6'5.6=4.56;.77.'-.<7.',4' / 47'7 ,<'
>,1 <.' ,4-.1741.''4@> 76'>1, 768 .7 '?1.6' .@? 1''
7 ,<'>4'0' 58 .<';'6'>.'-.<7.',4' / 47'7 ,<'>4'E,<>68
' '-' ' ' '9 ' A

5 .16 ' .7 ;.'Q<6=4 '4'1';:'7=4.'5.'0' 55.41'.<?, 11"
E' 1.8 ' <6 ' =4 5' 6.1" > 7; '?1.6%

W 8 '5.'0' 55.418 ?1,?1 .7' 1.'>.'5" 1.<7.'.7 > '
>1, 7 >.'5" ?1,?1 >7>' 1.-.16 05.8 6.'?1.6.<7.''4' 1'M
;:'7 '-'<7 =4.'5.'?1.<.41' ' 7 E' 55.6'1';:'76'=4 '54'
6,1 7 ?.1 / 6'?'1' 5.6' '17 ;5.6' ' .7 55'; >.66468 5.'
0' '5.41'6.1" 7.<4'>.'1';:.7.1'7'1775.6'>1, '76'E @.6'=4.'
5.6'>1, 76';'64.56'.<7,7'5 7.8 .7 >.'5" / > / .' / '< .1.'
=4.'6 5' .7' 7 1.<71.'>'<6'5"?5. <.'?1,?1 .7.8 ;,<E,1'
/ . / .<7 '4' / ,>.' .7 '4@'7'4@'?1.6;1 76'?'1'5.'>.;1.7
>4' ' / ' ' (* ' I .7 .<';.'E' 6'<' 5' 6.1" 6401,J.''4'
>1, 7 >4'; >.-'<7 6. J<.418 6, 7 =4'<7 '4@'>1, 76'
E @.68 6, 7 =4'<7 '4@'>1, 76'%;'64.568 ?,41'5.6' .@.1M
;.1';.<71.'5.'?1.<.418 ?.<>'<7 5" >41;.'>4' 0' 5' 6.4M
5. / .<78 >'<6'5.6'1'> / .6';'6' .7 >.'5" / '< .1.'=4.'5.'
; >.-'<7 6. J<.7 1''41' 7 ?4' E.6'.@.1;.1';,?71.'5.> 7
?1.<.41%

$ '<6'5.6';,454 / .6'>.'K.11V .7 K,4 0,<<' 68 ,4'
'471.66. / 05'05.68 >'<65.6=4.55.6'5.'>,4' 1.';,474 '
/ .1' < "5 .4' =4.' 641' 5.6' / / .405.6' =4.' 5.' / '1'
5' 66.' '4' Q,41' >.'6,<'>.;.68 . / ?5,' ?1.6;1 7 ?'1'
'17 ;5.' DI <'41" 5 .4' =4 " .J'1>'>4'>,4' 1.';,<'
-.<7 ,<<.58 .7 5,16=4.' 'E5.;5'5 ,<'>.' ;.' >,4' 1.'
< '41" ?, <7 .7;'1.671. <7.' '4@' 0 .<6' =4.'5.' / '1'
'41" '4'Q,41'>.'6,<'>. ;.6%

$ '<6'7,46'5.6';?6' ,:'5.'1. / ?5,' ' ' '1'M
;:'7 >.6'>1, 76'; >.-'<7 6. J<.41 '4@' ,4'>.6'1.<7.6'
E,<; .1.6' .67?1.6;1 78 6, 7 ?'1'5.'?1.6.<7 >.;1.78 6, 5'
?'1' 5.6' >>;1.76'>.6' ' / ' ' .7)'>.;. / 01.' (* 8 .7
' '-1 5' (* 8 5.'1?>.-'05.'=4 '<.'-,4>1" ?, <7 >.'
/ .41.1'J1.->'>4' 1. / ?5,' ?,411" ;,<6 J<.1'5.6'>.'
< .16' ?'1' 54 ' ,EE.176' 6'<6' '47,1 6'7 ,<'>.'Q467 ;.I'
/ ' 6%4' <.' ?,411" E' 1.' ;.77.' ;,<6 J<'7 ,< =4 4<
= , 6' '?1.6'5" >'7.'>.]' ,EE1.68 .7 >'<6'5.';'6' ,:' 5'<.'
54 ' '41' 7 ?, <7 >7.Q467 5 .'> 4<Q4J. / .<7 <,<7.<'<7
1.?,<<' 66'<;.'> 44'. / ?5,' ';;.?7>'?'1'5.;, / / 6'
6' 1.><1, 8

W % '5.'0' 55.418 ?1,?1 .7' 1.'>.'5" 1.<7.'.7 >4'
>1, 7 >.'?1,?1 .7V 1.-.16 05.8 <.' 6.'?1. 6.<7.''4'1'M
;:'7 =4 '?1.6' =4.'5.'?1.<.41''41" 54 / / .'46.'>.'
5" E';457>'=4 '54 ' .67 ';;,1>..'?'1' '17 ;5.' '; >;6'
64668 '4> 7 ;'6'5.'0' 55.41'<.'6.1" 7.<4'>.'1';:.7.1'>4'
; >.-'<7 6. J<.41' =4.' 5.6' >1, 76';'64.56I .7 641'
.67 / '7 ,< =4 ' .<'6.1" E' 7.8 ;,<E,1 / .<7.<7 ' '1M
7 ;5.' '; >.66468 5' 54 ' 6.1" E' 7 >.>4;7 ,< >.'5"
6, / / .'=4 '54 ' '41" >7.'?'V. .'?'1'5.'?1.<.41'?,41'
5.'1';:'7 >.6> 76'>1, 76';'64.568 1.5'7 E" 5">41..'>.'
6"Q,4 66'<;.8

W ' . J'1>'>.6'>1 56'E @.6' .7 '<<4.56'=4 ' '41,<7
.7.1';:.7. 6'?'1'5.'?1.<.41' '<@'7.1 / .6'>.' '17 ;5.55'
; >.66468 5.'0' 55.418 '?1 6' .@? 1'7 ,<'>4'0' 58 .7
5,16=4 5' 6.1" 1.<71>'>'<6'6"?1,?15.7>8 6.1" 7.<4'> .<
;,<7 <4.1' 5" ?1.67'7 ,< '4> 7 ?1.<.418 6' / 7.4@' 5'
< ' 1' .'1. / 0,46.1'5" 6, / / .'=4 ' '41" 7.'?'V>.'?'1'
5.'?1.<.41'?,41'5.'1';:'7 >.6> 76'>1, 76'E @.6' .7 '<M
<4.56'6.45. / .<7%

W % '5.'0' 55.418 ?1,?1 >7' 1.'>.'5" 1.<7.'.7 >4'
>1, 7 >.'?1,?1 .7>' 1.-.16 05.8 6.'?1.6.<7.''4' 1';:'7
'?1 6' =4.' 5.' ?1.<.41' '41" 1';:.7>' ' 7,7'5 7>'>.6'
>1, 76'E @.6' .7 ;'64.568 .<'-.174'>.'5"E';455.'=4 '54'
.<W.67 ';;,1>..'?'1' 'E7 >.' '; >.66468 '4> 7 ;'6'
5.' 0' 55.41' 6.1" 7.<4' >.'1. / 0,416.1''4'?1.<.41'5"
6, / / .' =4 ' '41" >7>' ?'1' 54 ' ?'V..'?,41'5.'1';:'7
>.6' >1, 76' ;'64.568 ' 5" >>>4;7 ,< >.' ;.55.'=4 ' 6.'
71,4- 1">71. '5";:'1J.'>4'?1.<.418;,<E,1 / > / . 7
';.'=4 ' .67 ?1.6;1 7 ?'1' '17 ;5.' '; >.6646I .7
'?1 6' .@? 1'7 ,<'>4' 0' 5%5.'0' 55.41'6.1" 7.<4' >.'
;,<7 <4.1' '4' ?1.<.41'5" ?1.67'7 ,<'>.6'1.>.-'<;;6'
E @.6' '<<4.55.6' =4.';.54 ;''41" 1. / 0,416>.68 6'
/ .4@' 5'<' / .'5,16'1. / 0,416.1'5"6, / / .'=4 ' '41"
>7>' ?'V>.'?'1' 5.' ?1.<.41' ?,41' 5.' 1';:'7'>.6> 76'
>1, 76%

.' ' $ ('4.(*(./ 4 ''(''(.'+3, (' '

<.'6.'?1.6.<7.' '<'1';:'7'=4 '?1.6' =4.'5.'0' 55.41' '41''1';:.7 '7,<6'5.6'>1, 76'7 @.6' .7';'64.568' .<'-.174' >.'5''E';457>'=4 '54 ' .<' .67 ';;,1>..'?'1' '17 ;5.5 ' ; >;664]8' '4> 7' ;'6' 5.' ?1.<.41' <.'6.1'' 7.<4' 1./0,416.1' '4'0' 55.41'=4.'5.6'>1, 76';'64.568'>,<7' 7' .67 ?.16,<<.55./.<7' 7.<4' ?.<>'<7' 5'' >41..%'>4' 0' 5I' .7' 1.-'54'7 ,<' >.6> 76'>1, 76' 6.'E.1'' ;,< ,1' < ./.<7' ';.'=4 '.67' ?1.6;1 7?'1'5'' 6.;,<>.'?'17 .'>.' 1'17 ;5.' '; >.6646%

$' '1.J'1>'>.6'>1, 76'E @.6' '<<4.56'=4 ''41,<7'.7.' 1';0.7.6'?'1'5.'0' 55.418'5.' / ,<7'<7' '<<4.5' .<'6.1'' 'Q,47.' '' 5'' 1.<7.'?,17..''4'0' 5' ./?:V7.,7 =4.' ,4' '' 1.<7.8'?,41' 71.'?'V.'?'1'5.'?1.<.41''4'0' 55.418'.<' 646'>.'5'> 7.'1.<7.8'?.<>'<7'5''>41..'>.'6,<'0' 5%

W' %' ,16=4.'5.'?1.<.41'6.'71,4-.1''6401,J.' '4'>1, 7'>4'; >.-'<7'6. J<.418'=4'<7''4@1.>.-'4' ;.1'E @.6' .7' '<<4.55.6'6.4 ./.<78' '4@'7.11'.6' .7'>'<6' 5.6';'6'?1.V46'?'1'5.6''17 ;5.6' '.7' '; >.66468'5.6' > 7.6' 1.>.-'<;.6' <.' ?,411,<7' ./?,17.1' '7 ; <6' >1, 76';'64.568' .7'<.'E,1/ .1,<7' =4 4<.'6 /?5.'1.<7.' E,<; .1.8'1';:.7'05.'' <6' =4 5' .67'> 7' '4@' '17 ;5.6' ' ;7 5%

$' ''%' .'?1.<.41' =4' '41'' 1./0,416>'5'' 7,7'5 7.' >.6'>1, 76'; >.-'<76. J<.41 '4@8' 7'<7'E @.6' =4.';'M 64.56'8' .<'-.174'>.'5''7';457>'=4 '54 ' .67 ';;,1>>.'?'1' '0 ' 8' 6.1'' 7.<4'>.'5.' >.<,<;.1''4'0' 55.418'.7' 1.; ?1,=4./.<7' 5.' 0' 55.41' 6.1'' 7.<4' >.' E' 1.' 5'' />/.'>.<,<; '7 ,<''<'?1.<.418' 5,16=4 5' '41''1./ ' 0,416.'5'' 7,7'5 7.'>.6> 76'>1, 76' .<'.@.;47 ,<'>.' '1' 7 ;5.' 8' '' ?. <.'>.6' >, / / 'J.6' .7' <7.1>768' 6 5'V '' 5 .4%

\+ ' %

'! '! ' ' ' '4' ' 'F ' A'
3 1 ' ' ' ' ' ' ' A'
'>4' '9 ' ' ' ' ' #
& ' ' ' ' ' ' ! ' ' '
' ' ' &

W' 17%'5G1%' ,16=4.'5.6'; >.-'<7'0><>E ; .168%;,1?6' ,4';,/ /4<'47.6'.;;5>6 '67 =4.6,4'5' =4.68'>,<7'5.6' 0 .<6' .7'5.6'>1, 76',<7'>7.>. ;5'1.6' <'7 ,<'4@8' '4M 1,<7'>7.'>,<<.6' .<'7, ,7' ,4' .<'?'17 .' '' >;6'?'17 ;4 ' 5 .168' '' 7 71.'>.' 0' 5' ./?:V7.,7 =4.' ,4' >.' 0' 5' '' 1.<7.'<,< .1?>74.55.8'5.'?'V./.<7'>.6'>1, 76'; >.M -'<7'6. J<.41 '4@8'E @.6' ,4';'64.568' .7'5.'1';:'7'>.6' >1, 76'6.1,<7E' 76> '?1.6'5.6'1.J .6' .7'5.6'> 67 <;7 ,<6' ; '?1.6%

W' %' '5.6> 76'E,<>6' 1.5.-' .<7' > 4<' ; >.-'<7' E .E'?'71 /,<'5' .7' <,<>. ;5'1.<'7 ,<'58' .7'6' <1' >./<7 ' .<''-'5' .7.'?'V.''4'; >.V'<7'6. J<.418' ,4' .7' 7' ?1.6;1 7.8 5.'?1.<.41'?,66.66.41'';E4.5'>4' E,<>6'>./.41.1''6.45' ;:'1J.8'?.<>'<7'5'' >41..'>.' 6,<'0' 58' >4' ?'V./.<7'>.6' 1.>.-'<;.6'E @.6' .7' '<M <4.55.6'8' '<6' =4.'>.6' >1, 76';'64.56' >,<7' 5' ?.<7' >71.'7.<4'>'<6'5.6' ?'V6'.7'5.6';'6' ,>'5.6' /47'7 ,<6' >.' 5'' ?'17' >4' ?1.<.41' >,<<.<7' ,4-.1741.''4@> 76' >1, 768' 6'<6'?1.Q4> ;.'>.'5''E';457.'=4 '54 .671.6.1 ' -..' >.' 1';:.7.1' 5.6> 76' >1, 76';'64.56' 6.45./.<78' ;,<E,1/ ./.<7' '' '17%' '>.'5''6.;7 ,<' 1.' '?1.6.<7' >.;1.7%

W' '<6'5.';'6', 5'5''<'7 ,<'-.<>1' 7' 5.'>1, 7' '' 5'' 1.<7.' .7' '' 5''?1,?1 .7.'1.-.16 05.8' ;,<E,1/ ./.<7' '4' >.;1.7'>4')''-1 5' (* 8'6'<;7 ,<<>'5.'C('>.6' />< .6' <, 6'.7''<8' .55.'<.'6.1''7.<4.'> '4;4<'1';:'7'.<'-.16' 5.'; >.-'<7'6. J<.418'=4'<.'?,411'' .@.1;.18'?.<M >'<7'5''>41..'>4'0' 58'=4.'5.6'>1, 76'>,<7' 5'Q,4 66' 7' - 6 - 6>4'?1.<.41%

$' %' '7 <>./<7>'>4.' '4'; >.-'<7'6. J<.418' +' 1' 6,<' >.' ';=4 6 7 ,<'E' 7.'?'1'5'' / '</,17.8' <'-' 7' >7>'';=4 77. '=4.'?'1'4<.'1.<7.''<<4.55.',4' ?'1'5 <.'?1.67'7 ,<'> 4<'>1, 7'>.'=4 <78'5,>68'>.1' 1' >>6' ,4' '471.' 1;>.-'<;;' ?'V'05.'7,46' 5.6' -<J78

,.(*,(/5 +.+*,(' +*'/ ' + ,.(' .(0 ,$ *'4-.$ -$ 5 (7 + -$,' 3+'/ (,' .'' -(' +' 0(*,(' '(((*,' -' -. $,'+' +' .(*,(' (,+' +'4. 4.$(%,(%.(0(.'$) (/ +'*+,$ *' '(.+' ,(* (' -(' .+36(,(.' (''-. $,''+ ' 3$!-(0+*,' '($1 9*(./(,' (-$,'.+36+,''(' #(.+'3 *# . ((*,'+' ('5 $ (',4.('3.$,4+.' (''+.,$3 (' '(,' ' - ' -(3.(,'-('3(' .

$' %' 8'5,16'>.' ';=4 6 7 ,<'E' 7.'?'1'5'' / '<M /,17.'>.6'E,<>6'>. 6 J<.6' '4@' '17 ;5.6'?1.;.>.<768' 5 < '' .7.'?'V.''4.4<.' <>. /< 7.'4; >.-'<76. J<.418' .7'6 '5'> 7.' <>. /< 7V'< .67'?, <7'?1.6;1 7.8.<';'6>.% -.<7.'>4'>1, 7''5''1.<7.' .7' '' 5''?1,?1 .7.'1.-.16 05.8' 5'' <'7 ,<' >. / .41.1'' ;:'1J. ' >.' 1';:.7.1' 7'<7'5.6' >1, 76'E @.6'=4.'5.6'>1, 76';'64.56' >,<7'5.'E,<>6'?.<7' >71.'7.<48' '4'7'4@' .7'64 -'<7'5.' / ,>.'?1.6.<7'?'1'H' >>;1.7 >4' ' / ' ' (* %' 4' / ,V.<' >4> 7' 1';:'78' 5'' <'7 ,<' ?.1;.-1'' '' 6,E7'?Q,E 78' ?.<>'<7'5'' >41..'>4' 0' 58' 7'<7'5.6'>1, 76' E @.6'=4.'5.6'>1, 76';'64.56'=4 ' ?,411' .<7'> 1.'>46'?'1'5.'?1.<.418'5.=4.5' 6.1''7.<4' >.';,<7 <4.1' '' 5'' <'7 ,<8'?.<>'<7'5''>41..' >4' 0' 58' 5.'?'V./.<7'>.6'>1, 76''<<4.56'E @.68' .7'>. / .41.1'' ;:'1J.'.<-.16'5'' <'7 ,<'>.6'>1, 76';'64.568'>'<6'5.6' ;'6'4@=4.56 5' .<' .677.<48Q46=4 '4'1';:'7> ;.4@8' =4 5' .<'?,411''E' 1.' .<'5''E,1/.'?1.6;1 7.'?'1' '1M 7 ;5.' '>4'?1.6.<7'>.;1.7%

W %' '<6'5.' />/.';'68?1.-4'?'1' '17 ;5.'?1.;.M >.<78Q46=4 '';.=4.'5''<'7 ,<'' 7' -.<>45.'>1, 7' '' 5'' 1.<7.' .7'5''?1,?1 .7.'1.-.16 05.85.'?1.<.418'?,66.6M 6.41'>4'E,<>68'>./.41.1''6.45' ;:'1J.'.<-.16'5.'; ' >.-'<7' 6. J<.41'>.' 5''?1.67'7 ,<'>.6'>1, 76'E @.6' .7' >.6'>1, 76';'64.568'>'<6'5.6';'6' , 5' 5' .<'6.1''7.<48' 6'4E5.1';:'7'=4 5' ?,411''E' 1.'>.6> 76'>1? 768';,<' E,1/. /.<7' '' '17 ;5.' ' >.' 5'' ?1./ .1.'6.;7 ,<'>4' ?1.6.<7'>.;1.78' .76'4E6,<'1.;,416';,<71.' 5''<'7 ,<' ?,41' 5'' ?1.67'7 ,<' ,4' ?,41'5.'1./0,416./.<7'>.6' >1, 76'E @.6'6.45./.<7%

& ' $' ('# *-''*+,$ *+ 2'3$!-(0+*,'+$-*('/4+$')+$'(468,(,$5 (' *D)+$'+.(*,(* *4(.4-, ((/ 3,-(''4+.,$3 (.'/(,+$(*'3$!-(0+*,'' '' +' 0+*3,' - *' 3$!-(0+*,'#$(# *+,$ *+ 7 + -$,'3+'/ . '' -(' B$' 0(*,('-' '-. $,'+' +' .(*,(' (,'4. 4.$(,(' .(0(.'$) (/ / *+,$ *'*('(.+'36+.9-('- + 3 *' .+36+,'-(''3$!-(0+*,' -. $,''($9*(.$+ 27 (,' +' *+,$ */4(*-+*,' +'- .((- ')+$/4(.3(0.+' ' . ('4.(*(.',+*,' (''-. $,''#$2(' 5 ((''-. $,''3+' ('' '(((*,/+$*'$5 $' (','-$,' (*' +' -(2$((' 4+.,$(' -(' +.,$3 (' ' -(' +'4.($(.(' '(3,$ *'- '4.('(*,'-(%(.(,

K' ' $' (' # *-''*+,$ *+/ 0+*,' - *' + ,.(' # *-''*+,$ *+/ +' (%,-'3(%-(' +',$,.(' -(')+$'(468,(% !' ,$5 (/ $' +'.(*,(' *' *' 4(.4(, ((/ +' *' -(''3$!-(1 0+*,')(*(#$3('/3 .4'' '3 *+ ,('' (33 ('$+',$!' 5 ('' ' +%$5 ('' - *' +'0(*,('-('')$(*'' +' (,(' .!' - **-(/ ' $,'5 (' $*-(*$,-'+$,'-,(4+8((' ' * */ 5 (' (' -(' 2' # *-'' ' $($$,' '$, (' ' * *' -+*'' (' ((' -$',.$3,' ' (' - (' -(4+.,((*,/ ( )+$''(.+ (,'-((,(.+' .(' '7 +'4 ($*('3,'(*,$(.('4. 4.$(,8' - ' # *-'' '(.+'0(*- ('#$).(' -(' , (''36+.9(''5 (!' 3 *5 ('/ (,' '5 +' +'0(*,(' ('' .(0(* '' (*'(. *,' +- $*$',.(' (* +' # . (' 4.('3.$,('4+.' (' -(3.(,'-' WI'+ $,7 (,'$''*(' 4 ..+' -,.(' (2(.(-' + (*(' +3,$ *' - *'-$',.$3,'' ' %+ ,.(/+' .+$' *'-(''+..(.+9(''-(' +' .(*,(' (36 ''4 .' ('4+''(

'(*' '(3+' -(' - ((*3 .('5 (' ('# *-'' ' $,'4 ''(%-(' + -$,' ,$,.(' ' ' (468,(,$5 (/ ')+$'+' .(*,(' *' *'4(.4(, ((/ 4+.! *'-(''3 .4'' ' 3 *+ ,('' (33 (%'$+',$5 ('' ' +%$5 (''5 $' *,'(,(3 *'(.0(%'' 4. 0$' $.((*,' -+*'' +' $''+*3(' -((.'')$(*''7 ('-$,''# *-'' 4 .. *,'-,.('0(*- '/ (, +4.('' +'0(*,('$''(.+'4. 0$' $.((*,'4+8(' +'3 .4'' '+' +'3 *+*,('5 $4 ''(-+$,' ('# *-'' $*,-.-,' +'U 4 .' ' - '4.$2 -(' +'0(*,(/+' +'-(%- 3$ *'-' 3+4$,+'+ ' - (' -(*$(.'-(' +' .(*,(' 4 .,((+ ')+$' A '5 +' +'.(*,(' ('3 .4'' ' +'3 $ **+ ,-'5 $

?,66 >' 7 ;E,4>6 ?' .1" 5"1.<7.' '<<4.55.' ?,17..' + '0' 5%
$ " % '5.'E,<>6 =4 '>5' 5 ?,66>>' ?'1' 4< 0.<.5 ' ; .18 ,< ?'1' 4< ;,1?6 ,4;, / / 4<'47;'.;;5.6 '67 =4.' ,4'5' =4.8 '4> 7 5 71.'>.'0' 5 . / ?:V7.,7 =4.8 ,4' " 1.<7.'<,<?.1?.74. 5.8 '??'17.<' 7 " 4< ?1,?1 .7' 1.' ?'17 ;45 .18 / ' 6 .7' 7 6,46 5" / ,4-'<;.> 4<' ; >.M -'<7 E .E <'7 ,<'58 .<' ;'6>.'1.<7.'>4'>1, 7>.'Q,4 6 8 6'<;.'7. / ?,1' 1.'1. 6457'47>4'0' 58 5'> 7.'1.<7.'6.1" E' 7.' ?41. / .<7 .7 6 < ?5. / .<78 " 5" ;:'1J.' 6.45.' / .<7 ?'1' ';=4>1.41'>.'?'V.1' '4'0' 55.41'5" 1.<7.' ?,17..' '4' 0' 5 ?.<>'<7 6" 41..8 .7 6'<6 '4;4<.' ;:'1J.' >.6 ; >.-'<7 >1, 76 6. J<.41 '4@' E @.6 .7 ;'64.568 >.6=4.56 5. 0' 55.416.1'6.45 7.<4' '?1 66" 1.<71..>'<6 5" ?1,?1 .7..7Q46=4 '4'1';:'7> ;.4@%
$ " % '5.'E,<>6 >,<<.' " 5 71.'>.'0' 5 . <?:V7.,7 ' =4.8 ,< " 1.<7.'<,<?.1?.74. 5.8 ?'14<'?1,?1 .7' 1.' ?'17 ;45 .18 " 4<'0.<.E ; .18 ,4' " 4<;,1?6 ,<;, / ' / 4<'47.'.;;5.6 '67 =4.',4'5'7=4.8.7' 76,46 5" / ,4 '1'<..' > 4< ; >.-'<7 E .E <,< <'7 ,<'58 .<' ;'6>.' 1.<7.'>4'>1, 7>.'5"Q,4 66'<;.'7. / ?,1' 1.'1.6457'<7 >4'0' 58 5 6.1" 6.45.< .<7 ?'V>' ?'1'5" <'7 ,< '4' ; ' >.V'<7 6. J<.41' 4< >1, 7 >.' 1.<7.' '4' '>4' '?1 @'> ;.55.%6'47 ";.'; >.-'<7 6. J<.41' " .@.1;.18 $ 6, 5 - 6 ' - 6>.' ';=4.1.418 ?.<>'<7 5" >41..'>4' 0' 58 6, 5 - 6 ' - 6 >4' 0' 55.418 5.6 >1, 76 E @.6 .7 ;'64.56 7.56 =4.' >.'>1, 78Q46=4 '4'1';:'7> ;.4@%Y
<.'>.?47'7 ,< >.6 .5.;7.416'>.' . <. .7 6.8 '> / 6.' " 5" 0'11.8 E.5 ; 7.' 66. / 05>.' >.'6.6 71' ' -'4@8 .7 6.'E.5 ; 7.' .55. / > / .'>.' .6?, 1 =4.'5' 66.' " 5" 1.;,<<' 66'<;.' <'7 ,<'5.' 5" 1. >5 J 0 5 7.' ?1.1' ;:' <.'>.6 / .< 01.6>.' 666. / 05. .';,<67 74'<7.%$
+ % 6,< ?1. 6.<7.8 '4'<, / '>.6 ; <=;, / 7. 6 ,;' ;4?.6 >.' ,1J'< 6'7 ,<E,1.67 .1.8 4< ?1,Q.7 > '17 ' ;5.6 E' 6'<75.' ;, / ?5. / .<7 >.';.77.'5, % +' #.'?1,Q.7 .67>.;1.7.' ' <6 ' =4 5 64 7N 8
W 17% F%' .6 ;, < / 66' 1.6>.'5";,<6.1-'7 ,<6.1,<7'< <, / 01.'>.'; <=8
$ % .6;,<6.1-'7.416 6.1,<7'4'<, / 01.'>.'71.<7. ; <=8 .75.6 <6?.;7.416 '4'<, / 01.'>.'71, 6 ;.<7 71, 68 6'-, 1N
W % '<6 5.6 >#?'17. / .<76 >.'5" , / / .8 >4' '6 >. #'' 5' 6 .7>4' ,1>8 4<;,<6.1-'7.41' 1.6 >'<7 ' 11'68 .7>,4';' <6?.;7.416%
WW' '<6 5.6 - 4+.((">.' 6<.'('>.' 6.8 4< ;,<6.1-'7.41' 1#6 >'<7 " ',<8 .7 =4 <6.' <6?.;7.416%
' % '<6 5.6>.?'17. / .<76 >.6 1>.<<.6 .7>.'5" '1<.8 4<;,<6.1-'7.41' ' #:'5,<68 .7 ,<0. <6?.;7.416%
W % '<6 5.'>.?'17. / .<7 >.'5" .46.8 4<;,<6.1-'7.41' 'K'1 5. 4;8 .5 6 @ <6?.;7.416%
' 8 '<6 5.'>#?'17. / .<7 >.'5" ,6.55.8 4< =><6.1-'5.41' ' .708 .7 > @ <6?.;7.416%
8 7' 9% '<6 5.'>#?'17. / .<7 >.'5" .417:.8 4< ;,<6.1-'M 7.41' ' '<;V8 .7<.4E <6?.;7.416%
$ (% '<6 5.>#?'17. / .<7>.6 ,6J.68 4<;,<6.1-'7.41' ' ' ?<'58 .7 ;4 7 <6?.;7.416%
&')% '<6 5.6>.?'17. / .<76 >4' B'45 .7K'6 K0 <8 4<;,<' 6.1-'5.41' ' 71'60,41J8 .7<.4E <6?.;7.416%
W*% '<6 5.'>#?'17. / .<7>.'P" 5'47. '><.8 4<;,<6.1' '7.41' ' .6,458 .76.?7 <6?.;7.416%
W % '<6 5.'>#?'17. / .47 >4' ,4068 4<;,<6.1-'5.<1' 'K.6'<?,<8 .7<.4E <6?.;7.416%
% '<6 5.'>>?'17. / .<7>4' 41'8 4<;,46.1-'7.41' ' , 6 7. '45< .18 .7 ; <= <6?.;7.416%
$ C% '<6 5.' >#?'17. / .47 >.'5" #95. > 18 4<;,<6. ' -'7.41' ' Q,<8 .7 ; <= <6?.;7.416%
Q % '<6 .6 >>?'17. / .< 6>.' 5" B'47. '1<.' .7 >.' 40.8 4<;,<6.1-'7.41' '#0'4 / ,<78 .7<.4E <6?.;7.416%
Q, & 5 % '<6 5.'>.?'17. / .<7>.' 1,<<.8 4<7;,<6.1V'5.,1' 4@.11. 8 .7 0' 7 <6?.;7.416%
" % '<6 5.6> ?'1 . / .<76 >.' . <. .5 ' / .8 >.' 'M 11 68 .7 >.' . <. .7 6.8 4<;,<6.1-'7.41' ' '1 68 .7<.4E <6?.;5.416%
' & 9% '<6 5.6 >>?'17. / .<76 >.' 41.' .7 >.' . <. <E ' 1 .41.8 4<;,<6.1-'7.41' ' a,4.<8 .7<.4E <6?.;7.416%
& (% '<6 5.6> Q 17. / .<76 >4 #'5-'>,68 >.'5" '<;0.

.7>.'1 1<.8 4<;,<6.1-'7.41' ' #'.<8 .7 =4 <0.' <6?.,' 7.416%
&)% '<6 5.6 >>?'17. / .<7 > 555. .7 5' <.8 >.6 #,5.6G >4 ,1>8 >4' < 67.1.' .7 >4' ,10 :'<8 4<.,<6.1-'7.41' ' .<<.68 .7 6 @ <6?.;7.416%
& *% '<6 5.6 > ?'17. / .<76 >.' ' <. .7 , 1.8 >.'5" 'V.<<.8 >.'5" '15:.8 .7 >.'5" , 1. <E.1 .41.8 4<;,<G 6.1-'7.41' ' <J.168 .7 :4 7 <6?.;7.416%
& C % '<6 5.6>.?'17. / .<76 >4' ,51 .7 #:.18 >4' , 1.78 .7 > 41. .7 , 18 4<;,<6.1-'7.41' ' 15 '<68 .7 =4 <0.' <6?.;7.416%
'C % '<6 5.6 > ?'17.< .<76 >.' .18 >.'5" -1.' .7 >4#0.18 4<;,<6.1-'7.41' ' .-.168.7 >,40.' <6?.;7.416%
W CC% '<6 5.6 > ?'15. / .<76 >.' '><. .7 , 1.8 .7 >4' :>,. .7 , 1.8 4<;,46.1-'7.41' ' ;,:8 .7 6.?7 <6?.;' 7.416% \
'C % '<6 5.'> ?'17. / .47 >.' <8 4<;,<6.1-'7.41' ' K,41J8 .7 6 @ <6?.;7.416%
-'C % '<6 5.6 > ?'15. / .<76 >.' 6 1.8 5" 1 / .'.75.6 K'47.6 5?.684<;,<6.1-'7.41' ' !1.<,05.8 .7 ,<0.' <6?.,' 5.416%
W C % '<6 5.6> ?'15. / .<76 >.6 K'66.6 5?.6 E>4' '1'.7 >.6 K,4;:.6 >4 :>'.8 4<;,<6.1-'7.41' ' J4.8 .7; <=' <6?.;7.416%
& C9% '<6 5.6 >.?'17. / .<76 >.' B 1'4558 >4' #'1>8 ;7 >.' 1> ;:.8 4<;,<6.1-'7.41' / .6 8 #76 @ <6?.;7.416%
& C(% '<6 5.6 > ?'15. / .<76 >4' #'<5'58 >4' 4V >.' >/.8 .7>.'5" B'47. , 1.8 4<;,<6.1-'7.41' '#5.1 / ,<78 .7 =4'71.' <6?.;7.46%
& C)% '<6 5.6> ?'15. / .<76 >.' 5<>1..7 , 1.8 >.' 54' >1.' .7>.' 5" #1.46.8 4<;,<6.1-'7.41' '#: 7.'41,4@8 .7 ,<0.' <6?.;7.4116%
W C*% '<6 5.6 > ?'15. / .<76 >.'5" B'<7.1 .<<.8 >. ' .4" -1.68 .7>.5" .<> .8 '<;,<6.1-'7.41' ' , 7 .168 .76.?7 <6?.;7.416%
W % '<6 5.6 > ?'15. / .<76 >.'5" #0'1.<7. <E 1 .41.8 5" #:'1.<7.8 5" ,1>,J<.'.75'1#,< 0.8 4<;,<6.11'5.41' ' 1 J4.4@8 .7<.4E <6?.;7.416%
W % '<6 5.6> ?'15. / .<76 >.6 '<>.688 >4' ,7 .7 ! J' 1,<<.8 .5>.'5" ! 1,<>.8 4<;,<6.1-'7.41' ' K,1>.'4@8 .7 ' =4'71.' <6?.;7.416%
$ C% '<6 5.6> ?'15. / .<76 >4' ,78 >.'5" ,0 1.8 ' -.V1,<8 .75.' '1<8 '<;,<6.1-'7.41' ' :,>.08 .7 > @ <M 6?.;7.416%
W % '<6 5.6 > ?'15. / .<76 >.'5" B'47. ! '1,<<.8 >4' ! .168 >.6 B'47.6 V1 < .6 .7 >.6 K'66.6 V1 4 .68 4< ;,<6.1-'7.41' ' 4;08 .7<.4E <6?.;7.416%
& % '<6 5.6 > ?'15. / .<76 >.' <>.8 >.6 V1 < .6G8 1 .<7'7.68 .5>.'5 1 J.8%4<;,<6.1-'7.41' '#'1;'66,<<.8 .7 ,<0.' <6?.;7.416%
W % '<6 5.'> ?'17. / .<7>.'5" #,16.8 4<;,<6.1-'7.41' '#,15.8 .7 6 @ <6?.;7.416%
% " ;,<6.1-'7 ,< E.1" ?1,- 6, 1. / .<78 >'<6 ;:'=4.' '11,<> 66. / .<78 5" 1.?'17 7 ,<>4'<, / 01.' > 6?.;7.416 ; >.6646 >.7.1 / <.8 .7 4> =4.1=' 5.' 5 .4 >.'5.41' 1.6 >.<;.1' 5 V 6.1" .<64 7.'>.7 < 7 -;' / .<7 67'74 '?'1'5.';,1?6 5.J 65'7 E%
$ % 55.'>1.66.1" <;.66' / / .<7 .7'7>.6 J'1>.6 <.;.66' 1.6 " 5" ;,<6.1-'7 ,< >.6 0, 6 <'7 ,<'4"' >'<6 ;:'=4.' <6?.;7 ,<8 ?,418 5.> 7 7'71'??,17.'< #,1?6 5.J 65'7 E8 71.'67'74.' ;.'=4 5 '??'17 .<>1'%
% .71' 7. / .<7>.';:';4< >.6;, / / 66' 1.6>.' 5" ;,<6.1-'7 ,< J.<.1'5.' 6.1" >.')8 '5 -%'<<4.5 5. / .<71 ;.4@ =4' 1,<7 .<7,414 .'1.;.-1,<7 .<8,4' 71.' E.' 1. / 0, 16. / .<7 >.' 5.416 E1' 6 >.' -,V'J.8 '' 1' 6,< >.'CU 5 -%?'1Q,41%
W % .'71' 7. / .<7 '<<4.5 >" 6.;1.7' 1.' >.'5" ;,<6.1-'7 ,< 6.1" >.'98 '5 -%
W 5% '6.1" 67'74 '641'5.6 E1' 6 >.';, / / 6 .7>.' 041.'48 > '?1.6 .7'7 =4 '6.1" ?1.6.<7 ''4';,1?6 5.M J 65'7 E%
% 'V '41" 71, 6 ;5'66.6 ;5.'71' 7. / .<76 ?,41' 5.6;,<6.1-'7.41686'-, 1N 8 %U8 %,4 8 5% .< J'1>' " 5" =4'<7 7 '>.'0, 6 .7 " .7.<>4.'>.'5.41' '11,<> 66. / .<7%%

$ "% ' V '41">.' / / .'71, 6 ;5'66.6>.'71' 7.

/ .<7 ?,41 5.6 <6?.;7.4168 6'-, 1N C8 %8 C8 %
,4 8 %8 > '?1.6 5.6 / , .6 0'6.6%
W " % " ;?<6.1-'5 ,< J < 1'5. E @.1" ?1,- 6, 1.
Q<.<7 5" ;5'66. >" 71' 7. / , ,7 ; ,<6.11'7.416 .7
>.6 <6?.;7.4168 ; ,<E,1< . / .<7 '4@ >.4@ '17 ;5.6
?1.;.>.<768 6'<6 =4. 5. 7,7'5 >.6 71' 7. / .<76 1. 4< 6
?4 66. .@; >.1 5. 7'4@ / ,V.< E @> ?'1 5.6 / > / .6 '1M
7 ;5.6% 8
W " % < ;'6 > '06.<;. >.6 ; ,<6.11'7.416 ,4 >.6
<6?.;7.4168 5 7.41 6.1" E' 7 >. >4;7 ,< > 4<. ?'17 .
?1,?,17 ,<<.55. >. 5.41 71' 7. / .<78 ?, 1 '#;1, 71. "
" 6, / / .>,<7 5 -" >71.?'15 %
W " % 6.1" 1. / 6 '<< .55. / .<7 4<. 6, / / .>.
8 5 -% " 5" > 6?,6 7 ,< Q.5" ; ,<6.11'7 ,<8 ?,41
>71. > 671 047. .< J1'7 5 ,'7 ,<6 '4@ 64?? 7'<768 5,16
=< 6 6.1,<7. / ?5,V.6 ; " 54 >. ; ,< / 66 ,0 ?'1
7 ;45 .1.8 6'<6 =4. 5.6> 7.6 J1'7 E ;'7 ,<6 ?4 66.<7
.@;.>.1 5" 6, / / . >. C 5 -1.6?'1 / , 6 >. 71' -' 5f
; =4 1.67.1" 6.1" > 671 047 '4@ <6?.;7.416 =4 '4
1,<7 .7. . / ?5,V.6 " >.6 71' -'4@ .@71' ,1> <' 1.68 ,4
=4 '41,47 1. / ? 5.41 6.1- ; '-. ; 5. ?546 > ';7
- 7>% % G %
W " 55% .6 ,?71'7 ,<6 >.6 '1?.<7.416 6.1,<7
7'@7.6 ?'1 5.6 ; ,<6.1-'7.4168 .7 5. / ,<7'<7 >.6
7'@.68 '?1.6 '-, 1 .77 - 6. ?'1 5.6 > 1.;7, 1.6 >.6 >7
?'17. / .<768 6.1' ';=4 7 7641 5. ?1,>4 7 >.6 1.<7.6%
W " % " ; ,<6.1-'7 ,< >1.66.1" 77'7 >4 71' 7.M
/ .<7 =4 .55. .67 / .1" >.-, 1 >71. E,41< '4@ J'1>.68
.4 .J'1> " 77.<>4. >.6 0, 68 5" > EE ;4 . >. 5"
%J'1>. .7 5. ?1 @ 5, ; 5 >.6 6406 67.<; .68 ?,418 5.> 7
8 77'7 1'??,17. '4 ; ,1?6 5.J 65'7 E8 771. 67'74. ;9 =4 5
'??'15 .<>1' I .7 ; .?.<>'<7 5. 71' 71 / .<7' ;74.5 >.6
J'1>.6 .< .@.1; ; 6.1" ?1,- 6, 1. / .<7 ; ,<7 <4.%
W " % " / , 7 .>4 ?1,>4 7 >.6' / .<>.68 >.>4;M
7 ,< E' 7. >. 7,46 E1' 6 >. ?,4164 7..7 1.;,4-1. / .<78
6.1" 5' 667. " 5" > 6?,6 7 ,< >. " ; ,<6.1-'7 ,<8?,41
>71. > 671 047. " 7 71. >. J1'7 E ;'7 ,< '4@ J'1>.6
=4 '41,<785. / .4@ 1. / ?5 5.41 6.1- ; .I .7'7 >.
;.77. 17?'17 7 ,< .7 ; .54 >.6 J1'7 E ;'7 ,<6 7<,<; . .6
>'<6 '15 ;5. " 6.1,<7 1.<>46 ?405 ;6 .7 .<-,V76
>'<6 5.6 >7?'17. / .<76%
$ " % 6.1" 1.5.<4 641 5. 71' 7. / .<7>.6 J'1>.%6
>. =4, 5.41E,41< 1 4< 6417,47 05.4 >. 1, 8 641 5.
=4.5 56 ?,17.1,<7 4< / .>'55 ,< >.>1'? 1,4J.8 '-. ;
; .77. < ?7 ,< .<;,45.41Q'4<.I #, 6.<@7_Y,<1EW6
! ! <, / > > 671 ;7%
$ " 55% ,47.6 ; ,<;.66 ,<6 ,4 '771 047 ,<6 >.
0, 6 >. ; '4E7'J.8 >. ? 741'J. .7 >. 7,47 '471.6
>1, 76 ,4 Q,4 66'<;.6 >'<6 5.6 E,1776 ,4 0 .<6 <'7 ,
K'4@8 ,4 >'<6 5.6 ; ,4?.68 ,4 ?1,>4 76 >.6 1.<7.68
?,41 1' 6,< >. .@.1; ; . > '4;4<.6 E,<;7 ,<6 E01.6
7 .1.6 6.<7 '0,5 .68 6'<6 =4 '4;4< 'J.<7 >. 5" ; ,<M
6.1-'7 ,< J7<.1'5. ?4 66. 6 .4 ?1.-'5, 1 6,46 '4;4<
?1.7.@7.8 " ?. <. >. ?1.-'1 ;'7 ,<%Y
41 5" ?1.6.<7'7 ,< >. % #' / 468 5.6 '17 ;5.6 64
-'<768 641 5" ; , / ?7'0 5 778 6,<7 64; ; .66 1. / .<7 >7G
.1;7.6%
& ,46 >,<<.1,<6 >, / ' < 5.6 '17 ;5.6 >7.177. 6%P
N < " E' 7 : .15 ,06.1-'7 ,<
=4. 5" E,1 / 45" >4 6.1 / .<7 / 5 7' 1.8 > .1.7.. 5.
C Q4 <8 <.?,4-' 7 ?546 6406 67.1 7.55. =4 .55.'-' 7
.7. E' 7. ?.<>'<7 <7.11 J<. >.6 E,<;7 ,<6 1,V'5.6%
.67 .@71X / . / .<7 / ?,17'<78 ?,41 5" > 6?,6 7 ,< >.6
71,4?.68 ?,41 5" 6; ;41 7. >.6 . ?1 768 =4. 5. ; , / 7.
% / 5 7' 1. ?1>6.<7. <;.66' / / .476.6 -4.6 641 ;.7 ,0
Q.7%%
'Q,41<. / .<7 ?1,?,6> ?'1 % ' / .7: .]7 >
;1.7.%
41 5" ?1 <7'7 ,<8 E' 7. ?'1 % #.1<,<8 >.6 >7'76
>. ; , / ?7'0 5 7> >. 5" 71>6,1.1 .<'7 ,<'5. >.?4 6 5.
/ , 6 >. / ' ( ) *8 66. / 05>. 01>,<<. / ?1.66 ,<
>. ; . 71'-' 5
% " 6. '<; . .67 5.->. " 71, 6 : .41.6%

; < " + 4Q,41>% 5" CG 1.?1 .<7'%
75,<>. '09 & 8 ; , / #> . Q1 =4. .< C';1
7.'8 4 - . >4 0'55.7 >. < (1 >. ! '1>.5%
K> a $ & .4 Q%8 6?. ; ;5. J1'7 68 % #
3 .7 8 689 'D % '
1 - .1. / ?5 1" 5. 19 . >. K 'V'1>%
4<> 8 5" h 1.?1.6.<7'7 ,< >4 G ; , / .> "
.< ' ;7.6%
B. 5 <S &% \ 4Q% < (9 2
K> 1 14 . >. ; : .5 .4% + <Q% 9
71'J#> . >. # ,1<. 55.8 64 - . >. G Q@ A
& ; , / #> . . < < ;7g%
1 * ; >.-'<7 >. , ,<6 .41%8
+ Q% 5" CG 1.?1.6.<7'7 ,< 09 ; , / .> .
.< ' ;7.68 64 - . >. ')9 ,?.1' E,5 .%
< '77.<>'<7 5" G 1.?1.6.<7'7 ,< >4 G
% ,?.1' E,5 .% G
-E7 '4 '5' 6
,V'5% + 4Q% 5" G 1.?1.6.<7'7 ,< ')@ A
; , / .> . <,4-. 5. .< ' ;7.68 64 - . >.6 8
- . % < - + 3 &
4Q% @ ; , / .> . '-. ; 4< > -.15 66.7<.<
5" 7,41<.46. .7 5. K'6=4.I 8
8 5 G, ! J 5.6 6'47.416 E.1,<7 > E
E.1.<56 .@.1; ; .6I F G
F ! 8 .75" ;0' ; ,<. > 15.=4 <%
5) " '4 0,45.-'1> >4 . / ?5.% + 4Q%
G & ! 8 & 5 1
,?.1' 0,47 ,<8 .7 F & ?'<7, / / . ?1.
; .>.. > 4< > -.17 66. / .<7%
% '> H # # 3 K K 3 % + 4Q% 7
,4 : "1
; ,46 < ';=4.6%
- 6.8 14 . ' <7 '17 <% + 4Q% " Cd
1.?1.6.<7'7 ,< >. $ &) ; , / .> . .< 4<
';7.8 ?1#; .>. . >4 8 ; , / .> . .< ' ;7.6%
- + + 4Q% , >G
; , / .> . 54. .. > '1 .75.68 ?1.;#>>. >. '), 8 A
J >. 8
. / ' < " h 1.?1.6.<7'7 ,< >. '- &
; , / .> .%

$ " +L (,#'(#- , ,
'(. ! /)
$2 4.($(. " $" BHTB (" 4+8(. " ' *, + + $3 .(A
G & & 9
/ 67.1>' / % % % % % % QJ #'>@ % % % % % % * %(
B'<70,41J % % % C (!#<.6 % % % % % % % % % <
,<>1.6% % % % % % CC % B -,41<.% %C(
'>1 > % $$$ $ $ * % 6 V,<8 , % % % '4 ?'1
7
;7% >.6 <>.6 >. C 5 - □8 %
,17 ,<6 >. C 5 -% 6%
/ ?14<7 > ,.7,01. >. 5 - %%%%%%%%%%%%%%%%%% (
+ >.;% ( )C% 34 78 >. <% % % % % 78 0 J
+ >. C / 558 >. ;% ( )U %%%%%%%%%%%%%% E% % % d5\
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+ '<6045 5%%%%%%%%%%%%%% (8 9 8 98 9 c57
+ ,15 6.< - 'J.1% % % % % % % % % % % % % 98 c P
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WCD 34 . ʿ 7 , 47 . 6ʿ 5 . 6ʿ ; , <71 047 , <6ʿ 6 . 1 , <7ʿ 1>? ' 17 . 6ʿ . <71 . ʿ 7 , 46ʿ 5 . 6ʿ ; 7 , V . <6ʿ >J ' 5 . / . <78ʿ . <ʿ ?1 , ? , 17 , <ʿ > . ʿ 5 . 416ʿ E ' ; 4 >6I
dʿ D 34 . ʿ 5 . 6ʿ / , < . 6ʿ > . 5 76ʿ 6 . 1 , <7ʿ ?4< 6ʿ > . 6ʿ / J / . 6ʿ ? . < . 68ʿ 6 ' <6ʿ ' 4 ; 4< . ʿ > 67 < ; 7 , <ʿ > . 6ʿ ? . 16 , << . 6%
$ʿ "ʿ ; , <67 747 , <ʿ J ' 1 ' <7 7ʿ ? ' 1 . 55 . / . 478ʿ ; , / / . ʿ >1 , 76ʿ < ' 741 . 56ʿ . 7ʿ ; - 56%
Wʿ "ʿ 5 0 . 17>ʿ "ʿ 7 , 47ʿ : , / / . ʿ > ' 55 . 18ʿ > . ʿ 1 . 67 . 18ʿ > . ʿ ? ' 17 18ʿ 6 ' <6ʿ ? , 4- , 1ʿ >71 . ʿ ' 11 7>ʿ <ʿ > . 7 . <4ʿ =4 . ʿ 6 . 5 , <ʿ 5 . 6ʿ E , 1 / . 6ʿ > . 7 . 1 / <> . 6? ' 1ʿ 5 "ʿ ; , <67 747 , <I
Wʿ "ʿ 5 0 . 17>ʿ "ʿ 7 , 47ʿ : , / / . ʿ > . ʿ ? ' 15 . 18ʿ > > ; 1 1 . 8ʿ > / ?1 / . 1ʿ . 7ʿ ?405 . 1ʿ 6 . 6ʿ ? . <6 . . 6ʿ 6 ' <6ʿ =4 . ʿ 5 . 6ʿ > ; 1 76ʿ ?4 66 . <7ʿ >71 . ʿ 6 , 4 / 6ʿ "ʿ ' 4 ; 4< . ʿ ; . <641 . ʿ <ʿ <6? . ; 7 , <ʿ ' - ' <7ʿ 5 . 41ʿ ?405 ; ' 7 , <8ʿ . 7ʿ > . @ . 1 ; . 1ʿ 5 . ʿ ; 457 . ʿ 1 . 5 ʿ J . 4@ʿ ' 4=4 . 5ʿ 5ʿ . 67ʿ ' 77 ' ; : >I
Wʿ "ʿ ʿ ʿ ; 7 , V . <6ʿ > . ʿ 6 ' 66 . / 05 . 1ʿ ? ' 6 05 . ʿ < . <7ʿ . 7ʿ 6 ' <6ʿ ' 1 / . 68ʿ . <ʿ 6 ' 7 6E ' 6 ' <7ʿ ' 4@ʿ 5 , 76ʿ > . ʿ ? , M 5 ; . I
W "ʿ 5 0 . 17>ʿ > ' >1 . 66 . 1ʿ ' 4@ʿ ' 47 , 1 7>6ʿ ; , <67 74> . 6ʿ > . 6ʿ ? . 7 7 , <6ʿ 6 J< . . 6ʿ <> - >4 . 55 . / . <7%
$ʿ ; ʿ ? , 4- , 1ʿ >J 65 ' 7 Eʿ < . ʿ ? , 411 "ʿ E ' 1 . ʿ ' 4 ; 4< . 6ʿ 5 , 6=4 ʿ ? , 17 . < 7 ' 77 . <7 . ʿ . 7 / . 77 . <7ʿ , 067 ' ; 5 . ʿ Uʿ . @ . 1 ʿ ; ; . ʿ > . 6ʿ >1 , 76ʿ < ' 741 . 56ʿ . 7ʿ ; - 56ʿ ; , <6 J<>6ʿ > ' <6ʿ 5 . ʿ ?1 . 6 . <7ʿ 7 71 . % . 7ʿ J ' 1 ' <7 6ʿ ? ' 1ʿ 5 "ʿ ; , <67 747 , <ʿ Iʿ / ' 6ʿ ; , / / . ʿ 5 "ʿ 5 0 . 17>ʿ < . ; , <6 67 . =4 >ʿ ? , 4- , Eʿ E ' 1 . ʿ 7 , 47ʿ ; . ʿ =4 ʿ < . ʿ <4 7ʿ < ' ' 4@ʿ >1 , 76ʿ > ' 4714 8ʿ < ʿ 2ʿ 5 "ʿ 6>1 . 7>ʿ ?405 =4 . 8ʿ 5 "ʿ 5 , ʿ ? . <7ʿ >7 ' 05 1ʿ > . 6ʿ ? . < . 6ʿ ; , <71 . ʿ 5 . 6ʿ ' ; 7 . 6ʿ =4 8ʿ ' 77 ' =4 ' <7ʿ , 4ʿ 5 "ʿ 6>1 . 7>ʿ ?405 =4 . 8ʿ , 4ʿ 5 . 6ʿ >1 , 76ʿ > ' 4514 8ʿ 6 . 1 ' . <7ʿ <4 6 05 . 6 "ʿ 5 ' 6 , ; >7>W
W "ʿ ; , <67 747 , <ʿ J ' 1 ' <7 7ʿ <- , 5 ' 0 5 7 . ʿ > . 6ʿ ?1 , ʿ ?1 . 7 . ʿ , 4ʿ 5 "ʿ Q467 . ʿ . 7ʿ ?1> ' 5 ' 05 . ʿ <> . / < 7 . ʿ > . ʿ ; . 55 . 6ʿ > , <7ʿ 5 "ʿ < ; . 66 7 . ʿ ?405 =4 . 8ʿ >J ' 5 . / . 47ʿ ; , <6Q7 ' 7 . . 8ʿ . @ J . 1 ' 7ʿ 5 . ʿ 6 ' ; 1 E ; . %
1 . 6ʿ 0 . <6ʿ > . 67 < . 6ʿ ' <@ʿ >>? . <6 . 6ʿ ><ʿ ; 457 . ʿ . 7ʿ 0ʿ 7 , 46ʿ 6 . 1- ; . 6ʿ > 47 5 7>ʿ ?405 =4 . ʿ ' ?? ' 17 . << . <7ʿ 5 "ʿ < ' 7 , <ʿ . 76 , <78ʿ > ' <6ʿ 7 , 46ʿ 5 . 6ʿ 7 . / ?68ʿ >ʿ 6 "ʿ > 6? , 6 7 , <%
$ʿ "ʿ ; , <67 747 , <ʿ J ' 1 ' <7 7ʿ 5 . 6ʿ ' 5 . <ʿ ' 7 , <6ʿ =4 ʿ , <7ʿ >7 . ʿ , 4ʿ =4 ʿ 6 . 1 , <7ʿ E ' 7 . 6ʿ 64 1 ' <7ʿ 5 . 6ʿ E , 1 / . 6ʿ . 7 ' 05 . 6ʿ ? ' 1ʿ 5 "ʿ 5 , %
$ʿ . 6ʿ ; 7 , V . <6ʿ , <7ʿ 5 . ʿ >1 , 7ʿ > >5 1 . ʿ , <ʿ . : , 6 1ʿ 5 . 6ʿ / Gʿ < 671 . 6> . ʿ 5 . 416ʿ ; 457 . 6%
$ʿ ʿ 6 . 1 "ʿ . 1>>ʿ . 7ʿ , 1J ' < 6 . ʿ 4<ʿ >7 ' 05 66 . / . <7ʿ J <>Gʿ 1 ' 5ʿ > . ʿ 6 . ; , 416ʿ ?405 ; 6ʿ ? , 41ʿ . 5 . - . 1ʿ 5 . 6ʿ . <E ' <76ʿ ' 0 ' < ʿ > , <<>68ʿ 6 , 45 ' J . 1ʿ 5 . 6ʿ ? ' 4-1 . 6ʿ <E 1 / . 68ʿ . 7ʿ E , 41< 1ʿ >4ʿ 71 ' - ' 5ʿ ' 4@ʿ ? ' 4-1 . 6ʿ - ' 5 > . 6ʿ =4 ʿ < ' 41 ' . <7ʿ ? ' 6ʿ ?4ʿ 6 . <ʿ ?1 , ; 41 . 1%
W ʿ 6 . 1 "ʿ . 1>>ʿ . 7ʿ , 1J ' < 6>ʿ 4< . ʿ <6714 ; 7 , <ʿ ?405 Gʿ =4 . 8ʿ ; , / / 4< . ʿ "ʿ 7 , 46ʿ 5 . 6ʿ ; 7 , V . <68ʿ J1 ' 74 7 . ʿ >ʿ . J ' 1>ʿ > . 6ʿ ? ' 17 . 6ʿ > . <6 . J< . / . <7ʿ <> 6? . <6 ' 0 . 6ʿ ? , 41ʿ 7 , 46ʿ 5 . 6ʿ < , / / . 68ʿ . 7ʿ > , <7ʿ 5 . 6ʿ >7 ' 05 66 . / . <76ʿ 6 . 1 , <7ʿ > 671 ʿ 04 . 6ʿ J1 ' >4 . 5 . / . <7ʿ > ' <6ʿ 4<ʿ 1 ' ?? , 17ʿ ; , / 0 <>ʿ ' - . ; ʿ 5 "ʿ > - 6 , <ʿ >4ʿ 1 , V ' 4 / . 8
$ʿ ʿ 6 . 1 "ʿ . 7 ' 05ʿ >ʿ > . 6ʿ E>7 . 6ʿ < ' 7 , < ' 5 . 6ʿ ? , 41ʿ . , <6 . 1- . 1ʿ 5 . ʿ 6 , 4- . < 1ʿ > . ʿ 5 "ʿ 1 . - , 547 , <ʿ E1 ' < ; ' 6 . 8ʿ . <71 . 7 . < 1ʿ 5 "ʿ E1 ' 7 . 1< 7>ʿ . <71 . ʿ 5 . 6ʿ ; 7 , V . <68ʿ . 7ʿ 5 . 6ʿ ' 77 ' ; 0 . 1ʿ "ʿ 5 "ʿ ; , <M 67 747 , <8ʿ "ʿ 5 "ʿ ? ' 71 . ʿ . 7ʿ ' 4@ʿ 5 , 6%

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7 . 11 7 , 1 . . 67> 671 04>ʿ . <ʿ =4 ' 71 . - <J7 51 , 6ʿ >>? ' 1 ʿ 7 . / . <768ʿ ; : ' =4 . ʿ > . ? ' 17 . / . <7ʿ . <ʿ > 671 ; 768ʿ ; : ' =4 . ʿ > 671 ; 7ʿ . <ʿ ; ' <7 , <6%
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W# . 4@ʿ =4 8ʿ <>6ʿ . <ʿ ? ' V6ʿ >71 ' <J . 1ʿ > 4<ʿ ? 1 . E1 ' < ʿ = ' 68ʿ 6 , <7ʿ 1 . - . <46ʿ 6 >7 ' 05 1ʿ . <ʿ H1 ' < ; . ʿ . 7ʿ , <7ʿ ?1 . 7>ʿ 5 . ʿ 6 . 1 / . <7ʿ ; - =4 . I
W <E <ʿ ; . 4@ʿ =4 8ʿ <>6ʿ . <ʿ ? ' V6ʿ >71 ' <J . 18ʿ . 7ʿ > . 6 ; . <M > ' <78ʿ "ʿ =4 . 5=4 . ʿ > . J1 . ʿ =4 . ʿ ; . ʿ , 78ʿ > 4<ʿ H1 ' < ; ' 6ʿ , 4ʿ > 5 < . ʿ H1 ' < ; ' 6 . ʿ . @? ' 71 . 6ʿ ? , 41ʿ ; ' 46 . ʿ > . ʿ 1 . 5 J , <8ʿ - . << . <7ʿ > . / . 41 . 1ʿ . <ʿ H1 ' < ; . ʿ . ?1>7 . <7ʿ 5 . ʿ 6 . 1 / . <7ʿ ; - =4 . %
$ʿ 55%ʿ # . 4@ʿ =4E8ʿ <>6ʿ 0 , 16ʿ >4ʿ 1 , V ' 4 / . ʿ > . ʿ ? ' 1 . <76ʿ >71 ' <J . 168ʿ 1 . 6 > . <7ʿ . <ʿ H1 ' < ; . 8ʿ > . - . << . <7ʿ ; 7 . V . <6ʿ E1 ' <J ' 6ʿ ' ?1 . 6ʿ ; <=ʿ ' <6ʿ > . ʿ > , / ; 5 . ʿ ; , <7 <4ʿ >' <6ʿ 5 . ʿ 1 , V ' 4 / . 8ʿ 6 56V , <7 . <ʿ , 471 . ʿ ' ; =4 6ʿ > . 6ʿ / / . 405 . 68ʿ , 4ʿ >? , 46>ʿ 4< . ʿ H1 ' <J ' 6 . ʿ , 4ʿ E , 1 / >ʿ 4<ʿ >7 ' 05 66 . / . <7ʿ > ' J1 ; 45741 . ʿ , 4ʿ > . ʿ ; , / / . 1 ; . 8ʿ . 7ʿ 6 56ʿ , <7ʿ ?1>7>ʿ 5 . ʿ 6 . 1 / . <7ʿ ; - =4 . %
W %ʿ . ʿ ? , 4- , 1ʿ >J 65 ' 7 Eʿ ? , 411 ' 8ʿ ? , 41ʿ > . 6ʿ ; , <6 Gʿ > . 1 ' 7 , <6ʿ / ? , 17 ' <7 . 68> , << . 1ʿ "ʿ 4<ʿ >71 ' <J . 1ʿ 4<ʿ ' ; 7 . ʿ > . ʿ < ' 741 ' 5 6 ' 7 , <8ʿ 6 ' <6ʿ ' 471 . 6 ; , <> 7 , <6ʿ =4 . ʿ > . ʿ E @ . 1ʿ 6 , <ʿ > , / ; 5 . ʿ . <ʿ H1 ' < ; . ʿ . 7ʿ > Vʿ ?1>7 . 1ʿ 5 . ʿ 6 . 1 / . <7ʿ ; M - =4 . %
$ʿ ʿ . ʿ 6 . 1 / . <7ʿ ; - =4 . ʿ . 67Nʿ $ʿ . ʿ Q41 . ʿ > . 71 . ʿ E> . ʿ \ʿ 5ʿ 5 "ʿ < ' 7 , <8ʿ 2ʿ 5 "ʿ 5 , ʿ . 7ʿ ' 4ʿ 1 , 8ʿ . 7ʿ > . ʿ / ' <7 . < 1ʿ > . ʿ %ʿ 7 , 47ʿ / , <ʿ ? , 4- , 1ʿ 5 "ʿ ; , <67 747 , <ʿ >4ʿ 1 , V ' 4 / . 8ʿ >>Gʿ Wʿ ; 1>7> . ʿ ? ' 1ʿ 66 . / 05 . ʿ < ' 7 , < ' 5 . ʿ ; , <67 74 ' <7 . ʿ ' 4 "ʿ W ' <<> . 6ʿ ( ) *8 (* ʿ . 7ʿ (* %ʿ Y
ʿ %ʿ "ʿ =4 ' 5 7>> . ʿ ; 7 , V . <ʿ E1 ' <J ' 66 . ʿ ? . 1>N
ʿ D ' 1ʿ 5 "ʿ < ' 741 ' 5 6 ' 7 , <ʿ . <ʿ ? ' V6ʿ . 71 ' <J . 1I
$ʿ CD ' 1ʿ 5 "ʿ ; , <> ' / < ' 7 , <ʿ ' 5 "ʿ ? . < . 6ʿ =4 ʿ . / ? , 1 ʿ 7 . <7ʿ 5 "ʿ > . J1 ' > ' 7 , <ʿ ; - =4 . 8ʿ 7 ' <7ʿ =4 . ʿ 5 . ʿ ; , <> ' / < . ʿ < . 67? ' 61 . : ' 0 5 7>I
W D ' 1ʿ 4<ʿ Q4J . / . <7ʿ > . ʿ ; , 474 / ' ; . 8ʿ 7 ' <7ʿ =4 . ʿ 5 . Q<J . / . <7ʿ < . 67? ' 6ʿ ' <> ' <7 Iʿ
WUDʿ ' 1ʿ ' EE 5 ' 7 ; <ʿ 2ʿ 7 , 47ʿ , 1>1 . ʿ > . ʿ ; : . - ' 5 . 1 . ʿ >71 ' <J . 1ʿ , 4ʿ "ʿ 7 , 47 . ʿ ; , 1? , 1 ' 7 , <ʿ >71 ' <J . 1 . ʿ =4 ʿ 64? ʿ ? , 6 . 1 ' 78ʿ 6 , 7ʿ > . 6ʿ ?1 . 4- . 6ʿ > . ʿ < , 05 . 66 . 8ʿ 6 , 7ʿ > . 6ʿ > 6M 7 < ; 7 , <6ʿ > . ʿ < ' 66 ' < ; . 8ʿ , 4ʿ =4 ʿ . @ J . 1 ' 7ʿ > . 6ʿ - , . 4@ 1 ; 5 J . 4@%
Wʿ %ʿ "ʿ 5 , ʿ < . ʿ ; , : 6 >>1 . ʿ H . ʿ / ' 1 ' J . ʿ =4 . ʿ ; , / / . ʿ ; . <71 ' 5ʿ ; - 5%
$ʿ . ʿ ? , 4- , 1ʿ >J 65 "ʿ 7 Eʿ >7 ' 05 1 ' 8ʿ ? , 41ʿ 7 , 46ʿ 5 . 6ʿ 0 ' < ʿ 7 ' <76ʿ 6 ' <6ʿ > 67 < ; 7 , <8ʿ 5 . ʿ / , > . ʿ ? ' 1ʿ 5 . =4 . 5ʿ 5 . 6ʿ < ' 6ʿ 6 ' < ; . % . 68ʿ / ' 1 ' J . 6ʿ . 7ʿ > . . >6ʿ 6 . 1 , <7ʿ ; , <67 ' 7 . 68ʿ . 7ʿ 5ʿ >>ʿ 6 J< . 1 "ʿ 5 . 6ʿ , E5 ; . 16ʿ ?405 ; 6ʿ =4 ʿ . <ʿ 1 . ; . -1 , <7ʿ . 7ʿ ; , <Gʿ 6 . 1- . 1 , <7ʿ 5 . 6ʿ ' . 7 . 6%
55 %ʿ . 6ʿ ; 7 , V . <6ʿ E1 ' <J ' 68ʿ ; , <6 >>1>6ʿ 6 , 46ʿ 5 . 1 ' ?1ʿ ? , 17ʿ > . 6ʿ 1 . 5 ' 7 , <6ʿ 5 , ; ' 5 . 6ʿ =4 ʿ < ' 66 . <7ʿ > . ʿ 5 . 41ʿ 1>4 ʿ < , <ʿ > ' <6ʿ 5 . 6ʿ - 55 . 6 . 7ʿ > ' <6ʿ ; . 17 ' <6ʿ ' 11 , <> 66 . / . <76ʿ >4ʿ 7 . 11 7 , 1 . ʿ > . 6ʿ ; ' / ? ' J< . 68ʿ E01 / . <7ʿ 5 . 6ʿ ; , / / ' < . 6%
$ʿ . ʿ ? , 4- , 1ʿ . J 65 ' 7 Eʿ ? , 411 "ʿ E @ . 1ʿ >7 . <>4 . ʿ > . ʿ ' 11 , <> 66 . / . <7ʿ > . ʿ ; : ' =4 . ʿ ; , / / 4< . %
$ʿ "%ʿ . 6ʿ ; 7 , V . <6ʿ =4 ʿ ; . ʿ / ? , 6 . <7ʿ ; : ' =4 . ʿ ; , / / 4< . ʿ , <7ʿ 5 . ʿ >1 , 7ʿ ' 5 1 . >ʿ 7 . / ?68ʿ 64 - ' <5ʿ 5 . 6ʿ E , 1 / . 6ʿ >>7 . 1 / <> . 6? ' 1ʿ 5 "ʿ 5 , 8ʿ ; . 4@> . <51 . ʿ . 4@ʿ =4 8ʿ 6 , 46ʿ 5 . ʿ 7 71 . ʿ > , E5 ; . 16ʿ / 4< ; ? ' 4@8ʿ 6 , <7ʿ ; : ' 1J>6ʿ > . ʿ J . 7 ; 1ʿ 5 . 6ʿ ' EE ' 1 . 6ʿ ? ' 17 ; 4 . 1 . 6ʿ > . ʿ 5ʿ 5 "ʿ ; , / / 4< . %
$ʿ ʿ ? , 411 "ʿ >71 . ʿ >>5 . J4 . ʿ ' 4@ʿ , 55 ; . 16ʿ / 4< ; ? ' 4@ʿ =4 . 5=4 . 6ʿ E , < ; 7 , <6ʿ 1 . 5 ' 7 - . 6ʿ >ʿ <7>1>7ʿ J><>1 ' 5ʿ > . ʿ H 7 ' 7%
W "%ʿ . 6ʿ 1>J5 . 6ʿ =4 . ʿ 5 . 6ʿ , EE ; . 16ʿ / 4< ; ? ' 4@ʿ 6 . 1 , <7ʿ 7 . <46ʿ > . ʿ 64 -1 . ʿ > ' <6ʿ . @ . 1 ; ; . ʿ 7 ' <7ʿ > . 6ʿ E , 77 ; 7 / 6ʿ / 4< ; ? ' 5 . 6ʿ =4 . ʿ > . ʿ ; . 55 . 6ʿ =4 ʿ 5 . 41ʿ ' 41 , <7ʿ >7>ʿ >>5>4> . 6ʿ 4 . ʿ H <7>1>7ʿ J . < . 1 ' 5ʿ ' (. * , ʿ 2 (("ʿ 4+ . ʿ ("ʿ # 6%Y

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$ʿ 17% ʿ "ʿ 6 , 4- . 1 ' < . 7>ʿ W67ʿ 4 ' . 8ʿ E5> - 6 05 . 8

, '5 , 'O5. .7 / ?1.6;1 ?7 O5W8 .55. '??'17 .<7 ''5''
<'7 ,<I '4,4<.6.;7 ,< >4 ?. ,?5.< '4;4< <> - >4
<. ?.<7 6 .< '771 O4.1 ;@.1; .%
_ 5%A '' <'7 ,<8 >. =4 6. ,5. / '<.<7 7,<6 5.6
?,<- , 168 <. ?.<7 5.6 .@.1; .1 =4. ?'1 >.57EJ'7 ,<%
W '' ;,<67 747 ,<E1'< ' 6..67 1.?1.6.<7'7 - .I 5.6
1.?1.6.<7'<76 6,<7 5. ; ,1?6 >J 65'5 E .7 5. 1, %
W 55% . ?,41, 1 . J 65'7 E .67 >.5.J4. '' <<. 6
6; / O5. .<'7 ,<'5.8 ; , / ?,6. .>.1.?1.6.<7'<76 7. /
?,1' 1.68 5 O1. / .<7 >546 ?'1 5. ?. ,?5.8 ?,41 .71.
.@.1;> ?'1 .55.8 '- .; 5'' 6'<;7 ,< >4 1, 8 >. 5'' / '
< .1.=4 6.1''>.7.1 / <>. ; '?1E.6%
$ % .J,4-.1<. / .<7 .67 / ,<'1; : =4.I 5. ?,4
- , 1.@. ;47 E.67 >.5.J4> '4 1, 8 ?,41 .71. .@.1;.8
6,46 6,< '45,1 7.8 ?'1 >.6 / < 671.6.7 '471.6 'J.<76
1.6?,<6'O5.68 >. 5'' / '< .1. =4 6.1''>>7.1 / <>. ;
'?1.6%
WV % . ?,4- , 1 Q4> ; ' 1. .67>>5>J4> Q<J.6
. 46 '' 7. / ?6 ?'1 5. ?.4?5.% \

5.1%

0, (G (&

d 17% 5.1% 66. / O . 1 '7 ,<'5. E,1 / '<7 5. ; ,1?6
>J 65'7 E.67 ?.1 / '<.<7.8 .7 < .67 ; , / ?,6>. =4. > 4<.
#O' / O1.%
W % 55. 6.1'' E,1 / >. 7,46 5.6 >.4@ '<6 ?'1 >.
<,4-.55.6 .5. ;7 ,<6%
W#: '=4. ?>1 ,>. >. >.4@ '<<>.6 E,1 / .16 4<.
5 65'741.%
W % .6 > 6?,6 7 ,<6 >. '17 ;5. ?1>;>>.<7 < '4
1,<7 ?'6 5 .< '' 1>J'1> >4 ?1, ; : ' < ; ,1?6 >J 65'5 E8
>,<7 5.6 ?,4- , 16 ;.66.1,<7 5. >.1< .1 Q,41 > '-1 5
(* %
$ % . 1.<,41.55. / .<7 ><; ,1?6 >J 65'7 E6. E.1''
>.?5. < >1, 7%
W % . ; ,1?6 >J 65'7 E<. ?,411'' >71. > 66,46 ?'1
5. 1, % $

.;7 ,< ?1. / .1.%

; E ^

d 17% W1% . <, / O1. >.6 1.?1.6.<7'<76 '4 ; ,1?6
5.J 65'7 E .67 >. 6.?7 ;.<7 =4'1'<7. ; <=8 ''1' 6,<
>.6 =4'71. - <J5 71, 6 >>?'17. / .<76 >,<7 5. 1,V'4 / .
.67 ; , / ?,6>8 .7 <>>?.<>' / / .<7 >. ;.4@ =4 ?,<1
1' .<7 >71. ' ; ; ,1>>6 ' ,@ ; ,5,< .6%
% W % .6 1.?1>6.<7'<76 6.1,<7 > 671 O<.6 .<71. 5.6
=4'71. - <J7 71, 6 >>?'15. / .<76 e .5,< 5.6 71, 6 ?1,1
?,17 ,<6 >4 7.11 7, 1.8 >. 5'' ?,?45'7 ,< .7 >. >; ,<M
71 O47 ,< > 1. ;7.%
$ % .6 6.?7 ;.<7 =4'1'<7. ; <= 1.?1>6.<7'<7688
>.4@ ;.<7=4'1'<7. 6.?7 6,<7 '77' ; : >6'4 7.11 7, 1.%
% W#: '=4. >.?'17. / .<7 .< <, / / .1'' 71, 68 .@M
;.?7 ,< >4 >.?'17. / .<7 >. '1 68 =4 @ .< <, / / .1''
=4 4<% %
W % .4@ ;.<7=4'1'<7. <.4E 1.?1>6.<7'<76 6,<7
'771 O4>6 '' 5'' ?,?45'7 ,<%
$ '' / '66. 7,7'5. >. 5'' ?,?45'7 ,< ';7 - . >4
1,V'4 / . .67 > - 6>. .< >.4@ ;.<7 =4'1'<7. 4.4E
?'1768 .7 ; : '=4. >>?'17. / .<7 <, / / . '47'<7 >. >.M
?47.6 =4 5 '' >. ?'176 >. ?,?45'7 ,<%
W % .4@ ;.<7 =4'1'<7. <.4E 1.?1>6.<7'<76 6,<7
'77' ; : .6 '' 5'' ; ,<71 O47 ,< > 1. ;7.%
W ''6, / / . 7,7'5. >. 5'' ; ,<71 O47 ,< > 1. ;7. >4
1,V'4 / . .67 >. / > / . > - 6>. .< >.4@ ;.<7%=4'1'<7.
;4E? [768 .7 ; : '=4. >>?'17. / .<7 <, / / . '47'<7 >.
>.?47.6 =4 5 ?' . > .?'176 >. ; ,<71 O47 ,<%G

.,7 ,< '' %%

, (V ;

W 17% ,41 E,1 / .1 1 66. <O5. .<'7 ,<'5. >
J 65'7 -.8 5.6 . 7,V.<6 ';7 E6 6. 1.4< 1,<7 7,46 5.6

>.4@ '<6 .< '66. / O5. .6 ?1 / ' 1.6 >7<65.6
>'<6 5.6 ; '<7,<6%
$ .6 '66. / O5>.6 ?1 / ' 1.6 6. E,1 / .1,<7 >. ?5. ''
>1, 7 5. 6. ; ,<> > / '<; : . >. / '168 6 .55.6 < ,<7 ?'6
.7> ; ,<- ,=4. .6 ?546 7>7 ?'1 5.6 E,<;7 ,<<' 1.6 ?4M
O5 ;6 >>7.11' <>6 ?'1 5'' 5, %
$ % ,41 >71. ; 7,V.< ';7 E8 5 E'45N
W 71. <> ,4 >.-.<4 H1'<; ' 6I
W 71. J. >. - <J7 ; <= '<6 ' ; ; , / ?5 6I
_ 71. >, / ; 5 > >'<6 5'' - 55. ,4 >'<6 5. ; '<7,<
>.?4 6 5. 7. / ?6 >>7.1 / <> ?'1 5'' 5, I
W 'V.18 >'<6 4< 5 .4 =4.5; ,<=4. >4 1,V'4 / .8
4<. ; ,<71 O47 ,< > 1. ;7. '4 / , <6 >J'5. '' 5'' - '5.41
>. 71, 6 Q,41<..6 >. 71' - ' 58 .7 .< 1.?1>6.<7.1 5''
=4 77'<; .I
$ >71. ?'6 >'<6 <<>7'7 >. >, / .67 ; 7>8 . .67 '
> 1. >. 6.1- 7.41 '' J'J.6I
W 71. <6;1 78 >'<6 5'' / 4< ; ?'5 7> >. 6,<>, / M
; 5.8 '4 1 5. >.6 J'1>.6 <'7 ,<'5.6I $
W - , 1 ?1>7. 5. 6.1 / .<7 ; - =4.%
W % ,46 5.6 6 @ '<68 5. ; ,1?6 >J 65'7 5 E @.1'' 5.
.7%5. >.5'' - '5.41 >. 5'' Q,41<..
>. 71' - ' 58 .7 5.6 '> / < 671'7.416 >.6 >.?'17. <.<76
.< E.1,47 5'' >>7.1 / <'7 ,4 5, ; '5. ?,41 ; : '=4. > 6M
71 ;7%
W % 45 <. ?,411'' .@.1; .1 5.6 >1, 76 >. # 7,V.<
';7 E >'<6 ?546 > 4< .<>1, 78 < 6. E' 1. 1.?1>6.<7.1
?'1 4< '471.%
W % ,<7 .@;546 >. .@.1; ; . >.6 >1, 76 >. ; 7,V.<
';7 EN
$ #.4@ = 6,<7.< >7'7 > ' ; .<6'7 ,<I
$ #.4@ =4 8 O?1.6 '- , 1 >7> ; ,<67 74>6 .< >7'7 >.
E' 55 7. ,4 > <6,5-'O 5 7>8 ?1,4-> ?'1 ? . ; .6 '47O.<
7 =4.68 <. 1'??,17.47 ?'6 4< ' ;=4 7J><>1'5 >. 5.416
;1>'<; .16%
$ % .6 '66. / O5>.6 ?1 / ' 1.6 <, / / .1,<7 >.6
>5. ;7.416 .< ?1,?,17 ,< >4 <, / O1. >.6 . 7,V.<6 ' ;
7 E6 >, / ; 5 >6 >'<6 ? - 55. ,4 >'<6 5. ; '<7,<% 8
$ 6.1'' <, / / > 4< >5. ;7.41 + 1' 6,< >. E.<7;
7,V.<6 ' ;7 E68 ?1>6.<76 ,4 <,< '' '66. / O5>.%
W< .< 6.1'' <, / / > >.4@ >.?4 6 ; .<7 ; <=4'<7. .7
4< Q46=4 '' >.4@ ; .<7 ; <=4'<7.8 .7 ' <6 >. 64 7.%
$ % 45 <. ?,411'' >71. <, / / > >5. ;7.41 6 SS <.
1>4< 7 '4@ ; ,<> 7 ,<6 <>..66' 1.6 ?,41 > 1. ; 7,V.<
';7 E8 6'- , 1N >'<6 5.6 - 55.6 '4 >.6646 >. 6 @ / 5E.
/ .68 ;.55. > >71. ?1,?1 >7' 1. ,4 <64E1457 .1 > 4<
O .< >-'54>8 641 5.6 1>5.6 >. ; ,<71 O47 ,<8 '' 4< 1.
- .<4 >J'5 '' 5'' - '5.41 5, ; '5. >. >.4@ ;.<76 Q,41<..6
>. 71' - ' 58 ,4 > >71. 5, . '7' 1. > 4<. : 'O 7'7 ,< .-'
54>.8 641 5.6 / > / .6 1>5.68 '' 4< 1.-.<4 .J'7 '' 5'' - 'M
5.41 >. ; .<7 ; <=4'<7. Q,41<..6 >. 71' - ' 5I
W '<6 5.6 - 55.6 '4 >.66,46 >. 6 @ / 55. I / E%68
;.55.> > 1. ?1,?1 >7' 1. ,4 464E14 7 .1> 4< O .< >-'M
54>8 641 5.6 1>5.6 >. ; ,<71 O47 ,<8 '' 4< 1.-.<4 >J'5
'' 5'' - '5.41 5, ; '5. >. ; .<7; <=4'<7. Q,41<>.6 >. 71'M
- ' 58 ,4 > .71. 5, . '7' 1. > 4<. : 'O 7'7 ,< >-'54>.8
641 5.6 / > / .6 1>5.68 '' 4< 1.-.<4 >J'5 '' 5'' - '5.41 >.
;.<7 Q,41<..6 >. 71' - ' 5I
$ 7 >'<6 5.6 ; ' / ?'J<.68 ;.55. > 571. ?1,?1 >7' 1.
,4 464E14 7 .1 > 4< O .< >-'54>8 641 5.6 1,5.6 >. ; ,<M
71 O47 ,<8 '' 4< 1.-.<4 >J'5 '' 5'' - '5.41 5, ; '5. >.
;.<7 ; <=4'<7. Q,41<>.6 >. 71' - ' 5 ,4 > >51. E.1 / .1
,4 / >7'V.1 >.O .<6 >-'54.68 641 5.6 / > / .6 1>5.68
5'' - '5.41 >. =4'71. ;.<76 Q,41<..6 >. 71' - ' 58
$ >J'1> >. ;.4@ =4 6.1,<7 .< / > / . 7. / ?6
?1,?1 >7' 1.6 ,4 464E14 7 .16 > 4<. ?'178 .7 5, ; '7'
1.6QE.11' .16 ,4 / >7'V.16 >. '471.8 5.416 E' ;457>6 ''
;.6 > -.16 5 71.6 6.1,<7 ;4 / 45..6Q46=4 ' '7'4@ <>
;.66' 1.?,41>7'O5 1 5.41 >5 J O 5 7>% G

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M 1 !

7; / .476.1 4 7 19<7 ,41>5 1.5.<, / 01.>.6 1.?7>
6.<7'<76>,<7P''<, / <'7 ,<6.1'' '771 047.'' ;41>
?'17. / .<78.7 4<<, / 01.>.64??5'<76 '5'4 7 .16
>.;.54 >.6 1.?1>6.7 7'<76%
d .6 '66. / 05..6 5.;7,1'7.6 6. E,1 / .1,<7 >.
?5. < >1, 7 5.>.1< .1> / '<;:. >. / '168 6 .55.6
< ,<7 ?'6 7 ;,<-,=4 .6?546 7>7 ?'1 5.6E,<;7 ,<G
<' 1.6?405 ;6>.7.1 / < 6?'15'' 5, % $
$ % .6 1.?1 6.<7'<76 .7 5.6 64??5.'<76 6,<7 57 6
'' 5'?541'5 . '06,54.>.664E51'J.68 .7<.?,411,<7
1.;:, 6 6=4.?<1 / 5.6; 7,V.<6';7 E6>4 > ?'17.
/ .<7%
$ % ,46 5.6; 7,V.<6';7 E68 =4.5=4. 6, 75.41
7'78 ?1,E.66 ,< ,4 ;,<71 047 ,<8 ?,411,<7 71.U 46
1.?1 6.<7'<76>.5''<'7 ,<%
$ % .1,<7<.'< / , <6 ,05 J 6> ,?7.1 5.6 / < 6
71.6 .7 5.6 '471.6 'J.<76 >4 ?,4-, 1 .@.;47 E1 -,
;405.6 '' -,5,<7.8 5.6 ;, / / 66' 1.6>.5'' 71 6,1.1 .
<'7 ,<'5.8 5.6?.1;.?7.416 .7 1.;.-.416>.6;,<71 04M
7 ,<6> 1.;7.68 5.6?1 ?,6 6 ''5''?.1;.?7 ,<.7 '4@1
J .6>.6;,<71 047 ,<6 <> 1.;7.6 .7>.6>, / ' <.6<'
7 ,<'4@8.7;.4@=4 8 6,46=4.5=4.> <, / <'7 ,<=4.
;.6, 78 6,<7 '77';: 6 >.6. / ?5, 6>.5'' / ' 6,< /
5 7' 1..7 >4 1, %
$ .1,<7 J'5. / .<7 7.<>6 > ,?7.1 5.6 '> / < 671'
7.4168 6,46 '> / < 671'7.4168,EK; .16 < 4< ; ?'4@ .7
;, / / '<>'<76>. J'1>.6 <'7 ,<'5.6%
$ % .@.1; ;.>.6 E,<;7 ,<6 Q4> ; ' 1.6 6.1'' <M
;, / ?'7 05. '-.; ;.55.>. 1.?1 6.<7'<7>.5''<'7 ,<
?.<>'<7 7,47.5''>41..>.5'' 5 J 65'741.%
$ .6Q4J.6 6.1,<7 1. / ?5'; 6?'15.416 6,??5 '<768
.7 5.?,4-, 1?,41-, 1''?'1>.6 01.-.76>.;, / / 6M
6 ,< '4 1. / ?5';. / .<7>.6.6 ;, / / 66' 1.6 '4?1 6
>.6 71 04<'<@%
$ % .6 / . / 01.6 >4 ;,1?6 5 J 65'7 E?,<11,<7
71. 1 46U 5'' 5 J 65'741.64 -'<7.8 .7<.?,411,07
71. .<64 7.=4 '?1 6 <7.1-'55.> 4<.5 J 65'741.%
$ % .6 1.?1 6.<7'<76 <, / / 6>'<6 5.6>.?'1
7. / .<76 <. 6.1,<7 ?'6 1.?1 6.<7'<76> 4<>.?'17.
7. / .<7?'17 ;45 .18 / ' 6 >. 5'' <'7 ,< .<7 .1.8 .7 5
<.?,411''5.41 1.>,<<.'4;4< / '<>'7% $

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<F(&

d 17% 5.1% .6 E,<;7 ,<6>.6 '66. / 05 .6?1 / ' 1.6
.7 5.;7,1'7.6 6.'0,1<.<7 '' 5 1.1 .55.6 6.6 ?'1.1,<7
'466 7 7'?1 6 5.6 5.;7 ,<6 0 7.68 .7<.?,411,<7 6.
E,1 / .1>.<,4-.'4=4.5,16=4 .55.6 6.1,<7;,<-,M
=4 .68 6;.< .67 '4;'6>. '17 ;5.5.1>.5''6.;7 ,<
8 .7>. '17 ;5. .1>.5''6.;7 ,< ; >.6646%
W % 45 ; 7,V.< ';7 E<.?.<7.<71.1< >,<<.1
6,< 64EE1'J.>'<6 4<.'66. / 05 .6 5.67 '1 / %
$ % ''E,1;.'1 / .<.?,4;1'' 1. <71,>4 7.
>'<6 <5 1 .41 6'<6 5.-..4 .@?1.6 >. '6.. / 05 .8
6;.< .67=4 ,<V;, / / 7>.6- ,5.<;.6I '4=4.5;'6
,1>1.>4 ?1 6 >.<7 645>1''?,41 '??.5.1 5''E,1;.
?405 =4.%
% ,46 5.6>.4@ '<6 5 6.1''>1.66 8>'<6;:.M
=4.> 671 ;78>.6 5 67.68 ?'1;'<7,<68>.6; 7,V.<6'';
7 568 .7 5'' 5 67.>.;:'=4.;'<7,<V 6.1''?405 . .7 'E
;0..>.4@ / , 6'-'<7 ?,=4.>. '66. / 05..?1
/ ' 1.%
W .6 1 ;5' / '7 ,<6 =4 ?,411,<7 '-, 1 5 .48 6, 7
7,41;,<7.67.15''=4'5 7.>. ; 7,V.<6. / ?5,V.6 641
'' 5 67.8 6, 7 >.5'' ?'17 >. ;.4@=4 6.?1 7.<>1,<7
, / 6 <Q467. / .<78 6.1,<7?,17 .6 '4@71 04<'<@?,41
8 1.Q4J .6 6, / / ' 1. / .<7%
$ '' 5 67.6.1-1''>. 1 J5.?,41 '> / 66 ,<>.6
; 7,V.<6>'<6 5'' ?1,;:'<.'66. / 05 .?1 / ' 1.8 .<
7,47;.=4 < '41''?'6 7.1.;7 E ?'1>.6Q4J. / .<76
1.<>46 '-'<7 5''7.<4.>. '66. / 05 .%
W % .6 '66. / 05 .6 5.;7,1'7.6 ,47 5.>1, 7>.
-.1 E .1 5'' =4'5 7 .7 5.6 ?,4-, 16>.;.4@=4 6 V
?1.6.<7.1,<7I .7 5.416> ; 6 ,<6 6.1,<7.@.;47 .6

')9,), 4 !(2 <(,8- A < 4 !(1 5) ''- 0, -.@
(,82-) 1 -.9 ,8,5.(,)! 1 ') 9), 1 1 (
W % '<6'4;4<;'6 .7 6,46 '4;4<?1 7.@7.5.1>
<'4;4<>.6 'J.<76 <, / / 6?'1 54 <.?,4 / ?1.<
>1.;,<<' 66'4;.>.6=4.67 ,<6 1.5'7 -.6 ''5'' 1.J4
5'1 7 >.6;,<-,;'7 ,<68 ''5''7.<4.>.6 '66. / 05..68
5'' E,1 / .>.6 5.;7 ,<68 < '4@>1, 76 ?,5 7=<.6>.6
; 7,V.<6I 6'<6?1.Q4> ;.>.6 E,<;7 ,<6>.6;, / / 6M
6' 1.6>4 1, > '<6 5.6;'6>.7.1 / <.6?'15''5, 8 ,5
5.6=4.67 ,<6 1.5'7 -.6 '4@>1, 76 ?,5 7=<.6>.6;M
7,V.<6>, -.<7 71.?,17 .6>'<6 5.6 71 04<'4@% \

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& 0

$ 17% 5.1% .6 1.?1 6.<7'<76 6.1 << 1,<75.?1.
/ .1 54<> >4 / , 6>. / '' 4 5 .4>.6 6.'<;.6>.:
>.1< .1.5 J 65'741.%
W %' 8) 4)!(')9,), 4 !(!. 4;-
) -, , ,1 !5 1 1) : ! 1 0 2 ') 9 ,8, -
') 9), 1 !(.!(!(
$ % .6=4 56 6.1,<7 '4<, / 01.>.71, 6 ;.<
6, @'<7. 71. 0. / . / 01.6 - 1 E .68 566.;,<67 54.
1,<7 6,46 5.7 71.> 66. / 05..<'7 ,<'5.
.55.<, / / .1''4<?1 6 >.<78 4<-;1 ?1 6 >.<7 .7>.N
6.;1 7' 1.68 .7;, / .<;.1'' .@.1; ;.>.6.6E,<;
7 ,<6%
$ % .<>'<7 7,47 5.;,416>4 / , 6>. / ' 8 6
<, / 01.>.6 1.?1 6.<7'<76 ?1.6.<76 .67'4 >.66,46>
71, 6 ;.<7 6, @'<7. 71. 0.8 66. / 05 .<.?,411
E' 1.'4;4<';7.5 J 65'7 E%
$ 55.?,411'' ?1.<>1. 4< '11 7 ?,41 .<Q, <><
' ''' / . / 6 '06.<76>.6.1.<>1.''5.416 E,<;7 ,<N
>'<6 5.>>5''>.=4 <0' <.'4 ?546 7'1>8 '' ?. <.>
8 5 -% > ' / .<>.6 56 <.?1,?,6.<7?'6 4<. .@
;46.=4 6, 7 4J ;5 J / .?'1 1 66. / 05..%
K$ 1 !, A) 1 4.,2* -*),(- ' !)4
; 1 4 4; '' !(2 ,- 5)! (,( )!(!
4;- !,(,)!.--0, -.(,9
K $ # !(.!(')!)! J)!(() !@
4;-2 . !)4 1 ' -, ,.!*., 2- 4 !(1
K9,9 -,;) 4)! , L
K - ' ( )!(! ,(,!1,9,1 - 4 !(- @
4 !(1 K4.,!(!, 1 () (- ') 9), -.5)! (,
$ 747 ,<>4 1,V'4 / .8> ;1 7 .?'1 66. / 05 .<'
W7 ,<'5. ,<67 74'<7.'4@'<< .6 ()*8 (* .5 (* I
K1 ! D ! ')')G !,5)! !(, 2 1.! - 5) 1
$ 5'' 5 J 65'741.8=/ ?4 66.V?,17.1'77.<7.8 .5>
K(/ !() (8,1 - '-.!.(,)!2 - -), (.),K
$ % .6 1.?1 6.<7'<76>.5''<'7 ,< 6,<7<- ,5'
05.6I 56 <.?,411,<7 71.1.;:.1;: 68 ';; 6 6 <Q
J 6.<'4;4<7. / ?6?,41;.=4 56 ' 1,<7> 78 .;1 7
,4 E' 7>'<6 .@.1; ;.>.5.416 E,<;7 ,<6>.1.?1.
6.<7'<76%
$ % 56?,411,<7I ?,41E' 7 ;1 / <.58 71.6' 6 6
.< E5'J1'<7> 5 78 ,4 .<-.174>4< / '<>'7>'11 7I
/ ' 6 5 .<6.1''>,<< '-68 6'<6>.5' 8 '4;,1?6 5 M
J 65'7 E8 .7 5'' ?,4164 7.<.?,411'' 71.;,<7 4;.
=4 '?1.6=4.5.;,1?6 5 J 65'7 E'41''> ;>=4 5V''
5 .4'';;46'7 ,<%$

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$ 17% 5.1% '1=V'47 . 7 <> - 6 05.8 .5
: 1 > 7' 1. / .<7 '1';.1 J<'<7.8>. / .< / 5.8
?'1 ,1>1.>.?1 / ,J < 741.8 '' .@;546 ,< ?.1?
74.55.>.6E. / / .6 .7>.5.41>.6;.<>'<;.%
& W .< < .67?1 Q4J 641 .EE.7>.6 1.4,<; '7 ,<6
>'<6 5''1';.'';74.55. / .<71 J<'<7,%P

K! '#.' ')!!'1!'), (,.9,)-.,;-' (.5 1 6
)! .4'(,(' (#' '* !
K ' '!+:' ') ,!(!' .%5 1+. () ,('1, '
,'5 – '1 '-.'-),6-.'-),'! ' ! ' * ' '. -- 2 (5'
!+ (* +.. ' !) 4 1 '-.' -),'*!/,-' ' !(F,0 ' +);1, '
.!5

K $' # '),2 6)!' .91! 4 !(.!' (1! 2)! !'
*)+,-. . ' .((,!(.' 4 .A) ,(:2' 1(' '-' !.(,)!2 !'
' !5 '1 '5) ' '- -.(,82-' 4 !(K1+ ('8,11-

$' ''5''<'7 ,<' .7'2'5''5, 8'> . / ?5,V.1'7,47'5.'?,4-, 1
$'=4 '54 '.67'>>5.J4.' '' / ' <7. 1'5''; ,<67 747 ,<'>>
$';1>7..'?'1' 66. / 05..'<'7 ,<'5.';,<67 74'<7.''4@
$''<<. .6' ()*8 (* '.7' (* 8' .7' '' E' 1.' .@.;47.15.6
K-), 'K ' V

$' '5.';,1?6'5.J 65'7 E'< .67'?'6''66. / 05.8'5.'1,'
E.1''?<05 .1',<.'?1,;5' / '7 ,<' >'<6'5'=4.55.'6.1,<7'
.@?</>6';.'6.1/.<7'.7 ''?1, / .66.'>,'5.'1. 7>1.1''46'
6 7>71 4.'5.';,1?6' >J 65'7 E'6.1'' 1>4< %

K$' ,2 !' 4),'.' %' +,!9,(.(,)!'1 '5) ' '- /0, '
-.(,82-'),!.' '. ' ; 1(5 4 !(2) ' ,2 . ' ' +)'
9),' ' ,(12,'- ' (.5(2,- .'5 ! ' . 4 ' .;1,* 1'
-.'):. (

$' %' '5.'1, '6.' / .7' ''5''7>7.'> 4<.''1/>.' .7' .<'
> 1 J.%5.6'E,1;.6';,<77.'5''<'7 ,<8' ,4'6 5'<.'6 ,??,6.'
?'68'?'1'4<' ';7.'E,1/ .58' '' 4<.'7.55#'.<71.?1 6.'=4'
6 .@. ;47.1' 7'.<'6,<'<, / 8'5'6.1'';.<6.''-, 1''0> =4>%

$' %' '5.'1, 8'>7'47'6,17'>41,V'4 / .8'< V1.<\'
71' 7'?'6''?1.6' <- 7'7 ,<'=4'54'.<'6.1''E' 7.'?'1'5.'
;,1?6'5.J 65'7 E8' .7'>'<6'5.'>>5' '=4'6.1''E @>'?'1'5''
?1,;5' / '7 ,<8'5.=4.5'<.'?,411''>71.' / , <>1.'>.'>.4@'
/ , 68' 5'6.1' 7';.<6>''-, 1''0> =4>'5''1,V' 7>%

'$' .'>.5'';, / / .<;.1'' '';, 1 1'>4'Q,41',0'5'' ?1,M
;5' / '7 ,<'>4';,1?6'5.J 65'7 E''41''>7>?405 >.'>'<6'5.'
5 .4'>.' 6.6'6.'<.68' .7'5.6' / < 671. ' 6.1,<7'7.<468'
6,46'5.41' 1.6?,<6'0 5 7>8'>.'E' 1.'7,46'5.6' ';7.6'>4'
?,4-, 1' .@>;47 E8'>,<7' .@.1; ;.6.1'646?.<>4'>'<6'
5'' / ' <'>4'1 ''06.<7%

K$--' ' '%' +.;1,5.(,)!' F' ') ' 10.- 2-'
), ' .1.!'-.'5- . 1 5,(): ! (') ' -, '.5@
5 ' (A 0 '5) 4 4 ' 72 ') ' - '.5(' ') (, G
.')!' .;1,5.(,)!

$' ''%' .6' 0 .<6'?'17 ;< .16'=4.'5.'1, '?,66.>.''
6,<''->< . / .<7'4'71><.'6,<71>4< 6 11.-,;'05. / .<7'
'5'>, / ' <.>.'5''<'7 ,<I' 5' ''5''>6?,6 7 ,<'>.';.4@'
=4 5''; =4 .17'' 5 71.' 6 <J45 .1I' 6 5' < .<' ''?'6'>6M
?,6.8' 56'6,<7'?'1. 55. / .<7'15<< 6' ''5''E<'>4'1.J<.%
' ' ''<'7 ,<'?,411, 7' ' 5''6?5.<>.41'>4'71><.'
?'1'4<.'5 67.'; - 5.8'>,<7'5.;,1?67>J 65'7 E>. 7.1/ '
<.1'' 5'' 6, / / .8' ;.'=4.';:'<J. / .<7' >.'1 J, .8'
?,41'7,47.'5''>41>.'>4'1.J<.%

$'' %' .'1, '<, / / .1'' 4<' '>/ < 671'7.41' >.'5''
5 67.'; - 5.8'=4 ' .@.1;.1'' 5.6' ';7 ,<6' 4> ; ' 1.6'>4'
1, 8'.7';.<71.'5.=4.5'7,47.6'5.]'';7 ,<6' ''5''; : '1J.'>4'
1, '6.1,<7'> 1 J..6' .7'5.6'Q4J. / .<76'?1,<,<.>6% .6'
;,<>' / <'7 ,<6' ,07.<4.6'?'1' 5.6' ;1>'<; .16'>.' 5''
5 67.'; - 5.'6.1,<7'.@>;47, 1.6;,<71.' '>/ < 671'7.41'
?.16,<<.55. / .<78' .7'641'6.6'?1,?1.6'0 .<6%

$''55%' .'1, ' '41'8' <>>?.<>' / / .<7'>.'5''J'1>.'
> : ,<<.41'=4'54'6.1''E,41< .'?'1'5.6'; 7,V.<6'J'1M
>.6' <'7 ,<'5.6'>4' 5 .4'>.'6'' 1.6 >.<;.8'4<.'J'1>.'
?'V>.'641'5.6'E,<>6'>.'5'' 5 67.'; - 5.%K 5.'<.'?,411''
.@;.>.1'5.'<, / 01.'>.'>,40.';.<76'0, / / .6' ''? .>'.7'
>.'6 @';.<76':, / / .6' ''; :.-'5%

$' .6'J1'>.6' .7'5.6'1>J5.6'> '-'<;. / .<7'V'6.1,<7'
5.6' / / .6'=4.'>'<6'5.6'71,4?.6'>.'5 J<.I' / ' 6';.4@'
=4 ' ;, / ?,6.1,<7'5'' J'1>.' >4'1, '1,45.1,<78'?,41'
7,46'5.6'J1'>.6'.@;546 -. / .<78' 641' .4@ / > / .68' .7'
<.'?,411,<7.:',07.< 1''4;4<'>'<6' '1/>.'>.'5 J<.%

$' .'1, '<.'?,411'';:, 6 1'5.6':, / / .6>.'6''J'1>.'
=4.'?'1/ ';.4@'=4'6,<7'';74.55. / .<7'.<'';7 - 7>'>.'
6.1- ;.'>'<6'5.6'71,4?.6'>.'5 J<.8' ,4'?'1/ '5.6'; '
74V.<6'=4 ',?7'E' 7'>.?4 6'4<''<'5.'6.1- ;.'>.'J'1>.6'
<'7 ,<'5.68'?,41-4'=4 56'6, .<7' 1>6 >.<76' >'<6'5.

1,V'4 / .8'.7'=< 56'' .<7'?1>.>>. / / .<7'?157>'5.'6.1M
/ .<7'; - =4.%

$' ''J'1>.'>4'1, ' <.'?,411'' >71.';, / / '<>5.'<'
1.=4 6.'?,41''4;4<''471.'6.1- ;.'?405 ;%G

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' ' &

$' 17%5.1%' .'1, '.67' / <.41'Q4 6=4 '' 7J.'>.'> @'
:< 7'36';;, / ?5 68' .7'?.<>'<7'6'' / <,1 7.' 5'V' '' 4<'
1>J.<7'>41,V'4 / .%

$' %' '' 1. J.<;.' '??'17 .<7' '4' ?'1.<7'>4'1, '5.'
?546'?1,;:.' .<'>.J1>8'64 -'<7' ,1>1.'>.' 1: .1.> 7>'
'4'71,<.8'.7 J.>.'- 1 7 ; <='<6';;, / ?5 68'?,41-4'
=4 5'6, 7'H1'<;' 6.71.J< ; 8'=4 5'<.'6, 7'?'6' :. '
1 5 .1'?1.6, / ?5 E' > 4<.''471.' ;,41, / .8'.7'=4 5' ' 7'
?1>.>' / / .<7'?1 7>'5.'6.1/ .<7'; - =4.%

' .6'E. / / .6'6,<7'.%@;54.6'>.'5''1 J.<;.%

$' %' '4<'1, ' / <.41'< '-' 7' '4;4<'?'1.<7'1>4'
< %66'<7' 5.6'=4'5 7>6'; >.6646' .@?1 / ..68' 5.'1>J.<7'
>4'1,V'4 / .'6.1'' >54'' <6''=4 5'-''5 1.'> 7''4@'17 G'
;5.6'64 -',76

$' %' .';,1?6' >J 65'7 E'<.'?,411'' .5 1.'5.'1.J.<7%
' %' .6> .;7.416'>.';:'=4.'> 671 ;7'6.'1>4< 1, ,7'
'4';:.E 5 .4'>4'> 671 ;78' > '?1>6' 4<.'?1,;5' / '7 ,<'
=4 '6.1''E' 7.'>'<6'5''?1. / .1.'6. / ' <.'>4'<,4-.'4'
1.J<.'?'1'5.' ;,1?6 5 65'7 E8'6 ' .67'1.4< I'.786 5'
.7' 7'6.?'1>8'5.'%/ < 671.'>.'5''Q467 ;.'6.1''7.<4'>.'
E' 1.';.77.'?1,;5' / '7 ,<'>'<6'5'' / > / .'6. / ' <.%

$' .6'.5.;7.416'<, / / .1,<7.<';:'=4.'> 671 ;78''4'
6.1<7 <' <> - >4.5'.7' '5'?541'7 7.'06,54.>.664EE17a'
J.68'4<' ; 7 V.<' .@ J 05.'.7'>, / ; 5 .'>'<6'5.'> 671 ;7'
'4=4.5' 56'>,<<.1,<78'?'1'5.'?1,;.6 -.10'5'>.' .5.;'
7 ,<8'4<' / '<>'7'6? '5'0,1<.' ''5'' 6.4 ^?<.7 ,''
> .5 1.'5.; 7,V.<' =4 5Q4J.1'' .<'6,<'> / .' .7';,<M
6; .<;.'5.'?546'> J4.'> .71.'1>J.<7'>4'1,V'4 / .%

$' %' .6'; 7,V.<6' / '<>'7' 1.6'4, / / >6'>'<6'5.6'
> 671 ;76'6.1,<7'7.<46'>.'6.1'66. / 05.18'>'<6'5'' - 55.'
, 5'5.';,1?6'5.J 65'7 E'7 .<>1'' 6'' 6.'<;.8'5.'=4'1'<'
7 / .'Q,41''4'?546'7'1>' ''?'17 1'>.';.54'>.' '-';<.'
<. / .<7>4'1, ' / <.41''4'71><.8.7' 56'V E,1 / .1,<7'
'66. / 05>.'.5.;7,1'7.'=4'?1,;.>.1'' ''5''<, / <'7 ,<'
>4'1>J.<7%

W 555%' >5..7 ,:'>4' <EJ.<7'6.1'' E. 7.' '4' 6;147 77'
<> >4.5'.7' ''5''?541'5 7V''06,54.>.6'64EE1'J.6%

$' ''%' 66. / 05>.'.5.;7,1'5.'<.'?,411''6 ,;;4?.1'
=4.'>.' .5.;7 ,<8' .7'6.'6.?'1.1'''466 7>7'=4.' >5.;G'
7 ,<' 6.1'' 7.1/ <..I'7,47' '471.' ';7.'=4 .55.' .<71. '
?1.<>1' 7'>.'E' 1.'.67'>>;5'1>' <;,<67 747 ,<<.5'.7'>.'%
<45'.EE.7%

''%' '66. / 05>.'>5.;7,1'5.'E.1''?1.6.<7.1'?'1'6,<'
?1.6 >.<7'5.'?1,;06 -.10'5'>.' ;7 ,<' '4';,1?6' >'
J 65'7 E8'=4 8''?106' '-, 1'-.1 E >'5''1.J45'1 7>'>.' >'
5.;7 ,<%5''E.1''?405 .1'>'<6'7,47'5.'1,V'4 / .'?'1'4<.'
?1,;5' / '7 ,<%

$' '' %' .'1>J.<7 .@.1;.8'Q46=4 ' 5'' / <,1 7>'> '
1, 8'7,47.6'5.6'E,<;7 ,<6'>.'5''1,V'<7>8' '< .67'?'6'
?.16,<<.55. / .<71.6?,<6'05.'>.6' ';7.6'>.'6,<'>/ M
< 671'7 ,<%

$' '' %' .'1>J.<7'<.'?.<7?, / / .<;.1' .@.1; ;.'>.'
6.6'E,<;7 ,<6'=4 '?1>6' '-, 1' ?1>7>' '' 5'' <'7 ,<%.<'
?1.6.<;.'>4';,1?6' >J 67'7 E%5.'6.1/ .<7'> .71.'E >>5.
d'2' '<'7 ,<8' ''5''5, ' .7''4'1, 8'> . / ?5,V.1'7,47'5.
$'?,4-, 1'>.5.J4>''4'1, 8'.7'>,<7' .@.1; ;.' <'.67
$';,<E.'?.<>''<7'5'' / <,1 7>'>,'1, 8' '' / ' <7.< 1'5'
$';,<67 747 ,<'>.;1>7>.'?'1' 1 66. / 05. <'7 ,<'5.
$';,<67 74'<7.''4@''<<..6' ()*8 (* '.7' (* 8'.7' '
$'E' 1.'.@>;47.1'5.6'5, 6%$

$' '5.';,1?6'5.J 65'7 E'< .67'?'6''66. / 0 >8'5.'1>J.<7'
E.1''?405 .1'4<.'?1,;5' / '7 ,<'>'<6'5'=4.55.'6.1,<7'
.@?1 / >6' ;.'6.1/ .<7'.7'5'' ?1, / .66.'>.'5.'1> 7.1;1%
'466 7>7'=4.'5.';,1?]' >J 65'7 E'6.1''1>4, %

d' '' %' '<7'=4.' ' & '< .67'?'6'.<71>.<'.@.1GQ
;;.'>.'6.6'E,<;7 ,<6' 5'' 6'<;7 ,<' >.6'5, 6'>.,; B'.

6 6?.<>4.I 5.6 / < 671.6 ;_\<7<<.<7>.'E' 1. 6,46 5.41 1.6?,<6'0 5 7>8 7,46 .6 ;7.6>4 ?,4-, 1.@.;47 E%
$ " 466 7#7 =4. 5. 1.J.<7 '41' ?1E 7. 5. 6.1 / .<78 5. ;,1?6 5 J 65'7 E> 7.1 / < / 6,< 71' 7. / .<78 5.=4.5 <. ?,411' >71. ;:'<J. ?.<>'<7 5' >41>. >. 5' 1.J.<;.%
W " 8 '1' 6,<>. 5' / <,1 7V > J. > '?'1.<7 '??.5 ' 5'1>J.<;.8.55. '>7. >.-,54. ' 4< ?'1.<7 ?546 5, J<.8 ,4 >.E>1>. ?'1 .5.;7 ,<8 5. 1.J.<7 =4 6.1' .<71. .< .@.1; ;. ;,<7 <4.1' 6.6 E,<;7 ,<6 Q46 =4 '5' / 'Q,1 7V >4 1, $
_" '1.J.<;. > '1,V'47<. <. ;,<E 1. '4;4< >1,_7 641 5' ?.16,<<. >4 1, / <.41%
W " 55% 'J'1>. >4 1, / <.41 6.1' ;,<E >. ' 6' / .1.8 .7 6 5 < '?'6 >. /E.1.8 ,4 6 .55. .651. / '1 >.8 '4 7. / ?6 >. 1'-.<. / .:7>. 6,< E 56 '4 71><.8 ,4 6 > . 6. 1. / '1 . ?.<>'<7 5' / <,1 7>8 5' jJ'1>. 6.1' >.E>1.. ?'7 5. ;,1?6 5.J 65' E%
W . ?.<-.<7 >71. > 46 ?,41 5' J'1>. >4 1, / M <.41 < 5. 1>J.<7.7 6.6 >.6;.<>'<76 8 < 5.6 E. / / .6%
$ " < ;'6 >. >. / .<;. >4 1, <,7, 1. / .<7 1.;,<<4.8 5.J'5. / .<7 ;,<67'7>.8 .7 >>;5'1>. ?'1 5. ;,1?6 >J 65'7 7 '?1.6 71, 6 >>5 0>1'7 ,<6 64;;.66 -. / .<7 ?1 6.6 >. / , 6.< / , 68 5 V' 5 . ' 5'
7'<7 =4. 5' >> / .<;. >41.%Y

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- % 3 9

K (#B1 ,(, ' 1) 4'(,8 ') (- !) 4 1
3

W <. ?.47 6,17 1 >4 1,V'4 / . 6'<6 4< >>;1.7 >4 ;,1?6 5.J 65' E .7 5. ;,<6.<7. / .<7 >4 1, %
5 .< .67 6,17 8 .7 6 8 >7'47 ?'1-.<4 >J. >. > @ :4 7 '<68 5 <. 1.<71. ?'6 .< H1'<;. '?1.6 '-, 1 .7> 1.=4 6 ?'1 4<. ?1, ;5' / '7 ,< >4 ;,1?6 5.J 65' E8 5 .67 ;.<6. '-, 1 'O> =4. 5. >1, 7 >. 64;;.66 ,< '4 71E <.%
W 5% '1:.1 7 .1 ?1>6, ?7 E.67 / <.418 5. ?'1.<7 / 'Q.418 ?1. / .1 '??.5> Q' 1>J.<;.8 .67 7.<4 >. 1> 6 >.1 >'<6 5. 1,V'4 / .%
W '<6 5. ;'6 , 5 5 .< 6.1' 7 6,17 .7< V 1.<71.1' 7 ?'6 641 5'1>=4 6 7 ,< >4 ;,1?6 >J 65'7 E8 5 6.1' ;.<6> '-, 1 'O> =4. 6,< >1, 7 '5' 1>J.<;.%
d ' / >1. >4 1, / <.418 'V'<7 6' J'1>.8 ,4 5. J'1> .< >54 8 6 56 6,17.<7>4 1,V'4 / .8 6,<7 >>;:46 >. 5' J'1>.%
K + 5' /E.1. >. :>1 7 .1 ?1>6, / ?7 E / <.7 1 6,1 7' 7>4 1,V'4 / .8 .55. <. ?,411' 78 / > / . '?1>6 6,< 1.7,418 '-, 1 5' J'1>. >. 6,< E 56 / <.41 >.-.<4 1, =4. ?'1 4< >>;1.7>7E ;,1?6 >J 65'7 E%
W % 5 6.1' E' 7 <. 5, ?,41 1.J5.1 >>4;'7 ,<>4 1, / <.41 .7 ;.55. >. :.1 7 .1 ?1>6, / ?7 E / <.41%
W % .6 / . / 01.6 >. 5' E' / 55. >4 1, '??.5.6 '5' 64;;.66 ,< >-.<74.55. '4 71 <. Q,4 66.<7 >.6 >1, 76 . ;7,V.< ';7 E8 / ' 6 <. 6,<7 .5 J 05.6 ' '4;4<. >.6 ?5 ;.68. / ?5,Q6 ,4 E,<;7 ,<6 =4 6, 72 5' <, / <'7 ,< >4 ?.4?5.%
$.@;.?7 ,< >.6 >>?'17. / .<76>4 / < 67E.1.8 56 6,<7 646;.?7 05.6>.6 ?5 ;.6 .7 . / ?5, 6 '5' <, / <'M 7 ,< >4 1, I <>'< / , <6 56 <. ?,411,<7 ;, / / '<>.1 .< ;:.E '4;4<. '1 / >. >. 7.11. ,4 >. / .18 < 1. / ?5 1 5.6 E,<;7 ,<6 > ' / 0'66'>.41 =4 '-.;5.;,<6.<7. / .<7 >4 ;,1?6 >J 65'7 E8 ';;,1>>6415' ?1,?,6 7 ,< >4 1, %
$ % .6 / . / 01.6 >. 5' E' / 55. >4 1, '??.5>6 '5' 64;;.66 ,< >-.<74.55. '4 71><. 'Q,47.1,<7 5' >.<, / M <'7 ,< >. ! '4 <, / =4 5.41 '41' .7> >,<<> >'<6 ';7. ; -5 ;,<67'7'<7 5.41 <' 66'<;.N .7 ;. <, / <. ?,411' >71. < ?'71,<V / =4.8 < E,1 / > > '4;4<. >.6 =4'5 E ;'7 ,<6 '0,5 .6 ?'1 5' ?1.6.<7. #,<67 747 ,<%
$ '>.<, / <'7 ,< >. <. ?,411' >71. >,< <>. ' '4;4< '471. <> - >4 .7 < . / ?,17.1' '4;4< ?1 M

-5.J. < ''4;4<. .@;.?7 ,< '< >1, 7 ;, / / 4< >. 7,46 5.6 H1'<J' 6%
W 55% .6 ';7.6 ?'1 5.6=4.76 6.1,<7 >J'5. / .<7 ;,<67'7.6 5.6 <' 66'<;.68 / '<'J.6 .7 >.;.6 >.6 ?1 <M ;.6 E1'<J' 68 6.1,<7 ?1>6.<7>6 '4 ;,1?6 >J 65'7 E8 =4 .< ,1>,<<.1' 5. >.?>7 >'<6 6.6 '1;: -.6%
555% <. 6.1' ';;,1>. '4@ / . / 01.6 >'5' E'M / 55. >4 1, '4;4< '?'<'J. 1..5%
W .6 E 56 ?4 <>6 >4 1, 1.;. -1,<78 '5 J. >. - <J7 ; <= '<6 ';;, / ?5 68 ,4 7,16 >. 5.41 / '<'J.8 4<. 1.<7. '?'<'J.1.8 5'=4.55. 6.1' E @.. ?'1 5. ;,1?6 >M J 65'7 E8 .7 E < 1' '1.@7 <;7 ,< >. 5.41 ?,67>1 7. / '6M ;45 <.% $

'3,$ * Z r

$ 17% 5.-% 4 1, 6.45 '??'17 .<<.<7 5. ;:, 1 .7 5' 1.-,;'7 ,< >.6 / < 671.6%
W .6 / . / 01.6 >. 66. / 05>. <'7 ,< 5. '; 74.55. .7>.6 5.J 65'741.6 64 1'<7.68 5.6 / . / 01.6 >4 71 04< 5 >. ;'66'7 ,<8 .7 ;.4@ =4 6.1- 1,<7 >'<6 5. :'45 Q41V8 <. ?,411,<7 5 1. ?1, / 46 '4 / < 67.1.8 < 1.;.-, 1'4;44.6?5';.68>,<68 ?.<6 ,<68 71' 7. / .<76 ,4 ;, / = 66 ,<6>4 ?,4-, 1 .@.;47 7,4 >. 6.6 'J.<768 ?.<>'<7 5' >41>. >. 5.416 E,<;7 ,<68 < ?.<>'<7 >.4@ '<6'?1>6 .< '-, 1 ;.66> .@.1; ;.%
\ .< 6.1'>. / > / . >. ;.4@ =4 6.1,<7 6.45. / .<7 <6;1 76 641 5' Q67. >4 :'45 Q41V8 ?.<>'<7 7,475; 7. / ?6 =4. >41.1' 5.41 <6;1 ?7 ,<%
W % 45 <. ?.47 .<71.1 .< .@.1; ;. > '4;4< . / ?5, 8 6, 7 >'<6 5.6 041.'4@ >4 / < 67>1.8 6, 7 >'<6 ;.4@ >.6 1>J .6 ,4 '> / < 671'7 ,<6>.6 1.-.<46 ?4M 05 ;68 < .< J><>1'5 > '4;4< . / ?5, '5' <, / <'7 ,< >4 ?,4-, 1 .@>;47 E8 6'<6 ?1>7.1 5. 6.1 / .<7 ; -=4. ,4 6'<6 Q467 E .1 =4 5 '?1>7>%
W % 4;4< ,1>1. >4 1, <. ?.47 >71. .@>;47> 6 5 5 .67 6 J<> ?'1 54 .7 ;,<71. 6 J<. ?'1 5. / < 651. ,4 ,1>,<<'7.41>4 >>?'17. / .<7%
' % .6 / < 671.6 6,<7 1.6?,<6'05.6 >. 7,46 5.6 >.5 76 ?'1 .4@ ;, / / 6 ;,<71. 5' 641.7> <'7 ,<'5. .7 5' ;,<67 747 ,<I %
W .7,47 '77.<7 7 '5' ?1,?1 >7. .7 5' 5 0.17> < > - >4.55.6I
$ .7,47. > 66 ?'7 ,< >.6 >.< .16 >.67 <.6 '4@ >> ?.<6.6 >. 5.41 >>?'17. / .<7%
$ < '4;4< ;'6 ,1>1. >4 1, 8 -. 0'5 ,4 ?'1 >;1 78 <. ?.47 6,4671' 1. 4< / < 671. '6' 1.6?,<6'0 5 7>%
W % .6 / < 671.6 6,<7 7.<46 >. ?1. 6.<7.1 ; ' = . '<<>. '4 ;,1?6 >J 65'7 E8 '1,4-.7E541. >. 5' 6.66 ,<8 5 '?.1I4 >.6 >>?.<6.6 2 '1. >'<6 5.41 >>M ?'17. / .<78 >. 1.<>1. ; , / ?5.7. . / ?5, >.66, / / .6 =4 V >7' .<7>.65 <>.68 .7> 5 = .1 5.6'046=4 '4 1' .<7 ?4 6 <71,>4 1. >'<6 5.6 > 7E>1.<7.6 ?'17 .6 >4 J,4-.1<. / .<7%
W 555% 4;4< / < 671. .< ?5 ; ., 4 :, 16 >. ?5 ;. <. ?.47 > 1. ?,4164 - .< / '7 >1. ;1 / <.55.8 ?,47 E'17 >. 6,< '> / < 671'7 ,<8 6'<6 4< >>;1.7 >4 ;,1?6 >J 65'7 E%

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.,7 ,< ?1. / >1.%

8 ! <F (&

$ 17% 5.1% ';,<67 747 ,< >> E.J4. .@;546 -. / .< '4 ;,1?6 >J 65'7 E5.6 ?,4-, 16 .7 E,<;7 ,<6; '?1.6N
W D .?1,?,6.1 .7>>;1.7.1 5.6 5, 6N 5. 1, ?.4 6.45. / .<7 <- 7.1 7. ;,1?6 >J 65'7 E ' ?1.<>1. 4< ,0Q.5 .< ;,<6 >.1'7 ,<I
WCD .E @.1 5.6 >>?.<6.6 ?<05 =4.6I
W D .7'05 1 5.6 ;,<71 047 ,<6 ?405 =4.68 > .< >.7.1 / <.1 5' <'741.8 5'=4,7 7>8 5' >4;..8 .7 5. / ,>. >. ?.1;.?7 ,< I W

_'U ' .'E' 1.'5'' 1.?'17 7 ,<>,'5'' ; ,<71 047 ,<> ' 1.;7.' .471.' 5.6 >.?'15. / .<76 >4 1,V'4 / .8 >.'641 ' -. 55.1 .1'?5, '>.'7,465.6 1.-.<46 ?405 ;6 .7 >.'6 .< E' 1.'1.<> .;, / ?7.I

' .'>>;1.7.1'7';1>'7 ,< ,4'5''64??1.66 ,<>.6 ,EE ; .6 ?405 ;6I

W9D .'>.7.1 / <.1'5.'7 71.8 5.'? , >68 . / ?1. <7.' ;7 5''>.<, / <'7 ,<>.6 / ,<<' . 6I

$ ' .'?.1 / .771.' ,4 >.'>.E.<>1.' <51,>4;7 ,< >.6 71,4?.6 . 71'<J.1.6 641'5.'7.11 7, 1.'E1'<J' 68 .7 >.6 E,1;.6 <'-'5.6 >71'4J 1.6 >'<6 5.6 ? ,176 >4 1,V'4 / .I

$)Y '67'7<.1''<<4.55. / .<78 '?1E.6 5''?1,?,6 7 ,< >4 1, 8 641'5.'<, / 01.'> : , / / .6 .7>.'-' 66.'4@>,<7 5.6'1 / >.6 >.'7.11.' .7>.' / .1'6.1,<7 ; , / ?,6..6I 641 5''6,5>.' .7 5.'<, / 01.'> <> - >46 >.' ; :'=4;'J1'>.I 641'5.6 1E.J5.6 > '> / 66 ,< .7 > '-'<;. / .<78 5.6 E,1M / .6 >.' .<1E 5.1'.<7 .7 >4 >. J'J. / . 78 5''E,1 / '7 ,< >.6 . =4 ?'J.6 >.' / .1I 641' '> / 66 ,<>.6 71,4?.6 ' >.6 E,1; .6 <'-'5.6 >71'<J 1.6 '4 6.1- ; .'>.' H1'<;.8 .7 641'5.' 71' 7. / .<7 >.6 71,4?.6 .< ;'6 >.' 5 ;.<; . / .<7I

W*D .' 7'74.1'641'1'> / < 671'7 ,<8 .7 > ,1>,< ' <.1' 'B.<'7 ,<>.6 >, / ' <.6 <'7 ,<'4@I

D . Q,4164 -1.>.-'<7 5'' :'45. ; ,<1'<'7 , ' <'5.'5'' 1.6?,<6'0 5 7> >.6 <7 < 671.6 .7 >.6 'J.<76 ?1 <; ?'4@ >4 ?,4-, 1 .@. ;47 EI

$ ';;46.1 .7>.'?,4164 '-1.'>.-'<75'' / > / .' ; ,41 ; .4@ =4 '6.1,<7 ?1.-.<46 >'77.<7'7 .7 >.' ; , / ?5,7 ; ,<71.'5''6>1.7> J><>1'5.'>.' 7'7 ,4 ; ,<71.'5'' ; ,<M 67 747 ,<I

$ D >5'0 1'5.6 5, 6 >'?1 6 5.6=4.55.6 5.6 / '1M =4.6 > : ,<<.41,4 >.; ,1'7 ,<6 ?41. / .<7 ?.16,<<.5 ' 5.6 6.1,<7 ';; ,1>>.6 '' ; .4@ =4 ' ,<7 1.<>4>.6 6.1- M ;.6 >5 5'7I

W CD .'; ,1?6 >J 65'7 E''6.45 5.'>1, 7>.'>.; .1<.1 5.6 : ,<<.416?405 ;6 ''5' / . / , 1.>.6 J1'<>6 : ,1< / .6%

$ % '' J4.11.' <.' ?.45 >71.'>.; >..'=4.'?'1'4< >. ;1.7 >4 ; ,1?6 5.J 65'7 E8 1.<>4 641'5''?1,?,6 7 ,< E,1 / .55.' .7 <.; .66' 1.'>4 1, 8 .7 6'<;7 ,<<.'?'1'54 %

$ '<6 5.6 ;'6> : ,67 5 5>6 / / <.<7.6 ,4 ; , / / .<' ;..68 > 4< '55 > ''6,47.< 1 ,<> 4< >1, 7 '' ; ,<6.1-.1 ?'1'5''E,1; .'>.6 '1 / .68 5.'1, ' .< >,4<.1'8 6'<6 '4 ' ;4< >.5' 8 5'' <,7 E ;'7 ,< '4 ; ,1?6 5.J 65'7 E8 .7 .< E.1'' ; ,<<'571.'5.6 / ,7 E.%

$ '5.' ; ,1?6 5.J 65'7 E .67 .< -';'<;.68 5.'1, '5.' ; ,<-,=4.1'' '466 7E 7%

$ '5.'; ,1?6 5.J 6 '7 E>.; >.'=4.'5''J4.11.'<.'>, -.' ?'6 71.E' 7.8 5.'1,Q ?1.<>1''641 5. ;<'1'? >.6 / .64 ' 1.6 ?,41 E' 1.';.66.1 ,4 ?1.-.< 17,4 .6 : ,67 5 7.68 5.6 / < 671.6 >. / .41'<7 1.6?,<6'05.6 >.6 >.5' 6%

$ '5.' ; ,1?6 5.J 65'7 E 1,4-.' =4.' 5.6 : ,67 5 7.6 ; , / / .<;..6 6, .<7 4<.' 'J1.66 ,< ; ,4?'05.'>.'5'' ?'17 >.6 / < 671.6 ,4 >.'=4>=4.''471.''J.<7>4 ?,4M -, 1 .@.;45 E8 '47.41'>.' 'J1.66 ,<'6.1'' ?,4164 -' ;1 / <.55. / .<7%

$.<>'<7 7,47 5.; ,41 ` >.'5''J4.11.8 5.' ; ,1?6 5.M J 65'7 E ?.47 1.=4.1 1'5.'1, '>.'<.J, ; .1'5'' ?' @8 .7 5.' 1, ' .67 7.<4 >.'>. E.1.1 '' ; .77.'1.=4 6 7 ,<%

W ' <67'<7 ,4'5''J4.11.; .66.1'8 5.' ; ,1?6 5.J 65' ' 7 E E @.16 5.'>. ''>'<6 5.=4.5 5.6 71,4?.6 . .-. .6 '4 ' >.6646 >4 ? .> >.'?' @ 6.1,<7 ; ,<J.> ..68 .7 '1 / ..' @.>4 7.' '6 ,< .7'7 ,1> <' 1.%

$ % ''??'17 .<7 '4 ; ,1?6 5.J 65'7 E >.'1'7 E .1 5.6 71' 7.6 >.'?' @8> '55 '<;.' .7 >.' ; , / / .1; .8 .7'4' ;4< 71' 7.'< '41''> .E7.7 =4.'?'1'; .77.'1'7 E ;'7 ,<%

$ % .'; ,1?6 5.J 65'7 E ''5.'>1, 7>.'>.7.1 / <.1'5.' 5 .<>.'6.6 6.'<;.68 >.'5.6 ; ,<7 <4.1''47'<5 =4 5 5.' Q4J.1''<.; .66' 1.8 .7>.' 6 'Q,41<.1I '4 ; , / / .<;.M / .<7 >.' ; ; .=4.'1E.J<.8 6 5 < .67 ?'6 1>4< 8 5 6.1'' 7.<4 >.'6.'1'66. / 05.1'6'<6 >.5' %

$ ''5.'>1, 7>.'?,5 ; .'>'<6 5.'5 .4 >.'6.6 6>'<;.6 ;7 >'<6 1.<;. <7..@7.1 ;41.=4 5 '41''>.7.1 / <. .%

$ ''5.'>1, 7>.'> 6; ?5 <.8641'6>' / . / 01.6I / ' 6

5 <.'?.47 ?1,<,<;.1'>.' ?4< 7 ,< ?546 E,17.'=4.'5'' ; .<641.8 5.6 '11>76 ?,41 : 4 7Q,4168 ,4'5''?1 6,<?,41 71, 6 Q,416%

W ''5.'>1, 7>.'> 6?,6.18 ?,41 6'' 6E 1.5> .7 ?,41 5.' / ' <7 .< >4 1.6?.; 7 =4 '54 ' .67 >E58 >.6 E,1; .6 =4 8 >.'6,< ; ,<6.<7. / .<78 6.1,<7 .7'O5 .6>'<6 5'' - 55.' ,4 5 7 .<>1''6.6 6. '<; .6%

W % .'?,4-, 1 .@>;47 E<.'?.47 E' 1.' ?'66.1 ,4 6.Q,41<.1'4;4< ; ,1?6 >.' 71,4?.6 >.' 5 J<.' >'<6 5'' > 67'<;.'>.'71.<7.' / 55. 7, 6.6 >4 ; ,1?6 5.J 65'7 E8 6' ; .'< .67 641'6''1.=4 6 7 ,< ?4 '-.;6,<'47,1 6'7 ,<%G

(,$4*' * /%

< ' ' ' ! ' '

$ 17% 5.-% 8.6 >.5 0.1'7 ,<6> 1 ; ,1?6 5.J 65'7 E6.M 1,<7 ?405 =4.68 .7 5.6 ?1, ; .6 -.10'4@ >.'6.6 6>'<;;6 6.1,<7 / ?1 / .6%

$ % .'; ,1?6 5.J 65'7 E?,411'' ; .?.<>'<58 .< 7,47; ' ,;;'6 ,<8 6.'E,1 / .1 .<;, / 7.'J.<.1'5%

$ #1<=4'<7.' / . / 01.6 '41,<7 5.'>1, 7>.' .@ J.1

W .<>'<7 5'' >41>.' >4 ; , / 7.'J.<>1'58 5.6 '66 6M 7'<76 6.'1.7 1.1,<78 5.'E'47;4 5 >4 ?1 ` >.<7 6.1''-'M ;'<78 ,1>1.'6.1'' / ' <7.<4 ?'1'5.'- ;. ?1.6 >.<7%

$ 3% 4;4<';7.'5.J 65'7 E<.'?,411''>71.'>. 0.1> .7>.;1.7.'=4.'>'<6 5''E,1 / .'64 -'<7.'N

W % 5 6.1''E' 7 71, 6 5.;741.6 >4%?1,Q.7>.'>>.1.78 ''71, 6 <7.1-'55.6 >,<7 ; : ';4< <.'?,411''>71.' / , < ' >1.'>.' : 4 7Q,416%

$ % ''> 6;466 ,< 6.1'' ,4-.17.''?1 6 ; : '=4.'5.;M 741.'I.7<.'< / , <68 '?1.6 5'' ?1. / .1.' ,4 6.; ,<>.' 5.;741.8 5.' ; ,1?6 >J 65'7 E ?,411''>>;5'1.1 =4 5 V '' 5 .4 ' >>5 0.1.1I >'<6 ;.'>.1< .1 ; 68 5.' ?1,Q.5 E5.' >. ;1.7?,411''>71.'1.?1>6.<7.'>'<6 5'' / > / .'6.66 ,<%

W ,47 ?1,Q.7>.'>.;1.7 6.1'' / ?1 / .' .7 > 671 04> '-'<7 =4.'5''6.; ,<>.'5.;741.'?4 66..< >71.'E' 7.%

$ % ?1.6 5'' 1, 6 . / .'5.;741.8 5.'?1.6 >.<7 6.1'' 7.<4>.'1, .771..< >.5 0.1'7 ,<8 .75.' ; ,1?6 >J 65'7 E >. ; >.1'' 6 5 6.'71,4-.'.< >7'7 >.'1.<>1.'4< >. ;1.7 >.E < 7 E8,4 6 5 - .47 1.<-,V.1'5''>. ; 6 ,< '4< '471.' 7. / ?68 ? ,41 1. ;4. 55 1 >.'?546 ' / ?5.6 >;5' 1; 66. ' / .<76%

$ % .'; ,1?6 5.J 65'7 E <.'?.47 >> 0>1.1'6 '5'' 6>'<;.'< .67 ; , / ?,6..'>.'>.4@ ; .<76 / . / 01.6 '4 / , <68 .7'4;4< >.;1.7 <.'6.1''E,1 / >=4.'?'1'5''?5 ' 1'5 7.''06,54.>.6 64EE1'J.6%

W 555% ,47 ?1,Q.7 >.'5, '=4 8 6,4 / 6 '5''> 6;46M 6 ,<8 '41''>7.' 1.Q.7.''?1>6 5'' 71, 6 . / .'5.;741.8 <.' ?,411''>71.'1.?1.6.<7> >'<6 5'' / > <.'6.66 ,<%

$ ''% .'?1.' / 045.'>.'7,47 >.;1.7>.E < 7 E ><,< ' ; . 1' I D5.6 >'7.6 >.6 6>'<;.6 '4@=4.55.6 5.6 71, 6 5.;741.6 >4 ?1,Q.7 '41,<7 >7.'E' 5.6I CD 5.'>.;1.7 ?'1 5.=4.5 5'41'' .7.''11>7>8 '?156 5'' 71, 6 . / .'5.;741.8 >.'>.; >.1 >.E < 7 -. / .<7%

W ''% .'1, ' 1.E46.1'' 6'' 6'<;7 ,< '4@>>.1.76 >,<7 5.'?1.' / 045.'< '77.67.1''?'6 ,06.1-'7 ,<>.6 E,1 / .6 ; >.6646I 6 ' = .5=4 4< >.' ; .6 >>.1.76 >7' 7 6'<;M 7 ,<<.8 5.6 / < 671.6 <.'?,<11,<7 5.'6; .55.1'<'5.'?1, ' / 45J4.18 .7 5.41 1.6?,<6'0 5 7> ' ; .7 >J'1> >41.1'' 6 @'<<>.6% ' %

$ '' % ,<7.@;.?7>6 >.6 > 6?,6 7 ,<6 ; >.6646 5.6 >>.1.76 1.; ,<<46 .7>.;5'1.6 41J.<76 ?'1'4<.'& $ B K 1'7 ,<?1>'7'05.'>4 . ,1?6 5.J 65'7 EI / ' 6 76 ?.4-.<7 >71.' / ,> E .6 ,4 1>-,=4>6 >'<6 5.'; ,416 >.'5'' / > <.' 6.66 ,<8

$.'>>.1.7?'1'5.=4.5 5'' / '7 >1.''41'>7> >>;5'1>.' 41J.<7.' .< ><,<; .1''5.6 / ,7 E68 .7 5 6.1''E' 7 / .<M 7 ,<>.' ; .'>>.1.7 ?1>'5'0 .'>'<6 5.'?1>' / 045.'>4 >> ' ;1.7>.E < 7 E%G

((,$ *' !

' .'E'' '

W 178 5.-% 7.6 >>;1.76 >4 ; ,1?65>J 65'7 E6,<7?<S ' 6.<7>6%'41, 8=4 ?.47 5.41'1.E46.16,<; ,<6.<7. / .<7%

_ E% '<6 5.';'6 '5.'1,' ! '6,<';,<6.<7.'
<.<78';.'1.E46'<.67=<.'646?.<6 E%
W ,16=4.'5.6'>.4@'5 65'741.6'= '64 -1,<7';.55.'
=7 ' '41'' ?1 6.<7>' 5.'>.;1.7'41,<7 64;;.66 -./.<7
1.?1.6.<76'5.' / /.'> ;1.7'>'<6'5.6' < /.6 7E 1 / .68
;'1, '6.1'';.<6 ''-, 1'>,<< 6''6'<;7 ,<%
W % .';,<6.<7.<7.<7>4'1, '.67.@?1 / 641';:''
=4.'>.;1.7?'1';.77.'E,1< / .'6 J< .'>4'1, N W .'1,'
\';,<6.<7 .7 E.1''.@.;47.1%\
W .'1.E46 646?.<6 E.67 .@?1 / '?'1';.55. ; NW .'
'1,'.@' / <.1'%
W % .'1,'.677.<4'> .@?1 / .1'6,<';,<6.<7. / .<7
%,<6,<'1.E46 641';:'=4.'> ;1.7 >'<6'5.6'>.4@' / , 6'>.'
5'' ?1 6.<7'7 ,<%
$ % ,47 >.;1.7 '<=4.5'5.'1,''%1.E46 '6,<';,<'
6.<7. / .<7<.'?.<7 54 ' .71.'1.?1.6.<76'?'1'5'' / / .'
5.J 65'741.%
$ % .6'> ;1.76'6'<;7 ,<< 6'?'1'5.'1, 8 .7';.4@'
=4'54''41,<7 7 ' ?1 6.<7 6'?'1'71, 6'5.J 65'741.6'
;,<6 ;47 -.68,<7E,1;.'>.'5, 8.7?,17.<7 .'<, /' .7
<7 45 >.')
d % .1,<7< '</,<6' .@ ;<7 6';, / /'' 5, 68
6'<6' 71.'64Q.76''5''6'<;7 ,<8'5.6';7.6'>4';,1?6'5.'
J 65'7 E;,<;.1<'<76'';,<67 747 ,<'.?'66. / 05..'> '
5 0 1'<7.I'6''?,5;.' <7 1 .41.8.7;.55.'=4 5'?,411''
.@.1;.1'>'<6' .<;. <7.'.@7.1 .41.'=4 5'41''>.7.1'
/ < .I
W '' -.1 E ;'7 ,<'>.6'?,4-, 16'>.' 6. ' / . / 01 6'
?1.6.<76I
W .6'<Q,<;7 ,<''4@' / . / 01.6''06.<76I
W '';,<-,;'7 ,<'>.6''66. / 05 .6'?1 / ' 1.6'.<'1.M
7'1>'I
$' W .@.1; ;.'>.'5'' ?,5;.';,<67 747 ,<<.55.'641'5.6'
'> / < 671'7.416'.7 641'5.6',E5 ; .16' / 4< ; ?'4@I
W .6'=4.67 ,<6'6, 5'> 5 J 0 B7.8'6, 5'>.'-'5 > 7 '
>.6'.5.;7 ,<6%
W .'6,<7?'1. 55. / .<7 64Q.76' '5''6'<;7 ,<'5.6'';'
7.6'1.5'7 E6'' 5'' 1.6?,<6'0 5 7.'>.6' / < 671.68< ' 5.6'
>.;1.76'?,17'<7 =4 'V''5 .4''';;46'7 ,<%
W 55% .6'>.;1.76'>4';,1?6'5.J 65'7 E;,<;.1<'<7
1.7'05 66. / .<78'5'' ?1,1,J'7 ,<'.7'5''?.1;.?7 ,<'>.6'
;,<71 047 ,<6'?405 =4.68?,17.1,<7'5.'<, /'.' <7 '
74 .'>.' ' 56'6.1,<7 ?1, / 45J4.6' .7 .@.;47.6'6'<6'
.71.'64Q.76''5''6'<;7 ,<8'6';.'< .67?,41'5.6'> 6?,6 M
7 ,<6'=4'.7'05 1' .<7>.6?. <.6''471.6=4.'>.6' / .<G
>.6'.7;,<71' <7.6'?. .4< ' 1.6%
W#.6'>.;1.76'<.'?,411,<7 >71.'1.<>46' =4 '?1 6'
,06.1-'7 ,<'>.6'E,1 / '5 7.6' ?1.6;1 7.6'?'1'5.6' '17 M
;5.6' 8 8 8 8 ' .7 ''>.' 5'' 6.;7 ,<' '>4'
?1.6.<7;;'? 71.I .7 5.';,1?6'5.J 65'7 E<.'?,411''V
<6.1.1''4;4<.6'> 6?,6 7 ,<6'.71'<J 1.6' '' 5.41'>0'
Q.7%' $

((,$ *'

: ' ' '(& !' ' '

W 17%5.1% ,16=4.'5.';,1?6'5.J 65'7 E.67>. <7 '
< ; 7;,<67 74.8 5'.<-, .''4'1, '4<.'>.?47'7 ,<'?,41'
11<' <6714 1.% .'1, '?.47 ;:'=7.''<<..'E' 1.' ,4'
-.1741.'>.'5''6.66 ,<8.7?1,?,6.1'5.6 ,0Q.76'=4 5';1, 7
>.-, 1'>71.'?1 6'.<';,<6 >.1'7 ,<'?.<>'<7'5.;,416>.'
;.77.' 6.66 ,<8'6'<6' <>'< / , <6' =4.';.77.' E,1 / '5 7.'
?< 66.'>71.';,<6 >.1>.';, / / .'<>..66' 1.'' ';7 - 7.'
>4';,1?6'5.J 65'7 E%
$ % ,16 ? .'5.';,1?6'5.J 65'7 E-.476 'Q,41<.1''4'
>.5''>.'=4 <0.'Q,4168 5'.677.<4'> #<'?1.-.< 1'5.'1, '
?'1'4<.'>.?47'7 ,<8''4' / , <6' :4 7Q,416'> '-'<;.%
% B4 7' <.'4' / , <6''-'<7'5''E<'>.';:'=4.'6.6M<' .6%
6 ,<8'5.';,1?6'5.J 65'7 E.<-, .''4'1, '4<.'>.?47'7 ,<'
?,41'54''<<,<;.1'5.'Q,41', 5'5'6.'?1,?,6.'>.'7.1 / M
<.1'6.6'6>'<;.6I'5.'1, '?.47-.< 1'E' 1.'5'' ;5,741.'>.'
5''6.66 ,<%
W % '5.'1, '71,4-.' / ?,17'<7 '4'0 .<'>.' 7'7
=4.'5''6.66 ,<'6, 7;,<7 <4>.8 ,4'=4.' 'Q,41<.5<.<7
< ' 7?'6'5 .48,4'=4 5'< ' 7'5 .4'=4.'?,41'4<'7. / ?6

/ , <6'5,<J8 5'?.47'';.7 .5 .7.<-,V.1'<<' / .66'J.'
641'5.=4.55.';,1?6'5. J 65'7 E .677.<4'>.'>>5 0>1.1%

((' D ? DD' DD' " 2 ' D' 4 1 = 4 D' (' 1 ' B @4' # ' %P =4

;'6'=4' '41,<7 >7>'?1>-46'.7>.7.1 / <.6'?'1'5.';,1?6'
5.J 65'7 E'-'<7>.'6 'Q,41<.;%
W % ,47.6'5.6'E, 6'=4.'5.'1, '6.'1.<>1''<' 5 .<'
>. '6.'<;.6'>4';,1?6' >J 65'7 E8 5'6.1''1.;4'.7 1.;,<M
>4 7 ?'1'4<.'>.?47'7 ,<I' 5'4.'?,411'' >71.'';;, / '
?'J<>'>'<6' <7>1 .41'>.'5''6'55.'=4.'?'1'5.'?1<;.'
1,V'5'.7?'1'5.6' / < 671.6%
W 55% '<6''4;4<';'6'5.'?1.6 >.<7<.'?,411''E' 1.'
?'17 .'> 4<.'>.?47'7 ,<%
$ 555% .';,1?6' >J 65'7 E;.66.1''> >71.';,1?6'>>'
5 0.1'<7'7'<7 =4.'5.'1, ' 6.1'' ?1.6.<7% G
$ "% .6''7.6'>.'5'';,11.6?,<>'<;.'>4'1, ''-.;'5.'
;,1?6'5.J 65'7 E6.1,<7 7,4Q,416';,<71.6 J<>6'?'1'4<%
/ < 671.%
W"% .6' / < 671.6'> '1, ''41,<7.<71>.'>'<6' 6'
6. / 05>.'<'7 ,<'5.'5.J 65'7 -.5 56'V''41,<7 4<.'?5';.'
/ '1=4>.I' 56'6.1,<7.<7.<>46'7,47.6'5.6'E, 6'=4 56'5.'
>. / '<>.1=<7 641'5.6',0Q.76'1.5'7 E6''5.41' '> / < 6M
71'7 ,<8',4'5,16=4 56'6.1,<7 1.=4 6'>.G>,<<.1>.6'
>;5'1; 66. / .<76% 6'6.1,<7>J'5. / .<7.<7.<>46'641'
5.6',0Q.76'>71'<J.16''5.41''> / < 671'7 ,<'= '<>' 6G
6. / 0>.'<'7 ,<'5.'5.41'';;,1>.1''5''?'1,5.%\

' %

' ' ' ' !

W 17%5.1% .'?,4-, 1'.@>;47 E64?>1 / .'1.6 >.'. '
;546 -. / .<7>'<6'5'' / ' <'>4'1, %
W .'1, '.67 5.';:.E64?1>/ .'>.' '> / < 671'7 ,<'
J.<>1'5.'>4'1,V'4 / .I'5.'6, <'>.-. 55.1''4' / ' <7.<'
4.' ,1>1..7>.'5''71'<=4 5 5>?405 =4.54 .67;,<E>%
W .'1, '.67'5.';:.E64?1>1'.'>.' '1 / >.'>.'7.11.'.7
>.' '1 / >;'<'-'5.%
$ 4'1, '.67 >>5>J4>'5.'6, <'>.'-. 55.1''5''6 1.7>'
.@7.1 .41.'>4'1,V'4 / .8'> .<' / ' <7.< 1'5.6'>1, 76'.7
5.6'?,66.66 ,<6%
W % .'1,'<, / / .'5.6' ' / 0'66'>.416'.7'5.6''471.6'
'J.<76'>.6'<>J,; '7 ,<6'?,5 7 =4.6%
' ' ';,<E>1.' ;';, / / '<>. / .<7 >.6''1 / >.6'.7 >.6'
E5,77.68.7'5.6'J1'>.6'>.' / '1>;:'5'>.'H1'<;.'.7>' / '
1'5%
$ '<, / / .'5.6'>.4@'7 .16'>.6';,<71. ' / 1'4@8 5''
/ ,07>' >.6'5 .47.<'<76' J><>1'4@8 / '1.;:'4@' >.'
;' / ?8;'?7' <.6'>.'-' 66.'4'.7 ;,5,<.56'>.'5''J.<M
>'1 / .1 .'<'7 ,<'5.%
W 7<, / / .'5.'7 .16'>.6';,5,<.56'.7>.6'5 .47.<'<56'
;,5,<.568.7'5.' 6 @ > / .'>.6'5 .47.<'<76'>.'-' 66.'4I
5.'7,47 .<'6.';,<E,1 / '<7 '4@'5, 6'641' '-'<;. / . 7%
W '<, / / .8'>'<6' '> / < 651'7 ,<';-5.'>.'5''/ 'M
1 <.'8'5.6' ,1>,<4'7.4168 5.6';,<71>5.4168 5.6' 71.6,'
1 .16'>.6''16.<'4@8'5.6';:.E6'>.6'71'-'4@8'6,46 ;:.E6'
>.6'0>7 / .<76; -56I'5'' / , 7>'>.6';:.E6'>'> / < 6'
71'7 ,<'.7>.6'6,46 ;:.E6'>.';,<6714;7 ,<%
$ '<, / / .'5.6'; , / / 66' 1.6' '4?1.6'>.6' 71 04 '
<'4@
W '<, / / .'5.6'?1>?,6>6' .<';:.E '4@'1>J .6'>.6'
;,<71 047 ,<6 <> 1.;7.6.7'' '> / < 671'5 ,<'>.6>, '
/ ' <.6<'7 ,<'4@%
$ '641-. 55.'5''E'01 ;'7 ,<'>.6 / ,<<' .68.7<, / / .'
5.6',EE ; .16';:'1J>6'> .@.1;.1';.77.'641-. 55'<;.'>'<6'
5'';, / / 66 ,<'J.<>1'5.'.7>'<6'5.6';,7.56'>.0' ,<'
W .EE J .'>4'1, '.67. / ?1. <7.'641'7,47.6'5.6' / ,<W%
<' .6'>4'1,V'4 / .%
W % .'1, 'E' 7>>5 -1.1'5.6'5.771.6'?'7.<7.68'01.M
-.76'.7';, / / 66 ,<6''4@'E,<;7 ,<<' 1.6'?405 ;6',4'
'471.6'=4'>, -.<7 .<'1.;.-, 1%
W % .'1, 'E' 5'>1.66.1'5'' 5 65.'>.6'?.<6 ,<6';5'
J1'7 E ;'7 ,<68?G41'>71.'?1.6.<7..''4';,1?6'5.J 65'

7 E+ ; : ' ;4<.'>.'6.6 6.66 ,<68 .7>>;1 7 .'6 5 8 +5 .4%$

.,7 , ' ?1. / 1.%

' ' & ' ' F

$ 17% W18 .'?,41, 1 .@ ;<7 E .67 .:'1J '>.'E' 1.' 6;.55.1 5.6 5, 6 >4 6;.'4'>.' 7'7 .7>.'5.6 E' 1.'?1, ' / 5J4.1%

_ ' .67 ;:' 6.'>J'5. / .<7>.'E' 1.'?1,1'45J4.1 .7 .@.;47.1 5.6 ';7.6 >4 ;,1? '5.J 65'7 E = ' < ,<7G?'6 0.6, <'>.'5'' 6'<;7 ,<'>4 1, 8

W % ' 6.1'' E' 7 >.4@ ."?>> 7 ,?6 ,1 J <'5.6 >.' ;:',4.' '7,47.6 >.4@ 6 J<..6 >4 1, 8 ;,<71.6 J<>.6 ?'1 7.' / < 671.'>.'5''Q467 ;.8 .7 6;.55>.6 >4 6;.'4'>.' 7'7%

$ 4<.'1.67.1''>>?,6>.'4@'1;: 1.6 >4 ;.' 8 .7 '471.'6.1'' 1. / 6.''4@'1;: 1.6 >4 ;,1?6 >J 65'7 E%

$ 55% ''?1, / 45J'7 ,<'>.6 5, 6 6.1'' ' <6 ';,<;4.I

W %&5.'<, / '>4 1, P ?'1 5'' J1>;.'>.' .4 .7 ?'1 5' 5, ' .,<67 747 ,<<.55.'>.' 7'7 1, '>.6 H1'<J' 68 '

$7,<6 ?1.6.<76 .7 '' 1.< 18 6' <7% 66. / 05>.'<'7 '<'5.' '' >>;1>7>8 .7 <,46 ,45,<6 .7 ,1>, ,<,<6 ;.' '=4 '64 7N

& '' ;,? .'5 77>1'5.'>4 >>;1.7 6.1'' <6>1>.'6'<6 '4 ' ;<<';:'<J. / .<7%P

W '<>,<6 .7 ,1>,<<,<6 ''7,<6 5.6 ;,1?6 '>1'

$< 671'7 E6 .7 71 04<'4@ =4.'5.6 ?1>6.<7.6 56 E'66. 7 W;,<6 J<.1 >'<6 5.416 1.J 671.68 5 1.8 ?405 .1 .7 'E' WE ;:.1 >'<6 5.416 >.?'17. / .<76 .5 1.66,176 1.6?.; $7 E68 .7 .@>;4E.1 ;, / / .' , '>4 1,V'4 / .I .<'E,'>.' W=4, ' <,46 ' -,<6 6 J<>';.6 ?1>6.<7.68 '4@=4.55.6 \<,46 '1,<6 E' 7 '??,6.1 5.'6;.'4'>.'7 7'7%$

W % '5.'1, ' .67 / <.418 5.6 5, 68 ?1,;5' / '7 ,<6 .7 '471.6 ';7.6 . / '<.6 >.' '47,1 7>'1,V'5.' ?.<>'<7 5''1>J.<;.8 6.1,<7;<<;46 ' <6 '=4 5 64 7 *

)' ;'&5.'<, / '>4 1>J.<7P8 1>J.<7 >4 1,V'4 / .8 '4 W<, / '>.' %&5.'<, / '>4 1, 58 ?'1 5'' J1>;.'>.' .4 .7 W?'1 5'' , ' .,<67 747 ,<<.55.'>.' 7'7 1, '>.6 H1'<G $'J' 68.7;%8.7;%Y

$ % .'?,41, 1 .@>;47 E.67 7.<4 > .<1,V.1 5.6 5, 6'4@ ;,1?6 '>/ : 671'7 E6 .7 '4@ 71 04<'4@8 >.']. E' 1.';.17 E .1 ;.7 .<-, 8 .7> .<'Q467 E5.1''4 ;,1?6 >G J 65'7 E%

W % .'?,41, 1 .@.;47 E<.'?.<7E' 1.''4;4<.5, 8 / > / .'?1,1 6, 1.8 / ' 6 6.45. / .<7>.6 ?1, ;5' / ''7 ,<6 ;,:E,1 / .6 '4@ 5, 68 ?,41 .<' ,1>,4<.1 ,<' .<'1'??.G 5.1 .@>;47 ,<%Y

.;7 ,<'< %

']'

17%5.1% 5V'' E5'<6;:'=4.'>.?'17. / .<74<.''>M / < 671'7 ,<6 ?.1 .41.8 .7>'<6;:'=4.'> 671 ;7 4<.' '> / < 671'7 ,<'640,1>,<<>.%

$ % .6 '> / < 671'7.416 < ,<7 '4;4<';'1';7>1.'>.' 1.?1.6.<7'7 ,<%

W 56 6,<7 >.6 'J.<76 ;546 '7. / ?6 ?'1 5.'?.,?5.8 ?,41 .@.1;.18 6,46 5'' 641-. 55'<;.' .7 H'47,1 7.'>4 1, 8 5.6E,<;7 ,<6 '> / < 671'7 -.6%

W % 56 <.'?.4V.<7 <'6 / / 6;.1 >'<6 .@.1; ;.' >4 ?,41, 1 5.J 65'7 E8 ,4 646?.<>1.'1.@>;47 ,<'>.6 5, 68 <'1 .<' .<71.?1.<>1.'641 ,1>1.'Q4> ; ' 1.8 <' 641 5.6 > 6?,6 7 ,<6 ,4 ,?.1'7 ,<6 / 5 7' 1.6%

W % .6 '> / < 671'7.416 6,<7 .66.<7 .55. / .<7% ;:'1J.6 >.'1.?' -5 1Q.6 ;,<71 047 ,<6 > 1.;7.68 .7>.' 641-; 55.1 5.6 >.< .16 ?1, .<'<7>.'7 47.6 5.6 ;,<71 M 047 ,<6 .7 1.-.<46 ?405 ;6 >'<6 5.41 7.11 7, 1.% ''?' ?'17 .<7 '4 ?,41, 1 5.J 65'7 E >.'>.7.1 / <.1 5.6 1.M J .6 .7 5.' / ,>.'>.'5.416 E4<;7 ,<68 7'<7 641 5.6 ,0Q.56 ;E >.6646 .@?1 / .6 =4.'641 7,47.6 5.6 '471.6 ?'17 .6 >.'1'> / < 6 1'7 ,<' <7.1 .41.%

$ % .'1, ''5.'>1, 7> '<<45.1 5.6 ';7.6 >.6 '> / M < 671'7.416 >.' >.?'17. / .<7 ;,<71' 1.6 '4@ 5, 6 ,4 '4@ ,1>1.6 =4 5 5.41 '41'' '>1.66. 6%

$ '?.478>'46 5.';'6 > 4<.'>.6,0. 66'<;.'?.16.-.G

S $' 51 .8j , / .''.

1'<7.8 ,4 6 % 6 ;, / ?1, / .7 .<'?'1 5.416 ';7.6 5'' 64 ' 1.7.' ,4 5'' 71'<=4 5 7.' ?405 =4.8 5.6 646?.<>1.'>.' 5.416 E4<;7 ,<6%

$ % .6 '> / < 671'7.416 >.'>.?'17. / .<7 ,<7 >,' / > / .'5.'>1, 7 > '<<45.1 5.6 ';7.6 ,;6 6,46 '> / < 6 ' 71'7.416 >.'> 671 ;7 ;,<71' 1.6 '4@ 5, 6,4 '4@ '11.716 >.6 '> / < 671'7.416>.>.?' d7. / .<78,4 '4@ ,1>1.6 =4.' ;.6 >.1< .16 5.41 '41,<7 >,<<.6 ,471'<6 / 6%

$ 56 ?.4-.<7 .J'5. / .<78 >'<6 5.6 ;'6 >'4<.'>.6, ' 0. 66'<;.'?.16.-.1'<7.>.66,46 '> / < 671'7.4168 , ' 6 ';.6 >.1< .16 ;, / ?1, / .77.<7 ?'1 5.416 ';7.6 5'' 6E ' 1.7> ,4 5'' 71'<=4 5 7.' ?405 =4.8 5.6 646?.<>1.'>& 5.416 E,<;7 ,<68 '' 5'' ;:'1J.'> .<' <6714 1.'5.'1, 8 =4 ?,411'' 5.-.1 ,4 ;,<E 1 / .1 5'' 646?.<6 ,<%

$ % .'1, '?.<78 5,16=4.'5.6 '> / < 671'7.416 >' >>?'17. / .<7 < '41,<7 ?'6 46> >4 ?,4-, 1 =4 ' 5.4 .67 >.5.J4> >'<6 H'17 >.'; >.66468 '<<45.1 > 1.;7.' / . 7 5.6 '#7.6 >.6 6,46 '> / < 671'7.4168 .7 5.6 646M ?.<>1.'>'<6 5.6 / J / .6 ;'6%

$ 55% ,47.6 5.6 E, 6 =4.'5.'1, ' '41'' ?1><,<;.' ,4 ;,<E 1 / >'5'' 646?.<6 ,<'>.6 '> / < 671'7.416 ,4 6, % '> / < 671'7.4168 5 .<' <6714 1'' 7.' ;,1?6 5 65'7 E%

W#.54 ;' ?,411'8 ,4 5.-.1 5'' 646?.<6 ,<8 ,4 :' ;,<E 1 / .18 4 / > / .'> 66, >1.'H'> / < 671'7 ,<';,4 ?'05.8 .78 6 5 V' ''5 .48 1.<-,V.1 7, 56 5.6 '> / < 671' ' 7.41.8 ,4 =4.5=4.6 4<6 > .4@8 '4@ 71 04<'4@ ;1' / <.568 ,<'?,17.1 ;.<71.'.4@5.'>. 1.7> ';;46''7 ,<%Y

3

(3,$ *'

' '

$ 17%5..% .'1, '6.45 ?.<7 .<71.7.< 1 >.6 1.5'7 ,<' ?,507 =4.6 '4'>.:,168 ;,<>4 1.'5.6 <>J,; '7 ,<68 E' 1 >.6 ?1.?'1'7 E.'>.' J4.11.'?1,?,17 ,<<>6 ';.4@ >.' 7'76 -, 6 <68 > 6E1 04.1 5.6 E,1;.6 >.'7.11.' ,4 >' / .1 ' <6 '=< 5 5.'Q4J.1'';,<-.<'05.8 .7 .<'1.J5.1 5 > 1.;7 ,<'.<';'6 >.'J4.11.%

$ 7% , 7;'>.;5'1'7 ,<'>.'J4.11.'6.1''E. 7.'.<';.' 7.1 / .6N $.'5'' ?'17 >4 1, '>.6 H1'<J' 68 '4 <, / '>' $5''<'7 ,<%\

$ % ' '??'17 .<7'4 1, ' > '11>7.1 .7 >.'6 <;' '-.;'7,47.6 5.6 ?4 66'<;.6 .71'<JE.1.6 7,46 5.6 71' 5.' >.'?' @8 > '55 '<;.'.7>.';, / / .1;.8 .7'471.6 ;,<-.< 7 ,<6 =4 5 Q4J.1''<.;.66' 1.6 '4 0 <'>.%H 7'78 6'4 5''1'7 E ;'7 ,<'>4 ;,1?6 5.J 65'7 E%\

) , '=

' '

$ 17%5.1% .'?,4-, 1 Q4> ; ' 1.'<.'?.<78 .<'< 41 ;'68 >71.'.@.1.>'?'1 5.';,1?6 >J 65'7 E <'?'1 5.'1,

$<% '' Q 67 ;.'6.1'' 1.<>4.'J1'74 7. / .<7 ?'1 >.6 Q4J.6 .546 '7. / ?6 ?'1 5.'?.4?5.8 .7 <67 74.6 ?'' 5.771.6 ?'7.<7.6 >4 1, 8 =4 '<.'?,411'' 5.6 1.E46.1%

$ 56 <.' ?,411,<7 71.'>.67 74>6 =4.'?,41 E,1E' ' 741.'>4 / .<7 Q4J>.8 <'646?.<>46 =4.'?'1 4<.'';;4M 6'7 ,<'> / 6.%

6 ';;46'7.41 ?<05 ;'6.1''<,1 / > ?'1 5.'?.4?5.%

$ % .6 71 04<'4@ <.'?.4-.<7 < 6 / / 6;.1>'<6 H.@.1; ;.>4 ?,4-, 1 >J 65'7 E,4 646?.<>1.'H.@;' ;47 ,<'>.6 5, 68 <'.<71.?1.<>1.'641 5.6 E,<;7 ,<6 '>' / < 671'7 -.6,4 ; 7.1 >.-'<7.4@5.6 '> / : 671'7.7 1S ?,41 1' 6,<'>.'5.416 E,<;7 ,<6%

$ % .6 ;7,V.<6 <.'?.4-.<7>71.'> 671' 76 >.6 Q4M J.6 =4.'5'' 5, '5.41 '66 J<.'?'1 '4;4<.';, / / 66 ,<8 <'?'1 > '471.6 '771 047 ,<6 .7 .-,;'7 ,<6 =4.';.55.6 =4 6,<7>.7.1 / <..6 ?'1 5.6 5, 6%

$ % .'>1, 7 >.6 ; 7,V.<6 >.'7.1 / <.1 >.E <7 -.' / .<7 5.416 ;,<7.67'7 ,<6 ?'1 5''-, .'>.'H'10 71'J.8 <.'?.47 1.;.-, 1 '4;4<.' '77. 777.'?'1 5.6 ';7.6 >4 ?,4-, 1 >J 67'5 E%

$ % .6 71 04<'4@ ,1> <' 1.6 <.'?.4-.<7 1.;.M -, 1 '4;4<.'';7 ,<'4 ; - 5 6'< '=4 5 5.41 6, 7Q 6B ' E >=4.'5.6 ?'17 .6 ,<7 ;, / ?'14 ,4 =4.' 5.'>. / '<

75.41'' ; 7>6'' ?'E7 .'>-.16.'>.-'<7>.6 / .> '7.4168 ?,41?'1-.< 1''4<.' ;,<; 5 '7 ,<%

W 55% 'V'41''4<,4 ?546 .416Q4J.6>.'?' 7>'7 .' 5.6;'<7,<6 .7>'<6 5.6 - 55.6I .'<, 401.'.<6.1''>.M 7.1/ <.'?'15.'?,4-, 1'5. J 65'7 E%

W '55% ''??'17 .<7'4'?,4-, 1'5. J 65'7 E>.'E>J5.1' 5.'<, / 01.' .7 5.6 '11,<> 66.1<.<76 >.6 71 04<'4@8 .7 5.'<, / 01.'>.6Q4J.6>,<7;:'=4.'71 04<'5 6.1'' ;, / M ?,6.%

W "% < / '7 E.1.';1 / <.55.' <45 ; 7,V.< <.' ?.<7 >71.'Q4J.'=4.'641'4<.''; ;46'7 ,<1.J4.'?'1>.6Q41>68 1,4>.;1.7..'?'1'5.' ;,1?6 5.J 65'7 E8>'<6 5.6 ;'6 , 7 5 54 ''??'17 .<7>.'?,4164 -1.' ';;46'7 ,<%

$?1.6 ';;46'7 ,< '> / 6.8 5.'E' 7 6.1''1.;,<<7E .7>.;5'1.'?'1>.6Q41.6%

W ';;46.' '41'' 5'' E';457> > .< 1>;756.1 Q46=4 > - <J78 6'<6>,<<.1>.6 / ,7 E6%

W .6Q41.6=4 '>.;5'1.1,<75.E' 7<.'?,411,<7E 71.' '4 >.66,46 > '<, / 01.'>.'>,40.%

W '??5 ;'7 ,<>.'5''5, '6.1''E' 7.'?'1'>.6Q4J.6%

W <6714;7 ,<6.1'' ?405 =4.8 .7 ,<<.'?,411'' 1.E46.1''4@'';;46.6 5.'6.;,416> 4<';,<6. %

W ,47 :, / / .'';=4 77.'?'1'4<Q41V' 5.J'5 <.'?.47 ?546 >71.'1.?1 6 <'';;46.''1' 6,< >4 / > / .'E' 7%

W "% 45 :, / / .'<.'?.47>71.'6' 6'=4.' ?,41>71.' ;,<>4 7 >.-'<7 ,EE ; .1'>.' ?,5 ;;Q .7 <45 <.' ?.<7 >71.' / 6 .< '11.67'7 ,<,4 >.7.<4 =4 .< -.174 > 4< / '<>'7>.6 ,EE ; .16 >.'?,5 ;.8 > 4<.' ,1>,<<'<;.'>.' ?1 6.'>.' ;,1?6 > 4< 71 04<'58 > 4<'>. ;1.7 > ';;46' ' 7 ,<>4 ;,1?6 5.J 65'7 E8>'<6 5.';'6 , 5 5 54 ''??'1M 7 .<7>.'5.?1,<,<;.18 ,4 > 4<Q4J. / .<7>.';,<>' / ' <'7 ,<''?1 6,< ,4 >.7.<7 ,<;,11.;7 ,<<.55.%

W "% ,47 :, / / .'6' 6'.7;,<>4 7 >.-'<7 ,EE ; .1' >.'?,5 ;.'6.1''.@' / <.641 5. ;:' / ? ,4 '4 ?546 5'1> >'<6 5.6 - <J7 =4'71.' :. 1.6%

W 5 1#6457.'>.' .@' / .<== 5 < V'' '4;4<64Q.7 > <;45?'7 ,<;,<71.'54 8 5 6.1''1. / 6 '466 7>7 .< 5 M 0.1 .8 ,486 5 V'' 5 .4 >.'1.<-,V.1 '5'' / ' 6.<> '1' 4 ' 5 V 6.1'';,<>4 7 >'<6 5.'?546 01.E>.5' 8 =4 8 .< '4;4<;'6 <.'?,411'' .@;.>.1 71, 6Q,416%

$ " % 45 :, / / .' '11 7.'<.'?.47 71.'1.7.<4 6 5 >,<<.';'47 ,< 6417 6'47.8 >'<6 7,46 5.6 ;'6 ,4 5'' 5, ' ?.1< .7 >.'1.67.1'5 01.'6,46;'47 ,<<. / .<7%

W " % 45 :, / / . >'<6 5.';'6 , 5 6''>.7.<7 ,< .67 '47,1 6..'?'1 5''5, ' 8 <.'?.47 E 71.' ;,<>4 7 .5 >.M 7.<4=4.'>'<6 5.6 5 .4@5.J''5.< .<7 .7 ?405 =4. / .<7 >.6 J<.6 ?,41 6.1- 1'>.' / ' 6,< > '11 78 >.'Q467 ;.',4 >.'?1 6,<%

T " % 45 J'1> .< ,4 J.>5 .1 <.'?.47 1.;.-, 1 <' 1.7.< 1' '4;4< :, / / .'=4 .< -.174 > 4< / '<>'7 8 ,1 ' >,4<'<..'>.'?1 6.'>.' ;,1?6 8 >. ;1.7 > ';;46'7 ,< ,< Q4J. / .<7 / .<7 ,4<.>',6 '17% ''; >.66468 .5 6'<6 =4.'5''71'<6;1 ?7 ,<.<' 7 .7.'E' 7.'641 6,<1.J 651.%

$% G " % ,47 J'1> .< ,4 J. 5 .1 .67 7.<4 8 6'<6 =4 '4;44 ,1>1.'?4 66.' .<> 6?.<6.18 >.'1.?1.6.<7.1' 5'' ?.16,<<.'>4 >.7.<4 '' ,E7 ; .1 ; - 5 'V'<7 5'' ?,M 5 ;.'>.'5'' / ' 6,<>.>.7.<7 ,<8 7,47.6 5.6E, 6 =4 5 .< 6.1''1.=4 6 ?'1 54 %

W ''1.?1.6.<7'7 ,<>.'5''?.16,<<.'>4 >.7.<4 <.' ?,411''>.' / . / .'971.'1.E46. .''6.6 ?'1.<76 .7 '' / 68 ?,17.416 >.' ,1>1.'>.' ,E7 ; .1 ; - 58 =4 '6.1''7,4 ' Q,416 7.<4 >.' ';;,1>.18 " / , <6 =4%. 5.'J'1> .< ,4 J.,5 .1 <.' 1.?1.6.<7.' ,<.' ,1>,<<'<;.' >4 Q4J.8 71'<6;1 7.'641 6,<1.J 671.8 ?,41 7.< 1 '11X7.''46. ' ;1.7%

$ " % ,47 :, / / .8 =4.55.' =4# 6, 5 6''?5';.',< $6,< . / ? , 8'471.=4...4@''=4'5''5, '>,<<.'5.'>1, 7 > '11.67'7 ,<8 =4 '>,<<.1'8 6 J<.1'8 .@.;47.1'' ,4 E.1'' .@.;47.1 ,1>1.'> '11.7.1 4< ; 7,V.<8 ,4 =4 ' ;,<=4.'Q / X / .'>'<6 5.';'6 > '11.67'7 ,<'47,<6>.' 5 '1'5''5, 8 ;,<>4 1'81.;.-1'',4'1.7 .<>1''4<; 7,V.< >'<6 4< 5 .4 >.'>.7.<7 ,<<,<?405 =4. / .<7 .7 . ' J'5. / .<7 >.6 J<>8 .7 7,47 J'1> .< ,4 J. 5 .1 =4 ' ;,<71.- ;4>14 '4@ > 6?,6 7 ,<6 >.6 '17 ;5.6 "E

.7 " '; .66 68 .1,:7 ;,4?'05.6 >4 ;1 / .'>.'>.M 7.<7 ,<'10 71' 1.%

$ " B% 45 :, / / .' :.'?.47 71.'1.;:.1;:.'<' ?,4164 - ' ?,41'1' 6,<>.6 .;1 76 =4 5 '41'' E' 7 / ' ?1 / .1 ,4 ?405 .1'641 =4.5=4.' / '7 .1.'=4.';.%6, 58 6 ' ;.'< .67 =4 5 ' 7 ?1,-,=4.'> >.66. < 5''>.6,0. 6 6'<;.''5''5, 8 ''- 5 66. / .<7>.6?,4-, 16;,1 67 74. 68 5'' 1.6 67'<;.''5.416';7.68 ,4 =4.5=4.6 4<;6>.6';M 7 ,<6 >.;5'1. .6;1 / .6 ,4 >> 76 ?'1 '' 4 %

'';.<641.''641 5.6 ';7.6>.6?,4-, 16;,<67 54>6 .67 ?.%1 / 6.I / ' 6 5.6 ;'5, / < .6 -,5,<7' 1.6;,<71.' 5''?1,0 7.'>.6 E,<;7 ,<<'71.6 ?405 ;6 .7 5'' >1, 7 1.' >.'5.416 <7.<7 ,<6>'<6 .@.E; ;.'>.'5.416 E,<;7 , 6 ?,411,<7 >71.'?,4164 - .6 ?'1;.4@=4 ' .< 6,<75 ,0 ' Q.5 '

W .6;'5, / < .6 .5 <Q41.6 ;,<71.' =4.5=4. '?.1 ' 6,E <.6=4.';.'6, 58 1.5'7 - .6 '4@'';7 ,<6>.'5.41 - .' ?1 ->.8 6.1,<7 ?4< .6 641 5.41 ?,4164 7.%

W " % 45 <.'?.47>71.'Q4J.8 6, 5 ?'1'5''-, .'; % - 5.8 6, 5 ?'1 5''-, .';1 / <.55.8 ?,41 E' 7 > ;;1 76 / ?1 / >6 ,4 ?405 . 68 6'<6 =4 5 ' 7>7.'1.;,<<4 .7 >>;5'1> ?'1 4<Q41V' I D 6 5 V''>>5 E>'<6 1. .1 7>. ' <,<;. I CD 6 ' 5'' ?.16,<'.'?,4164 - .' .< .67 ;,4?' ' 05.% $

W " "% 5 V'41''?,41'7,47 5.'1,V'4 / .'4<6.<7 71 M 04<'5 >.';'66'7 ,<8 .7'05 ?1.6 >4 ;,1?6 5.J 65'7 E% ' '41''?,41E,<;7 ,<6>.'?1,<,<;.1N

W 41 5.6 >. / '<>.6 .< ;'66'7 ,<;,<71.'5.6Q4J. ' 7<.<76 1.<>46 .<>.E< .1'1.66,17 ?'6 5.6 71 04<'4@

W 41 5.6 >. / '<>.6 .< 1.<-, '> 4< 71 04<'5 ''4< '471.G ?,41';'46.'>.'646; ? . / 5. J 7 / .I

W 41 5.6 1.J5. / .<76 >.'Q4J.6 .7 5.6 ?1 6.6 ''?'1 ' 7 .';,<71.'4< 71 04<'5 .<7 .1%

W " "% < / '7 >1.'>.';'66'7 ,<8 5.'71 04<'5 >.';'6M 6'7 ,<:.'?,411''Q' / ' 6 ;,<<' 71.'>4 E,<> >.6 'EE' M 1.6 I / ' 68 '?1>6 '-, 1 #'66.'5.'Q4J. / .<7 =4 ' '41'' .7;'1.<>4 641 4<.'?1; ;.>41.'>'<6 E'=4.55.' 5.6 E,1M / .6 '41,<7>7> - ,5. .68 ,4 =4 ';,<7 .<>1''4<.';,<M 71'-.<7 ,< .@?1.66.''5''5, 8 5 1.<-.11''5.'E,<>>4 ?1,;.6 '4 71 04<'5 =4 '>, 7 .<;,<<' 71.%

W " " % 5%,16=4 '?1.6 >.4@;'66'7 ,<6 5.'Q4J. / .<7 >4 71, 6 . / .' 71 04<'5 6.1'' '77'=4.' ?'1 5.6 < >< .6 / ,V.<6=4.'5.6>.4@?1. / .168 5''=4.67 ,<<.'?,411'' ?'6 >71.''J 7..''4 71 04<'5 >.';'66'7 ,< 6'<6 '-, 1 .7>6,4 / 6.''4 ;,1?6 #J 6 '7 E8 =4 '?,17.1''4<>.;1.7 >.;5'1'7, 1.'>.'5''5, 8 '4= .5 5.' 71 04<'5 >.';'66'M 7 ,<6.1''7.<4 >.'6.;,<E,1 / .1%

W " " % #0'=4.' '<<..'5.' 71 04<'5 >.' ;'66'7 ,< 6.1''7.<4 > .<-,V.1 '' 5'' 0'11.'>,' ;,1?6 5.J 65'7 E 5 <.' >.?47'7 ,< >.' :4 7 >.'6.6 / . / 01.6 8 =4 '54 ' ?1. 6.<7.1,<7 .7'7>.6Q4J. / .<7 .<>468 ''; 7>>.' ;:';4< >.6=4.56 6.1,<7 E'' <,7 ;.' '01.J..'>.' 'E' E' 1.' .7 5.'7.@7.'>.'5''5, '=4 ''41''>.7.1 / <.'5''>.;M 6 ,<%

$ " "55 % <.' :'47. ;,41 <'7 ,<'5.8 E,1 / >.'>;' / . / 01.6>4 71 04<'5 >.';'66'7 ,< .7>.' :'4567Q41.68 ;,1 <' 71''>.6 >.076 >.6 / < 671.6 #7 'J.<76 ?1 <; ' ?'4@>4 ?,4-, 1 .@>;47 E8 .7>.6;1 / .6=4 ''75'=4. ' 1,<7 5'' 641.7# J.<>1'5.' >.' 7'78 5,16=4.' 5.' ;,1?6 >J 65'7 E' '41''1.<>4 4<>.;1.7 > ';;46'7 ,<%

W 55.' <.'6;'1'66. / 05.1'' =4.'641 5''?1,;5' / '7 ,<'' >'';,1?6 5.J 65'7 E8 .7 2 4<.'> 67'<;.'>.'71.<7.' / 55.' 7, 6.6 '< / , <6>4 5 .4 , :'5''5.J 65'741.'7 .<>;''6.6 6.'<;.6%

$ " " % .6 .@?.> 7 ,<6 .@>;45, 1.6 >.6Q4J. ' / .<76>.6 71 04<'4@6.1,<7;,<J4.6' <6 =4 5 64 7N

W %&5.'<,1 ' >,'1, P8 ?'1 5'' J1>..'>.' .4 .7 ?'1 W5''5, ';,<67 747 ,<<.55.'>.' E'71, '>.6H1'<;' 68 ' $7,<6 ?1.6.<76 .7 '' -.< 18 6'547% .'71 04<'5 >.%%%%%%%% \''1.<>4 5.'Q4J. / .<7 64 -'<7

&5. ' 6.1'' ;,?.' 'Q4J. / .<78 >' '5.=4.5 5 6.1'' E' 7 / .<7 ,<>4 <, / '>.6Q4J.6%P

W '<>,<6 .7 ,1>,<<,<6 '' 7,46 :4 66 .16 641 ;;' E.=4 6>.' / .771.'5.> 7Q4J. / .<7''.@.;47 ,<I ''<,6

$; , / 66' 1.6 '??1.6 7 .6 7< 4?'B"' >'V 7.< 1'5'' V / <E .7 '' 7,?6 ; , <<?7<>'< ' .7 ,E5 ; .16 Q5.' 5'' 'E,1;?' ??05 =?.' >.'?1>7.1' / ' E,15.' 5,16=4 56 .? >6.1,<7 >J'5. / .<7 1.=4 6I .? E, ' >.' =4, ' 5.' ?1. ' W6.<7 Q4J. / .<7 '' >7>6 J<.' ?'1'5.'?1.6 >.<7 >4'71 1' W04<'5 .7 ?'1'5.' J1.EE .1$

E " " .6 E,1 ;7 ,<6 >.6 . , / / 66' 1.6 >=' 1, ' '4?1.6 >.6 71 0?<'4@ 6.1,<7 >.' 1.=4.1 1' & ,06.1-'M 7 ,< >.6 5, 6 >'<6 5.6 Q4J. / .<76 '' 1.<>1.8 .7 >.' E. 1.' .@. ;47.1'5.6Q4J.1'.<76 1.<>46

W 6 <.' 6.1,<7 ?, <7 ' .;<6'7.<16 ?405 ?68 1,' 6 566.1,<7 .<7.<>46641'7,47.6 c.6 ' ; ;46'7 ,<68 .7 1. ' =4.1 ,<78 ?.<>'<7 5.' . ,416 >.' <6714;7 ,< ?,41'5'' 1.J<5'1 7.' >.6 E,1 / .68 .7 'V'<7 5.' Q?J. / .<7 ?,41' '??5 ;'7 ,< >.'5'' 5,

8W" "V .6 ; , / Q< 66' 1.6 >4'1, ' ' ,?1E.6 >.6 71 ' 04<'4@ >.<,<; .1,<7 '4 > 1.;7.41'>4 Q41V8 6 7 > ,E ' 9;.8 6, 7 > '?1.6 5.6 ,1>1.6 =4 '5.41'6.1,<7 >,<<.6 ?'15.'1, N

Y .6 '77.<7'76 ; .<71.' 5'' 5 O.1 .' <> - >4.55.' >.6 ; 7,V.<68 ; .<71.'5'' 5 01.' . 1;<5'5 ,< >.66406 67'<; .6 .5 '471.'' ,0Q.76 >.' ; , / / .1; .8 .7 ; ,<71.'5'' ?.1; .?M 7 ,< >.6 ; ,<71 047 ,<6I 8

$ .6 >.5 76 ?'1' 5.6=4.56 1.@>;47 ,< >.6 ,1>1.6 >,<<.6 ?'1' 5.' 1, 8 >'<6 .@.1; ; .' >.6 E,<;7 ,<6 =4 ' 54 ' 6,<7 >.5>J4>.68 6.1' 7 71,405. . ' ,< . / ? ; : . . I

W .6 '77.<7'76 ; .<71.' 5.' >1, 7 >.6 J.<68 .7 5.6 1> ' O.55 ,?6 '' 1.@. .47 ,4 >.6 Q4J. / .<76 .7 >.' 7,<6 5.6 ' ;7.6 .@. ;47, 1.6 . / '<>6 >.6 ?,41, 16 ; ,<67 74>6

$ " " .' / < 6'1.' >.' 5'' Q467 ; .' >. <,<; .1'' '4 71 04<'5 >.' ; '66'7 ,<8 ?'1'5'' - , .' >4 ; , / / 66' 1.' >4 1, 8 .76'<6?1>Q4> ; .>4 >1, 7 >.6?'17 .6 <7.1.66>.68 5.6 ' ;7.6 ?'1'5.6=4.56 5. Q4J.6 '=1' .<7 .@.>>.'5.6 O,1<.6>.' 5.<1 ?,4V, 1

G .'71 04<'5 5.6 '<<45.1'I .7 6 56 >,<<.<7 5 .< '' 5'' E,1E' 741.8 5.'E' 7 6.1'' >><,<; .'4 ; ,1?6 5.J 65'7 58 =4 1.<>1'' Q.' >>;1.7 > ' ; ;46'7 ,<8 6 5 V '5 .4 8.7 1.<-.11'' 5.6 ?1.V.<46 >.-'<7 5'' O'47. 1; ,<1 <'7 , ' <'5.

B

' . ' ! *V !

W "17 5W 8 '' E,1; .' ?405 =4.' .65 <67 74>.'?,41'>>' E.<>1.' 7'7; ,<71.'5.6.<<.1' 6 ><' >. : ,168 .7 '664M 1.1' '4 >.>'<6 5.' / ' <77.< >.' ,1>1.' .7 .@>;47 ,< >;6 5, 6

W 55.' .67 ; , / ??6>.N

W .' '1 / . .'>.'7.11.' .7 >.' / .1I

W .' 5'' 71,4?. .?>; '5.1' .<7 >.67 <>.' '4 6.1- ; .' <7.1 .41I

E 7 6406 > ' 1. / .<5 >.6 ; 7,V.<6' ;7 E6 .7 >.5.416 .<E'<76 .< >7'7 >.' ?,17.1'5.6 '11, .68 <6.1 76 641' .' 1>5.' >.'5'' J'1>.' <'7 ,<'5.

' .6 J'1>.6 <'7 ,<'5.6<.'E.1 / .<7 < '4< . ,1?6 / 5 7' 1.8 < '4<.' <67 747 ,< >'<6 7'5 ' ; .' 6,<7 5.6 . 7,V.<6 .4@_/ / .6 '??.5>6'4 6.1- ; .' >.'5'' E,1; .' ?405 =4.

.6 . 7,V.<6 <.'?,411,<7 Q' / ' 6 6.' E,1 / .1' ? ' 'J 1' ; , / / .' '?1>.6 <'7 ,<'5.6 =4 .< - .174 > 5 <.' 1.=4 6 7 ,< ,< '4<.' '47?1 6'7 ,<5.J'5.

$ 56 6,<76,4 / 68 .< ; .77.' =4'5 7.8 '' 4<.' ,1J'M < 6'7 ,< >.7.1 / <. .'?'1'5'' 5,

W ' <.' ?.4- .<7 ' - , 1' >'<6 7,47 5.' 1,V'4 / .' =4 4<.' <> / .' > 6; ?5 <.' .7 4< / > / .' 4< E,1 / .

W .6 > 67 < ;7 ,<6 >.' J1'>.' .7 5'' 640,1> <'7 ,< <.' 6406 67.<7 =4.' 1.5'7 - . ?. 77 '4 6.1- ; .' .7 ?.<>'<7 6'>41. .

WV O.6 ,EE ; .16 6,<7 >54Z '' 7. / ?68 .7 <.'?.4 8-.<7 > 1.' 1>.546=< '?-.J 4< <7.1V'5 .' >.' 6.1- ; .' . [< <.' 6,5>'768

W 4 '<.' , , / / '<>.1''5''J'1>.' <'7 ,<'5.'>.'?546 > 5 < > 671 ;7

$,47.6 5.6 ?'15 .6 >.' 5'' E,1; .' ?405 =4.' . /

?5,V. .6 ?,41'5'' 6E51.7.' >.' 7'7 ; ,<71.' 5.6.<<. / 6 >4 >. : ,16 'J 1,<7 6,46 5.6 ,1>1.6 >4 1,

W 55 <;4< ; ,1?6 ,< >.7' ; : . / .<7 >.'71,4?.6 >.' 5 J<.' <.'?.<7 'J 1' >'<6 1 <7. 1 .=1' >4 1,V'4 / .' 66<6 5 <.' 1.=4 6 7 ,< 5.J'7.

G " 4;4< 'J.<7 >.' 5'' E,1; .' ?405 =4.' <.' ?.<7 ' .<71.1' >'<6 5'' / ' 6,< > << ; 7,V.< 6 ' ; .' < .67 ?,41' .@>;47 ,< >.6 / '<>. / .<76 >.' ?,5 ; .' .7 >.' Q467 ; .8 ,< >'<6 5.6 ; '6 E,1 / .55. / .<7 ?1>-46 ?'1'5'' 5,

W " '' 1>=4 6 7 ,< >.' 5'' E,1; .' ?405 =4.' >'<6 < ' 7>1 .41' >4 1,V'4 / .' '??'17 .<7 '4@ ,E ; .16 ; - 568 64 -'<7 6 1.J .6 >.7.11, <. .6 ?'1'5.' ?,4- , 1'5.J 6 ' 5'7 E

W " ' >;6 71,405.6 'J 7.<7 7,47 4< >>?'17. / .<58 5.'1, '>,<<.1''86,46 5'' 1.6?,<6'O 5 7.'>.'6.6 / < 671. 8 5.6 ,1>1.6 <. ; .66' 1.6 ?,41' .@>;45 ,< >.6 5, 6 .7 5.' 1>7'O5 66. / .<7 >.' ,1>1.8 / ' 6 '' 5'' ; : '1J.' > E.< <M E,1 / .1'5.' ; ,1?6 >J 65'7 7 6 5 .67 '66. / O5>8 .7 >.' 5.' ; ,<- ,=4.1'6 5 .67.< - ' ; '<; .6

W " '' E,1; .'?405 =4.' .67 .66.<7 .55. / .<7 ,O> 6 ' 6'<7.I <4 ' ; ,1?6 '1 / .' <.'?.47 >.5 O>1.1

W " 5558 '1 / >.'>.'7.11.' .7 >.' / .1' .7 5'' 71,4?.' >.6M 7 <>.' '' 5'' 6>1.7.' <7>1 .41.' 6,<7 6, / 6.6 '' >.6 5, 6 ?'17 ;45 .1.68 6, 7 ?,41' ' / ' <7 .< >.' 5'' > 6; ?5 <.8 6, 7?,415'E,1 / .>.6Q4J; / .<76.75'<'541;>.6?. <.6 .< 1,'7 >1.'>.' >.5 76 / 5 7' 1.6 Y

'

' ' 1

S 17 5W1 .6 ; ,<71 047 ,<6 ?405 =4.6 6.1,<7 >>' 5 O. 1>.6 .7 E @>.6 ; : '=4.' '<<.' ?'1'5.' ; ,1?6 >J 6E' ' 7 E8 ;7 <.' ?,411,<7 6406 67.1' '< >.5'' >4 >.1< .1 Q,41' >.'5'' 6.66 ,< 64 -'<7.8 6 ' .55.6 < ,<7 ?'6 .7> .@?1.66> ' 1'.<7 1.<,<-.5. .68

W ,46 '4;4< ?1>7.@5.' 5.6 E,<>6 <>. .66' 1.6 '' 1' ;=4 57. / .<7 >.' 5'' >.77.' <'7 ,<'5.' .7 '4 ?'V. / .<7 >.' 5'' 5 67.' ; - 5.' <.'?,411,<7 >71.' < '1.E 6>6 < ' 646 ' ?.<>46

$.'7- . 7. / .?7 >.6 1, < 671.6 >4 ;457.' ; '7: ,5 =<;' ?.<6 ,<<.68 ; ,<6.1-.68 > <6 ,< <, / / >6 .< - .174 >.6 >.;1.76 >.' 66. / O5>.' <'7 ,<'5.' ; ,<67 74'<7.8 E' 7 ?'17 .'>.'5'' >.77.' <'7 ,<'5.

W .' ; ,1?6 >J 65'7 E<.'?,411'8 .< '4;4< ; '68 ; : '1M J.1'5'' <'7 ,< >4 ?'V. / .<7 >.6 >.7E.6 > '4.?< ?> ' - >4

W 5E .6 ; , / ?7.6 >>7' 5 6 >.' 5'' >>?.<6.' >.6 >>' ?'17. / .<76 / < 67>1 .568 6 J<>6 .7 ; .17 E >6 ?'1' 5.]' ? < 671.6 ,4 ,1>,?<'7. 16 J><>1'4@ Q6.1,<7 1.<>46 ?405 ;6 ?'1'5'' - , .' >.' 1'?1.66 ,<8 '4 ; , / / .<; .' / .<7 >.6 6.66 ,<6 >.' ; : '=4.' >J 65'741.8

$ ' .< 6.1'' >.' / > / .' >.6 .7'76 >.'1. ; .77.' >.6 > ' - .16.6 ; ,<71 047 ,<6 .7 >.'7,<6 5.6 1.-.<46 ?405 ;6

Z .6 >7'76 >.' ; .6 >.?.<6.6 .7 1. ; .77.6 6.1,<7 > 6 ' 7 <J4.6 64 -'<7 5.41' <'741.8 .7 .@?< / .1,<7 5.6 6, / / .6 7,4; : >.6 ' .7 >.?.E 6. .68 '<<>.' ?'1' '<<. .8 >'<6 ; : '=4.' > 671 ;7

& .6>.?.<6.6 ?'17 ;45 >1.6 '' ;Q '=4.'>>?'15. / .<78 .7 1.5'7 - .6 '4@ 71 04<'<@8 '4@ ; ,1?6 '> / < 671'7 E6 .7'471.6 >7'O5 66. / .<7686.1,<7 .J'5. / .<7 1.<>4.6 ?405 =4.6

W .6 '> / < 671'7.416 >.'>>?'17. / .<7 .7 6,46 ' '> / < 671'7.416 '?,411,<7 < ' .7'O5 1' '4;4<.' ; ,<M 71 047 ,< ?405 =4.8< 'E' 1.' '4;4<.'1.?'17 7 ,< '< >.5 ' >4 7. / ?6 .7 >.6 6, / / .6 E @.6 ?'1'5.' ; ,1?6 >J 65'7 E8 < ' >.5 O>1.1' ,4 ?.1 / .771.8 6'<6 V >71.' '47,1 .6 ?'7 54 8 '4;4< . / ?14<7 5, ; '5 '5'' ; : '1J' 5.6 . 7,V.<6 >4 >. ?'17. / .<5

6 8 .'?,4- , 1' .V>.47 7 > 1 J.' .7641- . 55.5''?.1M ; .?7 ,< .7 5.' - .16. / .<7 >.6 ; ,<71 047 ,<68 .7 >,<?,' 7,46 5.6 ,1>1.6 <. ; .66' 1.6 6 ; .5 ;Q .^8 $

7 '

' 00 ' ' ' '% 0 ' ' ' '

'

%' "<'7 ,<'E1'<;' 6.'1.<,<;.' 7 .<71.?1.<>1.' '4 ' ;4<.'J4.11.'>'<6' 5'' -4.' >.' E' 1.'>.6';,<=4 7.68 .7' < . / kP , .1'Q' / ' 66.]E,1;.6;,<71.5'5 0.17.> '4;4<' ?.4?5.%

$' ";,<67 747 ,<'< '> / .7'?, <7'5.'>1, 7'> '40' <.%

W .6' 71''<J.16'.7'05 6',4'<,<' .<'H1'<;.'64;; .<7' ''5.416'?'1.<76' 71'<J.16',4'E1' /;' 6

W556'?.4V.<7';,<51';7.18'';=4.1 1'.7'1.;#-, 1'>.6' 0 .<6' 74 6' .<'H1'<;.8' .7' .<'> 6?,6.1'>.' / / .'=4.' 7,47';7,V.<E1'<;' 68' ?'1'7,46'7.6' / ?V.<6' '47,1 6>6' ?'1'5.6'5, 6%

W .6' .71'<J.16' =4 ' 6.'71,4-.<7' .<' H1'<;.' 6,<7' 6,4 / 6' '4@' / / .6'5, 6' ;1 / < .55.6' .7'>.' ?,5 ;.'=4.' 5.6' ; 7,V.<6'E1 '<J' 68 6'4E'5.6' ;,<-.<7 ,<6' '11>7..6' '-.;'5.6' ?4 66'<;.6' >71'<J.1.6I' 5.41'?.16,<<.8' 5.41' 0 .<68' 5.41' <>4671 .8' 5.41';457.'6,<7'>J'5. / .<7'?1, ' 7>J.6' ?'1 '5, %'$

' <%

' ' ' ' ' '

$' 17%' 5.1%' 66. / 05..' <'7 ,1 '5.' ; ,<67 E4'<7.' >.;5'1.'=4.'5'' <'7 ,<' '' 5.' >1, 7' / ?1.6;1 ?7 05.' >.' ;:'<J.1' 6'';,<67 747 ,<I' .7'<>'< / , <68' ;,<6 >.1'<7' =4 7' .67' ?546' ;,<E,1 / .' '' <7.1>7' <'7 ,<'5' > 46.1' 6.45. / .<78' ?'1'5.6' / ,V.<6' ?1 6' >'<6'5'' ;,<67 747 ,<' / > <.8' >4'>1, 7'> .<'1.E,1 / .1'5.6' '17 ;5.6'>,<7' .@M ?.1 .<;.' '41' 7'E' 7'6.<7 1'5.6' <;,<->< .<768' >. ;1>7.' =4 5'V 6.1''?1.;.>.8' ?'1'4<.' '66. / 05.'>.'1.- 6 ,<8' .<'5''E,1 / .'64 -'<7.N

W 7%' ,16=4.'71, 6'5.J 65'741.6';,<6 ;47 -.6' '41,<7' > / 6' 4<' -..4' 4< E,1 / .'?,41'5.;:'<J. / .<7'>#=4.5' =4.''17 ;5.';,<67 747 ,<<.58' 5'V '41''5 .4' '5''1>- 6 ,<' >. / '<>..8

W B %' '' ?1, .0' <.' 5.J 65'741.' .7'5'' 64 -'<7.' <.' ?,411,<7'?1,?,6.1'5''1>E,1 / .'> '4; /' '17 ;5.' ; ,<' 67 547 ,<<.5%' 8' \

W %' .6' 71, 6' 5. J 65'541.6' =4 ' ?,411,<7' ?'1' 5'' 64 7.'?1,?,6.1'=4.5=4.6';:'<J. / .<768' 5.6'>.4@'?1. ' / .1.64.' 6 ,;;4?.1,<7' >.' ; .7' ,0Q.7' =4.' >'E76' 5.6' >.4@'>.1< .16' / , 6' >.' 5.41'>.1< .1.'6.66 ,<8' .7' 5'' 71, 6 . / .8' ''5''E<' >.' 6'' ?1. / .1.'6.66 ,<' '<<4.55.' ,4' '4' ;, / / .<;. / .<7'>.'5''6.;,<>.%

$' .416'>.5 0>1'7 ,<6'641';.77.' / '7 E.1.'6.1,<7'6,4 ' < 6.6' '4@' / > / .6' E,1 / .6' =4.' 5.6' ';7.6' >J 65'7 E6I' / ' 6'5.6'>. .1.76' ?'1' 5.6=4.56' .55.6' '41,<7'> / 6' 5.41' -,.4' <.'6.1,<7'?'6'64Q.76' ''5''6'<;7 ,<'>4'1, %

W %' ''=4'71 . / .' >J 65'741.8' '4J / .<7..'>.'>.4@' ;.<7' =4'1'<7. <.4E' / . / 01.6' >546.<';:'=4.>>?'1' 7. / .<78' ?'1'>,405. / .<7'>4'<, / 01.' ,1> <' 1.'=4 5' E,41< 7' ?,41' 6''?,?45'7 ,<8' E,1 / .1'' '66. / 05>.'>.' 1.- 6 ,<%

$$#.6' >.4@' ;.<7' =4'1'<7. <.4E' / . / 01.6' 6.1,<7' >546' '?1.6' =4.' 5'' <, / <'7 ,<'>.6'1.?1>6.<7'<76' '4' ;,1?6' >J 65'7 E' '41'' .7'>'7.1 / <>.8' .7' 5' .<'6.1''E' 7' 4<' ?1,;.6 -.10'5' 6>?'1>%

W 66. / 0 >G' >.' 1>- 6 ,<' <.'6.1'';, / ?,6>.'=4.' > 4<.'#:' / 01.%

W %' .6' / . / 01.6' >.'5''71, 6 . / .' >J 65'741.'=4 ' '41''>. / '<>>'5.';:'<J. / .<7'<.'?,411,<7'>71.' >546' '' '66. / 05..'>.'1>- 6 ,<%

' %' .6' / . / 01.6' >.' '66. / 05>.'>.'1>- 6 ,<'$ '?1 6' '-, 1' ?1,<,<;.' 7,46' .<6. / 05.' 5.' 6.1 / .<7'>.' W - -1.'5 01.6' ,4' / ,41 18Y' ?1>7.1,<7' <> - >4.55.' / .<7';.54' ' '>.'6.' 0 ,1<.1' ''67'74.1'64'1'5.6' ,0Q.76' =4' W5.41' '41,<7' >7>'6,4 / 6' ?'1'5.'-,.4' 4< E,1 / .'>.6' W71, 6' 5.J 65'741.6' ?1..>>.<7.6I' >.' / ' <7.< 18' '4' W641?5468'>.'7,47' 5.41' ?,4-, 18' 5'' ;,<67 747 ,<' >4' $'1,V'< / #'>>.1>7..' ?'1' 66. / 05>.' <'7 ,<'56';,<' W67 74'<7.' '4@' '<<..6' ()*8' (*E5' .7' (* 8' .7'> .71.' W .<'7,47' E >.5.6' ''5'' <'7 ,<8' '' 5''5, ' .7' '4'1, %'$

W 5 % '66. / 05>.'>.'1>- 6 ,<'6.1''7.<4.'>.'6 , ' ;4?.1' .<64 7.8' .76'<6' >.5' 8>;6' ,0Q.76' =4 ' '41,<7' . .'6,4 / 6' ''6,<' .@' / .<I' '466 747' =4.' 6,<' 71'-' 5' 6.1''7.1 / <>85.6' >.4@';.<7' =4'1'<7. <.4E' / . / 01.6' <, / ' / .6' .<' '4J / .<76'7 ,<'6.'1.7 1.1,<78' 6'<6' ?,4'-, 1' ?1.<>1.'?'178' .<' '4;4<';'68' '4@' ';7.6' 5.J 65'7 E6%G

' .6' ;,5,< .6' .7' ?,66.66 ,<6' E1'<?' 6.6' >'<6' 6 .8' ' E1 =4.' .7' / #1 =4.8' =4, =' . 5.6' E'66.<7' ?'17 .' >.' . / ' ? 1.E1'<;' 68' <.'6J<7' ?'6';, / ?1 6.6' >'<6'5'' ?1#6.<7.';,<M 67 747 ,<%' \

' 4;4<' >.6' ?,4-, 16' <67 74 6' ?'1' 5'';,<67 747 ,<'< ''5.' >1, 7' >.' 5'' ;:'<J.1' >'<6' 6,<' .<6. / 05.' <' >'<6' 6.6' ?'15 .68 ' 6'4E'5.6' 1.E,1 / .6' =4 ' ?,411,<7' V' #71.' E' 7.6' ?'1' 5'' -,5.'>.' 5''1.- 6 ,<8' ;,<E,1 / . / .<7' '4@'> 6?,6 7 ,<6' >4' 7 71.' ' ;5' >.6646%' d

' 66. / 05..' <'7 ,<'5.' ;,<67 74'<7.' .<' 1. / .7'5.'>.?>5' ' 5'' * & >4' ;,1?6' 5.J 65'7 E8' >4' ' .7'>.6'Q4J.68' ' 5'' - J M 5'<;.'>.6' ?#1.6'>.' E' / 55.8' '4@'>?,46.6' .7' '4@' / .1.68' '' 'E' E.;7 ,<'>.6' Q.4<.6' ; 7,V.<68' '4' ;,41'J.' >.'7,46' 5.6' H1'<' #' 6%

W .6' >.;1.76' 1.<>46' ?'1 66. / 0 ..' <'7 ,<'5.' ;,<67 M 74'<7.8' =4 '<.'6,<7' ?'6';, / ?1 6' >'<6' E';7.'>.' ;,<67 545 ,<8' 6.1,<7' .@.;47.6' ;, / / .'5, 6I' .7' 5.6' 5, 6' '<7.1 .41.6' '4@' =4.55;6' .55.' < ''?'6' >.1,J.'6.1,<7' .J'5. / .<7' ,06.1-..6' 7'<7' =4.'5.6' 4<6' ,4' 5.6' '471.6' < '41,<7' ?'6' .7.'1.-,=4.6' ,4' / ,M > E .6' ?'1'5.'?,4-, 1'5 65'7 E%

7' J<.' ! ' 5' ,,, <<8' 88 ' *) ' #4 8' . ' 1 ' ' >' ' ' ' F ' ' $ I

' ' ' (* %

7' 66. / 05..' <'7 ,<'5.' 'V'<7' .<7.<>4'5''5.;741.'>.'E';7'' ;,<67 747 ,<<.5' ; >.66468' .7' '?1#6' E'-, 1' '??1,4-.8' A' ; '1.' =4.' 5'';,<67 747 ,<' .67' 7.1 / <..8' .7' =4 .55.'<.'?.<78' 1 .<';:'<J.1%

W ' 6.1''<, / / .' '' <67'<7' 4<.'>.?47'7 ,<'>.' 6, @'<7.' / . / 01.6' ?,41' ,EE1 18' >'<6'5.'Q,418' E';7.';,<67 7455,<<.5' '4' 1, %' 8

W J<.' ! ' 5' 5 ' #, 8' *) ' *' 1 ' ' HA' ' ' ' F ' '

%

+*3$(*' ('3 *,$(*,/\' +' $,(' -(' 3,(' 3 ',$ *!' ,$ **(/ ,. $'' - 3 (* 'E !C1' $+'-.(''+*,(.$(.((*,' ;' Q !' (''+9(' -*'. $' '$ ''( ) ((' *+,$ *+ (/' 4 .' #'+33(4,+,$ *' -(' +'3 *',$, ,$ */' 4+9(' '7WK' (' - '3 .'' - '. $' +' +''(+*3(' ' ''(4,( ).(' / W ((,' I' +' .(4 *'(' #' 4.('$-(,-+' 66. / 0E..'>;.'> 6;,4168' ?'J.' 99 %

_ 3 !! 3 ? 3

DC9 % 5 (+ (* % "

3 %

9 %

$!

G 7 G 8 L

<<.?'15.';74.55. / .<7 =4.>. .<71.-4.>.5 . / ?.1.41
.7 >4 1, >. 1466. 5< 708 ;:.0 > .;5.41>. '@.8 .7
,<6.74. 7>.-<.1 ,00.7>. ;.75.;, ,E.1.<;.?,57 =4.%
,<E' 7 '77.<7 ,< '4@ ?.16,<<'J.6 =4 ,<7 ?'14 ..
;:'7.'48 5 <G.]7 ?546 >,47.4@ =4 5< ' 7 7> =4.67 ,<>.
>-.16 , >1 76 > 4<. :'47. / ?,17'<;.l =4. 5.6 ;'0<.76
>. .<<. .7 >. K.15 <<. ;0.1;0.<7 0 6.1'??1 ;0.1 .<7 0G
1. / ..,78 .7 0 @.18 > 4< ;, / / 4< ';;,1>8 5.416 < 1 76 1.G
6?.;7 E6l =4. 05.;7.41>. '@.< V ?1.<<. 4<.?'17 ';7 -.8
7'<7 ?'1 1'??,17 0 6.6 ?,66.66 ,<6 ';74.55.6 =4. ?'1 1'?M
?,17 0 5" ,5,J<.8 >,<7 5. 71><.54 " (!! '-.<74.5 .G
/ .<7l .<E <8 =4 ,< < V ' 7 >. 0.1> .7 ?1 6 =4.5=4.?'17
-.<74.5 1.5'7 1. / .47 '4@ 'EE' 1.6 >. H1'<;.8 6 ; . < .67>.
?1, !7.1 >.6 ;,<0,<;741.6 '.7<. 5.6 ?,41 ?'1-.< 1 0 5.41
<47 ?1 <; ?'57 ; .67 ;. 047 =4 E'47>0 / 05.1 ?,41 ?'1-.M
< 1 '5" -.1 7.% < ;,<<'57>.?4 65,<J7. / ?6 5. ?1>0.7>. 5"
;,41 >. .<<.l '<; .<<. / .<7 . . <. ;0.1;0' 7 =4 0
'J1',> 1 6.6 ?,66.66 ,<68 =4 0 ?,17.1 5, < 07.<>4. >. 6"
>, / <'7 ,<l ?'1-.<4. '4 >.J1> >. ?4 66'<;. '4=4.5 .55.
\?,4-' 7 ?1>7.<>1.8 .55. >11 J. " ;,<67' / / .<7 7,47.6 6.6
-4.6 05 '11,<> 66. / .<7 >. 6.6 7'768 0 5" ;,<;.<71'7 ,<>.
6" E,1;.?,57 =4.% #. ?5'< E' 7 ,00.5%;001 >. 6,< ' / 0 M
7 ,<8 .7 .55. <. '0'<>,<<.1" =4. =4'4> 5 6.1" ?'1E' 7.
/ .<71. / ?5 % <6' 5 =4. 5' / ' 6,< &E ,71 ;.. ;,<-, 7.5"
?,66.66 ,<>. 5" K'- .1.8 ;.?'V6 -, 6 <>.6.6 7'768 -'67.
.71 ;:. .<7 47. 6,17.>. ?1,>4;7 ,<68 7.11. - .1J.8 ?,41
'<6 > 1.8 ,EE1'<7 4<. / / .<6. / , 66,< .<7,47 J.<1.%
,46 5. 10J<.>. ,6.?: .55. 07' 7 641 5.?, <7 >. '-, 1l
7,47.6 5.6 <>J, ;'5 ,<6 >>;:'<J.6 >5' .<7 7.1 / <..6 '-.;
.5.;7.41 ?'5'7 <>. K'- 01.l 5<. / '<=4' 7 ?546 0 5";,<
6, / / '7 ,<>. ;.57. 'EE' 1. / ?,17'<7.=4. 5. ;,<6.<7. / .<7
>. 5" / ' 6,< ?'5'7 <.>. .4@ ,<76% ' ,41 >. .<<.
.7 ;.55. >. .7.160,41J8 '55 0.68 / 1.<77,47 .< ;.4-1. ?,41
, .< 1l / ' 6 5.>4. 10J<'<7 .47 5.;,41'J.>. 1#6 67.1 0
7,47.6 5.6 ,EE1.6 =4 '54 E41.<7 E' 7.6 0 ['640.7% << J<,1.
?'6 =4. . .67 6417,47 5" ;,41 >. K.15 < =4 5 70;0,4.1;.
?1,0.7>0;0'<J.8 ,<?547>7 ;. ?1,0.7>'11,<> 66. / .<7>.
5" / ' 6,<> 471 ;0.8 .7 =4. ; .67 .55.'=4 E,1 / '8 0 ;.75.
,;;'6 ,<8 4< ,< ,< 5" 5 J4. J.1 / '<=4.8 >,<7 5" 0'6.1.M
?,6. 641 5. / ' <7 .<>.6 7'76 1.6?.;7 E6 7.56 =4 56 >7' .<7
'5,16%   d
H,1;0.?'1 5.6 ; 1.,<67'<;.68 5" ;,41>. .<<. / 7>.
;07.6,<?1,0.7E0-,1 8 0 .<>.7.1 / <0.0 5.1.?1,>4 1.>'<6
4< 7. / ?6 ?546 E'-,1'05.% 5 ?'1'57 =4. ;.77. 0?,=4. .65
?1,;;'<.l 04 / ,<6 ; =4' - .<7>. 6. ?'66.1 <,4-.55.
/ .<7 '47,1 6. 0 5. .1, 1.% .,?,5>'E' 7 6" ?' @ '- ; 5.6
41;6N 5 <. ?1, !7.?, <7>. 6" ?,6 7 ,< 0.41. 6. ?,41 5"
> .7.18 / ' 6 5 6. / 05. 64 -1. '- 6 >. H10>.1 ; ! 4 55'4 / .8
/ #> '5.41 ;,<0, <7. / .<7 '-.; <J5.7.11. .7 5" B,55'<>;8
6.6 '55 0.6% 5 '- ' 5 - 6 05. / .<7 ?,41 047>. <.<'J.1 ;.
?1 <;. ?,41 ' / .<.1 0>.6 '11'<J. / .<76 ?546 / ?,17'< 6
0 " / ' 6,<> 471 ;0.l 5" K466 .8 6,< <7 / . '55 0.8 64 7
6,< .@. / ?5.8 '!<>. / .4@ 6.1- 1 6.6 <>1076% #.77. 6,17.
>. >.E.1.<; >47 E' 1. 4<. J1'<>. / ?1.66 ,<641H1.>>1 ;
! 4 55'4 / .8 '4=4.5 ,< '41" E' 7 .< 1.-, 1 5" ?,66 0 7.
> '11,<> 1 6.6 7'76 >4 ;,5>>. 5" ,5,J<.8 .< 54' ?1,;4
1'47 '<70 J.7 :,1< '-. 5.41 7.11 7, 1.8 .7 >4 ;>7> >.
5" 5>6 .8 .< ..0'<J.'<7 5.6 / '1J1'- '76 >. K'1.470.7
> <6?';. ;,<71. 5.6 >.4@ 46';.6% #.75. >> / '1;0.8 5
E'47 .< ;,<-., 18 .67 0 .< '> , 7.l ;'18 <>>?.<>' / / .<7
>. ;. =4. 5" ;,41>. .<<. ?'1- .<>1' 7 0 6,<J1'<> 047
>. 6 '11,<>518 .55. >>714 1' 7 .< '7. / ?6 5" 5 J4. J.1M
/ '< =4.8 ;.7,4-1'J. 6 E,1 / >'05.?,41 .55.8 .7>,<7 ,<
?1>7.<> =4. 5. 1, ' ';74.5 >= 1466. ">,<<> 5" ?1. / >1.
>>. 5,16=4 5 > '57 .<;,1. ?1 <;. >. 1466.l / ' 6 5.67. / ?68
5.6; 1;,<67'<;.6 .7 5.6 ;, / / .6 ;;'?J.<78 .7 ,<'6641. =4.
H1>>>1 ; ! 4 55'4 / . < ' / ' 7 ?'6 . / ?.1.41 ,6.?: %
.<71.-4.>.6 >.4@ 6,4-.1' <6 0 5< 70 " .4 ?,41 ,00.78
: #?'6 .4 >,47.18 >.6 '11'<J. / .<76 >. ;.75.'<'741.% 5\.6

'EE' 1.6 >. H1'<;. 6. / 05.<7 5.6 E' -,1 6.1l 5 .<71. ?1,0'
05. / .<7 >'<6 5.41 ?5'< > .@>;47 ,< >. 6. 6.1- 1 >.6 1.E4
J >6 .7 >.6 / >; ,<5.<76 E1'<;' 68 .7 ?.47 >51. / > / . >.
6 . / ?'1.1 >. =4.5=4.6 ?1,-<;.60'> 6 <70J1'<7.6 >.5 . /
?1. J.1 / '< =4.% #.6 ?4 66'<;.6 <. 0,4.1,<7 5.416 1 5.6
=4. ?,41 / .4@ ;';0.1%5.6 -1' 6 <501076 =4 5.6 E,<7 'J 1%
'6 =4. 106457.1' 7 5 >. 5.41 ;,<;.17>'<6 5. ;'6 >4 ?546
J1'<> 64;.06 Z1 .< '471. ;:,6. =4. '66.1- 66. / .<7 <0-
7'05.>. 55. / 'J<.% < 0,<. '40,41> ;4 .< ?,57 =4. 5"
?0#. >. : .7 ;. 6.1" 5. ?546 !< =4 . /
?,17.1'% ,6 ?1 <;.6 '55. / '<>68 =4 6 .<J,4.<7 >.6 J1'<>6
?1,0.56 >.6 ;'0<.76>. .<<. .7 >. K.15 <8 =4 6. ;, '5
6.<7 / / . ?,41 5.6 E'-,1 6.1 .< 0' <. >. 5" 1.-,547 ,<
E1'<=' 6.8 >.-1' .<7 >,<<.1 0 ; . 0.< 5" ?546 601 ,6.
'77.<7 ,<l #'1 5 V -" >. 5.416 ?1,?1.6 <7#10568 >. 5.41
.@ 67.<;. ?,57 =4.% . ;.-'5 .1>. ! 1' / / ,<7 5' 66' 7 4<
;0.-' 5 ?546 > 4< ?1 <;. ?,411' 7 ; 5' 66.16.6
7'76%
;.6 ?5'<6 >>.0'<J. .7>'11,<> 66. / .<7 6 .@#;45.<78
5 <. 1.67. ?546 >.>,47. =4 5 <. 6 #7'05 66. .< 55. / 'J<.
=4'71. ?1 <; ?'5.6 ?4 66'<;.68 >,<7>.4@ 6.1,K7 ? >?,<>>
1'<7.68 6'-, 1N 1 471 ;:.8 5" 1466.8 5" '@..7 5. '5'7 <'7%
.6 '471.6 H5'76 > 55. / 'J<. 6. 1,<7 >#-,1#6 64;;.66 -.
/ .<7 ?'1 ;'6 ?4 66'<;.68 .7 5" ;,<67 747 ,< J.1 / '< =4. 6
-'<7..8 < 5" 5 J4.>.6 ?1 <;.68 <. ?, 11,<7 5.6 J'1'<7 1 >.
;.57.>.67 <#.% 471 ;: J'J<.1' 7 / / .<6# / .47 0 ;.57.
?'17 .l 5"?,66.66 ,<>. 5" K'- 01. 54' - '4>1' 7 ?546 =4. 5"
;,<=4 >4'1,V'4 / .1.55=' '11,<> -'6.6 7'768 54' '664M
1.16 ?'1 5" 64 7. '1;:.-0;:0 >. '500,41J .7 #-#;0#>.
' 6' [8 ;,4-1 1" 6.6 ?,66.66 ,<6 .< 7'5 .8 .7 7 .<>1"
/ 0 / . &,47. 57'5 .'=<1.6?.;7% ">, / <'7 ,<'<71 ;: .<<.8
;, / ?7'<7 4<. ?,?45'7 ,< >#?106>. - <J7 ;54= / 55 ,<6
>0 / .68 6.7,4; ;.1' 7'5,16>'<67,47.6 6.6?'17 .68 .7 5 <.54
E44>1' 7 =4. 5" / , 7 #>. 6.6 71,4?.6 ?,41 ; ,4-1 1 6.6 E1,<
7 01.6% 34.55. ?4 66'<;. =, ;.55. &7. ;.57. / ' 6,< 55.
6.1' 7 '06,54 / .<7 ?1#?,<>01'<7. .< B. / 'J<.% .6 ' ;
;1, 66. / .<76 =, ,< ?1, / .7 0 5" ?4 66'<;. >4 1, >.
1466. <. 5" 0' '<;.1' .<7?'6N 5 54 E',>1' 77,40,4168 ?,41
5477.1 '-.;.5 .\ 5";,<6.1-'7 ,<> 4<.'55 '<; <'57.1'05.
'-.;5" '@.% ' 6 =4 ?.<7;, / ?7.1 641 5.6 '55 '<`6 .55.6
6,=7 7,47.6 '466 E1'J 5.6 =4. 5.-.11.% " '@. #5.;7,1'5.8
/ 0 / . ;5";,41,<<.>. ,5,J<.8 <. 6.1"0 / ' 6 =4 '.
?4 66'<;.640'57.1<.l #5.;7,1'7>. '@. .67 0 5" / .1; >.
5";,41>. 1466.8 ;, / / . 5.6 / '1J1'- '76 >. K'1.470 .7
> <6?';. >#?.<>1,<7>40,<?5' 6 1>4 ;'0 <.7>. .<<.8
0 ;'46. >, - , 6 <'J. >. 5" K, :# / .% " ?4 66'<;. >. 5"
/ ' 6,< ?'5'7 <. 6.1' 7 7,47 '466 ?1>;' 1.8 ?'1 5.6 -, 6 ?6
?1.?,<>#1'<76 =4 .55. '41' 7%
<6 >,<.8 .<>.E< 01.''<'5V6.8 5.<,4-. '4 J1'<> ?1,
0.7 / 1 0 5< 70 77. 6.1' 7 E'-,1'05. =4 0 5" / ' 6,<
> 471 ;0.% ;'0 <.7 ';74 5 >. K.15 < 6. / 05. >,<<.1
>'<6 5. ?0J.l 5 6 .<1.?.<7 1" 6 1. / #<7 4< 0,418 .7 <,6
?1 <;.6 '55. / '<>68 '<5 .4 >. 6 .< .@7'6 .1 .7 > V ?107.1 5"
/ ' <8 E.1' .<7 / .4@8 ?,41 5.416 ?1,?1.6 <7010768 >. / ' <
5.0 1 >'<6 7,47. 6" ?41.7# " 5 J4. J.1 / 0< =4.8 ; ;.E
> ,4-1.>. 5" ?,57 =4. ?10-,V'<7. >4 J1'<> H10>.1 ;8 .7
>. 6 ,??,6.1 >. 7,47.6 5.416 E,1;.6 0 ; =4. . / ?1.'J.1M
/ '< =4. 6. / 0 07 >.6 'B' 1. < 01 .41.6 >. 5" H1'<;.%
34'<7 0 6.6 / . / 01.68 =4 ,<7 6,4EE.17 ?'1 5.<,4-.5 ,1>1.
>. ;0,6.6 <71,>4 7 >'<6 ;.1,V'4 / .8 5" <'7 ,<E1'<=' 6. "
?1, / 6 4<. <>. / < 708 .7 5 < .67 ?'6 >,47.4@ =4 .55. <,
6 .< ';=4 77. J0<01.,6. / .<7%

) $ %&

5 0

E 8

4 9% % B01'457>. .;:.55.6%

9 A%

% ,4.>.8 / . / 01.>4 >1.;7, 1.>4 > 671 ;7>. <
1.71 .1 J<,<8 04J. >.?' @ >. ,<7..01 1,0' ,l #'1.68
0, / 1, . >. 5, l .V1 .48 04J. >4 > 671 ;7 >. ,45,46.
,45.8 ,5!; .1 / 4< ; ?'5>. ,45,46.%

$%D' V'< '.

I

'- '- 5 .1/, > ?'7' 66./05 'M
7,<'5. ?1.6>.<7 ./,<. ';;46'7.41?405 ; .?, 7.
-< #0'64.5 J1; .1 '5:.10. ?1,;41.41 J><>1'5 >4
& ?'17./.<7 E.1?Q /./01.'&6 ':'T7'GYWZ<'7? '5?
'<Q4<'Q6 * 8

-E C '2'8!(I

' /.'4 ?1.6>.<7>< >1.;5, 1.'>4 > ?'17./.,7
' /.1,< Q4J.' >4 71 04<'5 >4 > 671 ;7 >. '' !0'17>Q
'47.1.'4 ?1,;41.41 6V<> ;>4 >>?'17./.<7 41 <Q4J.
>4 71 04<'5 >. ;0. '55 .4 '>/ < 651'7.41>4 > ?'1
7; /.<5 4?< ?1,;41.4E V<> ;>4 > 671 ;7 >. !5'/.;V
H1'6.V /'1.'>.'H,1J.6

.05'<; -;'1.'>.'5";'7: >1'5.'>.
.-.16 34.6<'V /'1.>. '<7 !.1/'< .< 1Q .00.8
;,/ /'<>'<7 >.'5" J'1>.'<'7 ,<'5.'>. .V.16

G1 L

! .1 / < '; ?1>6 > <7 > > ?'15.1,.<7 K1 -'5
?1,;41.41 J> 1'5 K01 . #:'66'J<'; '10,7 '>/ < 6
71'7.416 K'1>,< Q4J.'c5> > 671 ;7 H' 17 ' #:' 6; /.
>.; <

J.11.' .'Q.4?. K'7''.' .5E,178
J 1)

] ' .E'4@6 .5'5, ?1>6 >.<7>4 71 M
04<'5 ;1 / <.5 ./'71. ';;46'7.41 ?405 ; #,4741 .1

(A' !

'10. < J,;'<7 ,4.< !10J,1.' '<> <>J,
;'<7 '4 B'-1. K1 /,<5 .1 <>J,;'<5 0 ,4.< H1?4G
>:1.:,//.'>.'5, H,1E' 7 <J>< .41 '4 B'-1.I
8 ';,-4. 414>.V B'V.78 <'4
,; ,5.Q 40, 68

F 3

,71.'>->J4.';,<65 745 ,<<.5 - .<7 >.'? 05 .1 4<. :771.'
?'67,1'5.'>'<6 5"=4.55. '-.;'5.'7,< >.'5,5>1'<;.'.7>.'>,4M
;.41 =4 ';,<-.<7 6'0 .< :'5" 1.5 J ,< >,<7 5 .67 5.' ?,<
7 E. 5 1>?,<> '4@ .<<.1, 6 >.'5";,<67 747 ,< ; -5.'>4
.1J0 .7 5.'?'51 ,7 6 /.''47'<7 =4.'5"1 6,< ,<7 > ;7.'6.6
1.?,<6K >-K=4 .>';.'>.?'15./.<78 ;,<<4 '4?'1'-'<7
?'1 6.6 71'-'4@ .7 6#6 64;. 6 >'<6 .>4;'7 ,< ?405 =4. .67
E101.'>. 55'16 ;,<<4 '466'?'1 6,<' '/,41 ?,41 5.6
5.571.6 ?'1 5"?41.7> >.'6,< ?'51 ,7 6 /.'.7 ?'1 6,<'77';:.
/.<7 '4 7 ?1 <. ?.6 ;,<67 747 ,<<.56

$ + ! C 2

< 6 J<.'6.<6 05.' > '1 67, ;1'5 . ; .67 >> #'5, [<?1
;>>6 >.6 / 6>.'5"#,<67B4 ,< ' ;>7.'>';.'<, / 8
>'<6 ;.77.' - 55. -.<7 >.'>,=<.1 4<.'<,4-.55> ?1.4-.'>.
6,< >5.''"?1,?'J.1 ?671<;7 ,? >'<6 .6;' / ?'J7 .6 7 ;:.
?>< 05..7 05.< > ?..<';.5" >.6 0,<6 ; 7,V.<6 .55."E' 7
/ ?1 / .1 .7 > 671 04.1 '-.;' ?1,E46 ,< 4< 7'05.'4 .@';78
E >>5.'.7 1' 6,<<> >.6 '-'777'J.6 >.'5";,<67 747 ,< ! .7 .@
?,6> " >> 71'>4 7 ?'1 6.6 6, <6 E< 5'<7? .'0'6 01.7,<<.
,> >.4@ ?'66'J.6 >J '>?<=.13?7 4<.'E>>.'>.'147 7g >.'
;.7>;1 7 ?'71 ,7 =4,8
W 34' .67 ;.' =4 '< / / 77' 7 <,6 ;41>6Z # 7' 7 '< ;
>.-'<76. J<.'418 0, / /.'6.4 8 .56,4V.<7 7 < / '4V' 6 640.78
,4 0 .< 4< J1'?055'1>> ;. / /.'> 'EE' 1.6 ,4 6"E./<\> >.
:.' /01.'E'-,1 7. ?,41 4<.' ?4 J<>.'>.'5,476 > ,1 8
74.5./.<7 <,46 5.6 <,//.1,<688 ;.6 ;41>6 .7 <,46 <.
;:,6 1, R6 ?'6 5.6 5 0.17 ?'7 5." -1 J<.68 5.6J1'1.61 5.'
?1.65,5.76
34 .67 ;.'=7 E <, / /' 7 5.6 >V.= .6 Z .7;88 .7;8 W
&E% ;.77.' <671=;7 ?< ; - =4. =4 '-'47 0 .< 5.6 '<;5.<
<.6 <6714;7 ,<6 ?'67,1'5.68 "?1,>55 7 5.6 / .55.416.EE.568
J ,4-.1<. / .<7 <,4-.'4 .7 ;,<67 745 ,<<.5 >, 7 >,<.
;:>1 1 5.6 ,;>5>6 >.6 / 6 >.'5" #,<67 747 ,< '4 5 .<>.
5.6 E' 1.';'5, /< .1 7 6.6 ' 6 ;'1 ; .67 '4@ 0,<6 ; 7,V.<6
'?5'< 1 5. ;:. / < >.-'<7 >.6 / < 671.6 ?'71 ,7.68 <
6714 1.' 5.6 ;, / / .68 , .67 ' >.1 ;.4@ =4 '5.6 J,4-.1 .<7
/ ' 6 5.6 ;,<<>7.6 J.<68 =4 ' 01>5.<7 >.'0>5.'.7 > '/,41
?,41 5.'0 .< ?405 ;8 ?'66. 77 .?;,17?,41 >.6 <;.<> '1.68
;7 >'<6 ;.'6.<6 5"1>-,547 =< .67 ?, <7 G 3-2? '_

$

.6 ' / '7.416 =4 ' > ` 1.1' .<7 6,46,1 1.'?'<1 5" J1'-41.'
>."?,171' 76 >.'R% E57 ' 7 LD57' E' 7 1'0,'4 '?1W

'.<7>"5.')''.07 >.1< .18 ?'1 K'4>,< ?. <71.' .7 J1''
-.418 " 66./05..'<'7 ,<'5. =4 ' 5.6 '' ';;.?5.68 ?,411,<7
6 '>1.66.1 ;:.6 # ,<67'<7 < =4 ' '>. ;,5. <p U8 '4 /'
J'6 < >.'7'05.'4@ >.66 <68 .7;%8 ?,41'V E' 1.'1.;.-, 1 5.416
6,4 / 66 ,<6 .6 J1'-41.68 =4 '?'1' 71,<7 <;.66' / /.<78 6.<7
>.'-<J7 =4'71.'?,5 ;.6 >.'0'47 641 -<J7 >.'5'1J. .'?1 @
6.1">.' '5 - ;:';4<.

' <<.'6.1"'664Q.77 ''4;4<'?'V./.<7 >'-'<;.

8 ' a "

@ '6 '2 'F '?'1 E";=4'6 K.1?'1> < B.<1'>.' '<7
.11.1 =4'71 . / .'.> 7 '= 1.-4. .?11 J..'.7 '4J / .<7..8
'-.;' ..77J ?? J1'?:61

(

+ ')'5 0 8

#:.0 >,7 5.'Q.4<'8 5 01' 1.8 =4''>.5 4J46M
7 <68 7 '1 6I '-,5 < 7C8 1 @N '5 -

,;'4=.'=4'71 . / .'.> 7 ,< '@ '>,<7
5.6 .> 7 ..6 ?1.;.>.<7.6 6.<7 .<7 .1. / .<7 >?4 6..68 ;.'=4'
?1,4-.'=4.'5.'J,47 >4 ' 0.5 ,4-1'J.'<.'6 .67
?, <7 >./.<7 8 >'<6 <.'7./?6 , '5.6 .-.<./. 76 ?,5 7 =4."
,.?4?.<7 ?1.6=4.' 7,47.6 5.6 ;5'66.6 >.;1 -'<6 .7 >.'5.;
7.416 34.5 -1. .<.EE.78 / .17.'/ .4'=4.';.54'>.' '<7
.11.' '-'<7'J.'> 71.';,<67' / 1'.<7 1. <'Z 34.5 > -1.'Q, <7
/ .4@ '4@ 6.<7 / .<76 > 4?.'?: 5,6,?0 .'>,<..' .7 ;.<6, '<7.'
5.6 ;:'1 / .6 > 4< 67V5.'? 77,1.6=4. E'; 5.'.7 '0,<>'<7Z K4E'
E,<'"?. =7 '-.;' / 'Q.67.'5.6 ,4-1'J.6 / 'Q.674.4'>.'5V <'M
741.8 .7 5"?,/?.':'1/,< .46.'>.' 6,< .5,=4.<;.'E' 7 ' / .1
Q46=4 '5"0 0'11.1 .'>.'6.6 ,?< ,<6 5.6 ?546 :'6'1>..6 '41 5"
E,1'7 ,< >.'<,71.'J5,0.I ,466.'4 "'>.-.5,??.'6.6 ?.<6..
?1,E,<>.6 .7 6,< '1>.<7.'6.<6 0 5 7.'>'<"4< 67V5.'<.1-.<@ .7
7,4Q,416 01 55'<7I .<.5,< " .1<.'5" / ,1'5.'5" ?546 ?41.'>.'
7,47.6 5.6 17;:.66.6 >.'6,< /'J<'7 ,< ?,.7 =4.I / ' 6 ;."
.;1 -'<"6 64?.1 .416 ,<7 71,4->4< ./45.'> J<.'>?4@ ;7
' <7 .11.8 '<"'E55.;7.1 >.'5." / 7.18 6./05.'1.4< V
5.4?"7'5.<7G > -.168 .7 5.6 "6,4-.<7 >J'5.6
/ 6 .<71.?1.<>1.' '<'5V6.'>.7' 55>.'>4 -1.'>.' '<7
.11.'Q.'-' 6 .66'V.1 > .<'>,<<.1 4<.' >>. # .67 .< ,0
6.1-'<7 5.6 ,4-1'J.6 >.'5"<'741.8 .7 .< 5.6 >.;1 -'<7 7,4
Q,<17'-.,'4< '17 .<,:'<5.4?8 =4.'B '<7 .11.'71.4-.'"
;:'=4.'?'6 5.6 . / ?1. <7.6 >.' .@ 67.<;.'>.'6,< 47.418 .7
>.'<,<-.'4@ / ,7 E6 =4.' :. / /.'">.'54'1.<>1"J15;. ! .67
>'<6 5.6 ;,<71'67." 5.6 ?546 ,??,6.6 .7 =<.5=4.E, 6 5.7 ?546
0'11 =4 EE,?.1 , E>,65 '1 / .< .7.3 <77'<767.7<.;;6 ' '.68
>.;,4-.17.' <J.< .<6.' .7 6,41,.'>44 ?5 6 1 =4.'0.'4;,4?
>:, / / .6 6.<7' .<7 6'<6 .<'>. / >5.1 5";'46. # .67 Q 76=4.'
>'<6 5.' / .;'<6 / .'>.6?546 ?. 7.6 ?1,>4;7 ,<6>4 10J<.''<M
/ '5 ,7'>4 1.J<.'-.J.7'5 =4 5 =,<6 E' 7 5.' / .4V -, 1 5.6.E'
E.76 >.' ;.77.' 7,47. ?4 66'<7.' <7.55 J.<;.' '466'6405 /.'.<
1J'<6'<7 4< / ,4;5 .1,< =4 .=1.J5' 7 6 / '1.E'.' .7.?<.55.'
>.' 4< -.16 .6 71. / 05. / .<76 >.'7.11'8 5.6 >.0,1>. / .<7"
>.6E5.4-.68 5.6 E. / ?.7.6 =4 '6,<5.-.<7 c.6 / .1.8 7,46 5.6
/ '4@ .<E <>,<7 5.' J.<1.':4 /'< .68 ;.;'05. 6.<7 ;'>.6
??.4-.6 ..17' <.6>.'5"0 .<E' 6'<7.'6'J.66.'>.5" 1,->.<;.I
.7 6'5.' >41 '7:>6 / .'1.E46.'> V 71,4-.1 6" ;,<-.16 ,< 5.'
/ ' :.41 .67 '4 / .<6 '>.'?,4-, 1V ?4 6.1 5.6 ;,<6,5'7 ,<6
5.6 ?546 >,<..6
.'6V67./ .' / .>.1<.'641 '?5'7 66./.<7 >.6 ?9 .6 .7 5"
7:.,1 .'>.6 / '1.;6 " .7.';, / 0'774 ?'1 ' <7 .11. =4
;1'Q7 5.6 ?,5.6 '55,<J.68 ?'1 5.6 / > / .7 1' 6,<6 =4 ' ,<7 E' 7
>1.'" . [7,< .7 "V.6 > 6; ?5.6 =4 56 >7' .<7 '?5'7 68 ,,/ .
5 ;1, 7 5.6 / '1..6 ,;;'' ,<<.."?'1 5" E,<7.'>.6 J5';'6
5' 1.6 3< 6'57 =4.';.6 '66.17 ,<6 <,<7 - ' < '< / '>-.16 ,<
>.'0.'4;,<?>';'>./; .<6 I / ' 6 '< .< 1.6 .'?'6 /,<"
;,<V' <.<>.';;'=4 5 ">'0,1>'-'<,. .7 5 'Q,47.'" '1'
6,<<./ .<76 >.6 '47.1 7.6 <,4-.55.6 & P # .67 '4 7./ ?6 6.4'
/ ,<71.1 >.'=4.5 .>7.' .67 ' -.1 7. 6'1:,/ /.'?.<7 .6?.1.1
7,47.E? 6 >.'Q' / '6 0 .< ;.<<'571.'>.6 -.107.6 >.<7 '6;.1 6
7' <./.<7 .67 71,?'4 >.66<6 >=6" ?4 66'<;.'.7 >.'6">41..8 c
K.1< ' <7 .11. =4 # <1;;.-'47>.6 0 .<E' 76 >=
,4 6 " 54 '-' 5?'V.'4<71 047 ?405 ;'>.'1.;,<<' 66'<;.8
6 . / ?1.66.' .<;,1.'>.'54'1.<>1.';, / / 'J. >'<6 4? / , / .<7
,< 5.6 V.4@ >.'7,46 5.6 1'<=' 6 6.',<7 Q,41<.6 -.16 ;.'1,.<'?G
=4.'-.,'4< <,4-.5 <7.1>78 .6 HR.4'N > 4< .7 6
?1.' / 045.>.' G - ;,<7 .<=.=78 .<'E'-.41
>4 1, >.6 ,? < ,<6 .7 >.6 6.<7 / .<76 =4 ,<7 .< 1'-'<7'J<
>.'?1...>.1 5.6 >.;1. ,> 5.6 6.<7 / .<76 >.'5" <'7 ,< - .<
<.<7 > .71.' / / E.65>6 "B E'47 =4.'0.' ; 7.'4< ?'66'J.'G>.'
'-.17 66./.<7=4.'5 7 ' <7 .11.'" / 6 '5"5"7>7.'>.'6"<, G

& P ,V.@ 5"<,7.' /,?,17'<7.'=4 '7.1 / <E' '-56 .< 7>7.'>>
;.77.'<,4-.55.'>> 7 -

V;5E.' .> 7 ,<8' ?'66'J.' ,4' ,<71,4-.'5, 7.' .6?1.66 ,<' '<<.' *<.'6.<6 05.' .7'5.6'7. , 6'5.6'?546'6'J.6'= .' 5" ?: 5,6,?: .' :4 66.' '>1.66.1' '4 '1, 6% W '4 %' '?< 66.<7 -,6'>.67 <6'6.'1.4 ' 5 1'>'>. 5@'>.' -,71.' .4?5.' .7'<.'6 .<6.?'1.1'Q' / ' 6'7 7 4 66,' 1,71.'714.'5 '1'??.5.1'5.'0 .<'=4.' 56'-.0'-,45 ' 'E'1.8' >,<7'6 6'1.?1.6.<7'<76'6.'6,<7 ,;;4?>6' '-,71.' <- 7'7 ,<8' .7' =4.'1,556'-.0'>>6 1.''-.;''1>. 7'; , / /.'5" 1.; , / ?.<6.'> " J<.'>.6' J1'<>6'1, 6% 5, J<.0'>.'-, 76'5.6'0,<6. 6'=>' ? 41' 1' .47 -, ' . '6>?'1.1W'6,<6'?1.7.67.'>.' -,71.'1.?,6' ,4'>.' -,71.' J5, 1.% K'??.5.0 ,46'; .6' / '6 .6>4'?1.;.?7.41'>.6' 1, 68'641'5.41''47,1 7.' .7'5.416'>.-, 16'N +' .'1, '?.47'7,47' 641'5.6'?.4?5.68' 4 '6'5.6' 5, 6'?,411,<7'7,47'641' 4 8'd ' "4<.' ?4 66'<;.''06,54.'?,41'E' 1.'5.'0 .<8' .7'5.6' 7' <6'7 >.6'>>' =4 5' -.47'E' 1.'5.' / '5% .6'5,76' 4'; ,<! .<7'5.6'?.4?5.6'., / /.' 5.'?546'?1.; ;4'>.'7,<6'5.6'>.?>768' " ;,<> 7 ,<'=4 5' 6.1" 5.' ?.1.'>.'6.664Q.768'#.'< .67'?, <7'?,41'547 / . /.'=4.'5.6'> .4@' ,<7'E' 7'1, I' 5' 4.' .67'=4.'?,41'.71.' :, / /.'>.6'?>4?5.68' # .67' '46'?.4?5.6'=4 5'>, 7'7,47'6,<'7. / ?68' 7,46'6.6'6, <68' 7,47.'6,<'EE.;7 ,<I' .7' 5'< .67'> J<.'>.'5"1,V'47.'=4 '47'<7' =4 5'6 ,405 .'54 / > / .'?,41' .'6'.1 !;1''4'0 .<'?405 ;% ' <, '< " -,454'=4.'6.6' #<E':76'1.J4'66.<7 'E 1>6' 4'=4 >'; ,<M >7 ,<'=4 5'1.J, .1' .<7'64 -' 7'; .6' / '0 / .6I' '

>7> =4 / @./ 8

6G ' ' ' '9 'G E

; ' ' # .77.'<<4-.55.' .>7 ,<'?.47 .'> 67 <J4.1'>.6'>><' 71.E'=,<6'6' / 4575?55..6'>.'#.5' ,4-1 J.' . ' .' =4.'5.'<7<>'>.' '47.41'.'7 .<'5.771.6'71'<6?'1.<7.6'>'<6'5.6'E.4 55.6'> '5 71.%

+' 'G ! * '?1. .<7>.5.' '6.?7., 7 .' *' .7'; ;.?7..'?'1'5.'1,7'5.6' ' .7' U'>4' / >4 .' / 6I

a '9 ' '! 9D

> 7 ,<71.6 .0';7.% 1 0'N' 6%8 'E1'<;'>.?,17I' ' '1 68' '<' 041.'4'> '- '* ' 0,45.-'1>'>.' ' ,17. ' <' B'17 <' ' ; .55.' ' <7 .< 68' <p' %

<' 71,4-.' '4' <> / .' 041.'4' 4 >' >,55.07 , !' >> '5,76' >.' 1 66.<'05..'<'5 ,<'5.' 6'<;7 ,<<>.6' ?'1'5.'1, 8' 1'<J>.6'?'1' ,1>1.'>.' / '7 .1.'% '?' .<' " ';7<.55. / .>5'=4'1'<7.' ; ,>.68' 6.?'1.68' .<' -.<7.I' ?546 ; 16' '471.6'6,<7'6,46'?1.66.% <' .<' > 651 0 .'5.'; '7'5,J4.'J1'7 6%

'>1.66.1%" % 1>-,67'>.' ' <7 4; .<8' '<; .<' '-, ;'7' '5'; >.-'<7'?'15. / ;<78' ';74.55. / .<7' / ?1 / .418' ' '041.'4' ; >.6646%

K

' " ' '

\ ' F '/ F '<

' .%C' ' ' 7 / 7 ,' 9 ' '+ ' .

K %

66. / 05>.',''7 , '5.' ">>;1>7> .'UQ4 55.75(*7'

H 34.'5.'; ,1?6' >J 65'7 5'-.11' 7'.5' '??41.1' 7'?'1'54 ' <> / .Q >>E< 5 -. <.<78'5.6'; , / ?5.6'>.'5"'<7 ,<7

CG 3< 5' 4' 6.1' 7'?1.6.<5>' 5.' ?5'<' >.' 1,1J'55 6'5 ,<' > 4<' 041.'4'>.'; , / ?5'0 5 7>'; '1J>'>.'5" ?1>?'1'7 , ,'>.6' 0, / ?7.6'=4 '>, -.7 7071.' -46' .7 '?41>6' >> ! < 7 -. / .<7'?'1' 5.'; ,1?6' >J 65'7 E%

.' 6.?5. / 0108' 66. / 05>.'<' ><'5.% U >>;1>>'=4 7' 0.'6.1' 7'?'6'>7'05'?'7 71 044'5'4< =4.'?, 1'Q4J.1'5.6'; ,<M 7.67'7 ,<6'=4 '?.4-.?7'6> .-.1' 641'5.6'; , / ?7. %

'?1>6' ; .6' 0'6.68' - .' 5.' ?1,Q.7' >.'>.;1.7' =4 ' .67' ?1,?,%I>'U 66. / 05>.N

'7' 17I' F% 5'6.1"07'05'4<'041.'4'>.'; , / ?5'0 5 7>G A' ?06>'>.'=4 E 0.'?.16,<<.6'=4 '6.1, 17'<, / <>.6'?'1'5.'1, I' 6'<6'<>'< / , <6=4 .55.6'?4 66.<7'>1.>.67 74>.6'6 ;.' < .67' 641'5" >. / '<>.'>.6'5.J 65'741.6G .7 '?1>6' -, 1'>7>'?10'5' ' 0 . / .<7 .<5.<>4.68' #.6'=4 <0.'; , / / 66' 1.6'6.1,<7'> - 6. ' . ' ; <=' 6.;7 ,<68' ; , / ?,6>.6' >.'71, 6' / . / 01.6' ; :';4<.I' 5.6=4.55.6'655. / .1,<E'7,465.6' '<6I' 6'4E0' '4J / . .1'5.7 1' <, / 01.'6' ';;>>1'7 <' >.6' 71'-'4@' .7 147 7>'?405=4.' .@J.<7G

G ' . > " 0, <<566'57 .G'7 .; .g,<7'7,<6'5.6' E, / ?7> ' >,<7'5 ' .71.'7<.7 7 , 7 . '?7.6' ;6''?41.1 7 7I' .7 .< >1.6' 6.1,<5'5.'16??,1?

' 556'#:'=4.'1'??,17%6.1" 65JK>Q7'1'71, 6'., 1<Q 6 '510 =4'>., .'1.1. 7'1 ?,<66 05.6'>.6' 0 76'=4 56' '41,<7' E/'0' ,('- ' ' / %

' % #:'=4.';, / / 66'1.'E,4B 1" 4<' ;'?7 ?4<.1,<7' '/ / .405.6' ' '6, / <.'>.'98 9' 1G

" % .'5.; .-.47" >.6'> 671 ;76' .7' 7,?6'71 1 .16'.7

?7 V#4 Z ?'65U 1 57I'* 6 ? # ' #* #* c ' K

1.?4.68' .7'>.' . / ? , '=4 56' '41,<7'E' 78' '4@'; , / / 66' 1.6' >.' 5" 71>6,1.1 .'<'7 ,<'5.7'?,41' 7,<6'5.6' ,0Q.76'>.1.; .57.' ,1> <' 1.'=4 '>, -.<7'3'>1.'-.16>6I' 56'; , <?7.1,<5''4'71>' 6,1 .1'>.'5" ;' 66.'>.' . 71' ,1> <' 1.8' 6,46'5.6V.4@'>4' ; , / / 66' 1.'>4'1, 8' '> / < 671'5.41'>.'5'> .'; '66.G ?,41' 7,46'5.6' ,0Q.76'>.'1.; .77.' .@71' ,1> <' 1.'=4 '>, -.<7' '> 1.' -.16>6%

W % '<6'5.;'6,#7' '6 >5>-.1' 7>.6'; ,<7.67'7 ,<6'641' =4.5=4.6 4<6'>.6' '17 ;5.6' >.6'; , / ?7.6' ?1>6. 7.6' ?'1'5.6' 1.; .-.416'>.'> 671 ;7' .5' '471.6' 71>6,1 .16' .7' ?'V.416'?'17 ' ;45 .168'6, 5' '4@'; , / / 66' 1.6'>.'5" 1>6,1.1 .' <'7> '5.8' 6, 7'4' 1>6,1 . >.1.@ 1' ,1> <' 1.8'5.6>7.6'; ,<7.65'5 , 66.' 1,<7'64 - .68' U 5"1.=4>7.'>.6'; , / / 66' 1.6'>.'5"7 >6,1.1 .' .7'>4'71>6, .1'>.'1.@ 1' ,1> <' 1.8'>.-'<7'5.6'71 04<'4@'>.' > 671 ;7' >'<6'5.'7.11 7, 1.'>.6=4.56'5.6' ; , / ?7'05.6'6.1,<7' >, / ; 5 ;6%

.' % .6'; , / / 66' 1.6'>.'5"71>6,1.1 .'<'5 ,<'5.G'5.' 1>6,1 .1'>.'1=@71' ,1> <' 1.8' 506'> / < 671'7.416'>.6'>, ' / ' 71.6'G0. @'>.6'>,4'<.6' .7 ; .4@'>.'5" 10J .'>.6'>1, 76' > .<1.J 671. / .<5' .7'>.'7 7701.8' ?106.<7.1?<5'5.6; , 0?5.6' >.' 4< -.16'5 7>'>.6'1.; .7 .6'=4 56' '41><7'E' 7.6,4'>7'E'1.G' .7'>.' . / ?5, '=4 56'.<' '751,<7'E' 78' '4'041.>>'>.'; , / ? ' ' 0 7.8' ?,41' .71.' 5.6>76'; , / ?7.68' '?106' .@' / .<' =4 '.<' '41" . .'E' 7' '4'041.'4'>.'; , / ?5'0 5 7.8' 46' .7' '?41.6'> ' ! < 7 -. / .<7'?'1'5.'; ,1?6' #J 65'7 E' '4@'7.<<.6 '>?' >>,1.7' >4' 'Q4 5.7'>.1< .18

W' 55% G .>'?1, ;>>'<7'U '?41. / .47'>.]> 76'; , / ?7.6 '

66. / 05>.'%<'5 ,<'5.' >J 6E'5 -.'1.; , ,>' 7'=4.=4.5=4.6' '17 ;5.6'6,<5'64Q.76'U ; ,<7.67'7 ,<G .55.' ,1>,<<.1" 5" ; , / M / 4< ; '7 ,<'>.6'; , / ?7.6'U 'J.<7> '71#6,1'?405 ;8'U .7E.7' ?'1'54 '>.'?,416 - .'5";>0 .67'7 ,>'>. '<7'50'71 04<'5'>4' > 671 ;7' >'<6'5.'7.11 7, 1.'>4=4.5'5"71#6,1.1 '<'5 ,<'5.' ,?' 5";' 66.'>.'1.@71' ,1> <' 7.'6.1,<7' .7'05 .68

" "% .'1.; ,77-1. / .<7'>.6'>.0.56' 1.6457'<7' >.6' '1107.6' >.'; , / ?5.6'6.1"?,4164 -B'; ,<71.'5.6'1.; .-.416'>.'> 671 ;7' .7'5.6'1.; .-.416'?'17 ;45 .16G'U'5" 1.=4#7.'>.6'; , / / 66' 7. ' >.'5" 71.6,1.1 .'<'5 ,?'5.'?,41'; .'=4 '>, 7'1.<71.1'U'5'>7#' 71#6,1.1 .I' U' 5" 1.=4.7.' >4' 71E, ,1 .1'>.' .@71' ,1> <' 1.G' 6,46' 5" 641-. 55'<; .'>.' '> / < 671'5.41'>.'5'> .'; '66.G ?,41'; .'=4 '>, 7'1=<71.1'U 5";' 66.'>.'1.@ 1' ,1> <' 1.8' .' 1.; ,4-1. / .<'>.6' >#0.76'1>64 '157'>.6' '11#7.6'>.'; , / ?7.6' 1.<>46'?'1'5.6'#, / / 66' 1.6'>.'5"71.6,1.1 .'<'5 ,<'5.G'.7' ?'1'%5.'71>6,1Q;E'>.' .@71' ,1> ' 1.8'6.1"?,?16? -'U'5" 1.-' =4,7.'>.' 'J.<7'>4'71#6,1'?405 ;% $

$' "% ,46'1.; .-.416'?'17 ;45 .16'; , / ?7'05.6'U 5" 1 6,G' 1.1 .'<'5 ,<'5.',4'U'5"71.6,1.1 .'>.'^.@71' ,1> <' 1.'6.1,<7' 7.<468'6,46'5.6'?. <.6'?,17#.6?'1' '17 ; .' '>4'5 71.' ' >4' > ;1.7'>4' 'Q4 5.7'>.1< .18'>.'1.1'.771.'5.416'; , / ?7.6' '4@> 56' 71 6,1 .168' '4' h' Q4 <'>.' ; :'=4.' '<<#.' '4' ?546' 7'1'>8'?,41' '<< .=4 ' '41''E 4' '4' 5'> ;. / 01.'?1.;.>.<7% % 0" % -'<7'> '>1.66.1'5.416'; , / ?7.6' '4@' 1.6,1 .168'6, 5' >.'5";' 66.'<'5 ,<'5.8'6, 5'>.'5" ;' 66.'>.' .@ 1' ,1> <' 1.8' 5.6'1.; .-.416'>.'> 671 ;7' 5.6'E.1,<5' ?'66.1' '4'> 1.;7, 1.'>.' > 671 ;78' ?,41'=4 5'?1,?,6.'5.6' ,06.1-'7 ,<6'>,<7'5.'; , / ?7.' 4'?'1'571"646; .?7 05.% .6'> 1.;7, 1.6'>.'> 671 ;7'<.'??41' 1,<7'1;7.< 1'5.'; , / ?7.'?546'>.' =4 <0.'Q,416'?,41' .<'E' 1>' ." ' / .<% (' 1.; .-.<1'7.'1. / .751" '4' > 1.;7, 1.' '4' ?546' 7'1>'5.' 'G' / ' 8'>.' / '< #1.'=4.8'6,46'4#4<' ?1>7.@5.8' 5" 1. / 6.'>4'; , / ?7.' .<71.'5.6' / ' <6' >.6'; , / / 66' 1.6'>.'5" 71.6,1.1 .'<'5 ,<'5.8' ,4'>4' 1.6,1 ;1'>.'1.@ 1' ,1> <' 1.'G' <.'?< 66.'>71.'> <. . '4'>.5 '>4' GHQ4 <%

' " % .6'; , / / 66' 1.6'>.Q5"71>6,1.< .' .7' .'71.6,1 ;1' >.' .@ 1' ,1> <' 1.'6.1,<7'7.<468' 6,46'5.6' / > / .6'?. <.6G8' >.1. / .7 1.''4'041.'4'>.'; , / ?5'0 5 7>'5.'; , / ? .'>.'.0'=, .' '<<>.'5.' 'U,E 7' '4'?546'7'1>'>.' '<<>.'64 -'<7.%

W " 557%' .6'; , / ?7.6' '<<4.56'>.'5" 71>6,1.1 .'<'5 ,<'5.' .7'>.'5" ;' 66.'>.'1.@ 1' ,1> <' 1.' 6. @<7'1.<>46'?405 ;6' ?'1'5"-,5.'>.' / ?1.66 ,<8' .7.<-,V>6'U'7,46'5.6'>>?'17.G' <.<76% .6'; , / ?5.6'>.6'1.; .-.416'>.'> 671 ;7'6.1, 65' / ' ?1 / >6G' .<-,V>6' '4'>>?'15. / .<7'; 5'U'7,<6'5.6'> 651 .56'>77' / . / .'>>?'17. / .<7% % 8'

.' 5 % 0'<6'5.';'6',U8' ,16'>.' .@' / .<'>.6'; , / ?7.6G' 5' ?'1' 51' 7'=4 5' V' ' 5 .4' U' .@.1.;1' ';5 , '1>6457'<5'>.'5" 1.6?,<6'0 5 5>'; ,<71.'=4. =<.6 4<6'>.6' / 5 671.6' ,4' '471.6' 'J.<76' >4'?,4-, 1'%.@>;47 E8% 5.' 041.'4'>.' ; , / ?7'0 557>' ?,411"1.=4>1 1'>'0,1>'>.6>76' / 671.6,4''471.6''J.< 6' >4'?,4-, 1'.@>;45 E'5.6'>;5'1; 66. / .<76'=4 '54 '?'1' 51,<7' <.; .66'1.68' 41'5.'; , / ?7.'=4 '.<'6.1"1.<>4'U 66. / 05>.'

F%%% %

[illegible]

;,<-.<7 ,<6'=1G5E'47 '5'' ,# 7.' '.55#> :'0. , <'
?546J1'<>'.<;,1.'.7;, / / 4< '7, 7;6'5.6';5'66.6'>.'
#7,V.<6I 554 E'47>.6;.17 E ;'7.416>.6; , :71'76 >.6'
,E5 ; .16' =4 ' .<' '75.67.<7'5'' -#17>' .7' .<' ; <6';1.<7'
5''>'7.' . '4<' / ,78 & [' ,E5 ; .16' =4 '5.7 1' 7 B / .7 7'
#. ;'1Q ;7.1.> '47O.<7 ; 7#6'<6'5.=7 .5'5'' 5, '<.'('
5.6'1.;,:<'77 .8' <''6641.1'5.6'>1, 76'=4 ' .77>;1 -.<E%
#.?.<>' 7' ,1J'<6'7 ,<' ';74.55.' >.6' <,7' 7.6'
QP.<7 .55.'.7E.';,<6.1-..'>'7 '6,<' .<7 .18' ,4'0 .<' ' '
7 .55.'0.6, <'> .71.'1.E,1/ ..Z
'E' 7> 67 <J4.1'5.6'7 ,7' 1#.'>P>.0 7 ;5'66.6N'5.6'
<,7' 1;6' 3 ' .7'5.6' :,7' 1.6' '?, 7,5 =4.68' 6. '
J<. 1 '4@' .7' ' ,71.6%
' .67 #5' 1'=4.' ;.6'>.7< .168' .7' '-.#' & ' ! ,'5.6'
,E5 ; .16' >4' < 577 .' J.<1.8' ,>6'=4.5=4.' >.<, / <' '
7 ,<' J4 56' .@ 67.<78'>, 7.<7' 71.'64??1 / #6I'5.64<6'
>;-' .<7'5.41' <67 747 ,<' '' '<; .<'1#J / .' .;;5.6 '6'
7 =4.N 56'> 6?'1' 66.<7'-.#'54 I'5.6''471.6'.@ 67' .<7'
?'1'5''E>,>'5 7.N 5 >, -.<77, <0.1''-.;.55.%' 8
34'<7' @'<,7' 1.6'1,V'4 8' ,<'<.'?.45'7<>;,<:'E'
71.'1 11.J45'1 7.>4'?5';. / .<7';74.5'>.;.6',EE ; .16'
>'<6'7.5'5 .>' =>'1. ;5' / .' 5'' ?1.6.<;.'>.'=4'71.'<,M
7' 1.68' 5'<.' .<'71,4 .'=4 4 ' .45I'>'>6'7.5''471.8'
4<'6.45'<,7' 1.'64E7 1' 8'=4'71.'6 V'71,4-.<7'?5';>6''
.<E <' ' .677.55.'.7.<>4.'>.?'V6' '66.O' ;,<6 >.1'O5.'
, 5' ' < .<' .@767.' '4;4<%' '6' 6417,47' 7E'?1.6' >'
> - 6 ,<' >>'1,V'> / .' .<' >.?'17.1'.<768' > 671 ;76' .7'
#'<7,<68' 5'.67' / ?,66 O5.'>.'<.'?'61.;7 5 .1';.'?5';.M
/ .<78''E 17' =4.';<'=4.'6.;7 ,<' >#'5''> - 6 ,<' ?,5 7 '
=4.' ,O5 .<<.8' .<'1' 6,<' >.' 6. ' 0.6, <68' 7, 7.6'5.6'
<67 747 ,<6'=4 '54'6,<7'<.;.66' 11 %
' 55.7 16' -, ' 5, 6' 47 1'0,5 7 , 5' ' 5'' #>1 '5 7>'
#, / ?1.<<.<E' #6' ,EE ;.6'>.'<,7' 1.6' ;, E7 / .'7,46'5.6'
'471.6' ,EE ;.6I'5'' -.<'5 5#'>.6' # / ?5, 6' ?4O5 ;6' < .67
0,<:.'>1 .Q'=0 >' ;,11 ,<1?1.' #6' <67 747 ,<6'5.6'?546'
?41.68' .7' E< V '' '<;><.'1'6 :'?,41'E' 1.' .@;.?7 ,<'
'4@'?1 ; ?.6'6'J.6'=4.'-,>6' '-.O'>7'O5 6%
#47 'E,<;7 ,7 6' <.' >5EE.1.1,<7 ?'6%'0.'4;,4?'>.'
;.55.6'>.6'<,7' 1.6'>'<6' '<; .<',1>1.'>.'#:,6.686, 7'
?'1#.'=4 .<' .EE;7 ;.57.'?'15 .'#7' 7'66.O'0 .<' ,1>,: '
<..' '<'E,<>8' 6,E7 ?'1#.' =4?' 5. ' ;:'<J.<5.<76' =4'
>, -.<7' V' >71.' ??,1 #6'>.?.<>1,<7'0.'4;,4?'>.'5''
1#E,1 / .' >.' <,71.' 5.J 65'7 ,<' 8'=4 '> .67' ' .<;,1.'
E,17' '-'<;>#I'>.'7.55.' ,17.'=4 5'6 'J 7' / , <6' .<' ;.'
<,7,.<7'>.'1#J .1'7< .4 ' ;.6'7,<;7 ,46'=4.'>.'>.7.1M
/ <.1'5.' / . 55.41' / ,>.'> .@ 67.<;.'>.';.4@'=4'>, M
-.<7'5.6'#. / ?5 18' .7'>.'5.6' ,1J'< 6.1'>.' 77 '< .1.'=4.'
5''5.J 65'7 ,<'<,4-.55.5.6'71,4-.8';, / / .' 7 ; ,<6.<7'
=4 56' 6, .E 78' ?1,?1.6' '5 6 ';;, / / ,>.E' '' ' 5.6'
;:'<J. / .<76%
.6' <;,<-><.<76'J1'-.6'=4 .<71'E<.1Q 7'5''E'; 55#'
';;,1>..' '' 7,46'5.6' ;7,V.<6'> .@.1;.1'5.6'E,<;7 .<6'
>.'<,7' 1.8' 5'1#6457.'=4.' ;.4@ 5''6.456'?,411,717'5.6'
1. / ?5 1' 7'=4 '> .6' ,47' #9'>.?'15 .6I' / ' 6' 5' 1.6E.'
.<;,1.''6''-, 1'6'5.41'< > O1.'>, 7'>71.'5 / 7#' ,<'6 5'
?,411''6 .7.<>1. <>.E 0 / ; 5%
1,?'6,>-.<78' #<'#7'O5 66'<7'>.6'E,<;7 ,<6' ?4O5 '
=>.68%,<'?.1>' & '-4.'1 <7#1>7'>>'E>E #5 ,<<' 1.I' ,<'
#1, 7'< '-, 1'?546'1 .<''E' 1. ,16=4.' .6'>.-, 165> ,<7'
#7.'71';.6I' 5' . / O5.''5,16'=4.'7,47' '7#5#'?1#->'?,41'
5.'?546' J1'<>' '-'<E'J.'>.'5'' 6,. .5#%' ' 6' ;.'< .67
?'6' .<;,1.' '66.O5 5'E'47'=4.'#.6'>.-, 16'6, .<7'1. / '
?5 68' .7 5'< .67 J4#1.'>.' / ,V.<'?546'6>1'> '77. <>1.'
;.'O47' & '7,47.' <67 747 ,<' =4.'> '77';:.1'5.6'E,<;'
7 ,<<' 1.6?'1'E.O1?1,?1.' <7#1JE' ' ';;, / ?5 6. / .<7'
>.'5.416'>.-, 16.7' '7'6>..#6'>.'5. 1'7< 66 ,<I' .7'6'
,<'>7..?7.'=<.5=4. '?5';.6=77 <<;'J1'<>.';,<6 >.M
1'7 ,<' ';;, / ?'J<.' ,4'=4.' >.' J1'<>.6' .6?.1'<.#6'
.<- 1,O<.<7Q >'?5O?'17'1.67#1' .<7'-'#'<5. '6' <'
7.1.7'.7'5.'0.6, <' 2 ''??.5'7#17'>;6' .,<; 11.<E6%
34'? <11' 7Q'?'1'. ?/?.8' .'7,77.1' '77b'E,<;7 ,< '
>.'<,7' 1.8'=4 '?,<17' '6417,47' 6.'5 -1.1'>4@'5,< '
8J4.6'.74>.6'=4.' ;.7' .7'5'.@7J.86'<61. ?, 1'> V'71,<'
-.1'4<.' :,<<.7.'.@ 67.<;.Z

$ ($$).(' -(' * ,$$$.3 ' (,+$,' $$ $*$ b / $, >''
;.4@'=4 6.6.1' .<7'E' 7'O4J.1; '?'O5.6>.' 5B1.?,4 G
-' .<7 #71.'.>'.EE.7877 .67 5'?' ' 6#>.'?1# , 1=4 4<'
1.5>;:. / .<7'E>;:.4@8' 4<.' ;4> ?5' 6'<7.' <>45J.<;.'
<71,>4 1' 7' ?.4' >'?.4' >'O6' . ' / .<' >.6' 64Q.76Z'
,<' -.11' 7' 0 .<7E 7' 6 ';;1, 71.')#.(' 77 .641.' ; .77.'
#5'66.'>.'E,<;7 ,<<' 1.68'=4'<.' .1' 7'?546' #5 7.'>. '
#7,V.<6'?1,0.6' .7' <6714 7687. ' '4<'1' 6. / O5. / #<7'
> :, / / .6' 7O.> ,;1. / .<7.;5' 1.68' #> 6?47'<7'0,55'
+';,<E '<;.8' <' 6'5.'?1,>4 7'>.'5'';,<0'<;.'>.'5.416'
?,<; 7,V.<68' .7'7,46' 71,?' 1'1. / .<7' (4 8(''?,41'
#51.'6'7 6E' 76'> 4<'5.J 7 / .'6'5' 1.%
' ,O6' '-, '>,<.'?.<6.'=4.'5.'<,?7O1.'>.6'<,7' 1.6'
>.-' 7'.71.'5 / 7#8' / > 6'=' '4#4<.'O'6.'E@.' .7'J#<#'
1'5.77 .<7''??5 ;'O5.' '' 7,47.6' ?'17 .6'>4'1,V'O / #'
0.'?,4-' 7' -,46'5 1.'?1.6.<7>.'.<';.' / ,EE5. 57I ? 46'
r,46' ?1,?,6,46' .<' ;,<6.=4.<;.' > '77.<>1.'5. ' <M
6714;7 ,<68'1.<6. J<. / .<76'.5'>.1''<>. '?' 7 #45 .1.6'
=0 ' -,46' .1,<7E,47< 6'?'1'5.6'> 7.1 '>.?'15. / .<7
<.' .@ 67.<;.'-.16'7 5.' .7' 64Q.77.' '' >.6' #:'<J. '
<.<76'?.1 ,> =0.6'<.'?.<7'; ,<-.< 1'6,46 '4; <'1'?M
?,17' '' .7'7>.'<,7' 1.I'5''?.1 / '<.<;.' < '' 1 .O' ;'
= ' .EE1' .'5'' 5 0.17.I'5.' 0,7'11.' < .67'?'6' 4<'Q4J;8'
> '5 6'7 <' #,<6#158' 4<' ' <'>.6' ?'17 .6I' E'< ''6O1'WR5.6'
'4;4<.''47,1 7#' >,<7' 5' ?, 66.''O06.E8' .78'5, <'> ' '
-, 1' ' '?1.6;1 1.8' 5' .6E' ' ;,<7E' 1.' ,1J'<.'>>'
5.41'-,5,<7.I .<'O<' / ,78' >'1.>,416' 9 ,<' 77 < 67#1>'
< ''1 .<'>.'E,1.>I' 5'7 .<7'6.6'?,O-, 16'>.'5''5,78' / ' 6'
5'' ; <E '<;.6.45.'54 ' .<'>,<<.5 .@.1; ;.%
'' ;,B ?>7.<;.' >.6' <,7' 1. ' < .7' 7' 7 .E5' / , <>'
=7 4< E,1 / .' >'<6' ';; .<' 1>1.' >.' #:'6.6%' ,46'
'- <6'?.<6>'=4.' 2% ' >.6' ?1 <; ?'' 7'-'<7'J. '=4'
6;'1.<;,<71' .<7'>'<6' <67 7 7 ,<'>.6' <,7' 1.68'. . '
7' 7'>>?'1J<.18'>'<6'7 47. '5.6' # 1;,0 E'<;.6' ,4'E.4>'
E< < 67.1.' '-' 7' >7>' .77 ?5,V>8' >.6'1.;,<<' 66'<;. '
> .;1 741.6' 5,<J4.6' .7' > EE ; 5.68' .7' =4 >7.<>1#' 5''
;, / ?.7.<;.'>.';.6',E5 ; .16''4@'5 / 7.6'>4'1,V'? / .8'
;.'6.1' 7'?.1>1.'4<.'?'17 .'>.';.7''-'<7'J.',4'6 .@?, '
6.1''>.'J1'-.6' <#,<-><.<56
'5'' ?1,?,6 7 ,<'>.' ;,<6.1-.1''O57' ,EE ;.6'>.'<,M
7' 1.6'5.'6;.'77'>.5'' ><'5 7>''-' 7'?''7,46'> 1.'E' 7.8'
'<6>,O7.' ,<' '41' 7'?1 <; ?'5.E7 .<7'??4V>.641;>'
=4.'5'' -'5.41'>.' ;.6' ,5E ;.6'?1.6.<7' 7' 'O'?4O5 ;'41 .'
J'1'<7 .'>.6'E' 56'>.' ,EE ; ;1%
.6'<,5'1. '6,<7'>. E<>6' '1. / ?5 1'>. E,<#7 ,< '
71,?' / ? 17'<7. '? 4 '=4.'1 .<' 17# J'1'<7 6 .' '' 5''
6,; #7.'5''1.?'1'7 ,<' >.'5.O16' .11.4768' .7' / >1'#8' '4 '
7'<7'=0 5'#67'?,66 O5.8' #.55.'>.'5.416'?1.-'1 ;'7 ,<6%
<6' -,46' 'O,5 1.O' 5'' -.<'5 7.' >;6' EE ;.6'<,E'1 .568'
/ ' 6' -,46'< .<5.-.1.O'?'6' 'O'?4O5 ;' ;' J'J.' >.' 6>'
;,<E 'O.#I' -,46' 1.<>1.O'4' ;,<71' 1# #.' J'J.'?546'
;.17' <' .<;,1.' <'54 ' '66 J<'7 7,<.'>.67 <'7 ,<'4< M
=4.' .7'?1.; 6.'=4 5'< '-' 7'?'6' '<7.1 .41. / .<7%
, / . ''4@'; 7,V.<6' #, / / .' <6714 / .<76'>.'5.41'
-,5,<7.8'5.6'<,7' 1.6'6,<7;, / ?7'O5.6' .<-.16'7,46'>.'
5'' -#1 7.' >.6' ';7.6' =4 56' 6,46;1 -.<7I' 56'6,<7'5. '
;,<6.1-'7.416'>.6' 71' 7.6'5.6' ?546' ?1.; .4@''4@'E'M
/ 5 .68'5.6'>.?,6 7' 1.6'>.'7,<6'5.416' <7.1>76I' ,4 '
;.5' '6?.;7 / / .<6.'1.6?,<6'O 5 7.' >.' ##6 ,E E ; .16'
.67 6'<6'>,47.' ?.O' E'; 5.' '' .-'57 .18' ,<' ?547,7' .55.'
.67' <'??1.; 'O5.' 6' ,<-.47' ?'1#,41 1'7,47.6' 5. '
;:'<;.6' ,E7 .55#' ?.47' >71.' .@.1;..8' .7' #'5;45.16''
/ '66.' '5''?,66 0 7 7.' >.6' / '5-.16'7 ,<68' >.6' .1 '
1.41 ' ,4' >.6'<.J5 J.<;.6'J1'-.68'6,4-.<7''4661?1> '
Q > ;'O5# '= .'5'' / '4-' 6.'E, ' .55. / >O5#%
3 ' ! ' ,<7'; u'>.'- , 16.'>.7.1 / <.1''#.7 J'1>'
>'?1#6' 5.6' ?1 <; ?.6' =4'7,<6' <7'J4 >.6' #<' E5@'<7'
5.6';'47 ,<<. / .<76'>.6'> -.16'E,<;7 ,<<' 1.6'?4O5 ;6'
=0.' ,46'V '-#b''66OQ.77 6I' 56' 7 # <6 57.'5.6';,<M
-.<'<;.6'1' 6,<<'O5.68' ?.164'>.68' ; , / / .'1 66. / '
a ..'O'5 ,<'5.'6. / O5.' '- 1'.7.8'=4.'5'' E@'7 ,<'>.'
#.6' 17.6'>.'J'1'<7 . '<#?.<7'7' / ' 6'E 71.'=4 'EO '
71' 1.'?'1'5''<'741.'1<> / .'>. ' ;:,6.6I';'1' 5< #@76E#'
?'6' >.'O'6.6';.17' <.6'6?41' .7'O5 18' .7'6 '>'<6' 5.
)(

E' 7 7W<'.@ 67' 78'. W6'>,<<.1' .47>.6'1>64 '76' / ' '
?,66 05.6' "1. / ?5 1%

<' '-' 5'?1,Q.7>'>.'E' 1.'E,41< 1';.'J'J.'.<' / \'
<.407.6I' / ' 68'6'<6'??1,E,<> ''4Q,41> :4'5"1.1 ['
7'05.'7:.,1 .'>.6';'47 ,<<. <.<768' <,46'> 1,<6'=4.'
<,46'-,<6'?.<6>'=4 '664Q.77 1'"4<'J'J.'.<' / / .4'
%0 .6'4<.';5'66.'>.'E,4;7 ,<<' 1.6' '466'<, / 01.4 '
=4.';.55.'>.6'<,7' 1.68';.'6.1' 7'55'<J4 1'> 4<.' / ' '
< 1.'?546',4' / , <6'6.<6 05.' ';7 - 7>'>.' 'J1 ;45'
741.8' .7' 1.7 ;.1'>4';, / / .1;.'>.6'7.11.6'4<.' / '66.'
Q>.'E,<>6'71 6G;,<6 >>1'0 .%

.<'> 0, / / .6' ,<7'5.416' ?1,?1 >7>6'?'1E' 7. / .<7'
5 01.68'.7';.4@'=4 '5.6' ,<7' ' <6';,<6.<7.<7> E5 ; 5.'
1'.<7'"5.6'J1.1.1'?,41'' 714 8'"6 <7.1> 1.'5"E';457>'
> .<'> 6?,6.1'?,41'.[/ > / .68' 6, 5' .<'5.6' '5 ><'<78'
6, 7.<'5.6.<J'J.'<7' ?,41' 5.41'?1,?1.';, / ?7.% #.'
J.<1.'>.'#'47 ,<<. / .<7' .67'>,<.'>.'6"<'741.'?.=('
E'; 5.' ',07.< 1%.7 55.>.- .<>1' 7'0 .<' / , <6'.<;,1.'
?'1'5.'J1'<>'<, / 01.'>.';.4@'=4 '6.1' .<7'>. / '<>.6'
>.'7,47.6'?'176%

<' ,46' ?1,?,6'777'>.6'E,1 / .6' <,4-.55.6' ?,41'
> .;7 ,<'>. '<,7' 1.6' ?405 ;68' '"?'14' "-,71.' >'
/ 7>'=4.'5.6'<,7' 1.6'';74.56'<.'>.-' .<7' ?'6'V'>71.'
'664Q.77 68' .7'=4.'6'<6';,<;,41686'<6'<,4-.5'.@' / .<8'
.7'>.'?1.E.1.<;.' 77,46' '471.68' 56'>.-' .<7>71.''>'
/ >'>'<6'5.'<,4-.5' .7'05 66. / .<7%' .6' / .641.6' =4.'
<,46'-,46'?1,?,6,<6' '' ;.7' .EE.7 6,<7';, / 0 <..6'>.'
/ '< .1.'=4' '4;4<'>.6'<,7' 1.6'1,V'4@'';74.56'<.'6.1''
?1 -.'E,11' / .<7'>.'6.6'E,<;7 ,<68'6, 5'>'<6'5.'5 .<' ,0'
5'5.6' .@.1=' 7'?1..>>. / / .<78'6, 5'>'<6'7,47' '471.'
5 .4'=4 5''41'' ;:, 6'?,41'6''1>6 >.<;.I' ' <6 8' ?546'
.41.4@'>'<6;.77.'1>E41 / .'=4.'>'<6'7,47.6';.55.6'=4.'
,46' '-.0' ,?>1>.68'-, 6' '41.0' .<7 .1. / .<7'1.;, / '
?,6>1=1J'< 6'7 ,<'<,7'1 .55.6'<6>71.',05 J>>.E1'?'
?.1'5.6' <> - >468'.7'>.'5.6'?4< 1'.4'=4.5=<.'6,17.'>4'
- ;.'>.'5.41',1J'< 6'7 ,<''<7>1 .41.%

, ' ' '

34.5=4.'6, <'=4.' ?<'?1.<<.'>>- 7.18'>'<6' >7'7'
';74.5'>.6'<,7' 1.68'4<'0,45.-.16. / .<7> '47'<7'?546'
''#1' <>1.'=4 5' <>4.1' 7'641'5.6' 'EE' 1.6' .7' 641'5.6'
<7.1>76'>.6'E' / 5 .68' *'<.'?.<7'7,47.E, 6' ?1>-.< 1'
4<'>>1'<J. / .<7' ?546',4' / , <6';,<6 >.1'05.'>'<6'
5.6'?5'';. / .<76'';74.56I'>.' ' ,05 J'7 ,<'>.'67'74.1'
41'5.6' / <47.6'>.6'<,7' 1.6' .<'J><>1'58' .7'6?>; '5.G'
/ .'7'641'5.6'>>?>76';,<6.1->6'Q46=4 '' ?1>6.<7'>'<6'
>.6'1>6 >.<, .6'=4'< .@ 67.1,47'?546''5,16%

#.'>>?>7'>.6' / <47.6'"?,41' ,0 7'>'6641.1''4@'
;7,V.<6' .@ 67.<;.'>.'5.416'5 71.68'5.41';,<6.1-'7 ,<'
.7'5.' / ,V.<'> .<'?1,;41.1'5"1.?1>6.<7'7 ,<'5,16=4 56'
.<',<70.6, <%' 1'1>7'05 66. / .<7> 4<'6.45>>?>7'>'<6'
;:'=4.'1>6 >.<;.'.67'5, <'>.'?1,;41.1'7,46';W6''-'<'
7'J.6%

8'?'1.@. / ?5.87,<7.6'5.6' / <47.6'>.6'<,7' 1.6'
>.' '1 6'>7' .<7'>'<6'4<'>>?>7'J><>1'58'?,411' 7 ,<'
1' 6,<<'05. / .<7'>.;5'1.1'1.6?,<6'0 .'>.'5"?.17.',4'
>.' '57>1'7 <'>.' 4<.'> .55.6'4<'>>?,6 7' 1.'4< =4.Z
''41' 77,4Q,416''55>J4.15''> 7 ;4 7>>.6 >1 <;''
7 ,<6'5,16>4'>>?>785''E'; 5 7>'=4 ,?7 .4.'5.6'<,7' 1.6'
> '046.1'>.';.7. / 0'11'6'?,41;,4-1 1' <06.<;.',4'
>>1,0.1'5.6'- ;.6'>4<.' / <47.8' .<'4<' / ,7 7,47.6'
5.6';,<6 >>1'7 ,<6'>>=4 7>'=4'1.<>1' .<7'6' ?.< 05.'
5'' ?1,<,<; '7 ,<'> <<.'1.6?,<6'0 5 7>'6>-.1.% #:'M
=4.',EE ; .1'>. / .41'<7' '<' ;,<71' 1.'J'1> .,'>.'6.6'
?1,?1.6' / <47.68'5''1.6?,<6'0 5 7>'.67'?5. <.' .7'.<'
7 .1.I' 5' < .@ 67.''4;4<' / ,V.<'> .@;46.'?,416 .<'
>>E.<>1.8' .7' <7>1>7'>.6' ?'17 .6'6.'71,4-.';,<6>'
=4. / / .<7'0.'4;,4?' / .4@'.<'6>1.7>%

#.67'?,<1'5''6,; .7.'4<.'1.6?,<6'0 5 7>'71,?'J1'<>.'
=4.'5''E,1 / '7 ,>'>.'7.56'>7'05 66. / .<76%34'?.47'.<'
.EE.7' ;'5;45.1'5.6' / '5:.416'=4 .<71'5<.1' 7'5'' >.M
6714;7 ,<'> 4<'6.45'>.';.6'>>?>768',;;'6 ,<<>.'?'1'4<'
';; >.<7'=4.5;,<=4.8'7.5'=4 4<' <;.<> .84<'? 55'J.'
.7> '471.6'>1>'.1'.<76Z

'<6' >,47.'5.6' >>?>76' ?'17 ;45 .16' <.'6,<7'?'6''
'01'>.';.6' ;'7'671,?:.6I' / '6' =4.' :'0'7'7 ,<'
> 4<'<,7' 1.6, 7' <;.<> ..8';.' / '5:.41'>4' / , <6'<.'
1.Q' 55 7'=4.'641'4<.'?'17 .'>.6'; 7,V.<68'.7'.<;,1.'56'
,<7'5''?,66 0 5 7>'>.'1.71,4-.1'>'<6'5.6'>>?>76'-, 65<6'
=4.5=4.6'1.<6. J<. / .<76'47 5.6I / '6'?'1' <;.<>.'
> 4<' >>?>7'J><>1'58' 4< -.16'5 7>'>.6'; 7,V.<6'6.1''
E1'??>.8'5.416' <7>1>76'.7' 5.416' >1, 76' 6.1' .<7' ''Q'M
/ '6' '<>'<7 6' 6'<68' '4;4<' .6?, 1'> .<'1.;,4-1.1'5''
/ , >1.'71';.%

,41'?1>-.< 1'5.6'64 7.6'E4<.67.6'> 4<'7.5';; >.<78'
,<'.@ J.1' 78'> 7 ,<8'5.'>>?>7'>'<6'>.6'5 .4@'> EE.1.<76'
>.'?546 .416';,? .6'>4' / . / .'';7.I' / ' 6> '0,1>8'4@'
E1' 6'>.'=4';.6';,? .6'6.1' .<7 .55.6E'>.6Z' 56'6.1,<'
>;.66' 1. / .<7' 64??,17>6' ?'1'5.6' ?'17 .68' .7' ; .67'
'5,16'4<'->1 7'05.' / ?>7'6'<6'<.;.66 7>I'> ' 55.4168'
;.77.' / 457 ?5 ;'7 ,<'>.';,? .6' .7'>.'>.?,76?1,>4 1' 7'
.55. / . / .'44.E, 5.> <;,<-><. 768'7.56'=4.'5''?4'
05 ; 7>71,?'J1'<>.'>.';.17' <6'';7.68'5''?,66 0 5 7>'>.'
;,11, / ?1.'14<'>.6' >.?,6 7' 1.6' ?,41'.<' ,07.< 1'5''
;,<<' 66'<;.'.7' .<' '046.1'.<64 7.%

<E <'5.6'>>?>76'J><.1'4@'6.1' .<7'5%, <'>.'?1,;4M
1.1' '4@' ?'17 .6' 5'' E'; 5.' ;, / / 4< ;'7 ,<'>. ' ';7.6'
>,<7' .55.6' ,<7' 0.6, <I'=4.5=4.' / .7:,>.8'=4.5=4.'
- J 5'<;.'=4.' ,<'??,17''>'<6' '11'<J. / .<7'> 4<'
<, / 01.' 6' ?1,> J .4@'>.' / <47.68' 5' .67' E'; 5.'>.'
;,<;.-, 1'; / 0 .<'5'' 1.;:.1;:.'.<'6.1' 7'5,<J4.' .5'
> EE ; 5.I' .7'6' 4<.' E, 68' ?'1'.11.41',4' ?'1' 4'>-.1'
7'<;.8'4<.'6.45.'>.';.6' / <47.6'-.<' 7' ''>71.'>.?5''
.>.8' =4.5 .6?, 1' 1.67.1' 7 5' >.' 5'' 1.71,4-.1'>'<6'
/ / ,<6 7>'>.';.55.6',4' .55.''41' 7'>7.';,<E,?>4.'Z
Q,47.0' ''7,46';.6' / ,7 E6'5''>.?.<6.';,<6 >.1'05.'
?,41' ';=4 6 7 ,<8'5'';,<6714;7 ,<' .7' .<71.7 .<'>.6'
0 7 <.<76',4'5.6'>>?>76'6.1' .<7'>7'05 6%

,% ;, / 7>6' ,<7'>,<.'1.Q.7>';.'?1. / .1'?1,Q.7I' 6'
E,1 / .'>.6'>>?>76'?'17 ;45 .16';:.0'5.6'<,7' 1.6'5.41'6'
6. / 0 >' ?1>E.1'05.' 2' 7,47.' '471.I' >.'<, / 01.46.'
71'<65'7 ,<6'>.'6. / 05'05.6' >>?>768' .7' 6417,47'>.'
71'<65'7 ,<6'>5, J<>.6' '41' .<7'>.' J1'-.6'>'<J.16'
#:'=4.'E' / 55.''6.6':'0 74>.6'> 'EE' 1.6'>'<6'7.5', '
7.5'5 .>'=4' '-, 6<.'I' .55.'6' 5'=4.'5''1.?,6.<5'6.N
5 71.6I' .7'6'7,47' '';,4?' 56' .<'>7' .<7'>>?5';>6'?,4'
>71.'?,17>6''4'5, <8' 5'6 > >-.1' 7'>.'5,45.6'?'176'>.N
;1' <7.68'>.6' <;.17 74>.68'>.6' . / 0'11'6I' .7' 5' .6'
>J'5. / .<7'Q467.8'E'; 5.' .7'?14>.<7' > .<' >7.1'5.'?1.'
7.@7.%

,41'-,46'1'6641.1';.<71. <64EE 6'<;.''??'1.<7S'
>.6' ;'477,<<. / .<768' <,46'>.-,<6' ,06.1-.1'=4.' :'
?546'6>1'J'J.'>.1.6?,<6'0 5 7>>.6'E,<;7 ,<<' 1.6'?4'
05 ;6'>, 7'>71.'?5'';>'>'<6'5.6'?1.;'47 ,<6'=4'';;, /'
?'J<.<7'5.41';:, @N';.7' / ?,17'<7' ,0Q.7'>, 7'6,55 ;'
7.1'?1 <; ?'5. / .<7'-,71.''77.<7 ,<%

''-><'5 7>'>.6' ,EE ; .6'>.'<,7' 1.6'>7'<5''0,5 .8' '
<.'6.'?1>6.<7.'=4.'71, 6' / ,>.6'> -.16'?,41'5.';:, '
>.;.6' ,EE ;.6I'5''<, / <'7 ,<'>4'1, 8' >5.;7 ,<'>'
?.4?5.8'5''E,1 / .'>4';,<;,416%

,46' ?1.66.<7.0' =4.'-,6';, / 7>6'<.'6.'6,<7'?''
E,17'??.6'<7'6'641'5.'?1. / .1' / ,V.<I'5.6'E,<;7 , '
>.6'<,7' 1.6'< ,<7' .<' .55.6 / > / .6''4;4<'>.6';'1';'
7 1.6'=4 8'> '?1.6'-,71.';,<67 747 ,<8'?,411' .<5'E' <'
1. / .771.'+ '?,4-, 1'.@>;47 E' .5.;7 ,<'><'64 .7% a,4'
;:.1;:,<6' ;'5.' / ,V.<'> ,05.< 1'>.'0,<6';:, @'I' .7'
?,41'?.4'=4.' ,<'1>55.;: 66.'> 4<.'?'17' '4@'= '5 7.N
<.;.66' 1.6'?,41'.<'>71.';:,<,1>8' .7'>.' '471.' ?'1'
'4'6>1 . @'.@' / .:'=4'>, 7'?1>.>>.1'5''>.7.1 / <''
7 ,<8' 5'.67'>->.<7'=4 4<.'<, / <'7 ,<'?'1'5.'1, 8','
?547>7'?'1'6.6' / < 671.68'6.1' 7'5, <'> ' . <>1.''.'
047%

$.';:, @'>.6'<,7' 1.6'?'1'5''-, .'>.' >5.;7 ,<'?,'
?<5' 1.'?'1'57'?546';,<E,1 / .' 2'<,6' ?1 <; ?.6I' / '6'
;,<6 >>1>6'6,46'5.'1'???17'->1 7'05. / .<7' / ?,17'<'
=4'<,46',;;4?.8'; .67 ' > 1.';, / / .' / ,V.<'> ,07.'
< 5'>.'0,<6';:, @8';.77.'E,1 / .'.67 .55.''> / 66 05.'Z
'< .<'.67?'6'>.6'<,7' 1.6';, / / .'>.'5''?5<?'17'>;N

E,<;7 ,<<' 1.6?405 ;6=4.'5.?.<?5.';:, 6 7I'5.6'>'
< < 671'7.416.7'5.6Q4J.6=4 5'6.'>,<<.8 5' "?4'5.6
;,<<' 71.'.7'5.6'??1.; .1'> '1'<;.I'5'"1./ '1=4.'5"
?14>.<;.'>.6'4<6>'<6>.6'?5';.6 <E.1 .41.68'5"6''
J';7.'>.6''471.6>'<6'5">.E.<6.'>.'5.416';5 .<76I'5'"
Q4J.';.4@ ;'?'1'5.416'>;1768';.4@ 5"?'1'5.41'1.?4M
7'7 ,<'I;<E<' 5'"?4'5.6 -, 1'>'<6>.6 '66./05..6'?,'
5 7 =4.68 .7'5.'64EE1'J.'=4 75.41'>,<<.'.67'5.'1.6457'7
>.' ,?< ,<'=4 5'"?1 6.'> .4@'>'<6';.6> -.16.6';1'
;,<67'<;.6I'6'<6;.5'8'6'<6';.' J.<1.'> ?1.4-.'=4'
7'05 7'>'<6'5"6,; .7.'4<.'6,17.'>.';,<;,416'?.1?.'
74.5 . / .<7,41.17'"7,468'=4.'6.1' .<7 ;.'=4.'5.6' 5.;M
7 ,<6'?,?45'1.68 .7'641'=4, '6.1' .<7' > 7.1/ <.6'5.6
64EE1'J.6'>4'?.4?5.'Z
'6'1.5'71./ .<7' '4@'<,5' 1.6' 5' < .@ 67.' '4;4<'
/ ,V.<'?,66 05.'>.'?1 ?'1.18> ;5'1.1' <6'" '-'<;.'
,?< ,<'>.6' 5.;7.416I .7'> '0,1>'5.' J.<1.'>.6' 74M
>.6'4@=4.55.6' 5'E'47'6.'5 -1.1'?,416.' 1.<>1.';'?'M
05.'5 4<.'6 /?,17'<7.E,<;7 ,<< .67'?'671.6 ?1,?1.'
"E@.1' ' .<7 ,<'>4'?.4?5.' .7'"54'E' 1.'> 67 <J4.1'
5.6' .-.6'=4' / 1 7.1,<7'4<'Q,41'> ,07.< 1'6,<'64EM
E1'J.'I'7,47'";.7.J'1>'6.'?'66.'>'<6'5.'6 5.<;.8'>'?6
'06;41 7 '>.'5" 1.71' 7.I'5.6'<, /6' .7'5.6'=4'5 7.6
/ ,1'5.6'>.6' 64Q.768'5.41''?7 74>.' ,4'5.41' <:'0 .7'
4'6 <6714 1.8'5.41?1,J1.6' ,4'5.41' <4'?';7 8'6,<7'
J'5./ .<7' J<,1 6%
.'?.4?5.''11 -.1'">,<.'";.6' 5.;7 ,<6'6'<6'-,1'
'4;4<''-6'E,1/ '641'4<6.45'64Q.7" 5 1.N'=4 5'<, / M
<.I' =4.5'6.1"5.'1 6457'7'>.'6,<';:, @8' .7'?.47 ,<'
1' 6,<<'05./ .<7'6 .<'?1,/.751.'>:.41.4@'.EE.76Z
,6';, / 7 6' ,<7?1.5 1 '5"-, .'>4';,<;,416' 77,47.'
'471.'E,1/.'> 5.;7 ,<'6 /?5.%
8 "64??1.66 ,<'>.'5" - <'5 7 '>.6' ,EE;.6' >.'<,'
7' 1.6'.7' ,1J'<6'7 ,<'<,4-.55.'>.';.6' ,EE; .16'?4M
05 ;6'.<71' <.<7'4<'1./0,416./ .<7%
.'?1,Q.7%=4.'<,46'-,46'?1,?,6,<6''8'>'<6'7,47.6'
6.6'?'17 .68';.5" > '-'<7'J.4@'.7'>.';,<6,5'<78'=4 5'
?1 -.'?.4'>.';5,V.<6'>.'5.41' 7'78'.7'=4 5'6.1"?.4'
,< 1.4@"5"<'7 ,<%
,41'<.'>.-.< 1'5 0 1'5'.<-.16'4;4<'.7' 71.'Q467.'
.<-.16'7,468'-,6';, / 7 6'0<7'?.<6 '=4.8'-4' <'?,6'
6 0 5 7 ',>'5" ?546'J1'4>.'?'17 .'>.6'<,7' 1.6'>.' '1 6'
6.'71,4-.'>.';,<67'7.1'5.' / ,<7'<7'>.'5.416'';=4 6 M
7 ,<6'8 .7' -4' '466' <64EE 6'<;.'>.' -'54'7 ,<'>.'
((8;.77.' -'54'7 ,<'>.-' 7' 71.1.;7 E .641'4<'7'4@'
;, / / 4<8' 7'05'> '?1.6'5.6'?1 @8'=4.56'=4 56'6, .<78'
>,<'7'5'?,411'" 71.'Q467 E '?'1'>.6'71' 7 68',05 J'7 ,<68'
=4 77'<;.68' ,4' '471.6' ';7.6' '47:.<7 =4.68' ?,41 <<'
;.17' <'<, / 01.'>.7.1/ <.'> ,EE;.6%
,46'?1,?,6,<6'>.'5.6'> - 6.1'.<'71, 6';5'66.6I'5"
?1./ 1.' ;, / ?1.<>1" 5.6' <,7' 1.6' 1.=46' '-'<7'5.'
5 1'Q4 55.7' ((I'5"6.;,<>.8'5.6'<,7' 1.6'1.=46''-'<7'
5.'5.1'Q4 55.7' () I'5"71, 6 / .8';.4@'1.=46'>.?4 6'
;.77.' ?,=4.'Q46=4 "?1 6.<7%
41'5" ?1./ 1.' ;5'66.' ,<'E.1"4<.'1 >4;7 ,<'>4'
7 .16'>4'?1 @';, / / 4<I'641'5"6.;,<>.8'>4'6 @ . / .I'
641'5"71, 6 / .8'>4'>,40 / .%
34'<7''4@'<,7' 1.6'>.6''471.6'> ?'17./ .<768''4@''
=4.56'6 '??5 =4.''466' 4<.'?'17 .'>.6'1.E5.@ ,<6'J '
< 1'5.6'=4.'<,46'-,<6'?1.6.<7..68'<,46'?1,?,6,<6'
4<' / ,>.'>.'1./0,416./ .<7'"?.4'?1 6'?'1. 5'"#.'
54'=4'" 7 '64 -'?,41'5.6' ,EE; .16' / < 67 1 .56%
.41'1./0,416.1'5.'?1 @'>.'5.41' -'54'7 ,<' .7'5"
/ , 7.' >4'641?546' >4'?1 @' ?1,4- '>.'5.41';,<71'78'
7.5'.67'5.' / ,>.'=4.'<,46'-,46'?1,?,6,<6'>'>,?7.1%
'?1.<>' -"54"7 ,<'.7'5.'?1 @'>4';,<71'7'?,41'0'6.8'
?'1..=4.' -'54'7 ,<'6.'1'??1,;:.'.<'J.< 1'5'0.'4'
;,4?'>'-'<7'J.'>4' ?1 @'>4' ;,<71'78'.7'=4.'5.6'<,M
7' 1.68'>'<6'5.6'> ?'17./ .<768'< ,<7'.4''4;4<.'1' 6,<'
>.'> 66 / 45.1'5.'-1'7'?1 @'>.'5.41'';=4 7%
%#:'?.5 .1'?1 61<7.'4<'?1,Q.7'>.'>. .1.7'>,<75.6'
?1./ .16''17 ;5.6'6,<7'>.;1.7 6.4';.6'7.1/ .6%

"'
5 00 ' ' ' 7 ' ' ' 'K ; '
' ' '0
' 5 %
5 00 ' ' ' 7 ' '

d' 17%5.1%' "- <'5 7.'.7' : 1 >7 '>.6' ,EE;.6'>.6'
<,7' 1.6' .7'7'0.55 ,<6'1,V'4@8' .7' ;.4@';,<<46' 6,46'
5.'<, /'>.' ;5.1;6' ,4'<,7' 1.6' '4@' <-.<7' 1.68' 6,<7'
'0,5 .6%
' %' .6' ,EE;.6'>.6'<,7' 1.6' ,<'7'0.55 ,<6' '47:.<'
7=4.68' '?,67, =4.68'6. J<.41 '4@8' .7'7,46' '471.6'
,EE;.6'>4' / / .'J.<1.8'6,46'=4.5=4.'> <, / <'7 ,<'
=4 56' .@ 67.<78'6,<7'64??1 / .6%
W' %' 6'6.1,<7'7,46'1./?5'; 6' ?'1' >.6'<,7' 1.6'
?405 ;6'>,<7' 7'05 66./ .<7'6.1"E,1/ .8'?,41'5.'?1 M
6.<7'.7'?,41' '-.< 18'' <6'=4 5'6.1"> 7' ; '?1 6%
V' %' 46=4 "5"E,1/ '7 ,<'>4> 7' 7'05 66./ .<78'
5.6'<,7' 1.6' .7'7'0.55 ,<6'64??1 / 6' ?'1'5.6' '17%5.1'
.7' '6.1,<7'5 01.6'>.';,<7<4.1'?1,- 6, 1./ .<7'5.416'
E,<;7 ,<6'>'<6' 7.4>4.'>.'5.41''<; .<''11,<> 66.'
/ .<7%
$' %' .1,<7'-'5'05.6'7,46'5.6' ';7.6' ?'66 6'>.?4 6
5"<,4-.55.'> - 6 ,<'>41,V'4 / .8'=4, =4 56' .<7 7'
1.;46'?'1'>.6'<,7' 1.6' ,471.'5.6'5 / 7.6'>.'5.41''<M
; .<''11,<> 66./ .<7%Y
' %
, ' ' '0

17%?1%' '6.1" 7'05 8'>'<6'7,47'5.'1,V'4 / .8'>.6'
E,<;7 ,<<' 1.6' ?405 ;6' ;:'1J 6'>.'1.;.-, 1'5.6'';7.6'
.@71' Q4> ; ' 1.6'.7'-,5,<7' 1.6'=4'6,<7'';74.55./ .<7'
>4'1.66,17'>.6'<,7' 1.6'1,V'4@' .7' '471.68' .7'>.'5.41'
>,<<.1'5.';'1';7.1.'> '47:.<7 ; 7 ''77';: ''4@'';7.6'
?405 ;6%
' %#.6' E,<;7 ,<<' 1.6' ?,17.1,<7'5.'<, /'>.\<,'
7' 1.6' ?405 ;6I' 56' 6.1,<7' <67 74 6' 2' - .8' .7' 56' <.'
?,411,<7' 71.'>.67 74 6' =4.' ?,41';'46.'>.'?1 -'1 '
;'7 ,<'?1 '5'05./ .<7'Q4J .%
$' %' 1,- 6, 1./ .<78' .7'Q46=4 "5" ;,<E.;7 ,<'>4'
;,>.';- 58'5.6'';7.6'>.6'<,7' 1.6' ?405 ;6'6.1,<7'1.M
;46'>'<6';:'=4.'5 .4'64 -'<7'5.6''<; .<<.6'E,1/ .6I'
.7'< '</, <68'>'<6'5.6'5 .4@', 5'5"?1 6.<;.'>.6'>.4@'
<,7' 1.6' 7' 7'7.@74.55./ .<7'1.=4 6.'.7'> 5'1..'64E'
E6'<7.'?,41';.17' <6'';7.68';.6' / /.6'';7.6'?,411,<7'
71.'1.;46'?'1'4<'6.45'<,7' 1.'?405 ;'.7'>.4@'7. / , <68'
J 6'>.'- <J7' .7' 4<' '<68' 6';:'<7'6 J<.18' .7''V'47'
> ' 55.416'5.6''471.6'=4'5 7 6'1.=4 6.6%
"6 '<;.'.67'5.- .'"<.4E':.41.6%

' , 4' KK 9' KBKKK%

41'5.'1'??,17'>.' %' '1,;:.E,4;'45>8'5.'> ;1.7'
64 -'<7'.67'1.<>%4N
W' 17%5.-%' ,16=4 5'6.1"?1,; > '"5'5.- .'>4'7.1'
1 7, 1.'> 4<.';, / / 4<'47 8'.<'-.174'>.' ,1>,<<'<;.'
>4'> 1.;7, 1.'>.'>.?'17./ .<78' <J < .41';:'1J.'>.'
,? 1'7 ,<'E.1"> '0,1>'4<' ?5'<'>.' / '66.'=4' ?1 '
6.<7.1" 5" ; 1;,<6;1 ?7 ,<'>.'5" ;, / / 4<'47 '.7'6"
> - 6 ,<'.<'6.;7 ,<68' .7'E,1/ .1" .<64 7.'5.6'?5'<6'>.'
>.7' 5'=4';, / ?,6.1,<7'5.'?'1;.55' 1.'>.'5" ;, / / 4M
<'47 %
$' %' <J < .4-'?1.<>1"7,4Q,416'?,41'0'6.'4<.'
5 J<.'>1, 7.'>,<7'5.6'>.4@'?, <76' .@71 / .6'6.1,<7'1. '
;,<<46'?'1'5.6' ,EE; .16' / 4< ; ?'4@8'=4' .<'>1.66.'
1,<7'?1,;.6 -.10'58' .7'5.6'E.1,<7' / '1=4.1'?'1'>.6'
0,1<.6' " 5" ;,<6.1-'7 ,<'>.6=4.55.6' 56' -. 55.1,<78'
?,41'=4.';.77.' 0'6.'?4 66.' 71.'1.71,4- .'5,16=4 5'
V'.<''41"0.6, <%
W< 5%' ,1 J <'5'>4' ?5'<'>.'5"; / / 4<'45 '6.1"
>.?,6 ''4@''11 - .6'>4' 4 ?'17./ .<78';,<E,1/ <.<7'
" '17 ;5.' " " " 55'>4'> ;1.7'>.6' '.7'C '', 7' (* 8'.7%
<J < .41''41"6, <'>V'<,7.1'5.6'?, <76'=4 5''41"
> 7.1/ , 6'J ,/ 71 =4./ .<7%

[illegible]

ʿ $ $$ʿ !Ó 3ʿ ʿ 3

Ĝ 8 *ʿ I ??<?ʿ (*f% $WSʿ -) ! ! ʿ YYYW\ʿ ʿ Sʿ (

3 %

a "K8

ʿ * ʿ (ʿC(ʿF ʿA ʿ % ! 40.18 .<-,V>ʿ.@71',1ʿ &Q 'H"&S]ʿ5" HU ! ?'J<.W .47 '-'< 0 .1'6" ?H. / 1.ʿ '4> .<;.ʿ>4 1, 8 .7 54ʿ?1>6.<7"6.6 5.571.6 >.ʿ;1#'<;.% 4 <,46 <'<>.ʿJ4.ʿ5.ʿ;,411 .1 1.<;J<71# ?'1ʿ5.ʿ?1 <;.ʿ ,5. / <8 '-.;5.6 ?1# / <' 1.6 6 J<#6 ?'1ʿ5.ʿ?1 <;.ʿ .?G <<.7 Q.ʿJ1J?1P V 6Q18 ?1.?0 U.ʿ5"?'\E >.ʿ [?>1?7EQ'"5.ʿ J1'>? >.ʿ J4 J4?<7 J?5? .5

! %

ʿ ʿ ʿ ʿ ʿ +ʿ .ʿ?'7'5 < >.ʿB,<J1 .8 1'1;7 >4;ʿ ,',?,5; 8 .67 ?'17ʿ>.ʿK4>.ʿ5.ʿC9 ',E48 ?>416.ʿ 1.<>ʿ.ʿ ʿ 1'J<6% > 5;J1.7E 8 / < 671.ʿ >.ʿ5" 1#?405 =4.ʿ >.ʿ !g<.68 .67 [,17 '-'<7 0 .18 >'<68 " ; <J<'<7. J4'71 # / .ʿ"<<#.ʿ >.6,< 'J.% .6 / < 671.6 >.ʿ . / ?.1.41 '4 ;,<J1 6 >.ʿ ,0 67, [8 '<cʿ=4"5.6 71, 6 1' < 671.6 / #> '7.4168 6,<7 '11 -.6 ; I Q6 ,'7 1.=4 >.ʿ5"?'17 >.ʿ5" ,17.ʿ ;0';4< 4<.ʿ?.5 66.ʿ >0,<<.418 4"64?.10.ʿ .:.-'5 .7 4<.ʿ0,416.ʿ >.ʿ9 8 ʿ ? '671.6% < '??1.<>ʿ>.ʿK4;:'1.67 =4.8 >06 5.ʿ U ,,E778 5.6 71,4?.6 /?#1 '5.6 ,<7 ;, / / .<;.ʿU>; 5.1-.16 5" 1'<6V5G -'< .% .ʿJ#<#1'5 71, [6 V8 ;,<7 <'<>'<7 >'<6 5"V'5=;: .8 E' 7 7,47.6 5.6 > 6?,6 7 ,<6 ?,41 #-';4.1 ;.55.ʿ?1,- <;.% .ʿJ1'<>ʿ-06 1 " =-.670 ;:.5 ,450,&P >4 7 71.> :,6G ?,>'1>.ʿ;.77.ʿ?1,- <;.8 +'K0,6?,>'1>.ʿ5" ,5>'-.ʿ< .65 ?'6 .<;,1.ʿ <,=7 / >I ;.77.ʿ<, / <'7 ,<=.ʿ6.E.?"=4 '?1#6 5"?' @>.E < 7 -.ʿ=1.;ʿ5" 466 .8 .ʿ;,<J1#6 ?,41 ?. .ʿ?';,E ;'7 ,<'=1"5 .6 ʿ '66V8 ,0 5.ʿ?1 <;.ʿ ,7.<7 ? .67 '110V#8 ʿ $.ʿJ.<.1'5 >.ʿ '55 68 =4ʿ .67 U K.QJ-'>.8 6 ,;;4?.ʿU 1#5'05 1 ;.55.ʿE,17.1.66.ʿ;, / / .ʿ.55.ʿ#5'5'-'<7 5"J4.11.ʿ& ,< V 71'<6?,17.>. #7.1 ['1'> <1'17 55.1 .741=<.8 < 1,'<>.ʿ>.ʿ#,<67'<7 <,?5.ʿJ=.ʿ . > ;0 / .78 ?';:'8 0.'4 E1E 1.ʿ>4 ! 1'<> . J<.41 .7 J,4-.14.41 >.ʿ ,1#.8 V ";,<>4 7 =4 <'.ʿ / 55.ʿ0, /7<.6 >.ʿ71,4?.68 .7 =4.ʿ5'J'1>.ʿ >.6 ;5 '7.'<" .7 E,176 <' ">>;,<E5..% '8 & 8 'C) +1 .<71>.ʿ6,5.<<.55.ʿ >.ʿ . / ?.1.418 >.ʿ / ?#1'71 ,.ʿ.7 >.ʿ5.41 E' / 5568 " .4ʿ5 .4 5.ʿ ʿ',#7I <.77.ʿ ?1,;.66 ,< " >7.ʿ71U6%?. / ?.46.% < " ;, / ?7# U ;.77.ʿ;#1. / ,<.ʿ=,'51. - <J7 <.4E ;'11,66.68 5.6 4<6 ?546 <'J<\E=7P ʿ=4.ʿ5.6 '471.6I 5" ?54?'17 .5' .<7 '57.5.6 >.ʿ6 @ ;5 .-'4@I ;.<7 # <=4'<E.ʿ.E .1'4@>.ʿ6. 5.8 .7 ?1U6 >.ʿ ʿ;.<76 ,E5 ; .16>.ʿ / '6,< .7J. ,6 >.5 11#.% . / ' < ,< E.1" ';5.ʿ>.ʿ?1.67'7 ,< >.ʿE,5 ʿ 0, / / 'J.% 7 < J1'<>ʿ<,?'01.ʿ> >71'<J.1J J> ' .<7 1?<>46 U ;.77.ʿ; E 1# <,<.% ʿ: (ʿ8 ʿC9 46=< U ?1 6.<75.ʿ>#;1;7 >.ʿ1'5 5 ;'7 ,< >.ʿ . / ?.1.41 >4 ;,<;5464 / ʿ>.ʿ5" > #7.8 1.5'5 E '4@ ?1 <;.6 '55. / '<>6 ?,66;66 ,<<.6 .< H1'<;.8 < .67 ?'6 .<;,1.ʿ'11 -.ʿ;ʿ>.ʿ .<<.N ,<'6641.ʿ;.?.<>'<7 =4 5 <.ʿ7'1>.1" ?546 J451.ʿ> .71.ʿ.@?#> #I > V.16.6 ;,<ʿ Q,<;741.6 ?,5 7 =4.6 ,<7 6'<6 >,45.ʿE' 7 > EE#1.1% " > #7.ʿ < .< 1.1" .< -';'<..68 > 7 ,<8 =4 '?1#6 '11 -#.ʿ>.;.ʿ>#ʿ ;1.7% ʿ ʿC* ʿ+ʿ .ʿC98 % > 17, 6 E47 <710ʿ >4 7 U 55< 708 '4?156ʿ>.ʿ .< ?.1.41 .7 >4 1,ʿ>.7 1466.% !.ʿ?1 <;.ʿ.47 '-.. % % 4<.ʿ;,<E'1.<;.> .<- 1,<71, 6 =4'176 > :.41.8 .75.ʿ5.<>. / '< \6 .<71.7 <7 '-.;ʿ;.6 >.?@ 6,4-.1' <6 .<- 1,< >.4@ 0.41.6 .7>. / .8 .78 >#6 =< 5 6.ʿ E45 1.7 1.8 ;.6 > .4@ / ,<'1=4.6 6 .<71.7 <1.<5 .?;,1.ʿ4<.ʿ :.41.ʿ.<6. / 05.8 ?1#6 > <.1 6 '55#1.<7 '-.;ʿ5.<1'6? 7.ʿ-8 6 7.1U 1.6>.ʿ5" ,. #01.ʿJ'5.15.8 5" 0 05 ,70#=4.8 5" -,05.ʿ -.17.8 5.ʿ?'5'6 Q'?,<' 6 8 .5 '66 67#1.<75.ʿ / / .ʿ6, 1'U 4<.ʿ 1.>,47.ʿ>.ʿ71, 6 / 5.ʿ / '6=4.6% '<.4E0.41.6 561. ,41ʿ <#1J<7 U 5< 768 ,U8 '?1#6 '-, 16,4?#8 . / ?.1.418 5.ʿ 1, 8 % > 17, 685.E.5> / '1#;0'5 '6;V8 5.ʿ0'1,< ? .5

<,? $36(ʿ / - .$9$*(ʿ9.(35* / 3) $'$ 4+. $ (" BB/ ',.(" +*+.$,(" -(*',+*,$* 4 (ʿ4 .ʿ L+ 4.$53$4+4,-ʿ-& + +36$(/ +)+*- ,,*+/ + %(4 5 (-3 #+ .(0 *,$(5 9.(35 (/ '+4 $''+*3(ʿ(,'('".$36('('(/ (,'3 . ;4+.,+9(.ʿ (" -+*9(." -('+4+,.#+ ʿ(',+,5 .- 6 $3(*'($ (.ʿ-%-,+'F ,6 *('

ʿ+ʿ , / .ʿ'.

1,'<<8 8 >.ʿ#'E'<<.ʿ.7 c? J#<#1'5 >.ʿK 6.0??E6 [.1>.1 6,ʿ #4< 1.<E>'?6 5.6 '??'17. [.<76 >.ʿ 8 8 f i' .cV 1.6 #1.<7 Q46=< U 4<.ʿ0.ʿ,1.ʿ'?1 6 / <' 7 ==.ʿ . / ?.1,<1 ?'1 ?,B? E.J,.H

, K %

@ ʿ) h ʿ ʿ 8 ʿ ʿ* ʿ ʿ 8 '=4. 1 55.ʿ>E' 7 ' .<< ;'-.; / ?'7 .<;.%?'1 5.6 H1'<6' 6 1;E<J ;68 c - .<7 > V '11 -.18 '??<17'<7 5.1#645ʿ 7'7 6ʿ>.6 1# >.ʿ5" ;,<E.1.<;.ʿ>.ʿ 5< 50&;'1 . .67 ,?4< ,= >.6 H1'<=' 6 . / J1'<76 =4.ʿ;.77.ʿ.<c1.V4.ʿ< ? .4 =4? = H1'<;.ʿ?,41 ,0Q.7P% , > >,<.ʿ5">.;5'1'7 ,< ? J<.=U ʿ < @8 .<71.ʿ5.ʿ1,ʿ>.ʿ 1466..5 . / ?.1.41N W .416 'Q.6 .6 . / ?.1.41 .75.ʿ1 ʿ>.ʿ 1466.ʿ'V'<5 .?ʿ "7.<>4 5.6 >#6 16 .7 5.6 1.?1.6.<7'7 ,<6 >.ʿF ʿ.7 >.ʿ " !5.ʿ;, / E" > 17, 68 >.>'1.<7 .?<Q, <7. / .<7 =4 >5;6 W1.J'1>'<7 5" 6 74'7 ,< ,06.71,4-.ʿ;7,.55. / .<7 .ʿ1,ʿ>" < H1'<;.ʿ;, / / .ʿ4< ,0Q.7 > 4< <7.1.7 =, / / << U 7,46 5.6 "6,4-.1' <6 >.ʿ^ 41,?.% 56 .6?.1.<7 =4.ʿ;.7 <7.1.7 ?.ʿ "?.47 / '<=<.1 > .71.ʿ1..,<<< ?'1 5.6 ?4 66'<;.6 >,47 5.6 6 6.;,416 6,<71#;5' / .68 .7 =4 .< ;,<6.=4.<;.ʿ.55.6 =.ʿ ʿ WE 6.1,<7 ?'6 > . / ?5,V.18 .?< ,Q<5. / .<7 '-.;ʿ .416> 7.6 ʿ 'Q.6 .68 5.6 / ,V.<6 5.6 ?546 .5 ;';.68 1.E'7 -. / .<7 U 65.416 E,1;.68 '07.751.ʿ5.ʿ1<ʿ>.ʿH1'<;.ʿ.< >7'E > 'E .1ʿ / 18 >'<6 5" ?546 ?'1E' 7.ʿ5 0.1 .8 5.6 0'6.6 > 4< J,4V.1ʿ ʿ<. / .<7 / ,<'1;0 =<.ʿ .J'5. / .<7 ;,<-.<'05.ʿ'4@> ,56 ! >.6 6,4-.1' <6 .7 '4 0 .= .71.ʿ>.ʿE" <,05.66.ʿE1'<=' 6.8 $ 5,168 .7 >'<6 ;.ʿ?'68 .416> 7.6 'Q.67.6 . / ?.1.41 .7 W5.ʿ1,E >.ʿ 1466.ʿ6,<7 1.6,546> 'J 1?1< / ?7. / .<78 > 43 W / '74.5';;,1>8 '-.? 5.6 E,1;.6 <;;.66' 1.6 ?,41 ,07.< ? W5.ʿ047 ?1,?,6.ʿ.< ;, / / <<8 < '77.<>'<78 > .6 >,<<.G W1,<7 U 5.416 71,4?.6 5.6 31>1.6 ;,<VW<'0 .6 ?,41 =4 .5 .6 W6, .<7 U ?,17' ;ʿ>.6.ʿ<7.771..< ʿ> V .8Y .6 1.E<J .6 71?4V.<7 >'<6 ?.7 ?.7.ʿ7,47 ?.ʿJ4 6 -.<W 5.<7 V -, 18 ?'1 U 56 6 .<71.7Q.<<.<7 >'<6 >.6 .6?.1'<;.6 E,55.6% ,4 6 a 5" >0 1.?.-, 1 4<.ʿ?,? .>.ʿ5">>75'1,5 < / ' 6 6'<6 >,<7..? / / .ʿ4< / .66'J.ʿ ,1> <' 1.8 . -4<,ʿ =4 5 V .07 1 .< >,50>>8%8%% #.ʿ6.1';ʿ4<.ʿ / <-1= >.ʿJ < .ʿ 1,6 7.ʿ=4.ʿ>.ʿ >#71, / ?.1 5.6 ?1 <;.68 >.ʿ5. H >.66 55.1 5.7 V.4@% ʿ.67 ?1,0'05.ʿ=4.ʿ5' / ' 6,< > 471 > .ʿ.75" 1466.ʿ ,<75.416 1' 6,<6 ?, 1< .<1 .< E' 1.8 .7 5.670,< > V -. E" 5.1% 546 .416 1.J / .<76 ,<7 >.fU 1.=4 ,1>1.ʿ>.ʿ6.ʿ7.< 1 ? #76 U / '1;:.1% 4;4< < .67 .<;,1.ʿ.< / ,4-. / .<7% ʿ5ʿ 5.416 5 '11 -.1' .<78 =4.ʿ .,?,5> '41' 7 ,< ?1#7.@7.ʿ>'<6 5.6 J4.1.55.6 =4 ' .@ 67.<7 7,4Q,416 .<71.ʿ5.6 #7'76 >.ʿ K1'M 0'<7 .7 f$J,4-.1<. / .<7% < < .67 ?'6 71'<=4 55.ʿ <,< ?546 >'<6 5" H5'<>1.%E& < .67 ?'6 >,47.4@ =4.ʿ5.ʿ J,4-.1<. / .<7 <. 5 . / ?,17.ʿ.4 7,47 .7 ?'17<?7% # .67 Q467. / .<7 ?,41 ;.5" =4 5 ?,<- .<7 '4 / < 67#1.ʿE1'<?' 68 ?'1 .@. / ?5.8 >.ʿ6.ʿ7.< 1 '4 E' 7 >.ʿ;.ʿ?'V -;% ʿ5.ʿ;5,V.< E1'<=' 6 .67 -1' / .<7 4< :, / / .ʿ5 01.8 \ <.ʿ<#J5 J.1' '4;4<>..ʿ / ,V.<6 =4.ʿ54ʿ >, <.ʿ5";,<67 747 ,< ?,41 641-. 55.1 E'6 ,?.1'7 ,<6 / < 6ʿ 7.1 .55.6% ,41=4, ʿ>,<.ʿ-,4>1' 7 ,< ?.164'>.1 =4 5 E' 55.ʿ 7#;.-, 1 4 ' 71. . / .<7 >.ʿ 8 ʿ5 -% ?,41 6.ʿ / >.1 >.6 'EE' 1.6 ?405 =4.6 f 55. 16 .<;,1.8 ʿ-'V'-, 1 >.6?1#7.@7.6 >.ʿ1'66. / ' 0 .1 =4.5=4.6 71,4?.6% .6 > E .1.<>6 .< 1.ʿ5" - 55.ʿ>.ʿ#,M 5,J<.ʿ.7 .5.,7.41 6406 67=<5% " - 55.ʿ "?,17.ʿ'E' 1.ʿU5" > #5.% < ?.<6.ʿ=4.ʿ 5.;7.41 V 6.1" .,<>' / <>Q / '6;.ʿ 6.1" 4<.ʿ;;'6 ,< >.ʿE' 1.8 =4, =4.ʿ>'<6 4<'471.ʿ6.<68 U #,5,J<.ʿ =4.ʿ ,< "E' 7 U J.8 > V .<-,V.1 >.6 71,4?.6 > .@#;47 ,<8 ;, / / .ʿ- 55" / ?>1 '5.%%%%% 34.ʿ>.ʿ / ,4-. / ,<765 =4.ʿ>.ʿ>#5.416ʿ :5 ;.<@ =4ʿ6,47 .<<.<7 '-..ʿ5'<7 > '6641'<..ʿ=4.ʿ.67 / '5 .,<<' 1.ʿ.5 5.6 ;, / ʿ / .6 '7 5.6 '7E' 1?68 =4.ʿ> 'J 16.5,= <6 ?7 <; ?.6 >.ʿ5" / ,1'5.ʿ.7 ># #=4 5#8 >, -.<7 ?<<-.< 18 U #?,=4.ʿ,U <,46 - -,<68 >.ʿ5"64?#1 ,1 7# >.6 0, / / .6=4'J,4-.1<.<78 .7 71,4-.1 #71'<J.ʿ>.ʿ;1, 1.ʿ=4.ʿ5"?,5 7 =4.ʿ?4 66? >.-;G < 1 4<.ʿ6. .<..ʿ47 5.ʿ.7 ;:#1.ʿU5 :4 / '< 9%Y

H # %

'8 ʿ+ʿ <.ʿ>.?47'7 ,< >.ʿ5" ?. / << <.ʿ>.ʿ '1 6 6 .67 1.<>4.ʿ'YZ < 5.1 .6I %Q? '1 ʿ>7' U6Z 7>7.8 "'>1.66>5.6 > 6;,416 64 -'<76 "'1, ʿ.7 U 5"1. <._

, !

K $.(Q

7' '' ; / /4<.'- .<7 ,EE1'1' ' , 1.'B' .67'5.6'0, / / 'J.6'
.7'5.'1.6?. ;7 >.' '' - 55.'>.' '1 6% 55.' ,<6'??,15.'5''0, .'
.5'5.6'0.<>> .7 ,<6'>4'?. ,?5.% .4@'<,>.6'>.'51'-'4@Y'>.'
/ '4@ .5> ,1'J.6'6,<7 0.41.46. / .<7 7.1 / <>.6'?'1' ';E'.G
@. / .<7 >.'5'' ; ,<67 747 ,< .7 ?'1' .; ;.?7'5 ,< >.' ,71.'
'0.67>% .6,1 / ' 6' '??4V>'641' ; .75.' ; ,<67 747 ,<8' 1.W .7
J ,4- .1<'<7 ?'1' >.6' 5, 6' / / 4'05.68' - ,46' E.1.0 '' ?1,6?>G
1 7>' ?405 =4.% ,16=4.'7 ,46' 5.6' ; , .416' 6,<7 >' ,46'8' 5,16=4.'
5.'->71. .67 '4@ H1'<=' 68' =4' .<71.?1.<>1' 7 >.71,405.1'
; .7 ' ; ; ,1>' <5 / .'>.'5'' <'7 ,< .7 >.' ,< 1, Z' .'6?1< .<7
=4'-, E6 .'>.'<, 4-.'4' >'5'' H1'<; .8' .7 7'' H1'< ;'>'-, 68'
- '46641.1'5.' ;'5 / .'>'5'' - 55.'>.' '1 68' 6'5,<J7. / ?6' 'J 5>.%
.'>>6,1>1.' .7 '<'1; ; .8' - , 5>' <,6' .<<. / 6' ; , / / <6%
''?' @8' ''0,<7.' .7 5''0467 ; .8' .7 5.6' - .1746' >.' ' ,71.' ' '
0.65>8' - , 5>' <,6' -1' 6' . / 6% ,46' 5.6' 5 @.1.0?'1 / ' < 468'
1.8' .7 - ,46' 6.1.0' 0.41.4@ ?'1' ' / ,41' >.6' H1'<I' 68'
; , / / .'5.6' H1'<; ' 6' 5.' 6.1,<7 ?'1' ; - ,71.'0,<: .41% \

W .'0,<: .41' >.'5'' <'7 ,< 6.1'' 7 ,?0,416' 5.'- , .4' 5.'?546'
; : .1'>.' / ,< ; , .41I' .55.' <.'? .47 .< ' - , 1' 4< - .1 7'05.'=4.'
?'1'5.' / ' <5 .4' >.' ,1>1.' .7 >.'5'' 71'<=4 55 7>' ?405 =4.%
,46' >.-.0' - ,46' 6.1- 1' >.' 7 ,<6' 5.6' / ,0 .<6' =4.'5'' 5, '1.M
/ .7 .< L,6 / ' <6' ? 41' ; ,< ; ,41 1' ' - .' / , '>' '77. <>1.' ; .'
0'78'

, ' :

'' '>' / .8
W '' ; / /4<.'- .<7 ,EE>51'>' ,71.' '0.67>' 5.6' 1.6?. ;76'
>.' '' - 55.'>.' '1 6% '06' >?,=4.'5'' ?546' / > / ,1'05.8' 5''
0, ' '' >7>' 4< - .16.55.8' 5.'1, ' '' 1.=4' 5.6' 0><>> ;7 ,<6' >4'
?. ?5.1- ,46' 5.6' '- .0' ?'15'J. .68' .7 5'' - 55.'>.' '1 6'0, <7
.@?1.66 ,< >.' 6.6' 6.<7 / .<76' >'5'' - , @>.'5'' <'7 ,<% 4 6'
6.<7 ; .6' 6.<7 / .<76' 6, ''J1>'05.6' >' ,71.' '0.67>' ' >' J<.0'
6,4- .<7 - ,46' 5.6' 1'??.5.18' .7 5.6' 1'??.5.1' '4' 1, I' > 5.68'
'>' / .8' >' '4J467.' ?1 < ; ' >5.-> ?1>6' >.' - ,46' ? ,41'5''
H1'<; .8' =4.' ; .6' 6.<7 / .<76' 54 '6,<7 >.67 <.68' .7 =4.' <,46'
54 '1.<>1,<6' 4<0 ,41' 7 ,47' 5.'0,<: .41' =4.'6'' 7.<>1.66.' .76.6'
6, <6' '41,<7 - .16>' 641' 5.'1, ' .7 641' ,71.' '0.67.% \
''1. <.' '' 1>?,<>4' =4 ?B.' ?'17'J.' 7 .< 7 ,47' 5.6' 6.<7 M
/ .<76' >4' 1, 8' =4 .55.?1 ' 75'' /4< ; ?'5 7>' > '6641.1' '4@
; 7 ,V.<6' >.'5'' ; '? 7>5.'=4.'> '=4.'0,41' .55.' 5.6' <6? 1W' 7
>' 6,4' E 568' .7 =4 .55.' ; ,<71 04.1' 7 >.'7 ,47' 6,< ?,4- , 1' '4'
0,<: .41'>.'5'' <'7 ,<%

a %

.7'7 >.6' ?1,>4 76' >.'5'' E'01 ; '7 ,< >.6' .6?>. .6' >.' #4 '
-1.8' 64 - '<7 5.'7'05.'4' 1. / 6' ?'1'5.' / < 651.'>.6' ; ,<71 04M
7 ,<6' ?405 =4.68' 6 05. - ' 78' .U6. ?7. / 01.8' >'<6=4'5,10.'
0.7.56' >.6' ,<<' .6' >' ' / 55 ,<)8* E'5 - % ,'6,46% #.547
1. / 6' ?'1'5.' / > / .'7 4 671.8' >4' >' 6.?7. / 01.' '45 7' 6 >5>-.'
>' U>P .>5 - % * 6,468' 64 - '<7 >7'7 ; '?1>6N
'1 6% U*8 9* % ' %
V,<%% ,)8 9)
,4.<% % % % ' % % % % % % % % % ' 9(8)
.7O%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% ' *8 (9
'' , ; : .55.% % %' % % % % % % % %' U89

4J / .<7'7 ,<>.'E'01 ; '7 ,<>4' ''4'
'6.?7. / 01.% % %%%%%%%%%%%%%%%%%%%%%% UU8 9 8' '6%
'6' ,< - , 7 '- .' <=4 .74>.'? ,41'5.6' E'01 =4.6' >.6' ?'V6'
7<.1 > ,<'4@=4.'5.6' 0.7.56' >.' ,<<' ,>.' '16. 55.8' ,?7'
? .55 .18' / ,J.68' 6,<7 1 6 5.<56' >'<6' 5'' E'01 ; '7 ,<8' ?7
=4.' >'<6' ; .4@ >.' .1? J<'<8' K'V,<<.' .7 '48' .55.' < .67
?'6' ,< ; .1.' / / .< ; ' ' > 5'1 645.'=4.' 5.6' / ?,1 '<5.6'
5 '<47' ; 741.6' >4' >.?'17. / .<7 >.' B.1'4578' >.' 4>.' .7
>4' #'1>8' 6,<7 >'<6' 5'' ?546' >'<J.1.46.'6' 74'7 ,<8' .7 =4.'5.6'
,4- .55.6' 1.?4.6' >4' >>?'17. / .<7 >.' 4>.' 641' 5.6' 0467.6'
j' ?5' <7.6' >.6' ,4-1 .16' 6,<7 '5'1 / '<7.6%
-1,>8'

<<' '4 ' a '<06' <>?4 6' ' '?'6 >'6'
% 5
' ' 'F

B % 4-'5 .J1. - 55.8' '> / < 671'7 .41'>4' > ?'17. / .<7 f
, 66,<>.'#,4>1.- 55.8' ?156 >.<7 >4' 71 04<'5' >. ' <5 f
4-1. / .18' '> / < 671'7.41' >4' >5?'17. / 0<7f . / , <.'>.'
5 .<.4-.8' 04J.>4' 71 04<'5' >. ,17' <f '4-58' / ' 1.'
>.' 4; .f .6?1568' - ; . ?156 >.<7 >4' > ?'17. / .<7f .66,<8'
'> / < 671'7.41'>4' > ?'17. / .<7f .7 ,41<.418' ; '? 7' <.>'<6'
; ' ; ,1?6' >4J5< .f 404571. 8' ?1, ; 41.41 6V<> ; '>4' > 671 ;7

>.' '<7 5 f ! 1,4578' '> / < 671'7.41' >4' > 1. .7, 1.'>4' > 6M
71 ;7 > -1'<.0.6f .1.0,416 J. , << 51.8' 04J.'>4' 71 04M
<'5' >.' ,17' <f J. ,<8' / ' 1.' >.' #,47'<; .6f 34.65 KV
0, / / .'>.'5, '>4' > 671 ;7 >.' '5,J<.%

' '% (

% .5,<8' 0, / / .'>.'5, f' <; .<7 5'<; ; 458' - . . ?15'
6 >.<5' >4' > 671 ;7 >.' / .6f .<'1>8' / . / 01.'>'' > 1. ; '
7, 1.'>4' > ?'17. / .<7f '- .1<.58' 04J.'>4' 71 04<'5' >4' > 6G
71 ;7 >. K.'4; ' 1.%

' ' H'18

% ,<0'4>8' ?156 >.<7 >4' > ?'17. / .<7 .7 / 5>. ; <0'
! 1'66.f 41' 1.8' ?156 >.<7 >4' 71 04<'5' >.'> 671 ;78' 0 1' '
J4 J<'<%

' ' A A:2

% '17 <8' / ' 1.'>.' '16. 55.f ! 1'<.78' / . / 01.'>4'
> 1. .7, 1.'>4' > ?'17. / .<7f K5'<; # 5V8' / . / 01.'>4' ; ,<'
6.55' >4' > ?'17. / .<7f 6?'1 ,78' ?156 >.<7 >4' 71 04<'5' >4'
> 671 ;7 > @f .5 ; ,78' / . / 01.'>4' > 1. .7, 1.'>.' >5?'17. '
<.<78' > 671 ;7 > @f 1;0 .18' / . / 01.'>4' > 1. .7, 1.'>.'
> ?'17. / .<78' > 671 ;7 >.' '5,<f '<; 0.8' '<; .< ?1, ; 41.41'
>4' 1, ' '4' 6 5J.8' > 671 ;7 >.' '1'6; ,<f H.11.78' > 651 ;7 > ?7f
! '6?' P8' ; '? 5' <.'>.' ; '-'5.1 .8' .< J'1< 6, <0' 54,4- 55.8'
> 671 ;7 > 1'<J.f <7 ,<.55.8' / ' 1.' > 15.6%
% 4. ; .8' / ' 1.'>.' '17 J4.6f 55 66 .1'
.671. / V8' E151.'>4' >5?475' ' ; 74.5f ,4@8' / ' 1.'>.' #'66 6f
' ; '7%

' ' 'G

% ! '01 .5' '17 <8' 04J.'>4' > 671 ;7 >.' #,J<'; f f
J467 < ,55'<> .'< <>15 H'467 < # : .>'<.'48' '> / < 6'
71'5.41' >.' 1:>? 7'5' >.' 4EE.' f .'< ,4 6 4 / '6 #0' / '
?1'55 .18' '> / < 671'7.41' >4' >5?'15. / .<7f .'< ! 4 / 0.1'
7'478' 04J.'>4' > 671 ;7 > <J ,45. / . f .'4 H1' , . 6 / ,<
: '0'4>8' '> / < 671'7.41' >4' > 671 ;7 >.' # , 'E,5.<6%
8 ' ' ' % .'< H1'<=, 6' 51 '
>,<8' '> / < 671'7.41' >4' > ?'17. / .<7 >.' '' # : '1.<7.%
' ' % .11.' '55.5 .; .66'4>8' 0, / / .'
>.'5,
9 ' '5 % # : ' / .5 '7 <.8' 0, / / .'>.'5, f' .11.'
H,4.0 .18' E56' '5<58' 0, / / .'>.'5, %

' '83 A7

% 4; '8' ?1, ; 41.41 6V<> ; '>4' > ?'17. / .<7f '1 .8'
'> / < 671'7.41' >4' > 671 ;7 >.' 1'>.6f 6; '< .18' / . / 01.'
>4' > 1. .7, 1.'>4' >.?'17. / .<7f '4' ' <58' >. / f 0.68'
64065 747 >4' ?1, ; 41.41 6V<> ; '>4' > ?'17. / .<78'

' '

@ ' ' & ' ' ' ' ' '
' g ' (* %
F ' ' ' ' ' ' '
' ; ,1?6' / >< ; ?'58' .< .@5 ; 47 ,< >4' >5 ; 1.7 >4' '>.' ; .'
/ , 68' '' 011575' =4 5' E.1'' .< ; ,1?6' 5'' ?405 ; '7 ,< >.'5'' ; ,<M
67 747 ,<8' 5.'> / '< ; . ')' >.' .' / , 6%
'?'17 1'8' 0' 04 7 0.41.6' >4' / '7 <8' >.'1:97. >. - 55.8' ,0'
5' 6.1'' E' 7 4<.' ?1. / 51.' ?405 ; '7 ,<8' =4' 6.1'' '<<,4 ; 5.'
?'1' 4<.' 6'5-.'>.' ; '<,<6I
'64 -1'5.6' =4' 6' 046=4 05'' 14.'>4' ,45.8' 5'' 14.' ' <7%
B ,<,158' 5'' 14.' ' <7 ; ' 6.8' .7 6 '1157.1'' '4' G
5 .4' > 4<.'6. ; ,<>.' ?405 ; '7 ,<%
' ; ,1?6' /4< ; ?'5' ?'66.1'' ?'1'5'' 14.'>.' ; 0.55.8' 5''
14.' ' <7 B ,<,158' 046=4 05'' ?5' ; .' .<>> / .8' ,08' .< E' ; .'
>.6' H.4 55'<768' 6.'E.1'' 4<. 71, 6 5 / .'?405 ; '7 ,<%
'64 -1'5'' 14.' ' <7 B ,<,158' 5'' 14.' ,V'5.8' 5'' ?5' ; .'
,4 6'' 8' 5.'?,<7 >.' ,4 6' '' 8' 5'14.>. , , 1J ,J<.8' 5''
14.' ' <7 , / < =4.8' .7.<71.1'' '4' # : ' / ? >.'5'' H5>51' '
7 ,<?'1'5'' J1 55.'?1 <; ?'5.8' >4' ; >55' >.' ; ,5.' 5 7' 1.%
' / ,<7.1'' 641' '47.5' >.'5'' ?'71 .8' '?156' .<' - , 1' E' 7 5.'
['18' V >5?,6.1'' 5.'5 -1.'>.'5'' G .7 E.1'' 4<.'
>.1< 51.'?405 ; '7 ,<8' =4' 6.1'' '<<,< ; 5.'?'1' 4<.'6'5-.'J5'
<51'5.'>.' ; '<,<6%
<.' ,>.' E1'<E' 6.'6.1'' ; 0'<75.'0' J1'<>' ; : , .41%
.6' ; ,1?6' <- 56' 0 '66 67.1' 05'' ?405 ; '7 ,< 6.'1.<>1,<7
'4' # : ' / ? >.'5'' H5>51'7 ,<8' ' <6' =4.'1'1 / ; '?'1 6 .<<.8'
=4' 6.1'' ; , / / '<>5.'0' ; .7 .EE.4
J45 ' ' # ' A& !

, F A ' (' ' ' '* ' '
' ' ' ' ' ' BE' '
' ' ' ' ' * 0 ' ' '

('3 .4" *$3$4+' 36+.9(' -(' $(2-3 ,$ *' -(' +', $'5 $' .- *$$(' *('#R,('*+,$ *+ (' (-$,,+*3)(' '- ' $"3 .+*,' 0 +*,'4.$0(*$.' (" +33$-(*,"5 $'4 ..+$(*,',.) (.' +' $('5 ('- $,'3+ '(.')', " (" .+* +$" +36 0((*,' -(' +' 3 *',$, ,$ *' -$3.-,-('4+.' ''( ) -('*+,$ *+ ('(,'+33(4,R(' 4+.' (' . $'
4.$"+0 $.'(*,(*- ('4.($(.'')',$, ,!+- $*,'- '4. D' 3 .(.'-(' +'3 *($'
% .. ,('3('5 $' ' $,;
BD' 3 *("0 $, .('/' +*,.("5 ('3(("-(.4 '$('/' -(" *(''+9(.$("(,'3(("- +44. 0$'$ **((*,'/' *('4 .. *,/' (-$,' .' BE' '(4,( ).(/' 3$.3 (.'-+*" (" . (" (,'4 +3(" 4) $5 ('-(' +'0$ -(,'-("#+) .9'/' -(4 $"6 $,'6(.(" - ' +,$*' '5 ' *U('6(.("- '' $.' ' *8' + .+'4+.($ (!' (*,'-+*" (". ('/'4(*-+*,' (' (',(4'/' + 3 *'36(0+' + ,.("5 ('3(2'-(" "3$(." (,'3+0+ $(." -(' +'9+.-('*+,$ D' *+ (
D' 3 *('4(.' **('*('4 ..+' 4+''(.' *$' -('3(*-.(' +' .$0$(.('(*')+,((,"-(4 $"*(#'6(.("- ' +,$*/' (,'4(*-+*,' , ,' ('.(',(' -(' +' .*-(/' -+*", ,' ('4+3('5 $' '(',. 0(' (*,.(' (' *,=$ (#(,' +')+..$-.('-(' 6+$,
PD' (#(*'(" ' *,'#+$,(" +', ,('4(.' **('-(,$.(.+ 3 *" # '$ '/' # '-(" '4-,+.-" -+*" (" . ('/' 4 +3(" '4. (D' *+-("4) $5 (f/-+*f'+ 3 *' (,-(' +' .*((/' (,'* %D' + (*,' (' ' $.
-D' ('3 .4" *$3$4+' $*0$,(', " ("3$, 8(*"6' $ $!' *(.' ("#+3+-("-((." +$' *'7 +*-('+ 2' $''+$.(" -('4 $3(' -(" '(3,$ *'/' (,' + '3 +*-+*,' 9-*-.+' -(' +' 9+.-('*+,$ *+ (/' -(',(*$.' +' +$*' +' .(2-3 ,$ *' - '4.('(*,' +..-,-/' 5 $' '(.+'$ 4.$ -'(,'+#$ 3)-
$9*-" , /' 5' '&; ' >& ! '
: ' ' ' ') ' ' '
7 !
+4.-'!- *-('- '-$ +*36('BE' -('3(' $"'(.+'3 *'+3.-(' + 2' .($''+*3(" .- **-("4+.' ('-(3.(,'-(' % ''( ) ((%' *+,$ *+ ('- ' ' '(4,( ).(
'5 +,.('6(.('/' *' +-. ',+,/' --3 .-' - + .$("+*+1 9 (" + 2' 3$.3 *',+*3('/' '%(-0(.+' -(" 6+ 4'! 8'((" -+*" ("+$.'/' +0(3' *'*+0$9+,(.
' +' * $,/' + 2' $ $*+,$ *"4+.' ('5 ((" (" 3$, 8-*" '(4.(''(. *,/' '+*'- ,(/' -(',- $9*(.' (.' + -9.(''(/'(' $*-.+' *('$ $*+,$ *'9-*-.+ ('+ 2)+ 4'! 8'(('/' ' -(" .36(',.("'(. *,'-$',.$) -'/' +$*'$'5)' +'4 +3('-(' @-!' ,(!-(! $ (/
'8' + .+'#-,('' .' (4 +3((*,'-(' +' "+',$ (
$9*-' 8' 5' ' ; ?8' A&

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(%0 "4.$(/' *'$(./' +0(3' *('$*',+*3(', ,('3$0$5 (/' -(' 4. 3+ (.'4+.' +'0 $('-('0(,.(.*+' ('03 '-(', " (") +" 3$, 8(*"4 .'5 (. ''( ) ((*+,$ *+ ('+3, (('*('('('(4+.(' 4 $*,'+'.+*,'-%+0 $. .($ *$'('3(,,('4+.,$('(''(*,$((-(' +# , 33' 4) $5 ('5 D *' +44($ (' ' ('4 +*' -(' ' + (81 .+*-'3 ,(* (', " ("('4.$,'7$'D- 0(' +'6+ ,(.'-(', ,3" ("('4(.+ 3(" ' ''( ) ((*+,$ *+ (' +- 4,(."++*" - ,(' -(" . ("5 (' +' ,')$(*' +33 ($ $('7' 3(' '(.+' '$9*+ (.'' *' -(4+.,'-D (' +*$$.('9.+*-('(,', ,'$$'#+$,'- 9*('-(''("$ = .,(", .+0+ 2
A + #+$4' *'$(.D' 5 (' +' 3, -('4) $5 ('(f,'(21 ,.((' +'3(,'(9+.-/' 5 ('-+*" D+ (*,('-D *' * 0(' .-.('-(' 36 '(".(*'($9*((*,'(', ' '4(*- '-+*", ,(" '(" 4+.,$(''/' - *') ,'-(' +' .+*3(' +' + ,.(D' (,'5 (' ("(3 ('D' ("3 1 (9('/' (" *$0(.'$,("*('4(0(*,'.(4.(*-.('5 D+' +'0 $2' -(" (9$' +,(.'' +$''(.'3(',.+0+$'+' +' (9$' +, .('4. 36+$*('('(!' .+$,' *(' $ 4. -(*3(' 5 $' *(' + 5 (.+$,'4 $*,' - +0 $.' -(" ' $,("# *(,('' .',*',. $.((" (*#+*,'D' +' (*(''(D' (,'(' #+$.('-('6 ('D' (',(4"*+' + +$" (,('4 "4.(3$(2
% +*,'$'3($'5 %$'#+ -.+'2' ''( ) ((+3, (('4 .' .1 9+*$'(.' (*'($9*((*,'4) $3D' 33' '(.+D' -D+4.(" (' 4 +*' ,' $' +' -,-'4. 4 '(/' (', .+0+$' -('4('-(' .'' ' 8' + .+'4 $*,' '-('5 $'3 *,.+.$(.' +'0(., ('('$ 4+,$(*3('5 (' *,.(*,' + .-6 ,' * '.(4.('(*,+*,"-(' '(' '(4+.(.D' (,'-(' (' +$''(.' +' (." ' 33(''(." *'36+ 4' ' 0+',('(*3 .('$ -(",.+0+ 2' 3 *'$-(.+) ('
+$"(+ $*' -(', ,(" 4+.," " 0+*" ' +3(.-(*,'D' (,' +' .+*3('<.'4(,'+,,(*-.('4 " 9,(4" .9+*$'+,$ '5 (

*' - $,'- *(.'2' $*',. 3,$ $$'4) $5 (' ##(.(.' -('5 (' 5 (" $'D' 3(''(.+$,'4(.-.(')(+ 3 $$4' - +**(('7(,''$' '!' '( ) (%('+3, (('*('D(*' 33 4+$,'4 $*,/' ((' $0.(.+$,'Z R!' ,+,'2' -(" .(9.(,"5 (' ''( )$(('* 0(('*('4 $$..+,,'4 $*,' #+$.(')$(./' A('' $'D' (,3' /' "D' ' ! I

)' ' 'FI' ' ' $.+)(+ '4($*,'4+.' $!'
((D

A('*('.(4 *-.+$'5 D(*',.)'D4('-(' ,"+' $' (-$,(.'-(' 0.+9('$ 4.$ ('36(U' '" $'' *D' ' " (' $,.('-('$@$[+!' ' ' ' (
B& -('*+$'4 $*,' ('.$*,(*,$ *'-('-(4.(3$(.'' ' 0.(7' 3+.' + ' (*,' ' D+,' +** *3('5 $' *(,+$,'4+" (' $(*'D8('*(' +0+$"4+" (*3 .(' 7' (' D(,+$f'3 *,(*, ' -3' ('4+.3 .$.', + .-6 $'5 (' ' +$' /' (' (',+$" ' .'3('5 (' (*'4(*'(W ' -+$' -$,'5 (' ' *' 0.+9('(,+$,'$*3 4 (,7 (' +$" -$.('5 (/' -+*"' *' 0.+9(/' *('('(',. 0(*,'*$' (" ,. 'D)(+ 2' -$'3 ."4. * *3 ' ' 4) $3" -+*" +' 3$&-(0+*,' . 0(*3(/' 4(*-+*,' ('3 ."-("((3,$ *'/' *$'3($'5 $'*D+'4 $*,'-,('4. D' * *(-/' $'(',0.+$D' +$"5 $'* (*' (','4+"$,, $*"-(' $.+)(+ D' ' .' +'4. 4 '$,$ *' -%$ 4 '(.' (" .(*,('/' #+$,('+' ''( ) ((' *+,$ *+ (D' 4+.' #' -(' +' (8*$('<$'+',.(*,(!-(2'4+9("$*!ED?7 *$' +0$"+ '4(4 ('.++.'($ +$"' .' ('4.$2' - '4+$*7 *$' +' (,!' ,.('-(' '-(' +.+ +*' .' (",.) ("-(' +.'($ (7 *$' +'.(1 4 *('(-(' $.+)(+,$7 *$' (" (,,.("+ 2' '8*-$3" - ',$(.'!(+,' -(' +.'($ (/' (*' .(# '+*,' +' -(4 ,+,$ *' -('3(,,('0$ (7 *$' (" ,. $"#+ (2' * -. "4) $(" ' ."-("-,+,"93!' *-.+ # (,'4. '(.Y"4+.' -('+..(,"- '3 *'($'D(,3D.'(,3 7 *$' (*#$*' *' '($' ,'' .' +'0$('4) $5 (' -5' $.+)(+ ' +0+*,' +'.(0 ,$ *' *
.'3('5 (' +$' -$,D' '3('5 (' D+$'0 '-$.(D' (',' *'#+$, ' A +$' + ,('5 ('3('5 $' +*5 ('+ ' @0.(' -(' ' " $'' *''(' ,. 0('-+*" (' $(*/' (,'((',' 6(.(' *'#+@'5*'$? (','# ('-(' 0(.$#$(.' ("-(2'4.($(."0 ("-(' +'3 (3,$ *'' *,D' -(4 $"4 '$(." .'/' -+*" (" +$*"-(, ,' (' *-5 (',(. *(.+' (,,.('(*' --3+.+*,' 5 ' -+*" +'3 (31 ,$ *''(',. 0(. *,'+ '', (.'-$'3 ." ' .' (- 3+,$ *D' .' (" 4(*'$ *"-("9(*"-((,,.('7', ' (',.+0+$'' .' +'( )',$, !' ,$ *' *(,+$.(/' (,3 /' (,3 D' (,'5 ('< ,'3(+*('('(',. 0(' 4+"-+*" 0.+9('-(' ' (%-$,(.' '9(' ' ' ('
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$.+)(+ D' 'D$B'('# ,'4($*,' I / ''('(.+$,'4($*,(*'#+3(D' (,'* *'(*'4.$-$#' (,,('-(.* .(+ $(.('-('#+$.(' ('4 .,.+$,' (',' +'4 '').('4 .' +*5 (. +' .('(.)+*3(
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G ' ' ' ' ' ' ' G '-0'-(' (+'-$'1 ,.$3,"/' (,'')-0'-(' (*'3+*, *'/' 3 *# . - (*,'+ "--4.(," -(' ''( ) (('*+,$ *+ ('7 4+.' -' ()((8 (/' $*9(*$(.!' 9(9.'46(' -' . $' ' +.$'/' 3)(" + (./' (' - ' + +/' #+ 1) .9' +$*,! (. +$*

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9 ' '$ ' ' ' ' ' 1 '
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+' @ & ' '->-' ': '5 $'+'3(*3 .+'4 . ('4.$2' - - 5*(*3('-(' 3+-- $(' .+* +$'('/' (*' +**((' BHTB7' 4+.' @' 6$(.8/' ( ).('-('4 '$(."+3+-- $('' ' +.$'/' 36(U' ' $.+.-$*/' $).+$.('(,' -$.(3, .'- ')' $,,(.+$.('(,'4 1 $,$5 (/' + ' + +$'! 8+

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41'5">. / '<>.>. % 67'J<,58'1 66. / 05>.';: '1J.' 6,<;, / 7. / 5 7' 1.'>.54 '?1.6.<7.1'>.1<' 1 7 :?10Q.7' >.'>.;1.7'641'5" 64??1.66 ,<' >4' 6.1 / .<7'>.';'7:, ' ; 7.' .@ J.'?,41'5" ;1, @'>.' ' <7 ,4 6% ' 41' 5.' 1'??,17'>.' ' ,<7. =4 ,48 ' ?546 .<16' >.;1.76'>.'5 =4 >'7 ,<6'6 ,<7' '>,?7 '

% ' 'N' 66.< 05 .'6.'1'??.55.'6'<6'>,47.' 5"?.7 7 ,<' =4.'54 ' ,<7'E' 7.'5.6'> .;7.416'>4'>. ?'17. ' < .<7'>.' '1 68' " ,;#'6 ,<' > 4<' >>;1.7' >.' ?1 6.' >.' ;,1?6' >,<7'1.@. ;47 , '>.-' 7'6.'E' 1.' .:'5"?.16,<<.' > 4<' / . / 01.'>.' '66. 05>.' .5.;7,1'5.% <' -,46' " > 7' =4.'5" > J< 7.'>.' '66. / 05.' .5.;7,1'5.\' =4.' 5" 5 0.17.' =4.' >, V.<7' '-, 1' 5.6' .5.;7 ,<6' '-' .<7' .7.' - ,5>.6I' / ' 6' ;.'=< ,<' <.' -,46' " ?'6'> 78' ; .67' =4.' :4 66 .1' =4 ' >7' 7' ?,17.41' >.' ;.'>.;1.7' " >7>' 7.<4' .<';:'171.'?E -.' >.?4 6>.7 @:.41.6>.' '?7>6 / >' Q46=4 '4'5.:>. / '7P' / '7 <' "71, 6' :.41.68' .7' =4 5' .67' >.? 6'71, 6'Q,416' " 00'V.% ' -,46'?1.6.<7.'6.6'1.M ;5' / '7 ,<6' ;.<71.' ..77.' <Q467 ;.% '>. / '<>.'=4.'5.' 1'??,17'>.' ..77.' 'EE' 1.'6, 5' E' 7' <;.66' / / .<78' , ' / >< .'=4 .55.'6, 5'>.;>>.' ' <67'<7% '

% ' " & 'S ' "?>7 7 ,<' >.' '66. / 05. .'>5.;' 7,1'5.'>4'>>?'17. / .<7'>.' '1 6' " .7.' 1.<-,V. .' '4' ; , / 7.'>.'#,<65 747 ><I' 5.'?1.6 >.<7'>.' ..77.' '66. / ' 05..8% 4<' >.6' 6.;1.7' 1.68' .7' 4<' .5.;7. 18' 6.' 6,<7' 1. 1>46' '4'., / 7.' ' 56'< V',<7'71,4-.'=4.' / , N' ' <6' % Q.'<.'?4 6'?'6'?1.6.<7.1' " 66. / 05..' 7 ,?< ,<' >4' . , / 7.I' .' -' 6' ;.?.<>'<7' 54 ' 1.<>1.' ;, / ?7.'>.6' E' 56I' '0 1>8' 5' : V' "?'6'>.' ,'=4' > =4.';, / / .<7' .7' >'<6' =4.56' 5 . 7@' 5.6' >.;1.76' >.' ?1 6.' >.' ;,1?6' ?,411,<7' , '<.' ?,4 1,<7' ?'6' >71.' .@.;47>6% .' <.' ;1, 6' ?'6' =4 4<' :4 66 .1'>, -.' .@.;47.1' *' >. .1.7' >'<6' <5.1 .41'> 4<EE' '66. / 05..' .5.;7,1'5;I' / ' 6'Q.' ;1, 6'=4 4 ' >>;1.7' ?.<7' >71.' .@>;47>' ' 5"?,17.'>.' 7,47.' '66. / 05..8' / > / .' ' 5" ?,17.' >.' 7 66. / 05>.' <'7 ,<'5;

'<6' '5: 1.'>,<7' 5' 6 'J 78' 4<' :4 66 .1'6 .67' .<' .EE.7' <71,>4 7'>'<6'4<.'? .;.'6.1-'<7'>.'041.'4'?,41' 5.6'6;147 <6'>.' '66. / 05..' 5.;7,1'5.I'>.';.'041.'4' 5' ">;1 7' " '66. / 05..'.5..5,1'5.'4<.' J571.'=4 '<'<' <,<,.'<455. / .<7'=[5' ' 7' .4' <5.<7 ,<' > .@. ;47.1' 5.'>>.1.7'>,<7' 5'.7' 7' ?,17.41'>'<61 E75. 1 .7 1'>.' '6 ' 6. / 05>.8' ?4 6=4 5' <.'E' 6' 7' '<71.' ;.,6.'=:.'>.'>. ' 1''<>.1' ' :' ?1.6 >.<7'=4.55.' ;,<>4 7.' 5'>.-' E'7.E5 1' ?,41'5.' / .771.' ' .@.;47 ,<% 5" >7. '11>7>I' 5' "640 8' > '? 6'5.6'7.1 / .6'>4' ?1,..6 -.10'5' >.'1'66; / 05>.' .5.;7,1'5.8' *' <7.11,J'7, 1 %,4 ?547>58'> '?1.6' 5.6' .@?5 ;'7 ,<6' =<' <,46' ,<7' .5.>,<7@..68' ; .7 / 7.11, ' J'7, 1.' < .7' 7' '471.';:,6.'=4.'>. '=4.67 ,<6' .7'>.6' >. / '<>.6' =4.'54 'E' 6' 7' 5.' ?1.6 >.<7 ';, / / .' '4<' :, / / .'=4 ' .7' 7' -.<4'71,405.1' 6. / 05..% -) ',0M 6.1-.' " % '67,1.7'=4 5' '41' 7E'554' " <67'<7'1.<' -,V.1';.7' :4 66 .1'?'1 >.-'<7'4<' ,EE ; .1'>.'?,5 ;.I' / ' 6' ,<' <.' "E' 7=4 '?1 6' '-, 1' <7.11,J.% ,4 ' Q, 716' .67 5' -1' '=4.';.'< .67'?'6' '66. / 05..' .5.;7,M 1'5.8' / ' 6'5.' ! '?,5 ;.>.'5" .;7 ,178'=4 ' " E' 7' . / ?1 6,<<.1% #.';, / / 66' 1.'>.'?,5 ;.' <.' 71,4-' 7'?'68' 5'.67'-1' 8'>'<6'5"7,'> '17 ;5.'=4 ' '4 ' 7,1 6>7' ";.7' . / ?1 6,4<. / .:7I' / ' 6' .EE.1-.6;.<;.' .7' 7'6'J1'<>.8' / > / .'>'<6' 5.'?.4?5.'=4 ' .<7,41' 7' 5.'5 .4'>.'5" 6.'<;.8'=4 B' " .7.' ,05 J>'> . / ?5,V.1';.' 3 ' ' '641.7.' / > / .'>.' :4 66 .1%

' <7.<'<78' ., / <'.' 5' < .67'?'6' -1' '=4.'1: 66 .E' ' 7-,454.@.;47.1'5.'>.;1.7'>'<6' .<;. <7.>.' '66.<5' 05>.8' 5'<.'?#47'E51.';; 6>'> '-, 1' '77.<7>' "5"5 0.17>' >;6' .5.;7 ,<6% .';1, 6' =4.' 66. / 05..'?,411' 7',1 ' >,<<.1'6,<' >5'1J 66. / . 7% 8

% $ 'S .' ?1 .' 66. / 05..' > .@' / <.1' ?546' '77.47 -. 4.K7'5.'E'77V' .7' >.' .,:6 >.1.1'=4.55.

>'<J;1.46.6' ;,<6.=4.<;.6' 5'?,411' 7'.<71'5<;1_' <' :4 66 .1' .67' '5" ?,17.'> 4<.' '66. / 05. .' .5.;7,1'5.I' 5' <671< 7' 4<' >.'6.6' / . / 01.6' =4B5' .67' ?,17.41' > 4<' >. .1.7' >.' ?1 6.'>.' ;,1?6' ;,<71.' 4<' .5.;7.41I',<'54 ' > 7I F ,46' >.-1 .0' <67 4 1.'5.' ?1.6 >.<78' .7' 54 '>. ' / '<>.1'5" / '< .1.'>,<7' -,71.'>.;1.7' ?.<7'E71.' .@.M ;47.%5 '.<71.'>'<6'4<'041.'4'?,41' .;1 1.' ..77.'5.771.' >.'?41.'?,5 7.66.I'=4 '11 -. 7 5Z' .6' .5.;5.416' ' ' ?.1;, -.<78' ';;'05.<7'> <Q41.68'5.' / .77.<7' ,<';:'E' 71.'?1 -..' '-.;'6,<'1.;,16I' 6'5.'71'>4 6.<7'>.-'<7' 5.'?1.6 >.<78' 54 'E,<7' 640 1'71, 6' <7.11,J'7, 1.6'= ' >41.<7Q46=4 "4<.:.41.'.7'>. / .'>4' / '7 <8' .7' .7 7 <' 5.'5 -1.<7' .<71.'5.6' / <6'> 4<';, / / 66' 1.'>.'?,5 ;.8' =4 ' .<-, .' .4'?1 6,<8' ,4' 5' .67'>.? 6'71, 6'Q,416%

,41'?1,<,<;.1'641';.6'E' 768' 5'E'47'1. / ,<7.1' '4' ?1 <; ?.' =4 5' .67' <7.1> 7' '4@';,1?6' .5.;7,1'4@'>.' 6 / / 6;.1'>'<6'>.6'E,<;7 ,<6' '471.6'=4.' ;.55.6'>.' .5.;7 ,<8' =4 5' 5.41'.67' <7.1> 7'>.' >.5 0.1.18' .7' ' ?546'E,17.'1' 6,<>.' / '<>.1'"5.41'0'11.'>.6';7,V.<6Q' 'E'47'>,<.'=4.' :, / / .'=4 ' " .7.' <7.11,J ' ?'1'5.' ;,1?6' .5.;7,1'5'>.' '1 6' .7' / 6' .<' ?1 6,<' 6'<6';'46 ' 5.J 7 / .8'?'1'5.';, / / 66' 1.'>.'?,5 ;.8'6, 5' .5'1J 8' .7' =4.'5" ;,<>4 7.'>.' '66. / 05..' .5.;7,1'5.'6, 5' / ' ?1,4-..% ' 8 % 2' ' ; D %'N' .' ?7 7.<>6' =4.'5.' ?1 <; ?.' .7.'

% #:'?.5 .1' .67'E'4@8' .7'Q.'6,47 .<6'=4.8' > '?1.6'5" ;,<67 747 ,<85"5 0.17.'>.6' .5.;7 ,<6'>, 7'> 1.'6';1..8' .7'= .'?.16,<<.'<.'>, 7' .<71.1'>'<6'4<.' '66. / 05..' .5.;7,1'7.'6'<6' 5" ?.1 / 66 ,<' >.' 1'66. / 0 ..' ,4' >.' 6,< ?1.6 >.<7% .' 6,47 .<6' =4.' -,71.' ;,<67 747 ,< >,<<.' '4@'?1.6 >.<76' >6'6' '66. / 05..6' >5.;5,1'5.6'5" ?,5 ;.'>'<6'7,47.' .<;. <7.% 'Q,47.' = .' E'>'<6' '5E 1.'>,<7' 5' 6 'J 78' :4 66 .1' " .7.' . / ?1 6,<<>' > '?1.6'5.6' ,1>1.6'> 4<';, / / 66' 1.' ' ?,5 ;.8' -,46' <.'?,4-.0'5.'>.5 -1.1'6'<6'4641?.1'5.'?,4-. 1'Q4> ' ; ' 1.%

'N' .' ?1 <; ?.' .67' =4.'5.6' '66. / 05 .6' .5.;7,1'5.6' <.'?.4-.<7' >.5 0.1.1I' 5.' E' 7' .67'1 ' :4 66 .1'<.'6 .67'?'6' <71,>4 7'>'<6'4<'>.6'041.'< N' >.' '66. <05..' .5.;7,1'5.'?,41'V' .@. ;<5.1'5.'>. .1.78' / ' 6'6.45. / .<7'?,41'V' ;1 1.'4<.'5.771.' =4 ,:'54 ' '-' 5'.,<6. 75.'> '>1.66.1'4'?1 6 >.:7% '?1.6';.5' ' 5'6 'J 7' >.' 6'-, 1'6'5.';,1?6' .5.;7,1'5' " .4'5.'>1, 7' >.'E' 1.' '11 7.1' .7' >.'E' 1.'J 1>.1' :4 66 ;1'>'<6'4< 041.'4' ?'1' >.6' E46 5 .16% ' .67' -1' '=4 5' '-' 5' ;' >1, 7'>.'5.' / .771.' "5"?,17.8'>.'54 '> 1.'> '55.1'641'5" ?5';.' ?405 =4.' '77.<>1.'=4.' . .;7.41' " =4 ' 5' .<' -,?5' 7'6,17 78' ,4'>.' E' 1.' 6,17 1'5.' / . / 01.'>. .1.7>' ?'1'4<.'?,17.8' .7' :4 66 .1'?'1' '471.8' .7''5,16' 56'6.' 6.1' .<7' ?.47 >71.'1. ;, 71.6I' &<' 6'5.';,1?6' .5.;7,M 1'5' <'-' 7' ?'6'5.' >1, 7' >.' / .771.' =4 '=4#' ;.'6, 7' .<' .7'7' > '11.67'7 ,<% .'>. / ':>.'>,<.'=4.'5.'., / 7.';5.' ;,?67 7<7 ,4' .@' / <.' ?546' '77.<7 -. / .47' 5.6' E' 76' ?,41'<,4 ' .<'E' 1.'5.'1'??,17%

66. / 05..' ,1>,<<.'5"5.;741.'>.6'? .;.6%

% 4?,17'E' 7' .<' .,<6;=4.<;.'5"5.;741.'

D 4'?1,..6 -.10'5' >.'1'66. / 0 ..' .5.;7,1'5>' ;,<7.<'<7'5.6' '11>7.6'?'1'5.6=4.56' % ' / .<8' :4 6M 6 .18' .76,<';, / / 68' ,<7' .7. 64;;.66 -. / .<7'11.7. 68' 5.' ?E. / . Z' >'<6'5.'041.'4' ,4' 5' '-' 5'.7.' <71,>4 7' ?,41>;1 1.'4<.'5.771.' '4'?1.6 >.<7I'5.'6.;,<>8' ' 5 <.'>.6';,416' '>Q';.<7.6' '5"6'55.'>.6' ' .5.;M 7,1'7.6I

D .6' ?1, ..6 -.10'4 ' >.6'71, 6' <7.11,J'7, 1.6' 6 0 6'?'1' 8' ' / .<8' .7'>.';.54 '>.' <7.11,J'7, 1;' >4';, / / 6I'

D .'5"5.771.'>.' % ' / .< 4 ?E.6 >.<78' ' '6' ;,< 4.I' 8 8 % %

W %5.'?1>6 >.<78'Q.'64 6';:'1J>'?'1'5.'71 04<'5'> ' 6 @ . / .' '11,<> 66. / .<7>.' / .771.' " .@..47 ,<'4<>>G' ;1.7'>.' ?1 6.'>.';,1?6' ;,<71.' % '<7,<'^Q.';1, 1% ' / '<=4.1' ' '1.6?.;7>E5' "1'66. / :5>.' .5.;7,1'5.8'6'Q.' < .<' <6714 6' 6'6,<'?1.6 >.<7I'Q.'-,46'?1 .>.' / 4 ' > =E5.1'5 ';,<>' 7.'=4.'Q ' ' '7.< E%Y

[illegible]

J<'5 ,4 > '4;4<.'?1,E.66 ,<8 / ' 6 6.45; / .<7 5'' >.M 6 J<'7 ,< >. A ! F

.6 ?'17 ;45 .16=4 '<.6.1,<7?,41-<6 =4.>. 5'' A '<.'?,411,<7 .@.1;.1 =W. 5'' ?1,E.6M 6 ,< >.'0,45'<J.18 ;,<E,1 / .< .<7 '' '17 ;5. '' 555 >4 >>;1.7 >4 C / '16 >.1< .1 $

W#.4@ =' '6.1,<7?,41146 > <<. ?'7.<76 ?,411,<7 .@.1;.1 7.55. ?1,E.66 ,<8 ,4 .< ;4 / 45.1 ' 7'<7 =4 56 5.Q4J;1,<7;,<-.<'05.8 ;,<E,1 / . / .<7 '' '17 ;5. 55>4 / > / .>E.1.7 '' .@;.?7 ,< >. ;.>.6 >.6 J<..6 ?'1 '17 ;5. '' > '' / 9 <. >.; .7

_ #.4@ =4 '6.1,<7?,41-46 >. 5'' ?'7.<76 A 2 '?,411,<7 .@.1;.1 7,47.6 5.6 ?1,E.66 ,<6 .7 6. 5 -1.1 '' 7,46 5.6 ;, / / .1;.6 ,< <>4671 .68 6'<6 '4 ;4<. .@;.?7 ,<

$ .6 > 1.;7, 1.6 >. > 671 ;7 E.1,<5E' 1.8 >'<6 5.6 ?1. / .16 Q,416 >.;:'=4.'71 / ;671.8 5.'1.5.-> >.6 >.;5'1'7 ,<6 ?,17>.6 6415.'1.J 671. '' 6,4;:. >. ;:.M =4. / 4< ; ?'5 7V

W 41 #.61.5.->68 5 .1'' E,1 / >8 ?,41 ;:'=4. / 4< ; ?'5 7.8 4<5E 5. =4 '>.6 J<.16 5.'<, / >.6 6,4 / 66 ,<<' 1.6 >4 71 / .671. ?1.;.>.<78 5'' <'741. >. 5'' ?'5.<7.8 5. / ,<7'<7 >45,V.18 5.?1 @>. 5'' ?'7.<7. .7 5'' > 671 047 ,< >.6 7.1 / .6 >. ?'V. / ;<78 ;,<E,1 1<> / .<7 '4 / ,>45. '<<.@. '4 ?1.6.<7 >..1.7

W 555 '' 1.4< ,< >.6 1>5.6 E,1 / .6 ?'1 71 / .671. ?,41 ;:'=4. / 4< ; ?'5 7. >,<<.1'' 5. / ,<7'<7 7,7'5 >4 ?1,>4 7 >4 >1, 7 >. ?'7. 7.6 >,<7 5. ?.1;.?7.41 >. 5'' ;, / / 4<'47. >. 1'' ;, / ?7.18 '' 5'' >. >4;7 ,< >.6 C ,46 ?,41 5 -1. '55,4.6 '' 5'' ;' 66. >.5'' ;, / / 4<.8 .7 >. '>.< .16 ?,41 5 / >. 7'@'7 ,< '' 6,< ?1,E 71 .<71. 5.6 / ' <6 >4 1.;.-.41 >4 > 671 ;78 .7;.54 ; '' : 71V6,1.1 . ?'7 ,<'5.8 '' >>>4;7 ,< >. 6.6 7'@'7 ,<68 6415. ? .> >. '>.< .1 ?,41 5 -1.

$ '' ' 6.1'' E,1 / >8 >'<6 5.6 ?1. / .16 / , 6>. ;:'=4. 71 / .671.8 ?,41 7,47.6 5.6 ;, / / 4<'47#6 >4 > 671 ;78 4< 0,1>.1. '4 J.<>1'5 >4 / ,<7'<7 >.6 1>5.6 >. ?'7.<7.6 .@? >>.6 ?,41 5. 71 / .671. ?1.;.>.<78 .7 5. >1.;7, 1. >. > 671 ;7 '>1.66.1'' 4<. .@?.> 7 ,< >.;.'0,1>.1. '48 6 J<. .G.7;.15 E .. >. 54 8 '4 1.;.M -.41 >4 > 671 ;78 .7 4<. 6.;,<>. 6.1'' 1. / 6. '4 > M 1.;7, 1. >4 >V?'17. / .<7

$ '' . > 1.;7, 1. >4 >.?'17. / .:78 '466 7>7 5'' 1V4< ,< >. ; .6 0,1>.1.'4@8 .< E,1 / .1'' 4<'>7'7 J> <.1'5 ?'1 > 671 ;78 >,<7 4<. .@?.> 7 ,< 6.1'' '>1.66. '4 / < 671. >.6 ;,<71 047 ,<6 ?405 =4.68 =4 '.< 5.1'' ?'66.1 4<. ;,?. '4@ ;, / / 66' 1.6 >. 5'' 71.6,1.1 . <'7 ,<'5.

W'' ' 6.1> V/>O5 8 >'<6 ;:'=4. >>?'17. / .<78 >.6 ?1.?,6.68 6,46 5.'<, / >.[W.Y16 * '4'<, / 01. >.'6 @ '4 ?5468 .7>,<55 4<'41' ; .54 >. 556 6.1,<7 ;.'1J>6 >. ;, / ?456.18 >'<6 ;:'=4. / 4< ; ?'5 7.8 5. <, / 01. >.6 >>;5'1'7 ,<6 >.6 ?'7.<7.68 .7 > '>.1 5.]> 7.6 / 4< ; ?'5 7.6 : 5'' E,1 / '7 ,< >.6 / '71 ;.6 >. 1>5.6 >.6 ;,<71 047 ,<6 E,<; .1. .7 / ,0 5 .1.8 ;,<E,1 / . / .<7 '' '17 ;5. >4 >. ;1.7 >.6 .7 Q4 < (*

$ '' #.6 - 6 7.416 6.1,<7 640,1>,<<>6 '' 4< < 6?.;7.41 J. <.1'5 >.6 1>5.68 >,<7 5'' 1V6 >.<;. 6.1'' E@. >'<6 5. ;:.E 5 .4 .7 '4?1E;6 >4 > 1.;7, 1. >4 >. ?'17. / .<7 .6 1.5.->6 E' 76 ?'1 5.6 - 6 7.416 >.6 1>5.6 .7 - 6 7.41 ?1 <; ?'5 6.1,<7 '>1.66.6 '' ;.7 <6?..7.41 J.<.1'58 =4 '6.1'' ;:'1J. >.'E' 1.'E,1 / .1 5.6 1>5.6

W'' 555 .6 - 6 7.4168 - 6 7.41 ?1 <; ?'5 .7 <6?.; 7.41 J.<>1'5 >.6 1>5.6 6.1,<7 7,46 4, / / .6 ?'1 5.6 > 1.;7, 1.6 >. >. ?'17. / .<78 =4 ' <. ?,411,<7 5.6 ;:, 6 1 =4.?'1 / 5.6 ?.16,<<.6 =4 Q467 E .1,<7 '-, 1 ;7. ?1.;.>. / / .<7 . / ?5,V..6 '4 6.1- ;. >. 5'' <'M 7 ,<8 >'<6 5.6 '> / < 671'7 ,<68 E.1 / .6 .7 1>J .6 1. >4 7.6 ,4 64??1 / #.6 '4 7.1 / . >4 >..1.7 641 ,1J' < 6 '' 5 ,< >.6 1.J .6 <'7 ,<'5.6

$ '' .6 - 6 7.416 >.6 1>5.6 6.1,<7 ;:, 6 6 .7 <, / 1<V6 ?'1 5.6 > 1.;7, 1.6 >. >. ?'17. / .<78 ?'1 /

('' (4 8('' -((. '') .(+ 2/ -(3(2 -('' -$! .(3, $.('' -(-$',.$3, ! K (0$'$,(. 4.$*3$4+ -(c .- ('' '(.+ , . 36 '$ 4+. $ ('' 0$'$,(. '' .-$*+$.('' - -(4+.,(! (*,7 +$'' $*'4(,(. 98*-.+ 4 ..+ -,.(36 $'$ 6 . '' - -(4+.,((*,/ 4+. $, '' ('' 0$'$,(. '' 9 *-! .+ 2

K (,.+$,((*, -(''0$'$,(. '' -('' .- ('' '(.+ -(8 $0 / - *, 8C +35 $,,(('' ' . (4. - $, -('' 4+,(*,('/ (, '/' , ('' ' '' 4 . $0.(+--$! ,$ '' ('' - -84+.,((*,

$ #.54 >4 - 6 7.41 ?1 <; ?'5 6.1'' >. C8 5 -8 >,<7 8 5 -641 5. ?1,>4 7 >.6 ?'7.<7.68 .7 8 641 5.6 6,46 ?,41 5 -1. '>> 7 ,<<.56

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,<6 .418 Q. / .71,4-. '>5 U1'<78 ;, / / . 6 J<'5' 1.8 > 4< .;1 7 <7 745. N) (& 2 '0 9 3 . >.;5'1. =4. / ,< <, / 8 E';5.8 > ;,<E,<>1. '-7, ;.54 >. .16#8 >.?47. >. '11.J4. / <.68.67.7'.7> =4.5=4.E, 6 5'' ;'46. ,4 5. ?1.7.@5. >. ;.77. .11.418 .7 =4. Q.<. 'Q' / '6 / 6 >5'' 64 7. > '4;4<. ?1,7.67'7 ,< ,4 >.M ;5'1'7 ,< .?47. > 66. / .. <'7 ,<'5.8 '' 71 04<.8 , '' / ,< -,7.8 ?'1 ,4 ,4 ?'1 <,<8 ,<7 7,4Q,416 64E > / ,7 0, .<.418 > / '' ;<6; <=;8 > / ,< / '<> '78 .7 / ,<7 641 7,47?'14643 1. >5'' ?' @ 1.<>1' 8 5,16=4 ,< 5.-,4>1'8 5. ;, / ?7. >. / .6 ,?< ,<6I / ' 6 Q '77.<>1' =4 ,< / . 5. >. / '<>. < '77.<>'<78 5 '' '??1,0'7 ,< >. / ,< . / 418 .7 >. .. 5 =4 -, 77,47 E.5 ;7. / ''?'71 .76,< #:.E64M ?1. / . >. ,: =4. ;7. ;,<67 747 ,<<.5 .67 ;,.?7. N 7 .67 7. / ?6 =4. 5'' H1'<; ?1.<<. >4 1.?,6 34'<7 > / , 8 Q. < .< J,>5.1' 6 Q' / '6 6 Q. ?. 6' 6 =4 << 6.47>. 6.6 / '4 >'7' 1.6 6.E>7 >.7.1 / <. ?'1 >.6 / ,7 E6 ?546 ?416 .< '; ;.?7'<7,4 1.Q.7'<7 5.6 > -.16.6 5, 6 =4 -,<7 5'' 1.J 18 B Q 6>

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9E7 ,<' 6.' 71, -'<% '5'<' 6'=4.' ;.6' 1.66,7 E 6.6'
<.'1.?,<>' .<7' ?, <7' 7 .6?, 1'>.'5.41' <-.<7.418' 5''
;1' <7.'=4 5' <.' > 66 / 45' 7' ?'68' .7'=' . 7'J 1' 5' 5.'
?'17'>.'1,??,6 7 ,<8' 'EE' 05 66' 7'5.' ;1.> 7' >.6' '<7 M
; ?'7 ,<68' .7' 7'1 66' 7' ' <6' 5.6' 6,41 / ', 5' '>/ '
< 671'7 ,<' >7' 7' ';;,47< / >.' '?4 6.1%
''#' 66.'> .6;, / ?7.8' 7,4Q,416' 6,<6' 5''6'4-.J'1>.'
>4<' '11#7' >.'6416.'<;.8' Q,4 66' 7' .<;,1.'> 4<' ;1.> 7'
> :'0 7 >.% .' / < 671.' V' #:.1;:''5.'1.< ?5';.7<.<7'
>.'7,<6' 5.6' / ,V.<6' =4 '54' .;:'??' .<7% 66. / 05..'
:'5 ,<'5.'.<' ?.1 / 7' . / ?5, 8' .7) ' / 55 ,06' E,41< 6'
.<' 0 55.76' >.' ;' 66.8' Q, <76' '4@' ' 0 .6' ?1,>4 76' >.'
. / ?14<7' <'7 ,<'58' ;,<>4 6 1.<7% Q46=4 '' 5'' E <' >.'
'<<..% ' %
'<6' ;.7' <7.1-'55.8' 5 <.' J1'<>.'=4.67 ,<' ?,5 7 Q'
=4.''1' 7' >7.'> 6;47..% .6' > 67 <;7 ,<6' > ,1>1. '=4'
?'17'J1' .<7' 5.6' ; 7,V.<6' .<' 71, 6' ;5'66.6' > E>1.<7.6'
-.<' .<7' > >71.''0,5 .6'.<' / > / .'7. / ?6' =4.'5.'1>J / .'
E.,>'58' 5.6' ?1 - 5.J.6' >.6' ;,1?6' .7' ;.4@' >.6' ?1,- <M
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71' 7' ?'1' 4<.';,<6.=4.<;.' / / .> '7.'>'<6' 5'' ;5'66.'
>.'7,46' 5.6' ; 7,V.<6% '.7' 7' ;:'1J>' > 4<.'E,<;7 , '
?405 =4.'71 1.6?.;7'05.I' / ' 6' ;.>.' E?<,7 ,<8' <.'
>.-'<7' ,;;4?.1'=4 4<' ;.17' <' <, / 01.'> <> - >468'
;.4@ 5''6.456' '-' .<7' >1, 7' ' 4<.'1.71 047 ,<% 7'7'
>.-' 7' 5.6' ?'V.1';, / / .' 5' ?' .'7,465.6' 5 , / / .6' . / M
?5,V.6' >'<6' 6,<' 6.1- ;.8' >'<6' >.6' ?1,?,17 ,<6' > 5E>'
1.<7.66'<6' >,47.8' / ' 6' > '?1.6' > .6' 1.J .68' E @.6' .7'
>.7.1 / <. .68' ''?,66.66 ,<' >.'7.11 7, 1.'<.'?=4-' 7'
641- -1.' ' 5' > 66,547 ,<' >4' #,1?6' =''' < .7' 7?1, '
?1 #7' 1.'=4 ''5 71.';, .;7 E8' =4 '<.' .7' 7' =4 '';,<M
> 7 ,<' >.' 1. / ?5 1' 4<' 6.1- ;.' ?405 ;'I' .7' ;.>.'?,6G'
6.66 ,<' ?'66' 7' >.' >1, 7' '' ;.4@' =4 '>.6,1 / ' 6' 6.'
;:'1J.' .<7' > ';=4 77.1' ;.'6.1- ;.8' . .67 ' > 1.'''5''
<'7 ,<%
?1.6' 4<.'5,<J4.'> 6;466 ,<8' #.'?1 <; ?.' E47' 1.% '
.,<<48' .7' 5'' <'7 ,<' .'7' 7,47' '' ;,4?' ''6''> 6?,6 7 ,<'
4<' >, / ' <.' / / .<6.8' =4 ' >#6' 5,16' E47' ;,46';1.' ''
';=4 7' >.%5''>.77.' ?405 =4.I' . .7' 7' 5.'1.<>1.' '6''
>.67 <'7 ,<' ?1 / 7 -.8' ;.>.'>.'6,45'J.1' 5.6' ?.4?5.68'
.<' .7. J<'<7' >.6' ;'? 7'4@' >,<7' 5.6' <7.1>76' / ,<'
7' .<7' '' 4<.' 6, / / .' .@,10 7'<7._' #.77.' 1.;,<'
%<' 66'<;.'> 4<' ?1 <; ?.'6.-.1.8' / '6' <;,<7'67'05.8'
E47' 7'@>' >.'01 J'<>'J.' .7' > / ? .7.I' / ' 6' ,? < ,<'
?405 =4.' . / ?,17'' 0 .<7,7')>.'-' <.6' >.;5'<1' %
7 ,<6% # .67' > '?1.6' 5.6' / > / .6' ?1 <; ?.6' =4.' '<; .<'
>,J / .'?,5 7 =4.'>.' <'5 .<'0 5 7>' >.6' >, / ' <.6' >.'
5';,41,<<.''-' 5'. #>.Q'?1,6;1 78' .7' =4.;.6' >, / ' M
<.6' '-' .<7' .7.';,<6';1#6''';=4 77.1' 5'>.77.'>.' 7''7_
66. / 05..'<'5 ,<'5.8';, / / .',<' - .47' >.'5.'-, 18'
'-' 5' >.Q'' 5 < / .<7' ' / .5 ,1.'5.' 6,17' >4' ?.4?5.I'
.55.' '-' 7' 'E 1'<;:.'>.'5'' 7V1'<< ;'>.6' E .E6' .7' >.6'
1 J4.416' >4';,>.'>.'5''E.1 / .' .7' >.'5''1>J .'J><.1'5.I'
.55.''-' 5' E' 7' -.16.1>'<6' 5''0,416.';, / / 4<.'5.'?1, '
>4 7' >.'7,46' 5.6' ?1 - 5.J.6' >.6' ;,1?6' .7' >.6 <> - >468'
.<E <' .55.''-' 5' '>,4;'5.'?, >6' >.6' ?546' ,> .4@' / '
? 76% <' 1>4< 66'<7' '4' >, / ' <.'<'7 ,<'5' 5.6' 0 .<6'
>4';.1J>8' .55.'?47' E @.1' 4<' 7.1 / .'?1,;:' <' '4' 71 0 7'
>.'5'' > / .8' .78' 5 01.' >.6,1 / ' 6' >.'> 6?,6.1' > 4<.'
J1'<>.'1 ;:.66.'7.11 7,1 '5.8' .55.' ?47' ;,<;.-, 1>.6'
?5'<6' ?546' -'67.6%.7' ?1.?'1.1'5''1>J. <.1'7 ,<7,7'5.8'
,0Q.7' >.'7,46' 6.6' -;.7 @8
.';, / <.<! . / .<7' >.' '<<>.' (* ' '<? ,;:' 7I'
5.6' ?5'<6' >.' '-.< 1' < >7' .<7' .<;,1.'=4 .0'4.:.68'
.7' ;';'5.45' >.6' 0.6, <6' >.'5''<,4-.55.''<<..' .'?1. '
6.<7' 7' > <<.' / '< .1.'.EE1'V'<7.% <'<.'?,4-' 7' ? <6'
;, / ?7.1' =4.'E' 07.14.<7' 6 1' 5.6' '<7 ; ?'7 ,<6I' / '<'
=4.1' ''5.6' ?'V.1' ''5.416' .;:.'<;.6' .E 7' .7.'6 .@?,6.1'
'' 4<' 0,45.-.16. / .<7' J.<.1'5' .7' ;,<71.-.< 1' <4@'
>.;1.76' 5.6' ?546' E,1 / .568' 4??5..1' '' 5'' / '66.'?1. '
=4..<7 .1.'>.6' 1.-.<46' 6.< 05' 7' / ?,66 05.8' .' / '
< 651.8' E1'??.8';, / / .' 5' >.-' 7' 71.8' >4' >'<J.1' >.'
;.77.'?,6 7 ,<8' < V' - 7' .<;,1.'>.'1. / .>.'=4.'>'<6' 7.'
1.> 7' >.'5''#' 66.'> .6;, / ?7.% '';,<-.16 ,<' .<''<

:4 7.'>.' 6'' ;1 <#.' 641' 7'7' ?,4-' 7' ' >.1' 2' 6''
?1,;41.1' >. 'E,4>6' N ,<' 5''54''; ;,1>'% .6' 54' / 5476'
<>J,; '05.6' 41' 47' ;'? 7' 5' >.' U ' ' 55 ,46' >.'>,M
/ ' <.6' <'7 ,<'4@' ?,4-' 7' J'1'<7 1' 5'' 1.<71. .'>.';.6'
'-'<;.6' 6,<' 5.6' 54' ,E 1 78' .78' 6,46' ;.6' >.4@' ;,<> '
7 ,<6' .55.'6 .<J'J.'' ''E,7 1< 1' .<;,1.' * ' / 55 ,<6' >.'
.6' 0 55.76' .7' '' ;,<7 <4.1' > .<' ';=4 77.1' 4<.'?,17 ,<'
'66.0' ;,<6 >.1'05.'7,46' 5.6' ,416' Q46=4 '4' / , 6' >.'
Q4 5.7' 64 - '<78' ;.'=4 '>.6' 5,16' ?1#6.<7' 7' >.' J1'<>.6'
> EE ;457>6%
''E1'V.41' =4.' 5.6' > - 6 ,<6' <7.67 <.6' <6? 1;47'
7,4Q,416' '-' 5' 5' 7' 7,47' '' ;,4?' 1.66.1.1' 5.'<4 / .1' 1.8'
.7' ;.'< .7' 7' >#Q'' =4 '-.;'>.' J1'<>6' 6';1 E ;.'=4 ,<'
?,4-' 7.<' ,07.< 1;:.0' .71'<J.1% #.?.<>'<7' % ., '
.1' ;, / ?7' 7' .<;,1.'641' 5.' 6.;,416' >.6' ;'? 7'5 67.6%
'' ;,<71 047 ,<' ?'71 , =4.' .7' 7' 1.J'1>>.' ;, / / .'
4<.1.66,41;.0 .<' ?546' ;,<6 >.1'05.' =4 .55.' <.' ''
HMH 1 .55. / .<7% <E <' ,<' ;, / / .<;.' '<<..' 6'<6'
'-, 1' >.6' <,7 ,<6' 0 .<' <.77.6' 641' 5.6' / ,V.<6' >.' 5''
E < 18' / ' .' 'V.;' '-.;' '<' .6?, 1' E,<>>'641' > 1.16.6'
?1,0'0 5 7#6% ' % 8
' (* -
.67' '' ;.75.' ?,=4.'>.6' ?1. / .1 ' ,416' >.' (*>'
=4.' 66. / 07 .<'7 ,<'5.';, / / .<J' ''6 ,;;4?.1' 6#W'
1 .46. / .<7' >.6' E <'<;.6%8']''?1. / .1.' / .641.'> ,1>1.'
.47' ?,41' ,0Q.7' E .';,<<' 71.' .<E <' .7' >.'>.7.1 / <.1' '
=4, ' / #<7' .<7' 5.6' ?'V. / .<76' 1.7'1>#6' >'<6' 5.6' > E> \8'
1.<76' >.?'17. / .<76% <' >.;1.7' 646?.<> 7' .<';,<6.\'
=4.<;.8' Q46=4 '?1.6' 4<.' 5 =4 >'7 ,<' ,1>,<7 . .8' W'
?'V. / .<7' >.' ;.'=4 ' #7' 7' '11 #1.' '' #?,=4.' >4' SWG'
Q' - .1' (* 8' .@;.?7>' 5.6' 1.<7.6' .7' 5''6,5>,'>.6' 71,4d'
?.6% 5',1>,<<'7.<' / / .'7. / ?6' =4 ' '-.< 1' 7,47. '
5.6' >.?.<6.6' 6.1' .<E / 6.6' .7' .<71.7.<<.6' '4';,4T'
1'<7% <';, / 7.'E47' 6?.,' . / .<7' ;:'1J '>.'?1.<>1.'
;,<<' 66'<;.'>.';.7' '11 #1 8' > .<' -.1 E .1' .7' 78' .5'
>.'5.?1 6.<7.1' '' 66. / 05..'<'7 ,<'5.I''5,16'466'
;:';4<.' >.6' >.?.<6.6' E47' ,0Q.7' > 4<' .@' / .<'>. '
7' 55 %K 5.6' ?1,4- 1.<7' 5, 7.6?546,4' E<, < '>.'1 G'
> ;7 ,<68' .6' ?.<6 ,<68' > Q ' 604 / 6.6' ''5'' ;=?641.'
> 4<' .6' / .<' ?'17 ;45 .18' 5.'E41.<7' '' ,55.'>4' ?405 ;'
?'1' >.6' 7'76' / ?1 / 6% .' ., / ?7.'>.6' 1.;.77.6' .7'
7 .6' >.?.<6.6' >.'.< =4.' / , 6' E47' .@';7# / .<7' ?405 ;8'
<' / # / .'7. / ?6' ,<' 6.' 7 .77' 7' .<' 7'7' >.'E' 1.'46'J.'
>.'7,47.6' 6.6' 1.66,41..6' ?'1' 5''>.?,66.66 ,<' '06,54.'
>4' ;5.1J.8' ?'1' 5'' 64??1.66 ,<'>.'7,<6' 5.6' ,1>1.6' 1.q'\
J .4@8' .7' ?'1' 5'' E @'7 ,<' >4' 71' 7. / .<7' >.6' <> - '
>?6' .;;5.6 '67 =4.68' #.?.<>'<7' 5''> / <47 ,<' >.6' 1.Y'
.<46' ?405 ;6' >.-.<' 7' > '47'<7' ?546' 6.<6 05.' =4 '
,<' 71,4-' 7' ?546' >.'> EE ;457.';:'=4.' / , 6' '1.<,48G'
-.5.1' 5.6' '<7 ; ?'7 ,<68' .68' '66 J<'7 ,<6' 641' 5.6'
>, / ' <.6' <'7 ,<'4@8' .1. .6' ''5''E<>.' '<< .'?1.; G'
>.<7.'?,41' .<' ' >.1' 5'' #' 66.'> .6;, / ?7.8' <.'6.' < q
J,; ' .<7' ?'6% ''.,1 71 04E ,<' ?'71 ,7 =4.'1.<71' 7'
E,17' 5.<7. / .<78' 1, 6' / , 6' ''?. <.'.7' .<7' .,45 68'
.7' >.Q'' ,<''-' 5' ?46 '5.6' * ' / 55 ,<6' >.' '#' 66>'
> .6;, / ?7.% 2c' .7' 7' .- >.<7' =4.' 5.6' / ,V.<6' ?1 -46'
>.-.<' .<7' .<7 .1. / .<7' <64EE 6'<76% 66. / 05..I'
=4 'Q4J.' 7' E,17' 0 .<' 5.6' . / 0'11'6' >.'6''?,6 7 ,<8' .7'
=4 ' < .<' / > 7' 7' ?' '7 , <6' 5'' 64??1.66 ,<' .7' 5.'
1. / 0,416. / .<7>.'7,46' 5.6' ,EE ;.6' >.'1 'J 671'741.'.5'
>.'E <'<;.8' '0,5 7 ,<' >.'5''J'0.55..7>.6' '<7 ; ?' '
7 ,<68' <.'?,4-' 7?5466.;,<7.<7.1' >.6' ?.7 56' / ,V.<6'
?1,- 6, 1.6' =4 ,<' <.';.66'17' >.' 54' ,EE1 18' 55.''-' 5'
0.6, <' > 4<' ?5'<' ?546' -'67.N 5' 54 'E47' .<E 7'?7,?,6 I
5 / / .46.'1 ;:.66.' 7.11 7,1 '5.8' >,<7' 5'' 4'7 ,75'
'-' 5' 1.?1 6' 5'' ?,66.66 ,<I' 54' ,EE1' 7' >.6' ;'? 7'4@'
> 6?,< :5.6'.7' >.' J1'<>.6' -'5 416' Y' 1 '5 6.1I' / ' 6'
;'.7' 7' 4<.' / <.' '' .@?5, 7.1' ?546' =4 4<' ;,416' '_'
54.5' .7' . 7' 7' 6 17,47' '4@' 0.6, <6' >4' / , / .<7' Q4 5'
.7' 7' '466' / ?,17'<7' =4.'> EE ; 5.'>.'?'1.1% .'6,17'
.<7 .1>.'5''1.-,547 ,<' 7.<' 7' '' >.'=4.'5.% E.1- ..'> 7'
71. 6,1' ?405 ;' <.' E47' ?'6' 4<6.45' Q,41' <7.11, / ?46'
,<''-' 5' >.Q '>. #E 7 8' '4' / , 6' >.'4 ;. / 01.8' =4.'U ,'
/ 55 ,<6' >.' >, / ' <.6' <'7 ,<'4@' 6.1' .<7' / 6' .<

ET

-.<7.I'5.'?1,>4 7>.1' E' ';=4 77.1'5.6' '-'<;.6'>.'5'' #' 66.' > .6;,1'?7.' .5' 64??5..1' '<@'1...57.6I' / ' 68' ?,41'';;>5 1.1' .EE.7>.';.77.'?1. / .1.'1.6,547 ,<8',<' '-' 5'64 - ' 5'' / '1;:.'46 5..'> ' ?1 '5. ' ?1 <; ?1 '>.' <,51.'7 ; .<<.'7 <'<;.%# .7' .<7>.6'<7 ; ?'7 ,<6=4.' ,<' '-' 5' 7 1>.6' 641' >.6' -.<7.6' >-.<54.55.6% 5 .6' '4??,6' .<7 <<.'<>J,; '5 ,<' > .EE.76I' / ' 6' ;.4@G '8' < 'V'<7 ?'6' 44.' .;<>'<;.' E @.8' < .5' .<7 ?'6' <. ,' ; '07.6% #.55.' ,? 1' ,<' 5' 66' 7 5.' 71.6,1'?405 ;' '5'' / .1; ' >.6' ;'? 7'5 65.6' =4 ' '41' .<7 0 .<' 64' ,07.< 1' '' - 5?1 @>.6' -'5.416'466 ' ?.<' 1.;:.1;: .68' .5' =4 ' .<' '41' .<58' '?.4' >.' E1' 68' .<-' :' 5.' J'J.% .?4 6' ;.75.' ?1. / .1.' > 6?,6 7 ,<' 5 47.' 1,47 < .1 .8' 5.6' ; 1; ,<' 65'<;.6' >7' .<7 ;:'<J .6% <' -?V' 5' - >. / / .<7 =4 '4' / 5 .4' >.6' ;,<71'> ;7 ,<6' .7>;6' 1 67'<;.68' ,<'<.'71 , / ?:.1' 7 ?'6'>.'7'<7 > ,067';5.6'6'<6' 6 .7'.' / 6' ?'1' >.6' < .641.6> 4<,1>1.64?.11.<1' '<\>.66<6' >.'7 46'5.6' . / 0'11' '=4.'5.6' .<<. / 6' >.'5''1.6,547 ,<' '41' .<5 7, 7 / , / .<7 '17 >.'1.?1,>4 1.% 'E'55' 7 6.'E1'V.1' 4<.'1,47.' <,4-.55.' .7 J1'<>.' ;, / / .'5.6' ; 1; ,367'<;.6' , 5' ,<' 6.'71,4-' 7N ; .67 '5,16' =4 ,<' ,6''E' 1.' .<7.<>1.'4<.' ->1 7>' ?'5?'05.'?,41' 7,47 .6M ?1 7 >.J'J.' >.' ?1.Q4J.6% <' ,6''> 1.' =4.8' 6 5' .7' 7 / ?,66 05.' >.' / .771.' 7,47 '' ; ,4?' .<' ; 1;45'7 ,<' 5.' ?1 @' >4' 7.11 7, 1.' >,<7 '5 .<'7 <' .7' 7 >>;1.7>.8' ,<'?,4-' 78' ?'1' .EE.7>.'5' -,5,<7>' J. <>1'5.8' ;1..1' >.6' 6 J<.6' 1.?1.6.<7'7 E6' >.'6'' -'5.41I' =4 ,<'?,4-' 7 5.6' > 671 04.1'-.;'5'' ;.17 74>.' =4 56' ?'17 ; ?.1' .<7 >' 5'1.'5 7>' >- >.<7.' >.' 5.41' J'J.I' =4 56' ?'17'J; ' 1' .<75'' ;,7 E '<;.'';;,1>>.' '4@' 6 J<.6' / .7'55 =4.68' .7 =4 '?1.6' '-, 18' ;, / / .';.6' >.1< .168' - - E >' 5'' ; 1M ;45'7 ,<8' B6' E < 1' .<7 ?'1'6.' ;,<-.17 18' .<' E'-.41' >.' 5.416' ?,66.66.4168' >'<6' 5.6' >, / ' 7 .6' .4@ / > / .6' =4 56'-' .<7 1.?1.6.<7>6% ,168' '<'5 .<'>.'?,66>>.1' 4<.' / '66.' > / / .405.6' > 4<' >.0 7 5.<7 .7 > EE ; 5.8' '4' 5 .4' >.'6.' 71' <.1' 5'<J4 66' / / .<7 2' 5'' ?,4164 7.' >.' ;.6' 6.;,416' <;.17' <6' =4 ' ?.1?.74' .<7 '<; .<' >>6,1>1.8' .7 >,<7 5.66'<J64.6' >.'5 7'76'-' .<7 71,?' 0 .<' ?1,E 5.18' 66. / 05..' <'7 ,<'5.8' ?'1' 4<.'6. 5.' 1.6,547 ,<' 0'1'> .8' 6 'EE1'<;: 66'<7 >.'7, 7.6' 6.6' .<_' 71'-.68' ?,4-' 7 '77'=4.1' >' 5''E, 6' 7'<7> '046' >>6714;' 7.416' .7 ?1.<>1.' 7 <' -,5' = ' >5.-.1' 7 '' >.6646' >.' 7,47.6' 5.6' > E5 ;457>6%

#.77.';,41'J.46.'?1,?,6 7 ,<' >.-' 7 >71.'- -. / .<7 ; <71.> 7.%' 34.5=4.6' ?.16,<<.6' ;,<E,<>' .<7 >.' 0,<<.'E, 5.' ?'? .1 / ,<<' .8' 6' Q467. / .<7 ?1,6;1 7 ?'1'7,<6' 5.6' .;1 -' <6' ?,5 7 =4.68' '-.;'4<'?'? .1'?,1' 7'<7 4<.' :V?,7:.=4.' 6?.; '5g% 5 .6' .<' ;,<;54' .<7 '4J / .<7'7 ,<' 640 7.' >4' ?1 @' >.6' >.<1..6' 5.6' ?546' <.;.66' 1.68' 5'' #.66'7 ,<' >.'<, 1.' ;, / / .1;.8' 5''>.6M 714;7 ,<' >.' 7,47.6' <,6' / '<4E';741.68' .<E <' 5'' 0'<' =4.1,47.% '471.68' .7 ; >7' 7 5.' J1'<>' <, / 01.8' ;,<' 6 >.1' .<7 ;.77.' J1'<>.' ,?.1'7 ,<' 6,46' 4<' ?, <7 >.' -4.'?5461>.5I' .55.'>7' 7 '4' ;5.1J>' 7,47 .6?, 1' >.'1. ' ;,4-1.1'6.6' 0 .<68' '4@' E <'<; .16' ; .54 ' >.%;,<6.1-.1' 5.416' ?5';.68' '4@' .<<. / 6' >.'5''1.-,547 ,<' 5.6' / ,V.<6' > . / 0'11'66.1' 5'' / '1;:.' >.6' 'EE' 1.6% 56' >.-' .<7 7,46' 5''1.>,47.1'>J'5. / .<78' '466 ' 7.<' .<7 56' 7,<6' 5.' / / .'5'<J'J.%

'' / 'Q,1 7V' >.' 66. / 05>.'6.<5' 7 5.'0.6, <' >.' 6.' 1.<>1.' <>. ?.<>'<7.' ?,41' ';:.-.1' 1'<=4 55. ' / .<7 6.6' / / .<6.6' 71'-'4@% 55.' <.'1.;.-' 7 >.'6.6' ;,<71'> ;7.416' '4;<<' / ,V.<'>.'1. / ?5';.1';.54 ' =4 ' 54 ' 7' 7 ,EE.17% 55.'-,V' 7 >'<6' 6,<' '>,?7 ,<' 5'' ;.1M 7 74>.'> '57';:.1' 0.'4;,4?' >.' ; 7,V.<6' '' 5'' 1>-,5<' 7 ,<' ?'1' 5.41' ?1,?1.' <7.1E 7% 55.' >.;1 7'' / [[' / 5M 5 ,<6' > '66 J<'768' ,1>,<<'' 5.' 1. / 0,416. / .<7 >.6' '-'<;.6' >.' E'' ;' 66.'> .6;, / ?7.8' .7 >.E.<> 7 '' '-.' < 17,47.' '<7 ; ?'7 ,<%

546' E 01.'>.6,1 / ' 6'>'<6' 6'' / '1;:.8' 66. / 05..' ';:.-'' >.' 1.<-.16.1' .> E ;.' .<7 .1' >.' 5''J'0.55.I' .55.' 64??1 / '' 5.6' >1, 76' 641' 5.6' ;4 168' 641' 5.6' E.168' 6415.6' 6'-,<68' .7 5.41' 640677 '' 4<.' ;,<71 047 ,<' '>> 5 , <.55.'' / ?>7 7.11 7,1 '5% 5E. 1.<76;, / 7.6

-,+$(*,(*% $ (',(4''36+.9(''-(''4 '$ 4 .,+*,'/ ,.+0+ 2,' *' -('4.(4+.(.' ('8',(('(*,$(.' -(''3 *1 ,.$) ,$ *''4) $5 ('7 *'+ ,.(/ -(' -$.$9(.' (,' - +3(-! (%.(.' +'0(*,(' -('')$(*''*+,$ *+ 27 *' ,. $'$((/ -(.+''(.+) (.' (' +,(.$+ 2'*(3(''+$.(''+' +' $5 $-+,$ *' -(, '' ('' ##$3('' -(' -$3+, .(7 *' + ,.((*#$*/ -(.(3 ($ $.' , ,('' ('' 4$(3(''5 $' 3 *',+,+$(*,' +' -(,(-(,+,

%(',' 2' 4(*' 4.('' +' 3(,,(' - (' S4 5 ('5 (' +*! 3$(**(' +9$',.+, .(/'$#+0 .+) (' + ' -('4 ,$' (/ # ,' +*(+$$,$(/ (,'5 (' +' -$ (/ ('4 '' *(%.(2' -(''$ 4-,'/ #+,' +' + +$''+) $(

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>' / .' ,466.'48 .7 '7,46 '471.68 >.'?,17.1'0,<<.41'.71.6
?.;7'4@ . / / 66' 1.61.' ;.<6.4168 .78 ?,41V '-, 1 / '<=4>
,<>' / <'. < '5 -1.6 > ' / .<>.1' 54' ' >>E.<6.6 >'
1.; > -.18 6,46 7.55.6 '471.6 ?; <.6 =< 5' '??'17 .<>1'0 ,1 '
>,<77.' 1 / ?1.66 ,< .7 'EE ; . ' '6.6 !
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1.41 6V<> ;'>4' > 671 ;7>.' '4EE541'H.11 >1.8 '> / < 6 1'5.41

Typ. Henri Plon.

Réimpression de l'Ancien Moniteur. — T. IX, page 710.

Proclamation de la Constitution, place du marché des Innocents (le 18 septembre 1791).

- ' -$%4+. 3 3*,/ (,' 9(' - ',.$) *+' - ' -$',.$3,' - (' "+*9(7
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* ' 'GC A;

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%%5 7'

.<<.77.0 / , 8' / ,<6 .418' >.' / .'6.1- 1' >.' " - , .' >.' ; .'
Q,41<'5' ?,41' >.<,<;.1' " 7,47.'5" 1'<;.' <; - 6 / .' .7' 5"
:' 4.' ?,41'<,71.' '4J467.' ; ,465 7<7 ,<' >.6' '> / < 671'7.416' >4'
>.?'17. / .<7' >.'5" .<>..% '<6' 7,46' 5." 451.6' >.?'17. '
/ .<768' 5.6' ?1.71.6' 6,4 / 6' "<,6'6'J.6' 5, 6'6,<7' ?1,7.J.6% ,4'
7.<46' .7' ?'V.6' '-.,' " ?546' J1'<>. .@';7 74>.I' ; 8' '4' ; ,<'
71' 1.85.6' ; ,<E,1/ 67.6' 6,<7.<' =4.5 ? .' 6,17.?1,6;1 76% K<'
-' <' / .' 64 6 Q.' / 6' .<' 1.J .' '<' ; , / / .<;. / .<7' ><' / , 6' >,'
Q'<- .18' .<' -' <' Q.'1. 7.1>' / "?.7 7 ,<' '4' ; , / / .<;. / .<7'
> '-1 '?,41' / .6' >.4@' ?1. / .16' =4'17 .168' .<' / " =4'5 7.' >.'
- ;' 1.' >.' ' <7 7 .<<. >4 K, 6I' .<' -' <8' 5,16' >.' / ,<' <'
'7'55'7 ,<' "5"; 41.' >.' ' <7 ! :1 67,?:.' >4' J6.1,<8' 5.41' .<'
' Q.' .<- ,V.'5.' ?1, ; .6 - .10'5' '- .;' / "1. ;5' / '7 ,<' ?,41 ,<'
71' 7. / .<7' >.' (* ' .7' >.6' 6 @' ?1. / .16' / ,76' >.' (* I' .<'
-' <' 5.6' '> / < 671'7.<16' >4' > 671 ;7' >.' #: 5,<6' ,<7 56' '?'
?4V>' / .6' > - .16.6' ?.7 7 ,<6I' Q.' <' ' 1.E ' '4.<<.' 1>?,<6.8'
.78' =4, =4 '4' / , 6' >.' 6.?7. / 01.8' Q.' <' '.<;,1.'1.E4' =4. / ,<'
?1. / .1' =4'17 .1' .<' =4'5 7.' >.' ;41.% ,<' ' / ,41' ?,41' <,71.'
; ,<67 747 ,<8' / ,<' 0.Q.' ?,41' " ?1,?'J.18' ,47' 6'<.' >, ,7.' >7>'
>.6' / ,7 E6' ? <6' =4.' 6'5a6'<76' >.'5" ?'17' > '> / < 671'7.416' <'
> J<.6' >.'5" ; ,< '<;.' ?<05 =4.8' .7' =4' .@?,6.<7' 5.416' . ,<'
; ,V.<6' " 7,46' 5.6' >'<J.16' 5.6' Q 546' J1'<>68' .<' ?1,7>J.'<7'
6?.; '5. / .<7' 5.6' ?1>71.6' . ?4564 7'1' 5.41' E'<'7 6 / .' >4' >.M
?'17. / .<7' >.'5" , 1. <E.1 .41.%
.566,<78' / ,<6 .418' 5.6' J1 .E6' =4.'Q ' ' :' >.<,<;.1' ; ,<71.'
>.6' '> / < 671'7.416' =4 ' 7.<>.<7' ?'1' 5.41' ; ,<>4 7.' 2' ' 77 1.1'
641' <,6' 7.5.6' 7,46' 5.6' / '47' ?,41' 5" J'1'<7 .' >.6=4.5'Q56' 6,'7'
?'V.68' .7' =4.' Q.' - ,46' ?1 .' >.' 1.<>1.' ?405 =4.% %
, 1.' E1.1. .7' ' / 8
' ;41>' ' (AG A A &
; ' ' 4.' 1' 6,<' >.' ?546' ?,4" =4.' ; .6' / .66 .416' / .<'
- .4 55.<7' ;67' ?.47 .71.' ?'1; .' =4.' Q.' 64 6' 5.' ?1. / .1' ;41>'
; ,<67574 ,<<.5' ?5' ; .' >'<6' ; .' > 671 ;78' .7' ?.47 #71.' >'<6' 5.'
>.?'17. / .<7%

"

' K ' %

\ ' ' ' 5*' <

d' ' ' ' '

<' >.' '5.6'6. ;1.7' 1.6' E' 7' 5. ;741.' > 4<.' >>?>; :.'
>4' > 1. ;7, 1.>4' >.?'17. / .<7' >.6K,4; .6>4 : <;G'
' 6' ; ,<;4.I

' ,' >4' ' ' ,E57
<, 5' >.' - ,46' <
E,11' .5=4.' 7. / ?6
5" ' , 1.' >4' >.M
?'17. / .<7' < ,<7' ?4' >71.' / 6' " .@. ;47 ,<% ' '-' 5' ;14'
<; ; .66' 1.' > ,1>,4<.1' >.' >>?,6.1' " 5" / ' 6,< ; , / '
/ 4<.8' .5' 6,46' 5" J'1>.' >.6' ,< ; .16' / 4< ; ?'4@8' 7,4 '
7.65.6'1 / .6' =4' .7' .<7'4' ?,4- , 1>.6; 7,V.<6% ?,41'
<.' 5.41' .<' >71.' 1. / 6' =4.' 5.' <, / 01.' < ; .66' 1.' '<'
6.1- ; .' >.' 5" J'1>.' <'7 ,<'5.% <.' ?'17 .' >.6' ; 7,V.<6'
> 15. ' 5" / , <6' <, / 01.46.8' 5" 6.45.' '77'; :>.' " 5"
; ,<67 747 ,<8' 5" 6.45.' ,0. 66'<7' '4@' ,1>1.6' >.6'
; ,1?6' '> / < 671'7 E68' " .@>; <7.' 1'11>7.I' 5.6' '471.68'
.<' ? <6' J1'<>' <, / 01.8' ,<7' . ,414' '4@' '1 / .68' 6.' 6,<7'
; <?'1. 6' >.6' ,E5 ; .16' / 4< ; ?'4@' .7' >.6' '> / < 671'M
7.416' >4' > 671 ;78' 5.67 .<<.<7' .<' ; :'171.' ?1 - . .8' .7'
/ .<'; .<7' 5.416' Q, 16% .' E 56' > 77<' >.6' ,E5 ; .16' / 4M
< ; ?'4@' >.7.7 46.67-.<=' .<' E' 1.?'17' '4' > 1. ;7, 1.%
.' ; ,1?6' .5. ;7,1'58' ';74.55. / .<7' '66. / 0 >' " @8' "
?1 6' 5.' ?546' - E' <7>1E5' " ; .' E' ; .4@' >7'7' >.' ; ; , 6.6I'
<,46' < '- ,<6' ?4K,46' > 6?.<6.1' >.' 1. =4>1 1' 5.6' ; , / M
/ '<>'<76' >.6' 71, 4?.6' >.' 5 J<.' >.' ?1>7.1' 6. ; ,416' "
1.@>;47 ,7' >.' <,6' '11>7>6' ;7' " ; .54' =4.' <,46' '- ,<6'
?1 6' '4Q,417 047Q' ?,17'?7' =4.' 5.6' ,E5 ; .16' / 4< ; ' '
?'4@' .7' 5.6' '> / < 671'7.416' >4' > 671 ;7' > 15.6' 6. '
1' .<7' / 6' .<' 5 0.17>' .7' 1> <5>J1>6' >'<6' 5.416' E,<; ' '
5 ,<6% ,46' 1,4- .1.0'; Q, <7' ; ,? .' >.' <,6' '11>7>68'
>.' .@?,6 7 ,<' >.' % '6; :'5'5 568.7' >4' ?1, ; .J - .10'5'
>.' <,6' 6>'<; .6% ,46' '>1.66,<6' 4<.' 6. / 05'05.' >. '
?>.0.' '<' &< < 651.' >.' <7>1 .418' ?,41' =4 5' 5" < .77.'
6,46' 5.6' V.4@' >4' 1, % $
' ' ^ ' W .? 6' <,71.' ?1>. .>. <7.8' 5.6'
/ ,4- . / .<76' >7' <7' >. - .<46' ?546' '5,1 / '<76' .7' 5,'
>>6,1>1.' 6 .7' <7' >7.<>4' 641' ?546 .416' ?, <76' >4' >.M
?'17. / .<7' 8' 5.' > 1. ;7, 1.' - .<7' >.' #,< ,=4.1' .@71' '
,1>7<' 1. / .<7' 5.6' 1'; / 01.6' >Y' ; ,<6. 5' >4' >>?'17. '
/ .<78' >,<7' 5" ?54?'17' 6.' 1,4- .<7' >>Q" 1'66.< 05.6%
5<' '471.' ;97.8' ; , / / .' 5.6' <67' <; .6' >4' #,1?6' .5. ;M
7,1'5' 6,<7>. - .<4.6' ?1.66' <7.68' 5.' > 1. ;7, 1.' "; 14' >.M
- , 1' 1. J4.1 1=4'71.' ? 55.' J'1'>.6' <'7 ,<'5.6>. ; .>. G'
?'17. / .<7.7 .6' E' 1.' '??1, ; :.1' > 15.68' .<' '77.<>'<7'
'11 - . .>.6' 71,4?.6' >.' E J<.' .7' >4' ; , / / '<>'<7' =4 '
>, 7' ?,41- , 1' " 5" 6E51.7>' >.' ; .77.' - 55.% #.6' > 6?,M
6 7 ,<6' 6,<7' >. - .<4.6' <>. .66' 1.6I' ; '1' ; .4@' / > <.6'
=4 ' 6,<7' 1.J'1>. ' ; , / / .' 5.6' '47.416' >.6' >.1< .16'
71,405.6' 6.' 1.<>.<7' .<' J1'<>' <, / 01.' >'<6' 5" - 55.'
> 15. 8' ; .' =4 '<.' ?.<7' =4.' 'EE.1 / 1' >'<6' >7'7' >.'
1.0.55 ,<8' .5' <,46' < '- ,<68' >'<6' 5.' / , / .<78' '4;4<'
,EE ; .1' J>< >1'5' >'<6' 5.' >>?'17. / .<7I' 4<' 1.6 >.' "
,45,<8' .7' 5.6' '471.6' ,<7' > >'1. ; .- , 1' 5.6' J'1>.6' <' '
7 ,<'5.6' > 6?,6>.6' " 6.' 1.<>1.' '4@' E1,<7 .1.6% ,46'
1.<>,<6' ; , / ?7.' >.' ; .6' > 6?,6 7 ,<6' ?'1' 5.' / > / .'
; ,411 .1' '4' / < 671.' >.' 1 <5>1 . 1%Y
% N ,46' '- .0' >>6 1>' =4.8' ?,41' 5.' / ' < '
7 .<>.' 5" 5 0.17>8' 5.6' H1'<; ' 6E466.<7' '1 / >6I' / ' 6'
; ' ,<' " .54>>' 5.' >. ;1.7>.' 6 . / 05>.' <'7 ,<'5.' .<'
E,1J'<7' 5.6' J'1>.6' <'7 ,<'5.68' '?1>6' '- , 1' E' 7' 5.'
6.1- ; .8' " ?,17.1' >'<6' 4<' .<>1, 7' 4< =4.' 5.416'
'1 / .6' .7' " .<' E,1/ .1' 4<' >.?>7% 7' .67' 71.6 ;5' 1' =4.8'
>'<6' 4<.' <4558' >'<6' 4<' =4'17' > : .41.8' - <J7' "
71.<5.' ?'17 .<5 .16' / '5 <7.<7 ,<<>]' < ,<5' =4 " "B.1'
'4' >>?,7' > . ; .6' '1 / .68' 6 .<' . / ?'1.1I' 5.6' ; 7,V.<6'
1;67.<76'<6' / ,V.<6' >.' 1>6 67'<; .% .67 5' ?'6' ?546'
; ,<- . , '05.' =4.' 7,47' J'1>.' <'7 ,<'5' ' 7' ; : .0' 54' 6.6'
'1 / .68' 'E <' =4 '4' ?1. / .1' 6 J<'58' '4' ?1. / .1' ,1>1.8'
5.6' ; 7,V.<6' ?= 66.<7' 6.' 71'<6?,17.1' , 5' <7>1>7' >.'
5" ; : ,6.' ?<05 =4.' 5.6' '??.55.' Z& <' '??5'4> 7%P
' N #.' > 1. ;7, 1.' "?1 6' 4<.' / .641.' 71 '
<; ,<67 747 ,<<.55.I ; '1' 6 ' ,<' ?.<7' >>6' 1 / .1' .<' 4<'
Q ,41'7,47.' 4<.' - 55.' ?,41' ?,17.1' 5.6' '1 / .6' '5" / 4< '
; ?'5 7.8' >. / ' <' ,<' ?,411' " .<' E' 1.' '47' <7' >'<6'
7,47.6' 5.6' / << ; ?'5 7.68' .7' ?'1' ; .' / ,V.<' .<' 4<' ;5 <'
> , ; 5' ,<' 6.' 1.<>1' 7' / '571.' >.' 5" 5 0.17>' >.' 7,47' 5.

C

% 6E.'= ,E6' 7 5 >'Z 55 6'J 7>.' .@ ;47 ,<
>.' 7 6 >6% E06 5, 6 ?,17.<7 =4.' 7,<6 5.6 ; 7,V.<6
,47 5.' >1, 7> 71.' '1 / .6I ?'1 ; ,<6. =4.<7 .55.6>. '
E.<>.<7>.'>.6'1 / .1 5.6 >7,V. 68 " / , 6 =4 5 < V
' 5 >.6 ;'6 J1'-.68 .7 '5,16 4< >.?'17. / .<7 <.' 5.'
?.<7 E' 1.' 6,<6 '47,1 6'7 ,< >4 1, % .'>. / '<>.' 5.'
1.<-, ' ' 5 ?,4-, 1 .@.;47 E%
"?1,?,6 7 ,< >.' % '<>1X .67 '>,?7..%
+' 41 5.'1'??,17 >.' % #4178 '4 <, /'>4 ; , / 5.'
>.' / '1 <.8 / ' 6 ; ,<71'> ;7, 1. / .<7 '4@ ; ,<;546 ,<6
>4 1'??,17.418 66. / 05..' >.; >.' =4 5 < V "?'6
5 .4 ' >.5 0.1.1 641 5" 1.;5' / '7 ,< 8 E' 7.' ?'1
/ .' '0 55V8> <.'6, / / .>.' 8 '5 -1.68 / ,<7'<7
> 4<.'6' 6 .' E' 7.'?'1 4< ; ,<645 >.'E1'<; .%
+' 41 5.'1'??,17>.' % #' / 468 66. / 05>.' ; ,< '
E 1 / .'4<'7'05.'4'>.'?.<6 ,<6 1.;1>>.68 ?'1 5.' 5 =4 '
>'7.41 J.<.1'58 ?,41 5" 6, / / .'>.' (8 (' 5 -%
' . 0 ' '<6 5.' / , / .<7 ,4
'77.<7 ,< >.' 66. / 05..' .67 E @..' 641 5.6 1.; , / M
?.<6.6 <'7 ,<'5.68 Q.'5" ?1 .>.' / .'?#1 / .771.'>.'E' 1.'
<.'=4.67 ,<'Z % 5.'1'??,17.41I .55.'"?,41 0Q.7>.'
6'V, 1 6' 5.' ; , / 7.' >.6 ?.<6 ,<6 6 .67 , ; ;4?>'>.'5"
64 7. ">,<<.1 '4'>.;1.7 1.<>4 5.' 'Q'<- .1'>.1< .1
1.5'7 - . / .<7 '4@ .<.,41'J. / .<76 ">,<<.1 '4@'1 '
7 67.6%
66. / 05>.' '7 ,<'5.']' 7 ; , / 0 .< 5.6 64; ; 6>.6
0.'4@ '176 6,<7 5 >6 " 5" ?1,6?>1 7>'<'7 ,<'5.' I 6M
6. / 05..'<'7 ,<'5.' 6' 5 =4.8 >'<6 ; .' / , / .<7>.'1>'
-,547 ,<8 5.6 1'.; ,<7.<76 ; : .1; : .<7 " ?1,-,=4.1
. / J1'7 ,<8 ; : .1; : .<7 " '77 1.1 >'<6 5.41 ?'17 .'5.6
J.<6;.5.01.6 ?'17,47.6 6,17.6 >.'7'5.<76I 66. / '
05. .'6' 5 =4.'5.6 ?4 66'<; .6 >71'<J.1.6E,<77,46 5.416
.EE,176 ?,41 '77 1.1 ; : .0 .55.6 5.6 '17 67.6 =4 ',<7>.'5"
; .5. 01 7>% 55 E'47 ; ,<-.< 1 =4.8 =4, =4.' ?1.6=4.'
7,46 5.6 '17 67.6 E1'<;' 6 6, .<7 J.<.1'5. / .<771>6
'71 ,7.68 5 .67 ; .?.<>'47>.'5"?14>.<; .%>.' 66. / '
5..'<'7 ,<'5.'>.' ?1.<>1.' .< ; ,<6 >>1'7 ,< , .6 .EM
E,176% .' ?1 .'>,<.' % 5.'1'??,17.41 >.'-,45, 1 0 .<
; , / / 4< =4.1 " 66. / 05>.'=4.55.6?.4-.<7>71.'5.6
-4.6 >4 ; , / 7.' " ; .7>J'1>%& < '??5'4> 7%P
% ' .';? / 7.' >.6 ?.<6 ,<6 6 .67 0.'4; ,4?
, ; ;4?.'>.' ; .7 ,0Q.7I / ' 6 5 " .7>E,1.>'>.'646?.<>1.'
6,< 71'-' 58 ?'1; .VQ4 ,< " .<-,->'4 ; , / 5.'>.' ; ,<M
67 747 ,< ?,41 >.; >.1 5.6 1>; , / ?.<6.6 ">,<<.1 '4@
'17 67.6% '<6 >,47.' 7 .67 .66.<7 .5 =4.'1 66. / 05>.'
.4 55.' 0 .< ?1.<>1.' .< ; ,<6 >>1'7 ,< 5.6 : , / / .6
; .5.01.6 =4 ' 6.' 6,<7>.-=4.6 Q46=4 "?1.6.<7 " >'
74>.%>.6 '176I / ' 6 ; .'=4 5 V " > . / 0'11'66'<78 . .67
5" / '< .1.'>.'> 671 04.1 5.6 ,4-1'J.6 > '178 ,<<.1
; .' ; : , @ " 66. / 05>.8 #.5"< .67 ?' '?1,?,6'05.I 5.'
>,<<.1 '4@?.16,<<.6 =4 '6,<7>.6 ; '>. / .68 5 6. / '
05.1' 7 =4.'; .'6.1' 7 .@;541.' 7,46 5.6 '17 67.6 ; >5>01.6
=4 '<.'6,<7?'6>.' ;'>> / .% ' / .'6. / 05.'=4.'-,46
< '-.0 ?'6 > '471.' / ,V.< .< ; .' / , / .<7 =4.'> '>'
Q, <>1.' '4@ / . / 01.6 >.' ; '>. / .'>.' . <741.' .7
>.' ;45?741.'>.4@ / . / 01.6 >.' ; '>. / .'>.6 K.5G
5.6 .771.6 .7 >.' ; '>. / .'>.6 ; .<; .6I 56?,41 '
1' .<7 >,<<.1 >.6 >..6 71.6 0,<<.6 ?,41 ?1,?,6.1
>.6 64Q.76> : 65, 1.' / ?,17'<76 .7?,41 E'-,1 6.1 5.6
'17 67.6 =4 ' / .1 7.<7 1>;55. / .<7>.' 71.'
34'<7 " 5" 6, / / .'=4 ,< ?,411' 7 5.41 >,<<.1%8
7,46 '-.0 >>;1>7.'>.1< .1. / .<78 641 5" / ,7 ,<>.'
% K,4E5.168 =4 5 6.1' 7>,<<.8 ?,41 5.6 '176 / .; ' '
< =4.68 8 '5 -%I =4.' #.77.'6, / / .' 6.1' 7 ?1 6.'
41 5.'E,<>6 >.'C / 55 ,<6 ' ; ; ,1>>6 '4@J1'7 .; '7 ,<6G
' .67 <?,17.<7 =4.'-,46 6' ; : .0 =4.8 5,16=4.'-,46
,1>,<<.1.0 . / ?5,' >.' ; .77.'6, / / .8 -,46 < '<J '
< .<7.1.0 .< 1 .< -,71.' >. ?.<6.8 ?4 6=4.% ; .77.'
, / / .' .67 ; , / ?7..'>'<6 5.6) ' / 55 ,<6 =4 'E,<7 Y
>. ?.<6.' ,1> <' 1.' '<<4.55.% 5<6' 5 ?'1' 71' 7 1' '
6,<<'05.'>.'>.;1.7.1 =4.8 641 5.'E,<>6 5 .'C / 55 ,<68
5 6.1"?1 6 4<.'6, / / .'>.' 8 '5 -%?,41 ; .77.''<'
<..8 5'=4.55.8 ?1,- 6, 1. / .<7 .76'<67 1.1" .,<6. '
=4;4; .8 6.1"1>1'17 . .<71.'5.6 6;45?7.416 .7 5.6 ?. <

71.6 =4 ' 6.1,<7>.6 J<.6 ?,41 E' 1.'5.6 ,4-1'J.6 = .'
5.41 <> =4.1>' ; '>. / .'>.' . <741.' .7 >.' ;45?M
741.'>.5 0.1'<7 7,47.<7 .1.8 " .55.'Q, <76 >.4@ / . / '
01.68>.' ; '>> / .'>.6 ; .<; .6 .7>.4@ / . / 01.6 >.'
; '>. / .'>.6 K.55.6 .771.6% , 5" ; .'=4.'Q.'?1, '
?,6.1' 6%
% . 0 ' +'Z ' 1 66. / 05>.' 5.'
?.1 / .78 Q.' -' 6 54 ' 6,4 <.771.'<7 ' ?E,Q.7 >.' >>;1.7
; ,<; .17.' '-..' %' . ->=4.'> 474<8 1'??,17.41 >.'
<6714;7 ,< ?405 = 7.% #.'?1,Q.7 6.'5 .''-..'5.6 ?1 '
; ?.6 .7 5.6 N.55." ,<6 =4 ' ,47 .7.' .<,4; .6 ?'1
% #' / 46%
W 17% 5.1% 5 6.1" ' ; ; ,1>>' '<<<.55. / .<78 ?,41 5.'
,47 .< >.6 '176 >.'?. <741.8 6;45?741.' .7 J1'-41.8
4<.'6, / / .'?,41 >.6 71'-'4@> .<; ,41'J. / .<7I .55.'
.675 @..?1,- 6, 1. / .<7?,41..77E.''<<..'' 8 %
>,<5 (8 ' 5 -% 6.'1.?'17 1,<7 .< 1.' 5.6 ?. <71.6
> : 67, 1..7 5.667'74' 1.6I 5.6 '471.6) 8 '5 -%6. '
1,<5 1. ?'17 .6 .<71.'5.6 ?. <71.6 > 76 >.'J.<1.' .7 5.6
J1'-.41 8 7'<7 .< 7' 55. 4,4; .'=4 .< ? .11.'E <.' .7. 5
/ .>' 55.6% 41 5'> 7.'6, / / .' ' .' 8 '5 -%8 5 6.1"
?1 6 ; .55.'>.' ,8 ' 5 1% ?,41 E' 1.' 71'-' 57.18 >.6
; .77.' '<<>.8 " 5" ; ,<7 <4'7 ,< >.'5" ; ,55.;7 ,< >.6
?,176 >.'H1'<; .8 >.' ,6.?:' .1<.78 ?'1 '17 65.'=4.'
Q.'?,4-, 1 .@>.47 E ">.Q">>6 J<.'?,41 ; .'71'-' 5%
W % #.6 71'-'4@ 6.1,<7> 671 04.6 .16 5.' / 5. '
>4 7. / ?6 >.' .@?,6 7 ,< ?405 =7 .8 .76.45. / .<7 '4@
'17 67.6 =4 '6.'6.1,<7 E' 7 ; ,<<' 71.'>'<6 .@?,6 7 ,<
>.'5" ?1.6.<7.' '<<..%
W ,41 ; .77.' '<<>.'6.45. / .<58 6'<6 ?1>Q4J.1
; .'=4 ' 6.1" >.7.1 / <.>' '-.< 18 5.671'-' @; >.6 '
646,1>,<<.6 6.1,<7 > 671 0 >6 ?'1 5.6 / . / 01.6>.'
; '>. / .'>.' . <741.' .7 ;45?741.8 >.4@ / . / 01.6
>.% ; '>. / .'>.6 ; .<; .68 >.4@ / . / 01.6>.' ; 'M
>. / .'>.6 K.55.6 .771.68 .7- <J7 '17 67.6 <,< '; '>>G
/ ; .<68 5.6=4.56 6.1,<7 ; : , 6 6 ?'1 5.6 '17 67.6 =4 '
,<7 .@?,6>'5.416 ,4-1'J.6 '4'6'5,< >4 ,4 1.%
$ % ,41 E' 1.' ; .66.1 7,47.'> 67 <;7 ,< .<71.'5.6
/ . / 01.68>.' ; '>. / .'>.' . <741.' .< ; .77.' ; 1; ,< '
67'<; .8 5.6 'J1.J. 6 " 5'> 7.' ; '>. / .'6.1,<7 '??.5.6
" ; .'Q4J. / .<7%G
#.'?1,Q.7>.'>. .1.7 .67 '>,?7>%
+' 41 5.'1'??,17 >.' % #' / 468 5.'>>;1.7 64 -'07
.67 1.<>4I
$ 66. / 05>.' <'7 ,<'5.8 '?1.6 '-, 1 .<7.<>4 5.'
1'??,17>.'6,< ; , / 7.' ; .<71'5 >.'5 =4 >'7 ,< 641 5"
>. / '<>.'E' 7.'?'1 % B'55.1 .7 .; ,45.45@ >.' "
,11' .8 " 5 < >.'?'V. / .<7>.'5" , / / .'>.U / 5M
5 ,<6 (8)'5 -%)'6,46 '>. %8>,<7 566, / 7>.;5'M
1.6 .1.'<; .E6 ?'1 '11 7 >4 ; ,<6. 5 >4 * <,-. / '
01.'7(* 8 >.;1.7.'=< .@?.>7 ,<>.' '71 7>4 C '', 7
()(8 ?1,>4 7 ?'1 % B'55.1.7>.' " ,11' .8>.'5"
>. ; 6 ,<>4 ; ,<6. 5 >4 C)' '-1 5 () 8 >.6 '471.6 '1 '
1 76 <5.1-.<46 >'<6 / / .''EE' 1.8 .1,<7 1. / 6.6
' 'J.<7>4 71 6,1 ?405 ;8 ?,41 6.' ?,<1-, 1 ?'1 5.6
-, .6>;'>1, 7; ,<71.'5.6> 76 '11 76 >'<6 5.'?546 ; ,417
>.5' '?,66 05.I 54 ' .<Q, <5 >.' 1.<>1.' ;%, / ?7.'>'<6
=4 <0' <.8 " 66. / 0 .'<'7 ,<'5.8 >.6 >. / '1; : .6
=4 5 '41"E' 7.6 ?,41 .@ ;47 ,<>4 ?1.6.<7>. .1.7%G
% +'W 66. / 05..' <'7 ,<'5.'>.;1.7.'=4.'5.6 ,EE '
; .168 .@. / ?768 E,411 .16 .7 J'1>.6>.'5" ; >.-'<7
., / PE'J< .'>.6 #.47 4 66.6 6.1,<7 1. / 0,416. 6 >.'
5" E <'<; .'>.' 5.416 ; :'1J.6 641 5.'? .>?,17# ?1 5"
>.; 6 ,<>4 1, ' ,4 6 " 8>4 <- .1 (9 I " .E'
E.7>.'=4, ' 5" >.; 6 ,< 6.1"1. / 6.' .<71.'5.6 / ' <6
>4 > 1.;7.41 J.<.1'5 >.' 5" 5 =4 >'7 ,<8 '4=4.5 5.6
,EE ; .168 .@. / ?76 .7 J'1>.6>.'5'> 7.' ., / ?'J< .'1. '
/ .571,<7 .<6 / 7.' 5.416 / / , 1.68 ? ..6 .7 5 71.68
?,41 71.'5 =4 >.6 #<; ,<E,1 / 5.'>.6> ;1.7 >.' 6 '
6. / 05 .'<'7 ,<'5.%G
G 'W 66. / 05 .'<'7 ,<'5.'> ;1E.7.'= .'5.' / < 671.'
>.'5"J4.11.''>1.66.1">'<6 5" :4 7' <.'" ' 6%6. / 05..'
.7'7>.6 / '1 ; :'4@>.'H1'<; .' .<';7 - 7 8 'E <=<.8
; ,<501 / . / .<7 " 6.6 >. .1.768 .55.' ?4 66.'67'74.1 641

5" .7E' 7 ' >.'=.4@'=4 8' >7'<5'?7E";, '.1->6' .:' '; '
6.1' .<7'>'<6'5.';'6'> ,07.< 1' ('7.71' 7.%$
"6>'<;.'.67'5.->.'>'<.4E':.41.6

!K # : KK)' 7 KK:%

<'>.' % 5.6'6.;1.7' 1. ' E' 7'5.;741.' U 44.'?.7 M
7 ,<'?'1'5'=4.55.' % ': 7.<68' :4 66 .18'6.'?5' <7'>.'
6">.7.<7 ,<'?1,5,<J>.' <,<,067'<7'7.'>>;1.7' < ?E, '
0'7 E'7.4>4' 641'5" ;,:>77 7=%>.' '66. / 0 ..'>5.;7, '
7'5.%

% ' □ >' ' 66.1'05>E5' B>' ,% % ' <7.1-.< 1'
>'<6';.77.' 'EE' 1.'?41. / .<7'Q<> ; ' 1.'6'<'> < < .1'
5.'?, >6'>.'5"1.6?,<6'0 5 7>'>.';.4 7'=4'6.'6,<7?.1 %
1 556';;7' '77.<7'7'#,:71.'5" 5 0.17>% .'>. / '<>.'>, #
= .' ,7'?'66.' " ,1>1.' '5,41%
66. / 05.;'?'66.' ' ,1>1.'> 5'0,4E% $
41'5.'1'??,17'>.' % E '0'4>8'5.'>>;1.7'64 -'<7'
.67'1.<>4%
W 17%5W1% .' : < 671.'>.'5" J4.11.'.67' '47 1 6>'"
,1>,7 <.1 ' 7,<6'5.6,E55; .16%6,46 ,EE5; .16.7';'-'M
5 .16'>.'5" .5 >.-'<7' <'E>;:',66>.8'=4'>, -.<7' ! '
. / ?5,V.6' '5.'? .>'>.'J.<>'1 / .1 .8'>W 6.'1.<>1.'
>'<6'5.6' >#?'17.<'.<76' .7'1>6 >.<;. ' =4 5'5.41' '665'
J<.1'% .6' ,7E ; .16' 7:> 6 6' ?'1'5. ' > 1.;7, 1.6'>.'
>.?'17. / .<7' ,;;4?.1,<78' >'<6' 7.4@' , ' 556' ,<7' .7>'
7 : / . 0' 5.6' 1.6 >.<;.6' >'<6' .6=4.55.6' 56' 6.1,<7'
?5';.6' 64 -'<7' 5.416' J1'>.6' ?'1' 5.' : < 671.'>.'5'

I' % . / ?5'#.: .<7'>.6'01 J'>.6'>.'5" > >.-'<7'
/ '1.;:'466.;'6406 7.1">'<6'1>7'7' 5'.55.6'6,<7' ';'
7'<.55. / .<70,46=4 ' ..'=4.'5.6'> 6?,6 7 ,<6' : -'<7.

$ % .6'> 1.;7, 1.6' .<-.E11, / 7' '4' / < 671.'>.'5"
J4.11.'7 / ' .7'7'>.6' 01 J'>.6' = ' . 67.<7' ';74.55.'
/ .<7'>'<6' 7.1 1'>.?'17. / .4E'R'5.=4.5' .1" .@.;47.'
?1,- 6, 1. / .<7' .7' / ' <7.<4%
$' % 76'.<-.11,<7' .<64 7.' ':' % 'W1':J / .<5'E ,<'
>.6' 01 J'>.6' => 56' 4J.1,<7' 5.41.71.' 7E.;.66' 1.68'
' <6'=4.>.'5.416' ?5';. / .<768' .7'>.6';:'<J. :.<76'
=, 556' .67 / .1,<7';,<-.:'05.6I' E5' 6' 5'<.'6.1" E' 7'
>1, '641' '4;<<.6'>.';.6'>. / ':>.6' =4 '>'?1.' '05.'
'177;5.'?1.;.>.<7'= ' 7'.7.'.@.;47.%
$' % ,41'E';5 7.1';.77.' ,?.1'7 ,<8' 5'6.7"5 ,V.'
?'7'5.' : < 671.'>.'5"J4.11.8' ";0'=4.> 1.;7, 1;8'=.6'
7'05.'4@' " 1.7:?5 18'=4'?1.6. 7.1,1 7'5.6' <> ;'7 ,<6'
1.5'7 -.6' '4@';,11.6?,<>'<;.6 <7.1 ;41.6'.7' ' @';,1'
.6?,<>'<;.6'.@E.1 .4E.6%
G % '47.' ?' '5.6'> 1.;7, 1.6'> ;@.;47.E'#.=4'
- . 7'> .71.'?1.6.<7'>'<6'5.'>.5"'>.'71, 6'6. / '<.6' "
>'7.1'>,' ,,1'>.' >'1.;.?7 ,<'>4'>..E.7';,1 65'7.'?'1'
5"5.771.'' .<->>4' / < 671.8'5.' / 17 6E1.>.'5"J4.11.'
.1" '47,1 6#' '?1.6.<7.1'4<'.7'7'><' :, / 01.'>.6'01 M
J'>.6'>'<6'5.6'>#?'17. / .<76'>,<7'5.6'> 1.;7, 1.6'<.'
6.' #1, 7'?'6';,< ,1 / .6' '4'?1.6.<7'>#;1.E8' 'E5 '=4.'
>. ' '4J / .<7'7 ,<6' .7'>.6' ?5';. / .<76' =4 5' Q4J.1"
?546';,<-.:'05.6' '<'0 .<'>'"6.1- ;.8'>'? .6' '-56'
>.6' ;,5,<.56I' 5.' / < 671.'>#' 5" J4.11.%.<' 1.4> "
;, / ?7.' .<64 7.' '<';,1?6' >J 65'7 E8'?,41'=4 7' !' ,7'
>.E7< 7 -. / .<7'67'7<>%
% 0 <6>I' 66.5605..'>, 7'>71.' :67 ,7;S'>;6'
5.7 7. 16'=4 >?1,4-.5"?.1;.?7 ,<'>. '#,<71 047 ,<6'
?407 =4.6% ,16=4.'5.' / < 671.' ;157' '<"' ;E.<'1>'
E5 .<768' 5'< .<'1.=, 7'?'6' / > B.' >.'1>?,<6.% .'>. '
E7 '<>.'=4.'5.' / < 671.' >.6' ;,<71 047 ,<6' ?405 =4.6'
6,E7' ;:'1J.'>.'>,:51.E' <;.66': / .<7' #7'7'>.6'>. '
?'17; / . ' .<'1.7'1>8
% ,Y f6 &77,K' ! ' ('>. 'E <'<;.68' EE'J17 '
.457'1..7'>.' .,177< .E;.8' . / 7 .@' / <.' '-.;'5" ?546'
6.1 .46.''77.<7 ,<'5.' / # / , 1.'=4 ' - 4 '"#/#?1#6.<E#
?'1' % 5.' / < 671.'>.' <7#1 .41'641'5.6'6406 67'<;.6 8'
.E'5.6'?.7 7 ,<6'>.'> -.16'#?'17. / .<768'=4.'-,4J'5.41'
>-.@'E' 7' :,<<.7E1'>.'5.41'1.<-,V.1I'>.';.7' #@' / .:'
;7'>.6' 1.<6. J:. / .<76' =4' 56' .'6,177' ?1, ; ,1 '15'1>'
6457.'=4.5.1,V'4 / .'7.,E.<'.87'7 7'.<'- .4@'J1' <6

= .' ,4-.'4@8' ?546'=4 5% 2 '*% '(! '$%' ! ,! #'
'7 <'> 4<.' '<<..I' =4.'5" ;1' <7;'>.' <'<=4.1'& '
6406 67'<;.6'>'<6' =4.5=4.6'>.?'17. / .<76'.<' " E' 7'
?.'4;,4?' .@'J#1.#' 5.6'0.6, <6% ! ,' ;, / 7#6'T ! #'
' :.468' ' <6'=.' % 7.' / < 671.' ,46% " > 70' =4.'$ '
:. .7 1 :=V.<'>.'?,41-, 1' '4@'0.6= <6'>.6'>.?'1 '
7. / . 76' =4 ' ,47' .4' >.6'1.;, 7#6' / , <6' '0,<' '<7.6'
;,<6 67.'>'<6' 5" 5 01.' .7' ?' 6 05.';1.45'7 ,<'>4' 64 '
?.1E54' =4 '6.'71, -.'>'<6'?546 .416'?'17 .6'>4'1,V'' '
/ .8' 6?1=?,6. 7'5.'?1,0.7'>.'>#;1.5'64 -'<7N
W 66. / 05. .'<'7 ,<'5.8';,<6 >.1'<7'=4.0' / '5J1>'
5.67:.641.6'= ,<7'>7.' ?1 6.6'?,41' / ' <7. / E'5" ; 1M
;45'7 ,<'>.6'J1' <6.7' '6641.1 5"6406 67'<;.' '7,47.6'
5.6' ?'17 .6'>.'1.< ? 1.8' 6.6' -<.6' ?,411' .<7'>71.'
71,:5?>.6'?'1'5.6' '17 E ;.6'>.6'.<<. / 6'>.'5" .,<67 74 '
7 ,E' .7'?'1' 5.6' ;1' 47.6'.@'J.1>.6'>4' ?.4?5.8'=4, '
= ' 6, 7 1.;,<<4'=4 '5.'1,V 54 / .'1.<E.1 / .'?546'>,'
6406 67'<;.6' =4 5' < .<'5'47'?,41'5" .,46, / / '7 ,<'
> <.' ':<. .I' 8'
$' ! ,:6 >>1':7'=4.'5.'-1' '<',V.B'>.'?,17.1' '0,<
>'E #.'>'<6'7,47'5.'1,V'41<.' .67'>.'1'6641.1'5.6' .,1<'
/ .E ':76' .:'5.41'?1,;41'<7' ?1,7.;7 ,<' .7' J'1'<7 .'
>'<6'5.416'6?.;45'7 ,<6I' 8 8'
84 ! * !) !'+#!(#'$!')! ! ' ! '
+# ! # ! ' ' ' # ' !) # ' C !-% ' '
+#! +?! ' ! !&!? ' # ! ' % ' :! ('
) %! ' !'$! ' ! ' !' ! '# !)! 4' &&!1'
' #'& !(# ' ' ! : !A' ! '
4 1 !
I'1 ' !C$'B#!' !' ' ! ' !' !' ! ' !<'
! ' ! ' # ') # '$!' # # % !' ! ' * '
% ' ' =#!#' ! ' ' # !' ! !'+#' , '
! (# '+#! +#!' ! ! '+#!' !' # !'4 ('
' ' : !'4)# ' ! #:)! ' ' ' Q
W % .6' ?1,?1 .7' 1.68'E.1 / .16g' .457 -'7.41 8'
#, / / .13'<768' .7' '471.6' ?.16,<<.6' E' 6'<7' 171.45.1'
>.6'J1' <6' .<'1. / ?5 66'<7'5.6';,<> 7 ,<6' ." J..6'?'1'
5" , 8'=4 ' >?1,4-.1,<7'>.6' - ,5.<;.6' ,4' 5.' ? 7 'J.'
>.'5.416'J1' <68'6.1,<7' <>. / < 6.6?'1'5"<'7 ,<I'=4 '
1.?1.<>1"5" -'E;41'>.' <>. / < 7.' .<' 1'?,6'47'641'
5.'>.?'17. / .<7'>'<6'5.=4.5'5.'>.6,1>1.' ' 71"#7.';, / '
/ 6I'7.'>.?'17. / .<7'E.1"?,17.1' ..77.' ;:'1J.'641'5.'
> 671 ;7I'5.'> 671 ;7'641' 5.6'#, / / 4<.6'>'<6' 5.'7.11 '
7, 1.'>.6=4.55.6'5.' >#' 7' '41" .7.';, / / 6E' .E]41';.5'
5.6'=4 8' 'V'<7'.7.'1.=4 6.6'>.'?1>7.1' >4'6.;,416'_6 V'
6.1' .<7'1.E46. .6 6'<E".55.6' " .@.1..1'5.411.;,: 6'
6, >' 1.';.<71.'7.6' '47.416'>.6'>.6,1>1. E
' 5E% '6.1"1. / 6'0" > 6?,6 7 ,<'>4' / < 671.'>.'
1 :7.1 .41'046=4 ' ;,<;411.<;.'> 4<.'6, / / .%>;' C'
/ 55 ,<6'6.45. / .<78'?,41' 71.' . / ?5,V..8'6,46' '4 '
7,1 7.'>4'1, ' .7'641'E"1. ?,<6'0 5 7.'>4' /]71.8' "
E,41< 1'?1. / .1.1,.<7' '4@'0.6, <6' / ?1.- 6'>.6>#'
?'1E. / .<768'=4'6.1,<7'7.<46'> .<'E' 1.' 5.1.: 0,4H '
6. / .<7'>'<6'>.4@' '< 8' '-.;'5.6' <7#1.7 " '?,41')'
>.6' "-'<;.6'=4'5.41'6.1,<7'E' 7.6' '5 71.'>.'?1#4
W "71.6,1.1 .'<'7 ,<'5.'E.1" H'-'<;.'>.6' E,<>6'
.<'?1,?,17 ,<'>.6'0.6, <6'1.;,<<46'?'1' # / < 671.8'
=4'6.1"7.<4'>.'046 7 E .1>.' . / ?5, ' "5" ?1, .:'7<.'
5.J 65'741.8'7,47.6'5.6' 0 6'=4 . 5.' ." J.1'% E'7.1', .'
7,01.' (>C8 . / ?5, '>. 7' 55. >.6> 76'E,<>6'6.1"1.<>4'
?405 ;'?'1'E"-, .' V' 1 / ?1.66 ,<8' .7' .<-,EV>' '<@'
=4'E1. - <J7 71, #'>.?'17. / .<76% ";' 6 .' . 5 .@ '
71',1> <' 1.'1.67 74.1" 64;;.66 -.1'.<7' '5"71>6,1. '
1 .' '7 ,<'5.'E.66 / / .6'=4 . 5.''41''-'' ,>.6?,47'
;.7' ,0Q.E%$
.6'>.4@'?1. / .16' '17 ;5.6'> ' . '?E=Q#7' >#07' >> '
;1>7>6% ' S
<.' >J 1.'> 6;466 ,<'6 >5 -.'6777' '17% '%%%#' T$ 41'
E">. / '<>.'>.' ' '<>1>8';.7' '17 ;5.' .67' '0#KE7E>' '
0.4> %% % % ' I' % $ q
+' % #<'?.E .1'6,< / .7' "5''>>5 0>1'7 <'5"64 7.'
>.'6,<'?1 .5'>.'>.;1.5'1.5'7 E' " 5"<,77-.55.' <67 74M
7 ,<'>.6'<, ' 1.6% .6' '17 ;5.6'64 -'<76'6.<7'>>.1> 6%
X '3 '& ! ' '&% ,' % '$ '%4% $'&&'% #
*

; , 1>.' ' 4@' 1. ; 5. <168' ; 41>68' , <' '' 7 , <7. # 471. 6' ?. 16 , <'
< . 68' >.' 1. ; . - , 1' >. 6' 7. 67' / . <76' , <' ' <71. 6' ' ; 7. 68' .
'O , 5 %

' W %' . 6' E , 7' 1. 6' ?005 Y' < .' ? , 411 , <7' <6714 / . <G
7. 1' 6' <6' ; , << ' S71.' S.' < /8' >7' 7' . 7' 5'' >. / ; 41. >. 6'
? ' 17 . 68' , <' 6' <6' =4 6' . <1' 6 , . <7' ' 77. 67> 6' > ' <6' ' ; 7.'
? ' 1' >. 4@ ; 7 , V. <6' V' <7' 6' / > / . 6' =4' 5 7#6=4. ; . 55. 6'
1. =4 6. 6? , 41>71.' 7. / , ,' <6714 / . <7' 1. %

$' %' ' / , 6> . K ?> ; 0. < . <7 J 7 EE . 82. 6< , 7' 1. 6'
?405 ; 68' 6. 1 , <7' 7. <46' >.' ?1>7 ; ' 5. 41' / < 67>1.' 5 , 16G'
=4 56' . <' 6. 1 , <7' 1. =4 6%' 56' E. 1 , <7' ' <' 641?7 6' , 06. 1'
- . 18' > ' <6' 5. 6' ; , < - . <7 , <68' ' 5 ,]' =7 ' / 7>1. 66. <7'
, 1>1E.' ?405 ; G' . 7' 7' <%7' ' ; . 7' >J' 1>' =4 , <' ; .' =4' ; , <'
; . / .' 5'' ; , <6. 1- ' 7 , <' >#6' / <47. 68' . 7' J> <>1' / . <5'
. @. 1. ; . >.' . 416E0< ; 7 , <68 56' 6.' ; , < , 1 / . 1 , <7' ' 4@'
' < ; . << . 6 , 1> , << ' < ; . 6' . 7' 1 J / . <76' # , < ; . 1< ' <7' 5. 6'
< , 7' 1. 6' 1 , V' 4@8' Q46=< ' . .' [B5' ' 7' >7>' ' 7771. / . <7'
67' 74>' ? ' 1' 5.' ? , 4 - , 1' #' 65' 7 1%

Y B%' .' < , / 01.' . 75.' ?5' ; . / . <7' >>' ; ; 6' , EE ; . 16'
6. 1 , <7' >. 7. 1 / < . 68' ? , , 1' . 0' =77.' >. ? ' 17. / . <78' ? ' 1' 5.'
; , 1?6' 5. J 65' 7 E%> ' ?1 6' 5. 6' <6714 ; 7 , <6' =' ' <' 6. W
1 , <7' ' >1. 66>. 6' ? ' 1' 5. 6' > 1. ; 7 , 1. 6' > . 6> 76' > . ? ' 17. G'
< . <76%

$' %' , <1' 5. 6' - 55. 6' 5'' ? , ?45' 7 , <8' . 7' ? , <1' 5. 6'
; ' / ? ' < . 6' 1. , J< . / . 4 7' > . 6' 55. 6' . 7' . 7. <> ' .' >4'
7. 11 7 , Q1. 8' ; , / 0 < . 6' ' - . .' 5'' ? , ?45' 7 , <8' 6. 1 , <7' 5.]'
?1 < ; ?' 5. 6' 0' 6. 6' >.' . 7' 05 66. / . <7' >.' ; . 6' , EE ; . 68'
6' <6=4 5' ?4 66.' >71.' >7' 05' ?546' > << ' < , 7' 1.' ?405 ;
A 1' >. 4@' ; ' <7 , <6' > 67' <76' > 4< .' - 55.' >.' ?7<6>.' 71 , 6'
4. 6%' $

W "%' . 6' < , 7' 1. 6' ?405 ; 6' . 1 , <7' 7. <46' >.' 1>6 >. 1'
> ' <6' 5. 6' 5 . 4@' ? , 41' 6=4. 56 56' ' 41 <7' >7>' >7' 05 6%

$' "%' 6' < .' ? , 411 , <7' . @. 1 ; . 1' 416' E0 #7 , ' 6' : , 1]'
>. 6' 5 / 7. 6' >. 6' > . ? ' 17. / . <76' > ' <6' 5. 6=4. 56' 7 6' 6.'
71 , 4 - . 1 , <7' ?5' ; >6I' / ' 6' 7 , <6' ; . 4@' >4' / / .' >. < ' 1'
7. / . <7' . @. 1 ; . 1 , <7' ; , < ; 471. / / . <7' . <71.' . 4''' > ' <6'
7 , <7.' 6 , <' . 7. <>4. %

W " %' 56' ?1. <>1 , <7' . <' . , <6. =< . < ; .' 5'' =4' 5 7.' >.'
V ' * !' '>'
&' >. I%%

_' " %' . 6' ; 7. 6' >. 6' < , 7' 1. 6' ? ' 0E ; 6' 6. 1 , <cc' . @. ; 4'
7 , 1. 6' > ' <6' 7 , 47' 5.' 1 , V' < / . 8' < , < , 5Q67' 777' <6 ; 1 ?'
7 , <' >.' E' <@8' Q46=4 ' Q4J. / . <7' > E5< 7 E%

W " %' ,' ; . 7' . EE. 78' , 16' J1 , 66. 6' , <' . @? . > 7 , <6'
. @. ; 47 , 1. 6' 6. 1 , <7 <7 74 . 6> .' 5'' E , 1<E45.' 64 ' <7. N'
W %' & 5.' < , / ' >4' 1 , P8' ? ' 1' 5'' J1 ; .' >.' . 4' . E' 5''
W5 , ' ; , <67 747 , << ; 55.' >.' 7' 78' 1 , ' >. 6' H1' < ' 68' 6' '
$' 5 , 7%' ' - , 1' E' 6 , <6' =4.' ? ' 1 >. - ' <78' . 7 ; %8' $' . 7' > . 6'
6. 1 , <7' 7. 1 / < . . 68' / / . > ' 7. / . <7' - ' <7' 5'' > ' 7. 8' ? ' 1'
; . 77.' ' 471.' E , 1 / 45.' I' ' <> , <6' =4.' 5. 6' ?1. 6. <7. 6'
$' 6. 1 , <7' / 6. 6' '' . @. ; 47 , <' ? ' 1' =4' 5' ' ?? ' 17 . <>1' %' $'

$' " 5 1 7' <5' < / , <68' 5 , 16=4.' ; . 6' ' ; 7. 6' > . - 1 , Y7'
71.' / 6' ' . @. ; 47 , <' 0 , 16' >4' > . ? ' 17. / . <7' > ' <6' 5.'
=4. 5' 56' ' 41 , <7' . 7.' ? ' 66. 68' 5. 6' J1 , 66. 6' , <' . @? . > 7 , <6'
6. 1 , <7' . <' , 471.' 5. J' 6. . 6? ' 1' ' Q<J.' >4' 71 04< ' 5' > / '
/ ' 71 ; 45' 7 , <' >4' < , 7' 1.' ?405 ; ' =4' 5. 6' 41' >. - 1. ; 68'
6' <6' =4 5' 6 , 7' 0. 6 , <' > ' 4 ; 4<' ' 471.' 6. . 5' <' >.' - 6' %

$' " %' ' 6. 1'' >. ? , 6.' ' <' 71. 6 , 1' ?405 ; 8' ? ' 1' ; : ' =4.'
< , 7' 1.' ?405 ; 84<' E , <>6' >. 1. 6? , <6' 0 5 7. ; < >. < . 168'
' 7 71.' >.' J' 1' <7 .' >. 6' E' 76' >.' 6.]' E , < ; 7 , 46%

_' #.' E , <>6' < .' ?1 , >4 1'' ' 4 ; 4<' <7. 1>7' ' 4@' < , 7' M
1. 68' 5. 6=4. 56' < .' 6. 1 , <7' ? , <7' ' 66=Q. 77 6' ' ?1. <>1.' >. 6'
? ' 7. < 6%

_' .' - . 16. 1 , . <7' >4' E , <>6' >.' 1. 6? <6' 0 7.' 6.' E. 1''
. <71.' 5. 6' / ' <6' >. 6' 1. ; . - . 416' >.' > 671 ; 768' =4 ' . <' E. M
1 , <7' ' 466 7>7' 5'' 1. / 6. %

$' " %' ; .' E , <>6' >.' 1. 6? , <6' 0 7.' >. / . 41.' U 6' ''
?1. 6. <7' E @>8' 6' - , 1I

W , 41' 5. 6' < , 7' 1. 6' ?405 ; 6' >.' 5'' - 55.' >.' H' 1 68' ,'
/ [[[[' 5 - %I

$' , 41' ; . 4@' >. 6' - 55. 6> . V , <8' K , 1>. ' 4@8 ' <7. 68'
1 ' , 68' a , 4 . <' . 7' ' 16. 55. 8' '' 8 ' 5 - I

$' , 41 ; . 4@' >. 6- 5 6 ; : . ` 5 . 4@> .' >. ? ' 17. / . <768'
98 ' 5 - %I

$' , 41' ; . <@' > . 6' - 55. 6' ; : . E. 5 . <@' >.' > 671 ; 76' , 4'
6 . J. 6> ' 4%71 04< ' 5' Q' > ; ' 1. 8'' U8 ' 5 - %I
X' ! ' ! ,' $,' % ,' 4 $$, ' B! A , ' ! ' 4 $$%A ,
' □ ' 5 - %'

W " 55%' ' 6. 7'' >55 - 1>' '' ; : ' =4.' < , 7' 1.' << .' 1. '
; , << ' 66' < . .' >4' / , <7' <7' >.' 6 , <' >>? >78' . 78' 5 , 16' >. 6%'
& / 66 , <6 , 4' >. 6' >> ; 68' 5.' ; ' ? 7' 5' >.' ; . 6' 1. ; , << ' 6M
6' < ; . 6' 6. 1'' 1. / 0 , 4 6>' ' 4' < , 7' 1.' ?405 ; ' >. / 6' , 4' ''
: . 1 7 . 1' >4' >> . . >.' ? ' 1' 5.' 6=Q. 7' =4 ' ' 41'' >7.' < , / / .'
? , 41' 5.' 1. / ?5' ; . 18' . E' 467 7 ' <7' =4 5' < . @ 67.' ? ' 6'
> . / ? > . : . / . <76' . <71.' 5. 6' / ' <6' >4' ; , <6. 1- ' 7 ; 41'
>. 6' , ?? , 6 7 , <6%

$' " - 575%' 7> ' <6 . ; ' 6 , %' ?156' 5'' >> / 66 , <' , 4'
5.' >> ; 6' > 4<' < , 7' 1.' ?405 ; 8' 5' < V' ' 4? ' 7' ? ' 6' 5 . 4' >.'
? , 41- , 1' ' 6 , <' 1 ; / ?5' ; . 1< . <78' 5.' 1. / 04 16. / . <7'
>4> 7' E , <>6' >.' 1. 6? , <6' 0 5 7' ' 547' 6. 1'' E' 78' , 4' '' 6. 6'
: >1 7 . 1 ' ? ' 1' 5.' 71>6 , 1' ?405 ; 8' > ' <6' ' << . .' >.' '' >>'
/ 66 , <' , 4' >4' >. . >6%

$' " "%' .' / , <7' <7> . 6> 76' E , <>6' >.' 1. 6? , <6' 0 7.'
6. 1'' / ? 7>' . <' >>>4 ; 7 , <' > . 6' 1. / 0 , 416. / . <56> , E'
E ; . 6' ' ; . 4@' >. 6' < , 7' 1. 6' 6<??1 / >6' ? ' 1' 5.' 7 71.'
=4' 6#1 , <7' >. - . <46' < , 7' 1. 6' ?405 ; 68' ' <6' =4 5' 6. 1''
7' ; > . 66 , ' %\
'' 6 ` 77 ; .' . 67' - >.' '' 71 , 6' : . 47. 6%
. ' ' , % =?' + -

%' B 6<0 7N' ' <6' 5.' >> ; 1. 7' 1. <>4' ' - ' <7 : . 1' A'
5' 7 . / . <7' ' 4' 6. 1 / . <7' / 5 7' 1. 8' 5. 6' , 7E ; . 16' 6. 1 , <7'
7. <46' >.' / ' , 7. < 1' '' ; , <67 747 , <8' . 7' 5. 6' 6 , 5> ' 76' >.'
5'' >>E. <>1.%' .' >. / ' <>?' =4.' 5'' >. 1< 1.' . @?1. 66 , <'
6 , 7' <6>1>.' > ' <6' 4< .' . 7' 7 ' 471.' E , 1 / 45. 6%

' - 2 2 &' N' , EE ; . 1' < . 67' ? ' 68' ; , / / .' 5.' 6 , 5> ' 78'
7 <' <6714 / . <7' ? ' 66 EI' 5' < . 67' ? ' 6' >. 67 < .' 6. 45. / . <7'
' ; , / 0' 771. 8' / ' 6' ' > 1 J. 1' ' ; 7 , <' >4' 6 , 5> ' 7' > ' 46' 5.'
; , / 0' 7%' ' Q41.' > , < .' >.' / ' <7. < 1' 5'' ; , <67 747 , <8'
? ' 1 ; .' =< ' V' '' =4. 5=4.' ; : , 6.' > <7. 55 J. <7' > ' <6' 6. 6'
E , < ; 7 , <5%

+ <' >.' 8' 5. 6' 6. ; 1. 7' 1. 6' E' 7' 5. ; 741.' > 4< .' 5. 7'
71#' ? ' 1' 5' =4. 55.' 5.' / < 671.' >. 5'' J4. 11.' , 06. 1- .' =4.'
5'' > 6 ; , 1> ' < ; .' >. 6' ' < ; . << . 6' , 1> , << ' < ; . 6' ' - . ;' . 6'
5 , 6' < , 4 - . 5 6' ?1 , - , =4.' <67' / / . <7' 4< .' 5 , ' 641' , 1'
J' < 6' 7 , <' >. 6' 041. ' 4@' >. 6' >. ? ' 17. / . <768' 641' 5.' ; , >.'
?#<' 5' / 5 7' 1. I' . 7' 641' 5. 6' 1. J . 6' > ' > / 66 , <' ' 4@' . / '
?5 , 6' >.' ' 1 / # . %

N' #< K 4 ' N' 5' ; 67' 4! ' =4.' 5. 6' 041. ' 4@' >.'
5'' J4. 11.' ; , <7 . << . <7' E1 , ?> .' J. <6' : ' 0 74. 6' ' 5'' 1 , 4M
7 < .' >.' ' < ; . 4' 1#J / .' ? , 41' < .' ? ' 6' ' - , 1' 0. 6 , <'
> 4< .' 1#E41 / . %' .' / < 671.' >.' 5'' J4. 11.' '' ! ' ? ' 17'
' 4' . , / 7.' / 5 7' 1.' =4 4< .' 1. 7. <4.' ' X[[[[' 5 - 1. 6'
641' 5. 6' 8 ' ' 55 , 4#. 6' ' 4@' > . ? . <6. 6' >.' ; . 6' 04M
1. ' 4@' 8' 1. 7. <4.' ; , <6. <7 .' ? ' 1' 5. 6' . / ?5 , V. 6' #4@'
1' 5 < . 68' E , 1< 1' 7' ' 4@' 1. 71' 7. 6' =4 . @ J. 1'' ; . 77.'
3 ' - . 55.' 1#E , 1 / . %' ' < .' >. / ' <> .' ? , 41' ; . 5'' =4.' ' 47 , '
1 6' 7 , <' >.' 1 66. / 05#. I' ? . 47 #71.' < . 67 . 55.' ? ' 6' <>'
; . 66' - . 8?4 6=4 5' < . 6 ' J 7' ? ' 6' > 4< .' >>? . <6. < , 4'
. 55. I' / ' 6' 7' 4 V' '' ? ' 6' > < ; , < - . < . <7' ' >> . 1. 7. 1'
=4.' ?1 , - 6 , 1. / . <7' ; . 6') 8 ' 5 - %' 6. 1 , <7' . / ?5 , V. . 6'
'' >. 6' ? . <6 , <6> .' 1. 71' 7. %

%' '' ?1 , ? , 6 7 , <' >.' %' # : ' 01 , 4>' . 67' ' > , ?7> . %
' N' , 46' < ' - ; 0' ? ' 6' . < ; , 1.' >>7. 1'
/ <>' 1>? , =4.' ' 5' =4. 55.' 5. 6' ; , <6. 56' >.' >>? ' 17.'
/ . <7' . 7' >.' > 671 ; 7' > , - . <7' 6 ' 66. / 05. 1' ; : ' =4.' ' <'
<> . I%' 5' > . - . <7' <67' <7' >.' ?1 , < , < ; . 1' ' ; . 7' ' 1>%'
, 71.' ; , / 7.' - , 6' ?1 , ? , 6.' 1>? , =4.' >4' C' , ; 7 , 01.'
? , 41' 5. 6' . , 776. 56' >.' > 671 ; 78' . 7' >4' □' < , - . / 01.' ? , 41'
; . <7' >.' >>? ' 17. / . <7I' 5' ? . <6.' =4.' ; .' 6. <7' 5. 6' >? , '
=4. 6' =4 ' >>1' 4J. 1 , <7' 5.' / , <6' 5. 6' ' > / < 671' 7. 416'
>. 6' 71' - ' 4 ' >.' 5'' ; ' / ? ' J< . 8' . 5' =< . 55. 6' 6. 1 , <7' 6'
?546?1 , ?1. 6' ' 4@' , ?>1' 5 , <61. 5' 7 1. 6' ' 5'' 1. ? ' 17 7 , <'
>. 6' ; , <71 047 , <6%'

<' ' ?71.' , 0Q. 7' 641' 4 . 5' 5.' ; , / 7>' >.' ; , <67 74M
7 , <' > , 7' E @. 1' - , 71.' ' 77. <7 , <8' . 67' =4.' ?546 . 416'
>>? ' 17. / . <76' ' V' <78%? ' 1' 4< .' E' 466. <7. 1?1. 7' 7 , <'
>.' - , 71.' 5 , 8' ?1 , . >>>' <' 7 1' J.' >. 6' / . / 01. 6' =4' >. '
- ' <' 6E71 1' >. 6> 1. ; 7 , 1. 6' ' - ' <7' 5'' < , / <' 7 , <' - ('

> ?47 ' ' 5''5.J 65'741.' 4<.'?'17 .'>.';.6' / . / 01.6' ,47 .7.' . 468 .7' 5' 66.47'5.6'> 1..7_B1.6' - ' ; '<76' ,<' I, <?,6.6'> : , / / .6' .<7 .1. / .<5' <, -.'4@' ' .67' ; .?.<>'<7 / ?,17'<7=4.'5.6'> 1.;7, 1.6'1.67.<7 ; , / M ?,6.6'>'>/ < 671'7.4;6''V'<7'5''71'> 7 ,<' .75 : '0 ' %74>.'>.'7,47.6'5.6' ,?.1'7 ,<6' 1.5'7 - .6' '<' ;5.1J.8' '5 .<'7 ,<'>.6'>, / ' <.6'<'7 ,<'4@8' .7;%

.'64 6' .<' ; ,<6.=<.<; .' ; : '1J.'>.' - ,46' ?1.6.<7.1' c.'?1,0.7>.'>. ;1.7'64 - '<7I

66. / 0 .. ' '7 ,<' .8' '?1 6' '- , 1' .<7.<>4'5.'1'??,17 >4'; ,<7.7>'>.' ; .<6 747 ,'\>>;1#5,' ; '=4 '64 7N

$' 17 F8' .6' ; .56'>.'> 671 ;7 6.' 1#' 1,<7 ; :'=<.' '<,>.'5.'C' , ;7,01.' .7'5.6' ; ,<6. 56'>.'>.?'17. / .<7'5.'C' <, ' -. / 01.

$' >'< / , <68 .<'5''?1>6.<7.' '<<>.8' 5''1.4< ,<'>.6' ; ,<M 6. 56'>.'> 671 ;7< '41'' 5 .4 =4.'5.' ' , ;5,01.8' .7 ; .55.'>.6' ; ,<6. 56'>.'>.?'17. / .<7 =4.'5.' '<, - . / 01.%

% 5 66. / 0 .. '<'7 ,<'5.8' <6 14 7.'=4.'>'<6<546 .416' >>?'17. / .<76' ,<'' ?1, ;>>>8' '-'<7'5''<, / <'7 ,<'>.6'>>?<' &6' 5'' >J 65'741.8' '<'5 1'J.'>.'5'' / , 7 >'>.6' / . / 01.6' >.6' >1.;7, 1.6'>.' >>?'17. / .<7 .7>.'> 671 ;7 =4'>, 1.<7 6 ,17 1% ?'1'5.6 ,17I'=< 5 .<'1>6457.=4.'=4.5=4.6'> 1.;7, '1.66.1' .<7 ; , / ?,6.6' .<' ;<7 .1' > '>/ < 671'7.416' < [- .'<@8' .7 ,<.' >'471.6' <.' ; ,<6.1- .1' .<7 ?546' 5'' / ,B5'>'>.6' '<; .<68' >>' ;1>7.'=4.8' <,<,067'<7 ; .' 5 1'J.8' 5.6' / . / 01.6' >46' ?'1' 5.' 6,17 >. / .41.1,<7'4'> 1.;7, 1. 4 =4 ' ; ,<;411.<;.'>.' / , M 7 >8' ' / '<7 =4.'E, 1.'6.'?,<11'%8

% '5.'K, / 01.'>.6' ?5' ; .6' '1. / ?5 1'?,41' ; , / ?>7;1' 5''7 ,5 >'>.6' 1. ;5, 1.68' '4@'7.1 / .6'>.' '17 ;5.'?1>;1'.<78' .67 / , <>1.' =4.' ' .545'>.6' / . / 01.6' / ..546' ?'1'5.' 6,17 .< .7'7 >V1.?1.<>1.'5.416'&0<.7 ,46' \5.'6,17>>7.<< ?.1'' ; .4@ =<'V1.<71.1,<7% \

' ;), 5 ' <'J1'<>'<, / 01.'>.'?.7 7 ,<6' '11 - .<7'' -,6' ; , / 7#6'1.5'7 - . / .<7 2'5''7Q4 7 ,<'>.' 6'-, 1'6'5.6' / . / 01.6'>.6' ; ,<6. 56'> '>/ < 671'7 ,77 6.1,<7?'V#6I' 5' / .'?'1'57 <> 6?.<6'05.' =4.' 6' 6. / 05>.'>, ,<.'4<.'>. ; 6 ,<=4.5; ,<=4.' ' ; .7 '1>_

66. / 05.'>#; >.'=4.'5.6' / . / 01.6'>.6' ; ,<6. 56' > '>/ < 671'7 ,<'<.'6.1,<7?, <7?'V#6%

.'?1,0.7>.'>#;1.7?1.6.<7# ?'1' % .6 / .4< .16' .67'>,?7.%

+' % .?.55.7 .1'?1 <7.'4<'?1,0.7>.'> 1.7'>' > 7 ,<<.5' '4' ; ,>.'?.<'58' ; , / ?,6.'>.6'> >1.<76' '17 M ;5.6'=4 ' '-' .<7 #7# '0,<14#6'.7'1.<-,V.6' '' .@' / .<' >.6' ; , / 7#6'>.' ; ,<67 747 ,<' .7 >.'5.J 65'7 ,<' ;1 / ' <.55.%

.6' '17 ;5.6'64 - '<76'6,<7>..1#7.6N' G - (' S' '! ' N7 34 ; ,<=4.' '41'#7# ; ,<>' / <# ' / ,17?,41' ;1 / .'> 66'66<'7 ,<'?, 6,< 6.1'' ; ,<>4 7 '4'5 64 >.' 1.@ ;47 ,< 1.- 74 >4<.' ;0. / 6.' 1,4J.

W '?'11 ; >.'' / 7'5''7 7.'.7'5.' - 6'J.' - , 5 6'>4<.' 7,EE.' <, 1.% '<.'6.1''> ; ,4-.17=<'4' / , / .<7 / / ; >.' .@ 'W ; '7 ,<%

(! N W ,47.6'5.6'?.<.6' ';74.55. / .<7 467 .68 '471.6' =4.' ; .55.6'=4 '6,<7 7'05 .6'> ' >.66<68 6,<7'01,J .6% \

. $ V9 9 'R' A' ,47.6' / ' ; : <'7 ,<6' ,<' -,5.<; .6' 'V'<7 ?,41' ,00.7>. / ? ; ; .1'5''1 4< ,<,4'> ? 1.1'5''>66,547 ,< >.'7,47.''66. / 05..''>/ < 671'7 - .' ,4'>4<71 04<'58'>.'7,47.' '66. / 05 .' ; ,<67 74 ,<<. 5.' .7' 5 J'5.8' 6,57>.' ; , / / 4<.8' 6, 5' / 4< ; ?'5.8' 6.1,<7?4< .6'>.'5'' ?. <.'>.'6 @'<< .6'>.' J#<.8' 6'5.6> 7.6' - ,5.<; .6' ,<7 7' .@.1; .6' ' - .' '1 / .68' .7 >.'71, 6' '<< .6'>.'> 7.<7 ,< 6' .5 .6' 6,<7 .@.1? .6' 6'<6' '1 / .6%

% ,47 / < 671.'=<'6.1'' ; ,<?'05.'>4' ;1 / .' / .<' 5 ,<< .< '17 ;5.'?1 ; >.<78' ?'1'5.6' ,1>1.6'=< 5' '41''>,<' < 6 ,4 ; ,<71.>J' 68'6,1''?4<'>.'>,40.' '<< .6'>.'J <.% %

,6 ; : .E68 ; / / '<>'<76' ,4 ,EE ; .16' =4 ' '41,<7 ; ,<' 71 0< ' .@ ;47.1'5.6> 76' ,1>1.6' 6.1,<7?,< 6' ># 5'' / / .' ?. <.%

$' 8' ?'1' >E.7>.6> 7.6' - ,5.<..68' =4.5=<.'>7,V.< ?.1>' 5'' - .8'5''?. <.'>.' / ,17'6.1''?1,<,<; .' ; <71.' 5.6' '47.416' >.6>57.6'1 ,5.<; .68' .7 ; .<71.' .. =@'=4 ' ?'1'5.' ?1 6.<7 '15 1 .' ='' 6,<7 1.<>46'1.6?,<6'05.6% $

; 7 ' '>6?,6 7 ,<'>.' ; .7 '17 ;5.' .7'>4' ?1 ; >.<7 <.'?1 05' > ; .1''?, <7 '4'>1, 7'>.'646?.<6 ,< ,4'> <7.1> ; ,<> J4 ; ?'1'5'' ; ,<67 747 ,'' '4@' 7,17 6'5 7 / .6%

% '<67,<6'5.6' ; '6 / .<7 ,<< 6' .<'5''?1 6.<7.'6.. ' 7 ' '>'<6' 5.6' ?1 ; >.<7.68 ,7' 5.6' / < 671.6' 6,<7 1.<>46

1.6?,<6'05.6'>.6' ,1>1.6'=' 56'<1,7'7>,<< 6,<. ,<71.>J<>6' 56' ?,<11,<7 71.''>/ 6' ' ?1'<-.1'=<.5.41' >J<'741.' 57 641?1 6.8' .7.<' ; ,<6 =<.<; .'5.6' '47.416'>.'5''641?1 6.'6.1,<' ?,4164 - 6I' .7 6 '56'6,<7 ; ,<-' <;468' 76' 6.1,<7 ; ,<>' / <' ' '4@' ?. <.6'=<.'5.' / < 671.' '41' 7 .<; ,4 / .6%

1 16' =4.'5'>7.'1 6 67'<; .''41'' 7' ,??,6 .'?'1' ?546 .<16' ?.1' 6,<<.6 1 4< .6' '4'>.66,46'>4' <, / 01.'>.' 6. 0.8' 5'' ?. <' 6.1''>.' =4'71.' '<< .6'>.' .. '7<.'6' 5''1 6 67'<; .' .67 ,??Y 6 .'6'<6' '1 / .68' .7>.'0' 7 '<< .6'>.' .0'5<.'6'5''1 6 67'<,' .67 ,??,6 .' ' - .' '1 / .6%

,16=4.'5'>7.'1 6 67'<; .''41'' 7' ,??,6 .'?'1'4' '771,4?. / .<7>.?546>.'=4 '0.?.16,<<.68'5''?. <.'6.1'>' 0' 7 '<< .6'>.' ; .'5, .8' 6' 5'' 1 6 67'<; .' .67 ,??,6 .'6'<' '1 / .68' .7>.'6. 0.' '<< .6'>.' .0'7<.'6'5''1 6 67'<; .' .67 ,?' ?,6 .' ' - .' '1 / .6%

6' % ,16=4.'5.?1__ 6'><<' '771,'?. / <76 > 7 .<@'4<' , ; .667 ' . / ?5, '>.5''E,1; .'>.6' '1 / .6' ?1.6;1 7?'1'5.6'1' 7 >.6' '' ' .7 '' ' 55'>.'5''5,5'>4' ' ' 7 (* 8 1.5'7 - .' ' E,1; .'?405 =4.' ; ,<71.'5.6'571,4?. / .'768' '?1 6' =4.'5.66 % / '>,<6' ?1.6;1 7.6'?'1'5.6>7'' '17 ;5.6' '41,<7 7.'E' 7.6' ' / 6 >7 .4@?'1' ,< ,EE ; .1' ; - 58' =4 ; ,<=4.'6.1''6' 6' 641 5.' ; : ' / ? ,< 7'7>.'1 6 67'<; .'6.1''?4<'>.' / ,17%

55% .6' ; ,4?'05.6>.6' ;1 / .6' / .<>,<< 6' '4@?1. / E,1' 6. ; ,<>8' 71, / ..7=, '71 / .' '17 >.6'>.'5'' ?1 6.,7.'6..' 7 ,<8' =4' '41' .<7 ; , / 1< 6' ?.16,<<.55.<7.<7>.6' ; , / ; >.' , ' <; .<> .68' 6.1,<7?4, 6'>.' / ,17

2 7 ?.16,<' .8' '471.' =4.' 0.' > ?,605' 1.' ; , / ?5'05.8' =4' 6.< ; ,<-' <;4.'>' - , 1' - ,5 '>.6'>.'5.16' ?405 ;6' ,4 .EE.76' / =0' 5 .1 ' '??'17,<'<7 ' 5'78'>4<.' - '5.41'>.' ' 5-1.6' ,4' '4' >.66468'6.1''?4< .'>.'5''?. <.'>.'=4'71.' '<, .6'>.' ; '7<.' 6'<6' ?1 04> ; .'>.6'?. <.6 ? <6'J1' - .6' ? 17 .6> '?1 6' ; ,<7< 5.6' - ,56' ' - . ' - ,5.<; .' .<- .16' 5.6' ?.16,<<.68' EE1' ; 7 ,<6' .6; '5'>.6' ,< E'466.6'>.E68' ,7 6'5.>7 - ,5 .67 ; , / / 6' ' - .' 4<.'>.6>7.6' >1; <67'<; .6I' 7'=4.5 ; '6'5.6' ?. <.6' ?,17 ; ,<71.'5.6>76' - ,56' 6.1,<7 .<; ,7714.68' =4.55.' =4.'6, 7'5'' - '' 5.41'>.' ,00#7 - ,5 % %

W <% 34 ; ,<=4.'6.1'' ., <-' <;4'>'- , 1' / 6'5.'E,4 '>.' > 55; .68 / 'J'6 <6%'1 .<'4@8' - '566.'4@ ,< '471.6' ?1,?1 7 6 '??'15.<'<7%''5 7'78 ,< '>.6' / '7 1.6' ; , / 0'67 05.' > 6?,6.6'?,41' ; , / / 4<=4.1'5.' E.4' '<@>76' >E ; .618 / G J'6 <68 '16?''4@8 - '566.'4@, 5'471.6' W?7 7 68'6.1''?4< >. <,17%

% 34 ; ,<=4.' 6.1'' ., <-' <; 4' > ' - , 1' > 7 / 78 ?'' .@?5,6 ,<'>4<.' / <.8' ,4'>56?,6 .EE.7>4<.' / <.'?'< > 714 1.'5.6'?1,?1 7' / .'5 ,<, .6' .<'E'17 >.'?1 ; >.<7 6.1''?4<'>.' / ,17%

(+' .1''=<'5E '66'66<'78 .7 ; ,<', .'7.5?4?'>.' / ,15 7 0, / ; >.'=4''41''?1 ; > 8' ' ; ; / ?'J< ' ,<64 '>'471.' ;1 / .68'7.56'=4.' ; .4@>.' - ,58'> ,EE.<6.' '5''5,78'>.'6 >7 ,< ,4'7.'6'471..I'$

('6 34 ; ,<=4.'6.1'' . / ' - '<;4'>'- , 18' c7'1'01.4-'J.6' - ,5.<76' ,4' ?'1'7,<6' '471.' / ,V. ,68'?1, ;41.' '- ,17. / .<7>4<.'E. / / .' .<;><7.8' '(*' ?,<'>.' - <J7 '<< .6'>.' : '5'.%

% ,47.6'5.6'>6?,6 7 ,<6'?,17 ' '4@' '1 >.6' G8' 8' 8' '.7 '>.'5''?1 6.<7.'6. ; 7 ,<8'1.5'7 - .6' ; , / 5 >> ,<- ,5,<7'1.8' ; / ; >.'5 '5'.7' ; / >>.'5 J>> . 6 '??5=4.1?<7? . / .<S' '4@'05. Y771.6'E, 7.68'6>7' <- ,5 > 7' 1. / .<78'6, 55 J'5. / .<58'6,E7'5 J7 / . / .<7%

7 .6'05.6641.6'=4 ' <'771,<7?'6' 7'E'7.6' <- ,7,<' 7' 1. / .<78' <' 6' =4'<.' ?,17.1,<7 ?=5<7 5.6' ; '1' ; 7 1.6' =<' - ,<7 71.'6? > 6> '?1 6' 6.1,<7? <164 - .6'?'1'' ; >,' ; - 5.8' .7 ??411,<7>,<<.1'5 4 '>.6'>, / / 'J.6' .7 <5 1 # .7 '>.6?. <.6' ; ,11.> ,<<.55.6'6641'5.6=4.55.6' 6'6.1''64 74' > '?1 6' .6'> 6?,6 7 ,<6'>''> ;1.7 ; ,<; .1<'<7'54?,5 .. ; , 1' 1.> ,<<.55.%

% .6'05.6641.6'=4'< '41,<7?'6' 7'E'7.6' <- ,5,=' 7' 1. / .<78' .7 =4' ?,17.1,<7 5.6' ; '1' ;7 1.6' =4' - ,<7 7<' 6? ; E5 68'6.1,<7?,4164 - .6'?'1' ; 7 ,< ;1 / <.K.8' .7 ?4' .6>.6' ?. <.6'> 7.1 / < .6; '?1 6'%

% ,16=4 5'6.1'' ; ,<67'7 '?'1'5.6' '77.67'7 ,<6' > J'5.6>.6'J.<6' >.' '17=4.'5''?.16,<< ' / '71' 7 .'.678'?'' .EE.7>.6>7.6'05.6641.68'1.<>4.' <; '?'05.'>.' - '=' .1?[% >'<7 ?546' >. =4'1'<7.'0,416' ' '4;4< 71' - ' 5' ; ,1?,1'58' ; ,4?'05.'>.6>7.6' - ,5.<; .6'6.1''?4<'>.'>.4@'<< .6'>.'>>' 7.<7 , 8'

$ '' % ,16=<.8'?'1' .EE,7>.6>7.6'05.6641.68'5''?.1' 6,<<.' / '71' 7 ,''41'' .<'4<'01'68'4<.'0' / 0.',4'4<.' .46[' ; '66 .8'5''?. <.'6.1''>.'71, 6' '<< 6'>.'> 7.<7 ,<' ' E' '' % ,16=4.8'?'1' .EE.7>.6>7.6'05.6641.''8' G?.1G 6,<<.' / '551' >.''41''?.1>'' 5 6'J.''06,5'8'6, 7 7 '<'

6, 5 ><< / .7<01.8 ,<>?1, -> / 45 5'7 ,< >. c3. =', ?'17 .'>.'5''7 7W ,4>55 . ,1?W8 5'' ?. <> >.=4'71.''<,>.'' >.'>.5.<7 ,K%
Q + 4($*('Q(.+ -(' -$2 +**-('' -('36+,*('? + 4(.1 ' *+(' 'J(' , ,2? 0-('4.$0-#$? 4+.' %(##(' -(' -$,(' 0$ (*3('/ -(' *'+9('+)' ' -(' + 0 (= + -(' *' -9('+)' -(''-(2).+'' ' -('' -(2 +)('!
%'' >41>.'>.6 ?. <.6 ?,17>.6 '4@ =4'71.''17 ;5.6 ?1>;>>.<76 6.1'' '4J / .<7 '>.'>.4@ '<<>.6 ,16=4.'5.6>5.6 - 5.<;.6 '41,<7 >7> ;, / / 6.6 >'<6 <<.'1 @.8 .7 =4'' ;.54' =4'5.6 '41'' ;, / / 6.6 '41'' >7> 'J1.66.41%
& ;, *,(' ,$ +,$ *'3 . $'(' -+*'' + 4(.! ' **(' - ' . $/ ' -(' '+ -.('*+ .($(' *' -9$,$ (/ ' -(' , '+ ,.('+'3('*-+*,' -9$,$ $(/ (' 4+) ('' (.+ 4 *$ -('0$*9, +* -('' -('36+,*(
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< ('3.$ (' -(' +'3+',.+,$ *'' ('.+ 4 *$ -(W ' .'- ,5 6.1'' ?4<'>.'6 @ '7<..6>.' ; :'54.8
' + 4($*('4 .,-(' (' .+.,$3 ('4.-3--(*,' (.+ -(' - U('+ *-('' -('3)+,*(' .'5 $$'+ .+ -,-'3 $'' -+*'' + 4(.' **(' - *(' (-9-(' - ' $ '' -('5 +, .U('+*''+(3 !' 4 $'/ *' .'5 ('L('3 4+) (' + .+ -,-'+$--' -+*'' ' *'3.$ (' 4+.'$+ 0$ (*3(' (,' ('' (## .,''- ' '4 '$(.''3 4 $3('/
'' $3 *5 ('(.+3 *0+$*3+- +. $.4+.0$ (*3('/ (,' -' (##(,' - (*'+) '(.' ' -(' + 4. ',$*,(.'(* (0-' (' #$ (' + !-('' '' -('5 +, .U('+*%'' +33 4 '' 6 .'' -(' + +$' *' -(-4(.' **('' ' + 4 $''+*3(' -('5 (('' (',$+-$,(',$ (/ *' -(' + +$' *' -+*'' +5 ((' ('-$,('' 4(.' **('' + # *, - (0(.' ' ,'4$+(-(&('(.+ 4 *$ -(' + 4($*(' -('- U('+**-('' -('36+,*('K
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<;'6> ';;46'7 ,<>.' ;'' ;1 / .8 .@;.?7 ,<>.' ''0,<<.' E, '?,411''>71.''> / 6.'5,16=4.55.'6.1'' ?1, ->.8 G
6 ' '' '' ''>6 < ('>4 ('6M/C 6' ' 5 '>'; ,>.?.<'E% 34 ., <=4.'6.1'' ;,<-' <;4> '-, 1-,1 5,<7'1. / .<7% ?'1 / '5 ;.' ,4 -.<J.'<;.8 .7 2 >.66. < >.' 41.2 ' ,714 8 / 6 5.' E.< >'>.6 / ' 6 ,<68 0>7 1 , .<768 >E M ;.68 0'7. '4@8 / 'J'6 <)8;0'<7 .168E,1> 68 0, 6 7']81>' #,57.6 .< / .45.' ,4 641 '? .>8 ,4 ''>.6 / '7 >1.6 ;, / 5 / 67 ' 05.6 > 6?,6>.6 ?,41 ;, / / << =<.1 5.'E.4 '4@> 7.6 / ' 6 ,<68 0>7 / .<768 >E ;.68 <'- 1.68 0'7. '4@8 / 'J'6 <68 ;0'<7 .168 E,1>768 0, 6 7' 5 68 1>; ,57.6 .< ?7.4 .' ?4 641 ' ? .>8 6.1'' ?4<'>.' / ,178
& $' $3 *5 (' '(.+ 3 *0+$*3 ' - +0 $.' --,. $,'4+.' (##(,' - *(' $*(/ ' -$'4 '-' (' $*('4 .' --,. $.(' -('')+ (*$'/ +$' *'/ -$#$3('/ *+0$.(' ' 5 0+$''(+*2/ '(.+ 4 *$ -('
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. . .!) IW' 34 ;,<=4.'6.1'8 ;,<M -' <;4 > '-, 18 ?'1 / '5 ;.' ,4 -.<J.'<;.8 .7 '>.66. < >? <4 1.'> '4714 8 . / ?, 6,<< '>.6 ;.;-'4@ .7 '471.6 0>7.6 >.' ; : '1J.8 1' ,47,<68 ?,1.68 0.67 '408 ,4 ?, 66,<6 >'<6 >.6 7'<J68 - - .16 ,4 1 6.1-,5168 6.1'' ?4<' >.' @'<< .6 >.' .0'5<.8 Y
2 ' ' ' 17% T%B<.' ?,411'' 71.' < .<7 ''4.4<.'';7 ,< ;15 / <.55.'?,411'1 6,<>4< ;1 / .' ;, / / 6 '?1>6 71, 6 '<< .6 1 -,54;68 5,16=4.' >'<6 ;.7 <7.1-'55.' 5 < '41'' 7 'E' 7 '4;477.'?5' <7.%
% 34 '<> 5 '41'' 7 ; , / / .<; '>.6 ?.416<55.6 '1 6,< >4< ;1 / .8 <45 <.'?,411''>71.'?,4164 -'?, 1 1 6,<>4>7 ;1 / . ;, / / 6 '?1>6 ?546 >.' 6 @ '<< .6 1 -,5 .68 5,16=4.' >'<6 ;.7 <7.1-'55.' '4;4< 041V > ';;46'7 ,<<'41'' > ;5'1 ' =4 5V ''5 .4>' ;;46'7 ,< ;,<71.' < 86,57 =4 5 7 ,<<,< 7 ' / ?5 =4 ' >'<6 5.6 ?,4164 7.6 =4''41,<7 7 '7. 7.6%
% 4;4< 4J. / .<7 >.' ;,<>' / <'7 ,< 1.<>48 ?'1 4< 71 04<'5 ,1 / <.5 <.'?,411'' 71.' / 6 >.@ ;47 ,<8 =4'<7 > 5'' ?. <'8 '?1>6 4< 5'?6 >.' - <J7 '<< .6 1 -,54>68 >; , / ?7.1 >4 ,41 ,0 5.>7 04J. / .<7 '41'' 7>1.<>4% 8
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Y+ % 5.' / < 671.'>.6 ;, <71 047 ,<6 ?405 = . ?1 ' .<7.' >7'7 >4 1. ;, 4-1. / .<7 >.6 / ?,6 7 ,<6 >'<6

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&(' . !7 !)' $] ' ' '' ''V #'), >' ! ' ' ' ' ' ' $0$3' - '
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(&& ' ' '' ' #$D 0 $'/V! ''4(3,+3 ('9.+,$'/ 8@ ' ' 44 .+!) ## */ ' 0' - ' .-'(,' 8, & ' % /
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5' ! , > '1>8' 7, / / .' >.' 5, S%

0 9 ' A

&' 67.' ; , / / 4< =4 . I' 5' " ?1. / .1.' .67' , .@' ; 7; %P

%' '41. '48' / . / 01.' >4' > 1. ; 7, 1.' >4' >> ?'17. / . <7I' 5.@' <>1.' '1 .' \ ?1.6 > . <7' >4' > '17. / . <7I' K, <<.1, 58' / . / 01.' >, ' > . ?'17. / . <7I' ! 1. '4%' ; 457 - '7. <1I' H'V, 55.8' '> / < 671'7. , 1' >4' > . ?'17. / . <5' I' , 4J .18' ?1.6 > . <7' >4' > 671 ; 7' >.' ' <7 H'1J. '4'$K.1<'1>8' / . / 01.' >4' > 1. ; 7, 1.' >4' > . ?'17. / . <7I' '5468' / . / 01.' >4' > 1. ; 7, 1.' >4' >> ?'1W 7. / . <7I' , 1. '4' ' 5' 0, 41. 41%

+' %H. 1< .57 / . / 01.' >4' > 1. ; 7, 1.' >4' > . G ?'17. / . <7I' ! 4. <, 78' 5 , / / .' >.' 5, N' 411. '4 K < .1.68' / . / M 01.' >4' > 1. ; 7, 1.' >4' > . ?'17. / . <7%
< ' ' %' '17 < . '48' ?1.6 > . <7I' K, 4 ' 1'66.7 ' ' ; . <6' '7. 41' ?40 ; I' K. 0' <J4. 8' J1. .1%
9 ' ' %B'V , ; VI' , 407. '4 . <<.1V%

' ' ' F

' %' 5. / / . 0' " >.' K, 45'V1'PQ' H1' <70' & >.' '11.5, 4 6PI' K.1< '1>' & >.' , <J [VP%
< F ' #, 5 <8' / . / 01.' >4' > . ?'17. / . <58' 7\1.6 > . <7I' 57# / 'V.18' ?1, ; 41.41 6V<> ; ' >4' > 671 ; 7' >.' '11.5, 4 68' ' ; ; 46'5.41' ?405 ; %
9 ' 5' %' ' / ' ; 5.8' 04J.' > '71 04< '5' >4' > 671 ; 7' %> . K 7> . I' '1; 8' 0, / / .' >.' 5, ' .' .70%

" , ; .7V' > . 6' / 6' > .' 5' ' # , 3 67 747 . <8' > .' # ' : , 168' > . ? '1 ' 7. 4 . <7' >4' , 78' < .' 1. ; . -1 ' ' '4 . << ' ? ' =4 . 7' =4 ' < .' 6 , 5' 'EE1' < ' ; : %' . @ ; . ?7. ' > . ' ' , ; >7.6' > .' '1 6I' .55.' 6.1 ' ' > .' 1> ; ?1, ; 7.' .' 5.41' . J '1>%

' ? ! " %

B 7 ' ' ' ' $!' ' ' ' =
K : 78' ' ' 7 ' ' $ ' ' ' =
' ' * (*+*,' ' (" 4(.+,$ *" $ $,+$.(' (9*(/' ' *' (2$,' + ' O+ ,36+,Y+/' ' *' (0+'$ */' ' *' 0 8+9(' ' ,.+8(." !' ((+*' +3$#$5 (/+ ' A+4 */' ' . '+/' ' +*, */ (*' 6$*(/' (,' (" -(,+$ " -(' . -,+) $''(,*(*,' 5 $' # ,' 36+.9(' 4+.' (' $*$' !' ,(.(' #.+*5+$" -(' # . (.' ' @+-+9+'(+.7 '0 '$*!EJ/' # . +*,' (*0$. *' TG I' 4+9(' ' .$U%; ' E' $0 /').(36-/' (,' T' $0 /' #.+*3' -(' 4 ., /' 4+.' $+' 4 ', (!' %')' ' T
+ ' ' 0 ' ' + ' *9 =

' 8' ? '1' B %' 41' <> ' 5' < . %' > . ?47.' >4' > .' ?'17. / . <7' > . 6' K , 4 ; : . 6 >4 K : < . I' ' - , 5%' <) d' > .' ' ? ' M J. 6%' 1 6' N' '5 - %' 5 '6%8' 01, ; : >8' .7' '5 - %' ')%8' E1' < ; ' > .' ? , 178' ? '1' 5' ' ? , 67. %' 8 ' %
H, ' > . <6' , 4 -1' J. 6' 6. '71, < - . <7' ' ' '1 68' ; : . 0' B %' K4 66, <8' / ?1 / . 41 5 01' 1. 8' 14 .' B '47.E. < 55.8' <d' %

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$ 4 '$,$ *" - ' . 8+ (%
.7'7' > . 6' 1. ; .77.6' E' 7.6' " 5' " 71>6, 1.1 .' < '7 , < '5.8' > . ?4 6' 5.' ' , E57' (* ' Q, 6=4 '4' ' >4' / X / .' / , 68

" .@; 7>' 6, < ' '77. <7 , <%' .6' 1. ; .77.6, 1> < ' 1.6' < .' 6; ' 6, <7' > . - > . 6=4 " 5' '6, < / .' > . 56' / 55 , <6' *98*) 95 -%
7# <>>>4 6' < 7' 641; .77.6, / / . ; .55. > .' ' / 55 , <6' E, 41< .' ? '1' 5' " ; ' 66.' > .' .@71' , 1> < ' 1.8' 5.' / , <7' < 7' > . 6' 1. ; .77.6' , 1> ' 1.6' < .' 6 .5. - .' ?546' =4 '5' ' 6, / / .' > .' ' / 55 , <6' * 8*) 9' 5 -%
' , <' Q. 77.' . <64 7.' 5.6' V. 4@' 641' 5.6' 6, / / . 6' ? '17 ' ; 45 1.6' > , <7' 6.' ; , / ?, 6.' 5.' 7, 7'5' > .' ; .77.' 1. ; .77.8' 5.6' >1, 76' > . <1. J 651. / . <7' . 7' >4' 7 / 01.' < .' 6 V' ?1. ' 6. <7. <7' =4 .' ?, 41' 44' - .16. / . <7' > .' 5' / 55 , <' C*8UUC' 5 -%
7' 5' .67' > 6' 5, 16' < '741.5' > .' 6.' E' 1.' ' 6, / / .' ; .77.' =4 . 67 , <N' ; , / / . <7' . <1. J 671. / . <7' . 7' 5.' 7 / M 01.' 8' ' <<, <; . 6' ; , / / . > . - '<78' V' ; , / ?1 6' ' / 55 , <6' ?, 41' 5.6' : V?, 7: . =4 . 68' ?1, ; 41.1' 4< .' 1. ; .77.' ' <<4 .55.' > .' U ' / 55 , <6' 8 ' %' ? '1' ' < 8' . 7' ? '1' ; , <6. =4 . <7' > .' 9' / 55 , <6C((8 '5 - %' ? '1' / , 68 , <7 56; . ? . < ' > ' <7' ?1, >4 78' . < ' , >7' (* 8' =4 .' " / , > = .' 6, / / .' > .' ' / 55 , <' C*8UUC' 5 -' Z
<' ? '1; , 41' ' <7' 5.' < > < .' >7' 7' > . 6' 1. ; .77.6' , 1> < ' 1.6' > .' 5' " 71>6, 1.1 .' < '7 , < '5.8' , <' < V' 71, 4 - .' '4; 4<' - .1M 6. / . <7' ?, 41' 5.6' >, 4 ' < . 6%
% %.6' ? '7. <7.6' < , <7' ?1, >4 7' =4 .' (C8 UU' 5 -%
.6' / ?, 6 7 , <6' , 1> < ' 1.6' > . 6' ' < ; . <6' ? 'V6' > 5. ; M 7 , <' 8' ?, 41' .@.1; ; .' (* 8' , 47' > , << ' U' / 55 , <6' U8 *9' 5 -%Z
7' 5.6' ' < ; . 6' ? 'V6' > .7 '768' 8 '5 -%
<E <8' 5' < ' - ' 7' . < ; , 1.' 7; ' E' 7' > .' - .16. / . <768' 641' 5.6' ; , <71 047 , <6' E, < ; .1.' . 7' / , 0 5 .1; ' > .' (* 8' =4 .' ?, 41' 4< .' 6, / / .' > .' UC8C (' 5 -%
'41' 6' 6' < 6' > , 47.' " 1. J1.77.1' > 71.' E, 1; ' > .' 1' ' / . < .1' - , 6' 1. J '1>6' 641' > . 6' > .7' 56' '466 ' ? . 4' 6' 7 6' E' 6' < 768' 6 56' ?1. 6. <7' . <7' 1 .55. / . <78' 641' =4 .5=4 . 6' 01' < ; : . 6' > .' ? .1; .77 , <8' 5' " ?, 6 7 , <' > . 6' 1. ; , 4 -1. ' / . <76' E' '76' " ; .77.' ?, =4 .' > ' <6' .7. <>4 .' >4' 1, V '4 / .8' 6' Q.' < .' ?, 4 - ' 6' - , 46' 1. / .771.' 5' " ?1.4 - .' =4 .' ; . 6' / / . 6' 1. ; , 4 -1. / . <76' , <7' 7 ' ?546' ; , <6 > .1'05.68' 6' . <E <' 5' < .' / .' 64EE 6' 7' ?, <7' > .' - , 46' <> =4 .1' =4 .' . . 67' " ; .77.' ?, =4 .' / < .' =4 .' 6 .67' / 6.' . <' / , 4 - .' / . <75' ' <, 4 - .55.' , 1J ' < 6' 7 , <' > . 6' 1. ; .77.6' ?405 =4 . 68' ?, 41' - , 46' E' 1.' 6. <7 1' 641 5. ; : ' < ?' ; , / / . <78' ? . < ' > ' <75.' ; , 416>4 / , 6' > ' , >78' 5.6' - .16. / . <76' E' 76' " 5' ' 71.6, 1.1 .' < '7 , < '5.' , <7' >E5' 1.' ?546' E' 05.6' =4 .' 5.6' 1. ; , 4 -1. / . <76' .EE. ; 74.6' 1. .55. / . <7' ? '1' 5.' 71.6, 1' ?405 ; %
" 6, / / .' > .' ' / 55 , <' C*8 ' 5 - %8' ' <<, <; .' ?, 41' 5.6' >1, 76' > . <1. J 671. / . <7' . 7' >4' 7 / 01.' ? . <M > ' <7' 5.' / , 6' > ' , E558' < .67' =4 .' 5.' ?1, >4 7' > . ; . 6' >1, 76' ?, 41' '6. 45.' - 55.' > .' '1 6%' .?4 6' 5.' 5G1' Q4 55. 78' 5' "
& '77'7 , < '5.' < .' > , 7' E' 1.' 6. 6' - .16. / . <76' =4 .' ? '1' . <71. / 6.' > . 6' 1. ; . - .416' > .' > 671 ; 76N' .55.' < ' " > .' ; , <7' ; 7' / / . > '7' ' - . ; ' 5' " 71 6, 1.1 .' < '7 , < '5.' =4 .' ?, 41' '(" 1. ; .77.6' > ' <6' 5' " ; ' ? 7'7. '%? '1; .' =4 .' 5.6' 1. ; .M - .416' > . 6' / ?, 6 7 , <6' > .' ; .77.' - 55.' < , <7' " 1. ; . - , 1' =4 .' 5.6' ; , <71 047 , <6' > 1. ; 7.6' I' ' <6' < , < ; ' ' 5 , <' > ' <6' .7'7' >4' / , 6' > ' , E57' > 4<' 6 / ?5.' - .16. M / . <7' > .' ' / 55 , <' C*8 ' 5 - %' E' 7' 6. 45. / . <7' ' ? .1' ; . - , 1' - '54'7 , <' ?, 66 05.' ?, 41' 4< .' ' < . ' . <7 .1.' >4' ?1, >4 7' > ; ' ; . 6' >1, 76' ?, 41' 5' " 6. 45.' - 55.' > .' '1 6I' ? . 47 71.' . < ; , 1.' > .' ; .77.' - '54'7 , <' ? . 47 , <' 6 5. - .1' Q46=4 ' ; .55.' >4' ?1, >4 7' ' . 6? .1 .1' > .' ; . 6' ? .1M ; . ?7 , <6' ?, 41' 7, 7.' 5' " 64? .1E ; .' > .' ' H1' < ; . 8' . <' ; : .1; : ' <7' > ' <6' =4 .55.' ?1, ?, 17 , <' " - 55.' > .' '1 6' ? .47' 6. '71, 4 - .1' 6, 46' ; .' 1' ?? , 17' - . ; ' 5.' 641?546' >=' 1, V '4 / .%' ' 68' ; , / / .' Q.' - . <6' > ' - , 1' : , <<. 41' > .' - , 46' , 06.1 - .18' 5.6' '471.6' 1. ; .77.6' > .' 5' " 1. J .' > .' . <1. J 671. / . <7' 'V' <7' >> 8' '4@' 7.1 / . 6' > .' 5' " 5, ' >4' 5.7' Q4 <' (* 8' 1.' - .16 .6' . <71.' 5.6' / ' < 6' > . 6' 1. ; .M - .416' > .' > 671 ; 768' ?, 41' ? '66.1' . <64 7.' > .' 5.41' ; ' 66.% > ' <6' ; .55.' > .' 5' " 71.6, 1.1 .' < '7 , < '5.' ; .' > .1< .1' - .1M 6. / . <78' 5.' ?1. / .1' =4 ' >>7' ' - , 1' 5 .4' > ' <6' 5.' < , 4' - .5' , 1>1.' > .' ; : , 6.68' 4 " ?48' > . 6' 5.' / , 68' 6 ; 5 . ; 74.1' ' - . ; ' ?1 ; 6 , <%
<' .EE. 78' 5.6; , / , 7 66' 1; 6' >4' 1, ' < .' 6, <7' . < 1>0' . <

=4.5=4.'1'5.45 66. / .<7>' ' W / ,4-. / .<7J.<.1'5 _5.'1'>/ < 671'7 ,<I .7'6 8?.<>'<7'5.<7' >41 .85.6 ;,1?6' '> < < 671'7 E6' <.'>, -.<7'1 .<'?.1>1.'>.'5.41' .<.'J E1Q 56?.1>1,<7'4' / , <6=4.5=4.';:,6.'>.'5.41' ';7 - 7.8

'1.65.'.<;,1.' '1.;,4-1.18 41'5.6' /?,6 7 ,<6>.' (* 8>.6?'V6>>5.;7 ,'8 4<.'6,/ /.'>. ' / 55 ,<6 (8 ' 5 -% =4 '1.- .<5' " ?1E.6 >.6; <=' 1<J# =4'G 71 . / .6>.'5" 7,7'5 7V>.' /?,6 7 ,<%

.6>>?'17. / .<76'=4 6.640> - 6.<7'5.6' '<; .<<.6 ?1,- <;.6 >.' 5\'4?0 <.8 >.' H1'<;0. #, /7>8 > ' K,410,<<' 68>.'5":'47.' ,1/ '<> .8>4' , 66,<<' 68 >.'5" ,41' <.8 ,<7'6,5>.'?1.6=4.' .<7 1.7<;<7'5" 7,5'5 7.'>.'5.416' /?,6 7 ,<6>.' (* 8

+$"3(2'5 $'(4+.,+9(*,' ("+*3$(**(" 4. 0$*1 3("-(' 8(**(' (,' -(' . (+*+$'/ +'0$L (' -(' +.$'/ (,' ' ., $,'("--4+.,((*,"5 $'('3 4 '(*,'-(' +' +*-.(' (,'-(' ., $'/ * (*' *,'4 $*,'+35 $,(' +' $,$-/

.6 >>?'17. / .<76'>< B '47 K: <8>4' K'6 K: <8 ' <6'=4.;.4@>.'5" #:'1.< .' .7>.'5" #:'1.<7. 5<' E.1 .4 .8 >7' .<7' '466' '11 1.6' 6.<6 05. / .<7' '4' 5W1' ',>7% .67'-1' '=<.8?'1'>.6; 1;,<67'<;.6?'1' 7 ;45 .1.68 5" 1.?'17 7 ,<'>.6 /?,6 7 ,<6>.' (* 'V '-' 5' .7>';,<6 >>1'05. / .<7'1.7'1>. .I / ' 6'5,16=4.' ,<';,<6 >.1.''-.;'=4.55.';.5>1 7.'5.6';,<71 0 '05.6 >.';.6 >.?'17. / .<76'6.'6,<7 / ?1.66.6 >';=4 77.1' 5.41';,<7 <J.<7''<66 5>7=4 56',<7>7.' "?,17..'>.'5.' E' 1.8 ,<' <.'?.<7 ?'6>,47.1'=4 56' < ' .<7 0 .47 7 '77. <7'5.6>.?'17. / .<76'5.6'?546'';;>5.1.68%

'>/ < 671'7 ,<'J><>1'5.%

.,<61<7' / ? 78 5" 64 7.'>.'5.416' 1.;,<-1. /;<76 =4' E' 6' 7 '471.1, 6?'17 .'>.'1'>/ < 671'7 ,<'>4' 71.6,1'?405 ;' .7=4 5< "?'6.<;,1.' 7>' ?,66 05.'>.' 1'77';<.1' .<7 .1. / .<7' '4' / < 65.1.'>.6 ;,<71 04M 7 ,<68 ,1J'< 6'7 ,<' <7.1 .41.'>.'6.6 041. '4@<. ' 7'<7?'6.<;,1.'>>7.1 / 7 ..8 7,47.6;.6;1;,<67'<;.6 <.' ?. / .77.<7 ?, <7 >.' ?1>6.<7.1' '4Q,<1> :4'7' 66. / 05..'<'5 ,<'5.8 > 4<.'1''< >1.'?,6 7 -.8 5" 6 74'7 ,<'>.6>.?'17. / .<76 =4'6.'6,<7 ?'17'J>'5.6 '<; .<6?'V6> .7'76I / ' 6c.6'1>6455'76'=4.Q ''>>Q' 1.4< 68 .7>, :7Q '41'' :,<<.41>.'?1.6.<7.1' .<' 6. / 05.'6,46'?. ">.'Q,416'>1 66. / 05..'<'7 ,<'5.8 / .'?,17.<7 ' .1, 1.'=4.'5.41'6 74'7 ,<'< .67?'6?54 ' >.E'-,1'05.'=4.';. 5.'>.6 4471.6>>?'17. / .<76%

#' Q.'>, 6 <> =4.1' ' 66. / 05>.' <'7 ,<'5.8 ;, / /.' 4<.'>.6?1 <; ?'5.6';'46.6>4'1.7'1>'>4%1. ' ;,4-1. / .<78 5" 1. 6 67'<;.>.6 :'0 7'<76>.6;' / ?' ' J<.68 >'<6 =<.5=4.6>>?'17. / .<768 " ';=4 77.1'5.6 ;.<68 5.6;:' / ?'156' .7 '471.6'1.>.-'<;.6; >.-'<7 6. J<.41 '5.68 >.;5'1>.6 1';:.7'05.6% ,46 6'-.08 / .66 14165'=4.'>'<6'4<.'J1'<>.'?'17 .'>4'1,V'4 / .' ;.6'1.>.-'<;.6 E,1 / ' .<7'5.'6.4'1.-.<4'> 4<'J1'<>' <, / 01.'>.'?1,?1 ;7' 1.6I>.?7 6?546'>.'>.4@'<' 6 .<' 6,<7'7,7'5. / .<7 ?1 -. 68 .7 56'1.?1. 6.<7.<7 1 / ?,66 0 5 7#',4' 56'6, 77>.'?'V.1' ' 7'7 4<.'?,1M 7 ,<'> 4<'1.-.<<'=4 8>'<6';.' / , / .<78< .@ 67.'?'6 ?,41'.40%

<5 4'5"5, '>4' C ' / '' (* ' ,1>,<<.'=4.8 641' E" 1.=4 6 7 ,<'>. ';, / / 66' 1.6>.'5"71#6,1.1 .8 5.' / ' < 671.'>.6;,<71 047 ,<6?405 =4.6>,<<.1"'4@';,1?6 '>/ < 671'7 E6' 5.6 ,1>1.6 <>..66' 1.6 ?,47 '6641.1' ;@';7 74>.'>.6 1;.-.416%

(+' ' ("3 $''+$.("-('#+',.-' .(.$('*[*,' +-.('''('Y+'- +,+'-('$, +,$ *-(.(3 0.((*$"4 ' ,("(+*3$(**("4. 0$*3('/+ ' D.' $ (,(,+ ' (0'+ -,'-(.*$(./' (,/-+4.(" (" .-' ,+,"5 ('4.-= '(*,+$(*,'((",+) (+ 2' ' (' *,+*'-(".(',(" ' .(3 0.(.'/' *('3 ..('4 *-+*3(' +3,$0(' (,' ,(* (' -(' +' 4+.,'(23$,(' (" *$.(3, $.(" -(" -(%4+ (*,3*," 4+.', ,(' ("$*',. 3,$ ""4. 4.("+' ('-$.$9(./'(,

5.6 ?1.66.'?'1' 7,46' 5.6 / ,7 6 =4 '?.4-.<7'5.'?546' '< / .1'5.41'OE.5.'.7>-. 55.1'5.41?'7<,7 6 / .% ' / .'1.67.' '?1.6.<7.1' ' 66. / 05..'<'7 ,<'5.' ' .7'7';74.5>.6,?.1'7 ,<6'?,41'5.'1.;,4-1. / .<7 .7 5"1.?'17 7 ,<'>.6;,<71 047 ,<6'E,<; .1.'.7 / ,0 5 .1.' >.' (* %

.6 195#6> ;, / ?7.6 6,<7'>>Q" .<7 1. / .<7 7.1' / <. 6 >'<6 =4.5=4.6>.?'17. / .<768 .7 .'E,1 / .<7 64;;.66 -. / .<7>'>6'7,46'5.6 '471.6% .'>' 6?.<611' =4.' 7 .7'7 >.]'1.;.57.6>.' 5" 71.6,1.15.'<'7 ,<'5.8 ?,415.'?1.6.<7 / , 6 >.'6.?7. / :1.8 ?1.6.<7.16'4<' -.16. / .<7>.Q" '66.O6.<6 05.8 .7Q.';, <' 71' ''-'<7 5"E<'>4' / , 6 5"?,6 7 ,<'>.'7,46'5.6>.?'17. / .<76 641'5";,<E.;7 ,<'>.';.6 1 .6>' ;, / ?7.6%

'6 5 / ?,17.'=4.' 66. / 05..'<'5 ,<'5.';,<' <' 66.'5"?,6 7 ,<'>4'1,V'4 / .'641' ,?.1'7 , 7>4'1>' ?'17. / .<7 >.6;,<71 047 ,<6 E,<; .1.' .7 / ,0 5 .1.' >.' (* % 41'5.6 =4'71. - <J7 71, 6 > 1.;7, 1.6 >.' >.?'17. / .<768 =4'1'<7.8 = .67 ' > 1.' ?1.6=4.' 5" / , 7 .8 ,<7 7.1 / <.'5.416',?.1'7 ,<68 .7 ,<7'1.?'17' .<71.'5.6> 671 ;76'5.416'?,17 ,<6';,<71 047 -.68=4 8 1.4< .686 . .-.<7 ' 9U / 55 ,<6) (8 '5 -% % " , / /.'7,7'5.8?,41'5.'1,V'4 / .8>.6;,<71 04M 7 ,<6'E,<; .1.'.7 / ,0 5 .1.'.67>.' ' / 55 ,<6%

<6 8 ?,41'5.6=4'1'<7. 71, 6 >.?'17. / .<76'=4' < ,<7 ?, <7 .<;,1.'7.1 / <.'5.41'71'-' 58 5'<.'1.67.' ?546'"1.?'17 1'=4.' ' / 55 ,<6 *C8 '5 -% '' :,<<.41'>.'?1.6.<7.1' " 66; / 05..' .7'7 <, / <'7 E>.6=4'1'<7.'>.?'17. / .<76'>,<7'5.6> 1.;M 7, 1.6,<7;,<6, / / .'5.41'71'-' 5I'4<' '471.'7'05.'4' E' 7;, <'551.' .7'7>.' / ";,11.6?,<>'<;.''-.';.4@ =4'<.' / ,<7 ?, <7 .<;,1.''>1.66.'5.416' 1>6457'76I 5"?54?'17'6,<7 '4' / , / .<7>.'7.1 / <.1%

.'1. / .76' ' 66. / 05..'<'7 ,<'5.'4<,';'17'' >4' 1,V'4 / .8=4 8?'1'>.6<4'<;.6;,5,1 ..68 > 67 <J4.' ;.4@'>.6 >.?'17. / .<76'=4' ,<7';:.->'5.'1.?'17. ' / .<7> '-.;';.4@=4'4.5 ,<7 ?, <7 .<;,1.'7.1 / <.% ,46'5.6 :4 7 Q,416'Q.'6.1'' .@';7'"-,46?1.6.<7.18 / .66 .4168 4<.'6. / 05'05.';'17.'8 =4 8 .<'5"; , / ?'' 1'<7''-.;'5"?1>;.>.<5.8 <>5=4.7"5.6 ?1,J1 6 64;' ;.66 E6>.';.77.' / ?,17'<7.' ,?.1'7 ,<%

.47 71.' 'E ;:.'>.';.77.';'17.' >'<6'5.'5 .4>.' '6.'<;.6 ' 1' 7 5.'>,405.''-'<7'J.'>.'E' 1.'.,<' <' 51.' ' %5.6>>?45.6 5" 6 74'7 ,<'1.'?..7 -.'>.' 5.416'>.?'17. / .<768 .7>.' 16' / .771.' '?,17..'>7> 1 ' J.1'> 4<.' / '< .1.' ?546' .EE ;'..' 5.41"' ;,11.6?,<' >'<;.6 .7'5.41" .@:,17'7 ,<6%

E5E <8 / .66 .4168 6'Q .<' 4J.'?'1' 5.'6.<7 / .<7 =<''< / . / ,<0.5..76,47 .<7 / .6 .EE,1768 5";.17 M 74>.'=4 '41' .<7'5.";,1?6 '>/ < 671'7 E6'=4.'5.6'1;' ?1 6.<7'<76>.'5"<'7 ,<',<7'6'<6';.'6.'6,46'5. "V.<@ 5.' 1.6457'7 >.'5.416'71'-'4@ 6.1' 7 ?,41'5.6'4<6'5" ?546'J5,1 .46.%1.;, / ?.<6.'>.'5.416'.EE,1768 .5'?,41' 5."'471.6 ' J4 5 ,<'5.'?546'?4 66'<7 ?,41'5.41'?'' 71 ,7 6 / .% & <' '??5'4> 7%P

% C 41' ,06.1-'7 ,<'>.' % '<>1>8 E7 ,4-.17'1.'>.' 5"6#'<;.'> : .18 >4' 1.7'1>' =4 '??,17.''4'1'7'.1'05. / .<7 >.6 / . / 01.6>.' 5" ?1,;:' <.'5.J 65'741.' <;.15 54>.'>.' .?,=4.'>.'E" 6.?'1'7 ,<'>.' , ' ';74.55.8 '0, A 6, / 05..' " E@.' .?,=4.' ' ' ;.66'7 ,<'>.' 6.6 0<.5 ,<6 '<' '>.';.' / , 68 .7 >.;1.7.'=4 4<.'>.?45'5 ,.' 1' 1' .<' E' 1.'?'17'4'1, '>'<6'7.'Q,41%

% #' / 46 '>. / '<>>'=4.' 66. / .'-,45 7 0 .B' <%4' 7.1'6.6> EE.1.<76 / . / 01.6" <6714 1.'5.416'>.?'15. / .<' 1.6Q .75E6'>4'>..E.' =4 ,"WB' 7 1.<>1.8 7.'>4'=77 K'7 ?'1- .4>1'B'?'6 2'7 7?'1'5"-, .',E . .%

2 ' ' ,% ' 6W , @

%K '- ;-8 ' # ' ' ' ' $ % &' ' '' 77' , / 68>'<6 ;@?.' > 7 ,<',4'>'<6'5"1 >'.7 ,<'>4'> ;1.7641' 6 < 7.68 <;7 , / ' 'C]'Q%4-5 71 ' / ,76'G &1, 6 . Y.8W $

5"6 / 7.'7 . ; ;4@ ; I W6,46 ?1. .@7.6 '' ;<<.6>.6
> 6?,6 7 ,<6 ; ,<7.< .6 '<@'77 ;5.6 ?1. / .1 .7 6.M
; ,<>Y # .77. , / 66 ,< .67>.' 7" ?546 : '47. ; ,<6.M
=4.<;.8 .7 1.<>1' 7 <<55.' 5" , '?'1 5'=4.55. - ,46
'-.0 - ,454 ; ,<6.1-.1 5.6 ; ,<; .66 ,<6>.6 / <.6>.
; ,4-.17.6 ?'1 ; .4@=, '5.6 .@?5, 7.<7 .Q" 5 6 .67
71,<-. >.6 J.<6>. / '4-' 6. E, =Q , <7'046>'>.
; .77. .11.41 >. ; ,? 67.8 .7 .5.-.<7 >.6 > EE ;457.6
=4 5 .67 <7>1.66'<7 >.?1.-.< 1 >.6 5.41,1 J <.I
.7 ; ,<6.=4.<;.8 Q ' : ,<<.41 >. - ,46 ?1,?,6.1 5.
?1,Q.7>.>>.1.764 - '<7N
W 66. / 05>. <'7 ,<'7.'>>;1>7.'=4.8 6<1 5.6>.4"
.@?.> 7 ,<6 ,1 J <'7.6>.'5" 5, '>= C) Q4 55.7>.1< .18
1.5'7 -. '4@ / <.68 .7 " '17 8 " 5" 64 7. >.6
/ ,76N W ,46 ?1>7.@7. > '4;4<.6 >.6 > 6?,6 7 ,<6
$; ,<7.<4.6'4@'17 ;5.6 ?1. / .1 .7 6. ; ,<>Y 6.1,<7
1>7'05 6 ; .<@ ; I W .7 71, 6 E. / . IY .7 =4 .< / '1J.
>4> 7?1, ; .6 -.10'58 ' <6 =4. >.6> 7.6 .@?>> 7 ,<68
/ .<7 ,< 6.1" E' 7. >4 ?1.6.<7 >>;1.78 =4 6.1" ?,17>
6'<6>>5' '5" 6'<;7 ,< >4 1, Y
V .+44-. - 3 $,- -(" #$*+*3('/ (--1
3.(' .0+* (' .(*- ;
$ 66. / 05>. <'7 ,<'5.8 '?1>6 ' - , 1 .<7.<>4 5.
1'??,17 >4 ; , / 7> >.6 E <'<;.6 6<1 5" ?.7 7 ,< >4
; ,<6. 5 J.<.1'5>.'5" ; , / / 4<.'>. '16. 55.88 .7 5.6
'- 6 >.6 > 1.;7, 1.6 >. > 671 ;7 >. '16. 55. .7 >4
>>?'17. / . ,7 >.6 K,4; : .6 >4 : <.8 >..1.5;=4 . '
Q467 E '<7'?'1 5" / 4< ; ?'5 7. >. '16. 55. >4 ?'-.M
/ .<7 >.'6.6 ; ,<71 047 ,<6 .7 7'@.68 6.5,< 5. >>;1.7
>' ' ,47 >.1< .18 5 6.1" E' 7 4<. '-'<;. ?'1 5"
; ' 66.>. .@71' ,1> <' 1.8 "5" / 4< ; ?'5 7. >. '1M
6. 55.8 > 4<.'6, / / .'>. * 8 '5 - 641 5. ?1,>4 7
>.6 6,46 '>> 7 ,<<.56 >.6 ; ,<71 047 ,<6 E,<; .1.68
/ ,0 5 .1.68 .7>.6?'7.<7.6>. '> 7. - 75.8.7641 6,<
6. 0 . / .'>'<65.'?1,>< 7>.6 1.-.<7.68 7'<7>.6 * / 5M
5 ,<6 C) (8C('5 - >.'>, / ' <.6 <'7 ,<'4@ =4 '54 ,<7
>7. -.<>46 ?'1 5.'>>;1.7 >4 'E>-1 .1 >.1< .18 =4.'>.
; .4@ =4 '?,411' .<7 54 '>71. -.<>46 ?'1 64 7. >.'6"
6,4 / 66 ,<I 5.6=4.55.6 * 8 '5 - 54 '6.1,<7 >>5
-1..68 6'-, 1N 8 '5 - >'<6 5. ; ,416 >4 ?1>6.<7
/ , 68 .7 C 8 '5 - > '<6;0' ;4< >.6 / , 6> , .7,
01.8 <,-. / 01. .7 >. ; .1,01.'?1, ; : ' <8 " 5" ; : '1J.
==. . / ?5, '>. '> 5.'6, / / . 6.1" E' 7 6,46 5" 641M
-. 55'<; . .7 5" > 1.;7 ,< >.6 > 1.;7, 1.6 >.'>>?'17.
/ .<7
V . + 4. 4 '$,$ * -(+ +.-(/ (" -$'4 '$1
,$ *" ' $0+*,(" ' * --3.(,-(';
$ 17 - 6 7.4168 - 6 7.41 ?1 <; ?'5 .7 <
6?.;7.41 J><>1'5>.6 1> .66.1,<77,46 <, / <>68?,41
; .77. E. 6 6.45. / .<78 ?'1 5. 1, '8 =4 <. ?, 11" E.6
; : , 6 18 ; ,<5,1 / . / .<7" '17 555 >4 >>;1.7 >4 (/ '
>.1< .18 =4. ?'1 / 5.6 ?.16,<<.6 =4 Q467 E .1,<7
'-, 1 >7> ?1>..>. / / .<7 . / ?5,V>.6 '4 6.1- ; . >. 5"
<'7 ,< >'<6 5.6 '> / < 671'7 ,<6 1>>4 7.6 ,< 64??1
/ >.6
$; , / ?7.1 >4 5 1 '<- .1 (*C Q46=4 '4
5W1 '-1 5 (*U8 5.6> 1.;7, 1.6 >.'>.?'17.< .<76?,41
-, 1,<7 ?'1. 55. / .<7 " ; .4@>.6 . / ?5, 6=4 >.- .<
>1,<7 - ' ; '<76 .< E' - .41 > . / ?5,V.6 >.6 '<; .<<.6
'> / < 671'7 ,<6 1>>4 7.6 ,4 64??1 / ..6 $

$,16=4. 5.6 <6?.;7.416 .7 - 6 7.416 1. ; ,<<'7
G71,<7 5" E'466.7> ,4 <64EE 6'<;.'>.6>.;5'1'7 ,<68
,4 =4 5 5.41 .< 6.1" >.;5'1.'?'1 5.6 / 4< ; ?'5 7>68
56 6.1,<7 7.<46 > . '>1.66.1 ?1, ; .6 -.10'58=4 56 1.
/ .771,<7 >'<6 :4 7' <. '4 ?1, ;41.41 6V<> .>4 > 6M
71 ;78 ?,41 >71. ?'1 54 '>. / '<>.. 5" 1.;7 E ; '7 ,< >.
-'<7 5.'> 1.;7, 1. >4 > 671 ;7 $
+ 41 7.'1'??,17 ' 7 ?'1 / / .1V > 4<.'?>7
7 ,< >4 >>?'17. / .<7 >. . <. .7 '1<.8 5. >>;1.7
J ' $0+* (' +- 4,-
K ' ( )$ *+,$ *+ (+4.(" +0 $.'(*,(*- ' *
3 $,($$,+$.(/ -(3.(,(5 (($*$',.(- ($*,-!

1 .41E.1"?'V.1 5" 6,5>.'>.6J'1>.6<'7 ,<'5.6 - ,5,<
7' 1.6 >4 >>?'17. / .<7 >. . <. .7 '1<.8 >, 6 .7
; , / ?1 6 5.'5.1 >. ; . / , 6Q46=4 '4 / , / .<7 ,4 .5 6
>.- .<>1,<5 " 5" ; : '1J. _E4 >>?'17. / .<7 >. 5"
J4.11. G 8
+ # .1<,< ?1>6.<7.8 '4 <9 / >4 ; , / 7> >.6 7 S
<'<; .68 > .4@ ?1,Q.76 >.'>. ;1.76 =4 '6,<7 '>,?7.6 .<
; .6 7.1 / .6I C
W 66. / 05>. <'7 ,<'5. >. ;1.7. =4.'5" ; ' 66. >.
.@71' ,1> <' 1. -.16.1" " 5" 71.6,1.1 . <'7 ,<'5.'5"
6, / / . >. / 55 ,<6 U9 8 U('5 - ?,41 5.'1. / ?5'
; . / .<7 >. 5" > EE.1.<; . .<71. 5.6 1. ; .77.6 >4 / , 6
> ' ,E5 7 .7 5.6 >. ?.<6.6 ,1> 7 ' 1.6 E @..6 ?'1 5. >>;1.7
>4)'E>-1 .18 .7 ; .55. >. C / 55 ,<6 9 8U '5 - '4
1; / ?5' ; . / .<7 >.6 >>?.<6.6 ?'17 ;45 >1.6 >. '<4.;
(* 8 ?.<>'<7 7. / > / . / , 6> ' ,E77 Y
+ W 66. / 05>. <'7 ,<'5. >. ;1.7. =4. 5.6 ; , /
/ 66' 1.6 >. 5" 71.6,1.1 . 6,<7 '47,1 .6 " .7'05 18
6,46 5.41 1.6?,<6'0 5 7>8 4< 041. '4 ?,41 5.6 >; : '<
J.6 >.'J1,6 '66 J<'76 ; .<71. ; .4@>. '5 - .< E' - .41
>.6 / '<4E' ,741 .168 ;457 - '7 .416 .7 '471.6 =4 , ; ;4
?.<7 4< J1'<> <, / 01. > ,4-1 .16
$ .6> 76 >; : '<J.6 6. E.1,<7 641 >.6 > '56 '11>7>6
?'1 5. ; , / 7> >. 71.6,1.1 .8 .7> '?1.6 >.6 >. / '<>.6
?'1 .;1 7 .7 '??4V>.6 >. ; .17 E ; '76 >.6 ; ,1?6 '> /
< 671'7 E6
$ .6 E1' 6 >4> 7 041. '4 6.1,<7 1.J . 6 ?'1 5.6 ; , /
/ 66' 1.6 >. 5" 71.6,1.1 .8 6'<6 <>'< / , <6 =4. 5" > 6M
?.<6.'7,7'5.'?4 66. .@.>>.1 5" 6, / / . >. 8 '5 - G
T H.1 / ,< ?1>6.<7.8 '4 <, / >4 ; , / 7> >. / 'M
1 <.8 4< ?1,Q.E >.'>>;1.7 641 <67 747 ,< ;7 5.6 E,<;
7 ,<6 >. ; ,416 / '17 '5.6 / 5 7' 1.6 + ,<6 5.6 '17 M
;5.6 .< 6,<7 64; ; .66 -. / .<7>>;1>7>6 6'<6 > 6;466 ,<8
' <6 =4 56 '4 -.<7N

- 5.1

G

$ 17 S$e '6.1' 7'05 8 > <6 ;0' ; ,< >.6 ?,176 >.'K1.678
,45,<8 , ; : .E,17 .7 ,1 .<78 4<. ; ,41 / '15 '5. / '1 7 M
/ .8 =4 6.1" ; , / ?,6..> 4< J1?4>Q4J. .7 >. >.4@ '66.6
6.416 ,1>,<<'7.41 E.1" 5.6 E,<;7 ,<6 >.'J1'<>Q4J. .
?546 '<; .< >.6 ; '?7' <.6>. - ' 66.'4 =4 6. 71,<-.1,<7
>'<6 5. ?,17 .7 5. ?546 '<; .< >.6 ; : .E6 > '> / < 671'7 ,4
E.1,<7 ;.55.6 '66.66.416

W E .6 ; ,416 / '17 '5.6 >7'05 .6 ?'1 '17 ;5. ?1. ; .>.<7
?1,<,<; .1,<7 641 7,46 5.6 >.5 76 ; , / / 6>'<6 5.6 '16.<'4@8
.7 641 7 46 ; .4@ 1.5'7 E6 '4 6.1- ; . / '1 7 / .8 ; , / / 6 ?'1
5.6 , ; .16 > '> / < 671'5 ,<8 .7 7,46 '471.6 . / ?5,V.6 >'<6
5.'>.?'17. / .<7>.'5" / '1 <.8 '471.6=4.'5.6>. 76 >.'?,5 ; .
6 / ?5. .7 >.'?,B; ; ,11.;7 ,<<.55.
W 5 .6 ?1,<,<; .1,<7 .J'5. / .<7 6<1 7,<6 5.6 >. B6
/ 5 5' 1.6 ; , / / 6 07.11.'?'1 7.6 , ; .16 >. 5" / '1 <. /
5 7' 7 .8 .7 ?'1 5.6, ; .168 6,46 / ; .16 .7 6,5>'76 >.6 71,4G
?.6>. 5" / '1 <. .6 .=4 ?'J.6 >.6 007 / .<76 .4 '1 / .
/ .<7 6.1,<7 .J'5. / .<7 6,4 / 6 7 5.41 Q41 > ;7 ,<8 ?,41 5.]
>.<76 ; , / / 68 1.5'7 E6 '4 6.1- ; . / '1 7 / .8 Q<6=4 '4 / ,M
/ .<7 >. 5" / 6. .4 1'>.8 .7 '< >.6'1 / . / .<7 >.?456 5' 1.<
71.. >'<6 5. ?,17 Q46=4 '4 5 ; .<; . / .<7 >. .=4 ?'J.
W " ; ,41 / '17 '5. <. ?1,<,4; .1" =4. 641 5. 1'?M
?,17> 4< Q4J.G
W 5 V '41" >'<6 .0'=4.?,'74< ; , / / 66' I?'77>
7.41 N
W . ; , / / 66' 1. '4> 7.41 6.1" '5" <, / <'7 ,< >,
.6 ; ,<> 7 ,<6 >.'6,< '> / 66 0 . 6.1,<7 5.6 / / .6 =4.
; .55.6 .@ J..6 ?,41 5. ; . / / 66' 1. >4 1, '> '<6 5.6 71 04
<'<@ >.'> 671 ;7
$ < ; '6 > '06.<; . ,4 . / ? ; : . / .<78 1,1>, ,<'7.41
6.1" 1; / ?5' ; . ?'1 ; .54 =4 .67 '??. . ?'1 5" 5, 1. / ?5 1
6.6 E,<;7 ,<6I 5. ?546 '<; .< ; '? ' <. >. - ' 66.'4 .7 5.
; : .E> '> / < 671'7 ,<8 ?'1 ; .4@>. 5.41 J1'>.'=4 64 11,<7
/ / > '7. / .<7I .7 5. ; , / / 66' 1. '4> 7.418 ?'1 5. ; : .E
>. 5" J.<>'1 / .1 . <'7 ,<'5. / '1 7 / .
W " ; ,41 / '17 '5. '41" 4< J1.EE .18 =4 1" >J'
5. / .<7 '7 ' ; > '4 ; ,46. 5 '> / < 671'7 ,< .7 '5" J.<>'1
*

ˢ<'7 ,<'5.ˢ/ '1 7 / .ˢ'S5 6.1'' ˢ5''<, / <'7 ,<><'1,%
555% .ˢQ41V 6.1'' ; , / ?,6 `>.ˢ6;? Q<1.6 >,<7 =4'71.ˢ
>.ˢJ1'>.ˢ64?>1Q.41 2 ; .54 ˢ >.ˢ 5 ' ; ;46. .7 71, 6 >.ˢJ1'>.ˢ
>J'5 ,4 .7'7 ; ,11.6?,<>'<7% %%
$ ˢ>.E'47>.6 ?.16,<<.6>4 J1'>.ˢ>. ' ; ;46>8 ˢ .<6.1''
?1 6 >'<6 5.6 J1'>.6 <E.1 .416 .7 7>>E'47>.ˢ?.16,<<.6
>.6 J1'>.6 64?>1 .'168 ,< ?1.,>1=>'<6 P.ˢJ1'>.ˢ ,4 .7J7
>.%5 ' ; ;469 .5 .<64 7.ˢ>'<6 5.ˢJ1'>.ˢ <E.1 .41%
W "% .6 Q41.6 6.1,<7 <> =4>6 .< <, / 01.ˢ>,405.ˢ>.ˢ
; : '=4 .J1'>. .7 ' ; ; 6> ?1,?,6.16 6.6 1>;46'5 ,<6 ; ,<G
E,1 / . / .<7 ˢ5''5, ˢ>4 CC ,# ˢ (* 8
"% ,16=4 5 V '41'' ?546 .416 ' ; ;46>6 5.ˢ<, / 01.ˢ>.6 .16?<<.%F
Q41.6 <> =4 6 6.1'' >.ˢ04 7 >.ˢJ1'>.ˢ64?>1 .41 > 7,465.6
' ; ;46.6 .7>.ˢ6 @Q41.6 >.ˢ?546 ?,41 ; : ' ;4< >.6 ' , .46.6
?1 6 >'<6 5.ˢJ1'>.ˢ ,4 .7'7 1.6?. ;7 E>.ˢ ; : '=4.ˢ ' ; ;46.8
W " ˢ ''1.;46'7 ,< 6.1'' E' 7.ˢ?'1 .6 ' ; ;46.6 .<6. / 05.ˢ
,4 6.?'1. / .<7 >.ˢ / '<>1.ˢ=4 5 1.67.'7,4Q,416 =4'71.ˢQ41>6
>.ˢJ1'>.ˢ64?>1 .41 .7 71, 6 >.6 '471.6 J1'>.6%%
E ˢ5''1.;46'7 ,< .67E' 7.ˢ6.?'1> / .<7 ; : '=4.ˢ ' ; ;46.8
.< ; , / / .<.'<7 ?'1 5.?546 Q.4 .8 1>;46.1''7,41 ˢ7,414<
Q41.8 Q46=4 > ; .ˢ=7 5 .< 81.67.ˢ=4'71.ˢ>.ˢJ1'>.ˢ64?>1 .41
.7 71, 6 >.6 '471.6 J1'>.6%
G " ˢ .6 E,1 / '76 6,<7 .@; .?7>6 >.6 > 6?,6 7 ,<6 ?1>;>G
>.<7.6 56 6.1,<7Q4J>6 6'<6 Q41V 641 5''?,4164 ; .ˢ>4 ; , / G
/ 66' 1.ˢ'4> 7.41 ?'1 5'' ; ,41 / '17 '5.%
& ˢ ; , / / 66' 1.ˢ'4> 7.41 6714 1'' 5'' ?1, ; .>41.8 .7
>,<<.1'' 6.6 ; ,<;546 ,<6%

$ ˢ ˢ

W " % # ; '=4.ˢ ; , / / 66' 1.ˢ'4> 7.41 1. ; .-1'5.6 >><,<ˢ
; '7 ,<6 =4 ˢ54 ˢ6.1,<7 E' 7.6 ?'1 5.6 ; : .E6 ,4 ?'1 7,47.6
'471.6 ?.16,<<.6 >.ˢ'7,47 >>5 7 ?1>7.<>4 ; , / / 6 >'<6 5.6
'16.<'4@ .7 >.6>>5 76 1.5'5 E6 '4 6.1- ; ˢ ; , / / 6 ?'1 .6
/ 5 ' 146 .7 7,<6 '471.6 'J.<76 >4 >>?'17. / .<7 >.ˢ5'' / 'M
1 <.ˢ .< .@.1; ; .ˢ>.ˢE,<;7 ,<6% ˢ'41''6, < > .@ J.1 >4 >>ˢ
<,<; '7.41 5''>.;5'1'7 ,< ; 1; ,<67'<; >.ˢ>.6 E' 56 5''1. / 6.ˢ
>.6 ? . ; .6 6.1-'<7> ; ,<- ;7 ,<8 .7 <> ; '7 ,<>.67>/ , <6
=4 ˢ?.4-.<7 6.1- 1'>5''?1.4-.ˢ ''>.<,<; '5 ,< 6.1'' 6 J<..ˢ
?'1 5.ˢ>><,<; '7.41 6 ˢ6'57 6 J<.1 .78 6 5 <.ˢ6'57 ?'6 6M
J<.1 ?'1 >.4@ >/ , <6 .< ?1.6.<; .ˢ>.6=4.56 .55.ˢ>.-1''
71.ˢE' 7.ˢ.< ?'1.> ; '6%
ˢ ˢ " % ˢ ; , / / 66' 1.ˢ '4> 7.41 6.1''7.<4 >.ˢ1.<>1.ˢ
? <5.ˢ>.ˢ7,46 5.6 >> 76 ?1>7.<>46 ; , / / 6 >'<6 5.6 '16.M
<'4@ .7 >.ˢ; .4@ ; , / / 6 ?>1 5.6 . / ?5,V.6 >4 >>?'1 . / .<7
>.ˢ5'' / '1 <.ˢ>'<6 .@.1; ; .ˢ>.ˢ5.416 E,<;7 ,<6 >'<6 5.6
- <J7 =4'71.ˢ; .41.6 =4 5 .< '41'' ,4 ; ,<<' 66'<; .ˢ?'1 -, .ˢ
>.ˢ>><,<; '7 ,<8 ?'1 5'' ;5' / >41 ?405 =4.ˢ ,4 '471. / .<7
; , / / .ˢ'466 ˢ>.ˢ ; ,<67'7.1 / / >> '7. / .777 ?'1?1, ; >6 -.1ˢ
O '58 5.ˢ; ,1?6 .7 5.6 ; 1; ,<67'<; .6 >4 >>5 78 6 5 ''5' 66>>.6
71' ; .6 ?.1 / '<.<7.6%
$ " % ˢ ; , / / 66' 1.ˢ'<> 7.41=4 ˢ'41'' ; ,<<' 66'<; .ˢ>.ˢ
7,46 5.6 >> 76 1.5'7 E6 '4 6.1- ; ˢ / '1 7 / .ˢ ; , / / 6 ; ,16>.ˢ
6,< '11,<> 66. / .<7 6.1''7.<4 > .< '-.17 18 6'<6 '4 ; <6>>ˢ
8 ; .54 ˢ>.6.6 ; ,<E1.1.6>'<6 '11,<> 66. / .<7 >4=4.5 ; .6
>> 76 ?'66.1,<7 ?,41 '-, 1 > > ; , / / 68 .7>.ˢ54 ˢ.<-,V.1
7,46 5.6 1.<6. J<. / .<76 =4 5 '41'' ?< 6.ˢ?1, ;41.18 <, ˢ
7' / / .<7 . , ? .ˢ>.ˢ5''>><,<; '7 ,<8 6 ˢ.< ''1.E<44.8
W " % .1''?'1> . / . ,77.<4 5.ˢ ; , / / 66' 1.ˢ'4> . ,1
=4 ˢ'41'' ; ,<<' 66'<; .ˢ> 4< >>5 7 ; - 5 ; , / / 6 >'<6 6,<
'11,<> 66. / .<7 .7 ; ,16 >.ˢ '16.<'5 >.< '-.17 1 / />>'ˢ
7. / .<7 7.5 / 'J 671'5 ; - 5=4 5 '??'17 .<>1'8 >''5 .4 >'<6
.=4?5 ; ˢ>>5 7 ?'66.1'' ?,41 '-, 1'>7> ; , / / 68 .7 >.ˢ5, ˢ
.<-,V.1'7,46 5.6 1.<6. J<. / .<76=4 5 '41'' ?4 6.ˢ?1, ;41.18
<,7' / / .<7 ; , ? .ˢ>.ˢ5''>><,<; '7 ,<8 6 5 .< ''1 4, .%
W " 55% ˢ ; , / / 66' 1.ˢ'4> 7.41 =4 ˢ6.1''>'<6 5.ˢ; '6>.ˢ
?,17.1 4<.ˢ? '<7.ˢ5''>1.66.1''?'1 > ;1 78 E' 6'<7 / .<7 ,<
>4 >>, ,<; '7.<18 6 5 V .< ''4<1 ˢ5'' ; , / / 4< =4.1'' '4
/ 'Q,1 J><>1'5 >.ˢ5'' / '1 <.ˢ6'5.6 ' ; ;46.6 6,<7 / 5 7' 7.68
'4 ; ,<71>5.41 >4 ?,176 ' ; ;46> .67 'J.<7>.ˢ '> / < 6%
71'7 ,< ,4 . / ?5,V>'>'<6 5.ˢ?,178 .7 1.=<.11'' <> ; '7 ,<
> ,<Q41V 5 1.=4.11'' .< / > / .7. / ?6 >4 J1'<>Q4J.ˢ ,1 ˢ
>,<<'<; .ˢ<>; .66' 1.ˢ?,41 <6514 ;7 ,< .7 5.Q4J. / .<7%
7 " 5 % ; , / / 66' 1.ˢ'4> 7.418 5,16=4 5 '41'' ; ,<ˢ
7'7> ?'1 ?1, ; >6 -.10'5 5.ˢ; ,1?6 >4 >>5 7 .7 5.6 ?1 <; ?'5.6
; 1; ,<67'<; .68 ?,41-''E' 1.ˢ'1 177.1 .7 ; ,<67 74.1 ?1 6,<< .1
' ; ;46>8 6 7 <.ˢ .67 ?'6 >>0> .< -.174 >.6 ,1>1.6 >7 6.6
; : .E6 .7 >.6 1>J5.6 >.ˢ5''> 6; ?5 <.ˢ / 5 7' 1.ˢ,< >.ˢ5''?,5 ; ˢ
>,6 '16.<'4@ 6 5 .678 5 5.ˢE.1''> ;1,4.1'641'5.ˢ1.J 671.ˢ>.ˢ
5''?1 6,<I .< / > / .ˢ7. / ?6 5 4 # .1''>,<<.1 ; , ? .8 ; .17 #>.ˢ
?'1 5.ˢJ1. .18 >.ˢ5''? ' <7.ˢ.7 >4 ?1, ;>6 -.10'58 ,4 >.6

?1, ; .6 ;10' @= ˢ' ,1,47>7>>1.66>6 .< .@>;47 ,<>.ˢE'1 ˢ
7 >.ˢ "5 % ' ; ;46> 6.1'' ?'1. 55. / .<7 '-.17S =4 5 54 ˢ .67
5 01.ˢ>.ˢ?1.<>1.ˢ ,4 >.ˢ>. / '<>.1 '< ; ,<6. 5%
G " "% ''?1 6,< >'<6 5.ˢ?,178 ,4 5.6 E.16 641 5.6 - ' 6 ˢ
6. '4@ 6,<7 4<.ˢ?4< 7 ,4 / 5 7' 1.ˢ?,41 5.6 E,47.6 >.ˢ> 6M
; ?5 <.I / ' 68 ?'1'1'??,17 ˢ ; , / / ; ?1>-.<< ,4 ' ; ;46>
> 4< >>5 78 56 <.6,<7 ?546 =4 4< / ,V.< >.ˢ6 1.7>I ' <6 ˢ
5.6 ; : .E6=4 ˢE.1,<7. / ?1 6,<<.1=4.5=4 4< ; , / / .ˢ?1>-.<>
> 4< >>5 7<.ˢ?,411,478 6,46 '4 ;4< ?1>7.@7.8 'JJ1'-.1 6''
>>7.<7 ,< .< V 'Q,45'<7 4<.ˢ.6?> ; .ˢ>.ˢ?. <.ˢ ,4 >.ˢ?1 -'M
7 ,< =4 ˢ<.ˢ6.1' 7 ?'6 <> 6?.<6'05.ˢ?,41 6 '66<1.1>.%6''
W " "% .5 .48 5.ˢQ,<1.7 : .41.ˢ'4@=4.56 5.ˢJ1'<>Q4J.ˢ
.7 6.6 '66.66.4168 ,= 5.416 64?? >'<768 >.-1,47 7.< 1 5''
; , 1 / '17 '5.8 6.1,<7 E@>6 ?'11,1>,<<'<; .>4 J1'<>Q4J.%
55.ˢ?,17.1''1.=4 6 7 ,< '4 / 'Q,1 J> >1'5 >.ˢ5'' / '1 4.ˢ ,4
'4 ; ,<71>5.41 > V E' 1.ˢ71,4-.1 5.6 Q41>68 .7 5 ' '4>55.41
> V ?1,>4 1.ˢ6.67> / , <68 .5 > V E' 1.ˢ' / .<.1 ' ; ;46> ,4
5.6 ' ; ;46>6% '' ; ,41 / '17 '5.ˢ6.ˢ7 . ,>1''7,4Q,416 5.ˢ / '7 <%
" " % ,1>,<<'<; .ˢ>4 J1'<>Q4J.ˢ6.1'' ; , / / 4< =4..ˢ
'< 7 'Q,1 J><.1'ˢ ,4 '< ; ,<71>5.41 ?'15.ˢ; , / / 666' 1.'4 ˢ
> 7.41 .7 4,7 5 >.ˢO 6''> 5 J.<; .8 7'4Q O ' ; ;46>=4 '4 >ˢ
/ , <%
ˢ" " % .6 7> / , <6 =4 ˢ<.ˢ; , / ?'1' 71,<7 ?'68 .7 =4 ˢ
<.ˢE.1,<7 ?'6 ?1, ?,6.1 > .@;46.ˢ>J 7 / .8 6.1,<7 ; >6 4<.ˢ
6.; ,<>.ˢE, 6 O 5.416 E1' 6I .7 6 56 <.ˢ; , / ?'1' 66.<5 ?'6
; .77.ˢ6. ; ,<>.ˢE, 68 56 6.1,<78 .< -.174 >.ˢ ,1>,<<'<; .ˢ>4
J1'<>Q4J.ˢ>.ˢ5'' ; ,41 / '17 '5.ˢ / '1 7 / .8 '??1>0.<>>6 '4
; ,1?68 ' / .<>6 .7 ; ,<>' / <>6 '4@ E1' 6 >.ˢ5.41 '11.65'7 ,<
.7 ; ,<>4 7.8 ' <6 =4 O 4<.ˢ' / .<>.ˢ=4 ˢ<.ˢ?,411''?'6 >1.ˢ
/ , <>1.ˢ>.ˢ5'' -'5.41 > 4<.ˢ>. / 34 ; .8 < ˢ?546 E,17.ˢ=4.ˢ
5''-'5.41> 4< / '1; > '1J.<
ˢ" " % 4Q,41 .#O : .41.ˢ<> =4>6 ?'1 ,1>,<<'<; .ˢ
>4 J1'<>Q4J.8 54 ˢ .76.6 >.4@ '66.66.4168 5.ˢ; , / / 66' 1.ˢ
'4> 5.418 5.ˢJ1.55 .1.7 7,47.67.6 ?.16,<<.6 >>6 J<>1'' ?,41
5.ˢQ41V8 6.ˢ1.<>1,<7>'<6 4, .ˢ>.6 6'5R.6 >.ˢ '16. , '5 , 6.ˢ
& .<>1'' 5'' ; ,41 / '17 '5.8 5.6 ?,17.6 ,41. 5.68 .< ?1.6.<; .ˢ
>.ˢ7,<6 ; .4@=4 ˢ- ,4>1,<7V '66 65.1%
ˢ" " % ˢJ1'<>Q4J.ˢ?1.<>1'' 6'' ?5' ; .ˢO E.@51> / 57>
>.ˢ5''7'05.ˢ> 6?,6>.ˢO ; .7 .5E.7% .6 '66.66.416 6.1,<7 O 6.6
; 5>6I ?1>6 > .4@ 641 6''J'4 ; : .8 5.ˢ; , / / 66' 1.ˢ'4> 7.418
'V'<7 O ;47> >.ˢ54 ˢ5.ˢJ1.# : .1% .6 ?.16,<4.6 >>6 J4>.6
?,41 5.ˢQ41V 6.ˢ1'<J.1,<5 O >1, 7.%
ˢW " " % ˢJ1'<>Q4J.ˢ'<<,<; .1'' E,0Q.7 >.ˢ5''7.<4.ˢ>.%
; .77.ˢ; ,41 / '17 '5.8 ?,41 Q4J.1 E' ; ;46'7 ,< ?,17.ˢ; .<71.ˢ
7.5 ,4 7.58 O =4 ˢ,< / ?47.ˢ7.5 >>5 7% ,1>,<<.1''>.ˢ64 7.ˢ
=4.ˢ '4> 7.41 ?1,>4 6.ˢ6.67> / , <6 N 56 6.1,<7 '??.5>6I .7
6.ˢ1'<J.1,<5 6,1 5'' J'4 ; .8 O 5'' 64 7.ˢ>4 J1. : .1I '?1>6
=4, ˢ = Q4J.ˢ,1>,<<.1''> ' / .<.1 E'' ; ;46> ,4 5.6 ' ; ;46>68
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' ' + .';,41,<<. / .<7>,'1, 8 =4 ' .<7>.'6.' E' ; .'> 1'J4.8 '77 1.' '77.<7 < 641 ;.'1,V'4 / .% .'J,4W - .1<. / .<7>.' ,6.?.' ' " > > 0 .< ?546 8 J5,1 .,@ =4.'6.6 >>71';7.416 <.' 5.' ?1>7.<>.?7% , > >7'7 >'<6 5.=4.5 5.' 6'J.' >,?,5>71,4-.1" ; .'1,V'4 / .% 'V .67 <>8 >'<6 '4G <.' ?1>. >.<7.8 CC8*9(' ?.16,<<.66 5.'<, / 01.'>.6 / ,176 ;6 '>.' * 8)9(8 .7 ; .54 ' >.6 / '<'J.6 >.'C 89C(% ';;1, 6 ' 6. / .<7 >.' 5" ?,?45'7 ,< .67 >,<.' <,<7> ; .77.' '<<>.'> C8 '>/.6% '1 / 5.6 <,4-.'< <>68 ,< ; , / ?5' 79 8U** J'1?,<6 .7 UC8 9 '0 5.6% " - 55.'>.' 1'J4.' .67 ; , / ?1 6.' >'<6 ; .6 ;'5;456 .7 ?1>6.<7.'5.6 '?1,?,17 ,<6%

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'<6 '<<.' ()*8 ,<7; , / ?7' 7>% << - .16 .'>.' 1'J4.') 9 .74> '< 68 9U .<70.,5,J .8 *('?,415.'>1, 78)?941 5" / .>. ; 4<8 .7U ('77' ; : .6 '4@ 0.55.6 5.771.6 .7>5" ?: ' 5,6,?0 .% '<6 5.6 ' ; ,5 >J.6 1>?'<><6 >'<6 5.'?'V6 6.' 71,4- ' .<7 8 90.<<.6J.<6 - ,4>6 '4@ >74>.6% .66. ; ,416 ' ; ; 1>>6 > ; .4@ =4 ' .< ' - ' .<7 0.6, <6.' 63 7 / ,45>6 > 8) 'E5,1 <6U* 1.450.16%

'<6 ,.77.' / > / .''<<>.' () *8 .'<, / 01.'>.6 .<E'<76 ;'W ?'05.6 >.' E1>=4.<5.1 5.]'>; ,5.6 >'<6 7,45.' 5" K, :> / .'E47 71,4->>71.>.'C) 8 U*8 >,<7 9C8 .6E1>=4;<' .,7.5E.,% 7:1. / .<7I .E.. '<, / 01.'>7' 7 '4J / .<5> >.' 98 U('4 >.6' 646 >.' '=<>.'?1>;>>.< .% '<6 ; .' / 8> / .'.6?'>.'>.'7. / ?68 ,4 ' - ' 7 0>5'HT>.< .6 <,4-.55.68 1>?'1>)8 .7 >7'05' *) <,4-.'4@ ,67 747.416%

'9 & ' (W ' + ' % B'1?.8 ; ,411 .1 4>>, 68 " ?'66> ; '?,41 '55.1> 7, ; : ,5 / 8 - .<'<7>.'K / ' 7 < ' - .; >.6 >>?>; : .6 =4 ,< ;1, 71.5'7 - .6 '4 1>6457'7>.6 ; ,<E.1.<; .6 >.' 5< 508 466 '?.< = .' ,<>,47.' =4.'7.6 'EE' 1.6 >.'H1'<;.'<V' .<5 &,41<' / '7 >1.' '4@ ; ,<E.1.<; .6 .<71.'5.6 ?1 <; .6 '66. / 05.68 '45'<7 7.6 '??'1.; ; .6 6. / ' 05.<7 <> =4.1=4.'5.6 ?1 <; .6 E1''=' 6 6.'?1, / .57. / '0.'4 ' ; ,4?>.' '??< '>.' % % ?1466 .<<.% .'#,5,<.5 0'1,<>.' K,55 6 >7' 7 1.<>4 ?1>.>>. / / .47 > K.15 < >.'5" ?'17>.' % 5.' ; , / 7.' E 17, 6% ?1>6 V ' - , 1 - - . / .<7<>J, ; >?,41 6.6 <7>1>76.7 ; .4@ >.6 '471.6 . / J1'<76 1'<7' 68 5 '5 " 0, <>1.'5.' / > / .'?1 <; .'> #,05.<508 4; ; , / ?'J<" >'<6 5.' - ,V'J.' =< 5 .<71.?1 7 / / >> '7. / .<7 '?1>68 .7- <7 '<' <, ; .1 > 5< 70 '11 ->.'>.' 8 > 17, 6 > 1.6>.' ' ' <6 =4.'6,< <7.<5 ,<>.' - .< 1641 5. > ' / ??1>6>.' .'16 ' ' 0.67>6 / ?>1 '5.' .7 ?1466 .<<.% ;74.55. / .<7 %>.K, .67 1.5,41<>'>.' 1.6>.'> K.15 <% ,EE 5 .]7 ?7.6=4.'?, =, . ' / .<7 ; ,<<4 ?, ,1 .0'1J> >.6 'EE' 1.6 >.6 ?1 <; .6 E1'<=' 6 1. 1>6 .< 5 . / 'J<.% #.?.<>'<7 ,< >,47.'J><>1'5. / .<7 =4.' ; .6 ?1 <; .6 .75.6 '471.6 . / J1'<76 .416 ; , / ?'71 ,7.6 - , .<7 .->< . / .<7 1>?,<>-.'7,47 > E' 7 '< J1'<> .6?, 1 =4 56 ,<7 E,<> 641 ;>77.' .<71. - 4.'>.' 5< 70% ,< ; ,<' - .<7 =4.' ' 5.0> .' .7 '1>.41 ' - ' .<7 7,<0,<16 4< 64.;>6 ; , / ?5.78 %5. ; , / 7.> 17, 6 '41' 7?41.<>1.'5.6?546J1'<>" .1- ; .6>7" ; '46.' =4 5 " . / 01'66>.% #.'?1 <; .' " / ,<71> >'<6 5.6 > - .16 .<71.7 .<6 '4@=4.76 5 " '66 67>7,<7 .E.4 .75" - - ' ; 7>=4 7.' ; '1' ;7>1 6.<78 ' <6 =4.'7, ,5.'5"?1, / ?M 7 74>.'?,66 05.'> - ,45, 1 .@U;47.1 5.6 ?1,0.76 E,1 / ' ?,41 .EE. ; 54.1 .< H1'<; .'4< .' ; ,<71. 1>1,5< ,< ?'15' - , .>.6 '1 / .65 / ' 6 >'<6 ; .6 , ; ; '6 ,<6 5.6> 5 ;4 .6 6.'>>- .57=6 ?.<7 > / .641.=4.' ,< '??1,E,<> 5 5.6 ?5'<6 5.6 ?5=6 E' ; ' 5.6 .75.6 / . @ ; ,<..17>6 .< '??'1.<; .% ,< '6641.'=4.' % 5.' ; , / 7.'> 17, 6 ' - ' 7 .4 54 / > / .'5.'>.66. < >.' - .' < 1 > K.15 <8 .7 5.' / < 671.'> 6?'J<.' ' - ' 7 >>0> '11>7E' ?,41 54 '>.6 '??'17. / .<76I / ' 6 5 - .<7 >= 5.6; ,451. / '<' >.18 .7 6,< - ,V'J.' > 5" ; <1 >W 1466.'< '41" ?'6 ?546 5 .4 =4.;.54 =4 5>.-' 7 E'71.'?,41 '66 67.1 '4 ; ,41,<,.' / .'7>.' 1'J4.%

'* ' (' ' ' '8 ' 'F F ' ' & '

T .' '1 68 5.' *6.?7. / 01.' (* %

->E.66 .4168 ' ;1, 6 =4.'0.'?4 6 1.J'1>.1 / " ; '11 >1.' ; , / / .'E < .% ' - .<6 - ,46 ?1 .1>.'1.; .- , 1 / " >> / 66 ,<% " ; ,<67 747 ,< .67 ' ;0.->.8 6,5.<<.55. / .47 >.;1> >.I .Pc.' .67 ' ; ; .?7>.'?'1 5.'1, % #, / / .<.>.'6,46 / " ?1>6 >.<; .80 ' ' >> 5" - , 1 7.1 / <.18 .7 ' ; ; , / ?5 1 / ,< 6.1 / .<7 ' 60 ' ' 0.6, <> 4< 1.?,6 =4.'5.6 E,<;7 ,>6 >.' / " ?5' ; .'<.' / .'?.1' / .7 .<7 ?'6% .?4 6 5,<J7. / ?6 / " 6'<7> 6 '57>1?% ' ' .4 ?546 .416 <; , / / ,> 5>6 ; .77.' '<<>.I .7 =4, =4.8 >'<6 ; .6 , ; ; '6 ,<6 / > / .680.'< ' .'?'6 / '<=4>'4 71' - ' 58 5.< ?.'7 1>6457.1 ,<.' <7.114? ,< <4>.6 1.7'1>6 >'<65.6'E %

E'51.6% '5.'>` 1U97 .'47 5.'.7>. 1. / ? 1' / .6'>. - , 16 / "
6,47.<77 >'<6'W<.' ', <6 7>' ; ,<7 ?4. 'W. .' '; 6 7> / .<.'
>?4 6.8' .7 Q.6.<6' _& ;' / .7 E,1;.6' > / 64.47% .'>. / '<>.'
>,<.' '-. ;' <67'<;.' ' / .6' . ,<; 7,V.<6' 5.'1.?,6' =4 ' / .67
<> 6?.<6'05. / .<7<>. .66' 1.% 'Q.' < ' '?'6' ';: .-#5.'7. / ?6'
=4.' 5" 5, ' >,<<.8' Q ' ' '< / , <6' 1. / ?5 ' 7,47 .' 7. / ?6'
=4 .55.' .1 J.8' ' ' .@;#>#5.6' >.4@ '<6' =4.' ?, 17.<7 5.6' >#'
;1.76I' .78' ?.<>'<7 ;. 5.'>41#.8' Q ,6.' '6641.1' =4.' / ,<' >#'
-,4. / .<7 ' #7.' ;, / ?5.1%

.6?#1.' =4.' 5.' ;,1?6' / 4< ; ?'78' .<' 1. . . -'<7 / ">>'
/ 66 ,<8' ,4>1" 05.4' / ' ; ; ,1>.1' 6.6' 0,<7#6' .7 ; ,<6.11.1'
=415=4.' / > / , .' .7 >4' ?1. / .1' / ' 1.'>.' '1 6' .7 > <<'
' / '>.' 5" .7' ,6.' ?4055=, .% .4 57.@8' / .66E.4168' ; ,<-,=4.1'
5.6' 6.;7 ,<6' ?,41' 5 "<, / <'7 ,<'>4<' / ' 1.8' .7 > 1.' 0' / .6'
; , ; 7,V.<6' =4.' 5.6' 7# / , J<'J.6' >.5.416' 0,45>6' .7 >.'
5.41' .67 / .'6,<7 J1'-.6' >'<6' / ,<' 6,4-.< 1I' =4.'Q ' '1. / \'
5' / ,<' >.-, 1' .<-.16' .4@ '-.;' ' / ,41I' =4.' / ,<0#5;'?,41'
"?'51 .'< "?, <7 ; .66#8' / ' 6' =4.' ^.' 1. / .76d0' >.6' / '<6'
?546' :'0 5.6' ,<.'?5' ; . ,0' ,<' < .67 0. ,1.4@' =4.' =4'<>' ,<'
?.47E' 1.5.' 0 .<8' 4<.' ?5' ;.' # / <.<7. ,0' ' / 0 7 ,<' <.'
/ '<' ; ,<>4 7 <'1.7.<48' .7 , ' Q.'6.1' 6' 1.67#' 6'Q '-' '
.<; ,1.'5" E,1; .' .7 5.6' / ,V.46' <#; .66' 1.6' ?,41' 3'>71.' 47 5.8

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5 + ' ," -(* 0( ).(/',(4" -(" * $*+,$ *" $$$3$!'
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< ; ? 7.'7

'1 6'8' 5.' C '6.?7. / 01.')* 8

' .66 .4168' 5.6' >>?47.6' =4.' -,46' / '-.0' E' 7 ; ,<<.41'
>.' / '>1.66.1' / ,<7 ,06.1-.'>.' -,71.'?'17=4.' <7.1.7 ?4M
05 ;'>. / '<>' 7 =4.' / ">. / 66 ,<' <.' E 7?'6' >,<<#.'>'<6'
;.' / , / .<78' .'<.'6' 6' ?, <7 1#6' 67.1' '4' -W.4' >4' ; ,1?6' / 4M
< ; ?'5 8' ?,41' =4 ' Q.' ; ,<6.1-.1' '7,4Q,416' 4<'7.<>1.'1.6'
?.;71' .78' ?,41V1' >.E#1.18' Q.'1.7 1.'5" >. / 66 ,<' =4.'Q '-' 6'
?1 .'5.' ; ,1?6' / 4< ; ?'5'>' ; ; .?5.1% .' "1.7 1.8' / ' 6' .<5.'
64??5 '<7 >.' 71,<-.1' 0 ,<' =4.'Q.' >. ;5'1.' =4.'Q.'5"1.>,<'
4.1'5' 0' 5" ' <7 '17 <' ?1, ; :' <.8' '<' / , / .<7 >.6' .5.;M
7 ,<6' '<44;55.68' 6'<6' =< '4;4<.' ; 1. ,<67'<; .' <' '4;4<'
/ ,7 E' ?4 66.<7 / .E' 1.'?'66.1' ; .'7.1 / .8' '4=4.5 / .6' E,1;.6'
?:V6 =4.6' .78' / ,1'5.6' '41,<7?. <.'0' '75.5<>1.% .'6,?75 .'
5.' ; ,1?6' / 4< ; ?'5'>.' -,45, 1' 0 .<' ,1>,<<;1' <6.15 ,<' >.'
; .77.'5.571.' .7 >.' / "5.41.' >4' Q,41' > 0 .1' >'<6' 5.' ?1, .#6'
-.10'5%

" .' / , 1.' '8 A' J<>' 'E

8 ' ! ' ' ((' ,' ' ' 'G '
' '- ' ' ' ' A

" , ; . .'>.6' / 6' >.' 5" #,<67 747 ,<8' ; ,<-' <;4.'>.'
5" <#; .66 7.' >.' 1.?'<>1.5.654 / 01.68' >.'5.6' / .771.' 0' 5"
?,17. .' >.' 7,46' 5.6' ; ,V.<68' .7 ?'17 ;45 E11. / .<7 >.' ; .4@ 0'
=4 '5.416' , ; ;4?'7 ,<6' Q,41<'5 #1.6' <.'?.1 / .77.<7 ?'6' >.'6.'
5 -1.1' 0' #74>.8' '?.<6# =4 4<' >.6 / ,V.<6 .6' ?546' ?1, / ?7G'
.75.6' ?546' . K; ; .6' 6.1' 5' > '57' ; ; .1' >.6' <6714;7 ,<6' > 4 '
J.<1.'6 / ?5.' .7 E' ; 5.6' 0' 64 6 1' 084<' ,4-1'J.' >,<7 47 5 7.'
?,41' 5.6' 46'J.6' 5.6' ?546' ; , / / ,<6' >.' 5" - .' 1.<>' ' ;=4 '
6 5 ,<' ?1.6=4.' <> 6?.<6'05.%

<' ; ,<6.=4.<; .8' .55.' ?1,?,6.' 4<' ?1 @' >.' C '5,4 6' ?,41'
5.' ; 7,V.<' =4 ' 54 ' ?1#6.<5.1" '5 / '<' ;0' 5.' ?546' ?1, ?1.' 0'
1. / ?5 1' 6.6' -4.6%

#.7 '5 / '<' ;0' < .@; .>.1" ?'6' ,<.'E.4 55.' .7 >. / .'> / '
?1.66 ,<8' <,<' ; , / ?1 6' 5.' ; '5.<>1 .1%

' .67 <47 5.'>.' ?1#-.<' 1' =4.'5.' 047 ?1 <; ?'5'>.' ; .' / ' '
<4.5' ?'71 ,7 =4.' .67 >.'E' 1.'0 .<6.<7 1' 5.6' '-'<7'J.6' >.'5"
; ,<67 747 ,<8' ,7 > .<' 1.<>1.5.6' ?1 <; ?.6' E' / 5 .16.7; : .16'
0' 7,<6' 5.6' : , / / .6%

.6' ,4-1'J.6' 6.1 ,<7 '> / 56' Q<6=4 '4' ' ,7,01.' .@; 5,6 '
-. / .<78' .6' '47.416' <.' E.1 ,<7?'6' ; ,<<'571.' 5.416' <, / 68'
/ ' 6' 76' Q, ,>1,<7 0' 5.41' / '<46;157 4<.'>.- 6.8' '-. ;' 4<'
0 55.7 ;' ; : .7# =4 ' ; ,<7 .<>1" 5.41' <, / 8' .7 =4 '<.'6.1" .4 '
-.17 =4.' >'<6' 5.' ;66' ,0' ,4-1'J.'10 / ?, 17.1" 5.' ?1 @8
5 ' E.1,47 1. / .771.'5.41' / '<46;157 '<' 6.;1.7'1 '7>.'5'

, . >5>8' / .' ' <7 ,<,108' '<. .<<.'<' , ">.6' ' ; ,0 <6%
' .'?7 @%6.1" ?1, ;5' / 0' 0' 5" 60'<; .'>4' C*' , .7,01.%
8 SJ<0 ; 6'. '8' 5' K, - ' '8' & ' ' '
/ .'7 ' '0, 5' ,746 Q ' 4??' ' '
, /C ' ' ';K 8' B ' ' A

64<" , " ' ,'<7 7 ' ,'6' ,>?, 06' ' ' (
0 %

'8

% 34'71. / 01.'>.' 34 <;VI' K,6;'1 8' 'J.<7 >.' ; : '<J.%

' 'G, 3

8' K,6.8' Q4J.'>4' 71 04<'5' > 6?'5 .1I' % #,<67'<6'
' <7 670-.8' >.' ' <7 . / <8' / . / 01.' >" > 1. ;7, 1.>4'
>#?'15. / .<7I' K,8' / 0>.><8' ?1, ;41.41 6V<> ;'>4' > 671 ;7
>. 41. >. K'1106I' ,J'1.7 &>.' ' <7 '41.<7P8' / . / 01.'
>4> 1. ;5, 1.' >4' >0?'17. / .<7I' ,16'7 &>.' 55.E1'<;0.P8'
?1, ;41.41' J.<01'5 6V<> .' >4' >#?'15. / .<7I' / '48' / ' 1.'
>.'5" - 55.'>.' K0,>.0I' , / .1' &>.' ' <7 <7_/ <P8' : , / / .'
>.'5,7I' K,410068' / ' 1.'>.' : '4%

1 ' ' #>7.6 >4 ,1>%

8 ' ' ' % 45 .<' 'H1'<E S'
'5'6<. #: ' / ?.'4@8' >0?470' 0' 66. / 0 0.' <'7 ,<'5.%
' ' ' 8' 45 .< B.<1V' ' '5,' K.6<.'
' :'47.- 55.%
% !! ' % ! ,415'V8' ; , / / .'>.'5, 8' ?1, ;41.41 6V<> ;'
>4' > 671 ;7>.' ' <5 K1 .4;8'
9 ' 8' K,47 .1 55.J'78' ; , / / .'>.'5, 8' '>'
/ < 671'7.41' >4' >0?'17. / . ,7I' .1.65 #1 .5' / ,75. #,5'68'
'> / < 671'7.41><' > 671 ;7>.' ' / 0'55.%

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+.$'/ BT' ,(4,( ).(

'0(* *'Q#(' $.+' +0+(' - (./ *'$(./ -+*"0 ,.('
A .*+' -('3(' ./D.(24 '-' ' 3($*3,'5 ('0 "#+$,("-('3('5 $'
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' , ; 70' .6' / 6' >.' 5" #, ,67 747 ,<8' >.' , <7.5 / "
<.'1. ; .-1" ? <68' <' ' '>1.66.1" ?546' >.'?' =4.76' =4 '<.'6,0'
'EE51'<; : 6%

0" ' =

1 ' ') ' ' ,4' <'5V6.' .+$'(**-('
4.$*3$4+ 2' 0.+9(" #.+*5+$" (,'), .+*9(.'/' ' .' +' 4 $,$5 ('
(*' 9(*) .+ / +' (9$' +,$ */ (" *+* ('/ +' 4 $3('/ %+9.$3 !'
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_ 17% .6' ?. <.6' 9<,<; .6' >'<6' ;' 5.' ?,411,<7' 71.' <E5 J..6'=4.'?'1'Q4J. / .<7'>.'5'' ;, 71' 1<'17 '5.%

& ' ('--$,'' $$,+$.('3 $'-+*'' ('4 .,''3,' +.'(*+ 2''(.4*,' 9(''(*'3 *# . $,8'F '-83.(,-+'WB' + #$,'BHTI/'3 *3(.*+*,' ('-($,'' .' ('0+$''(+ 27'(,' -+*'' ('3+'' * *'4.(0 ''4+.'&3'--3.(,/' *'-+*'' (' %3+''-('4($*('f 5 $ *('$,(.+$(*,'4+'' -('*+, #('+' -,#(' (2-3+,>''+',(..(/' *'+ .+,(3 .''+ 2'--(.(,'' .(*!' - '' *'+' .(*-.('4 .' ('--$,'!-(',. 4(''-(',(..(

W 5E% ,47' :, / / .' ., <-' <;4'> 4<' -,5' >.'5'' V'' ' 5.41'>.'9'5 -%.7'4 >.66,466.1'' ;,<>' / <.''4';'1;'<8' ''4<.'' / .<>.'71 ?5.'>.'5''-'5.41'>.'5'' ;: ,6.'-,5>.8' .7' ' .@?456 ,<' >.' '16.<'5%' '<6'7,465.6' ;'6>.' -,5' ,<'5'1; <8' ';;46>'6.7'' ;,<>' / <>' ''5''1.67 74M 7 ,<'>.' .E5.7' -, >%

$ % ' 5''-'5.41'>.' .E .7' -, >' .@;.>.' 9' 5 -%8' ';;46.'6.1'';,<>' / <>' '5''>>J1 '7 ,<'; 1 =77.8''4' ;'1;'<' .7' '' .@?456 ,<'>.' '16.<'5%

$ % ,16=4.'5.'-,5' '41''>7>';, / / 6' , ' E'-,1 6> *'1'>.6' ?.16,<<.6' 6?>; '5. / .<7;:'1J>.6' >.' -. 55.1' 5'' ;,<6.1-'7 ,<'>.6' .EE.768'7.56'=4.'J'1>.6 / 'J'' ' 6 <68' J'1> .<6' >.'-' 66.'4@8' / '771.68' ;,<71. / '7' 71.68' ;, / / 6' > '>/ < 671'7 ,<' . / 0'1=4'<768' ;,1<' / 6' >.6' - -1.68' .7' '471.6' ;:'1J>6' > 4<' / '< . / .<7' '> 4<' >>?>78' 5''?. <.'6.1'' ;.E5.'>.'5'' ;:' <.'?,41' 6 @''<6%

_ % '' / > / .'?. <.''41''5 .<' ;.<71.'5.6' 64 66.68' J.<>'1 / .68' J'1> .<6' .7' . <6 J<.6'=4 ''41,<7' ;, / M / 6' ?'E'-,1 6.'5.> 7' -,5%

$ % ,<6' -,56' ;'1';7.1 6>6' 6.1, ,5' ?4< 6' ' <6' =4 5' ''>7>'>.;1.7>'>'<6' 5.';,>.'J><.1'5'>.6'>.5 76' .7' ?; <.68' '4'7 71.' '>.'5'' D 6.;7 ,<8'>'<6' 5.6'> 6?,M 6 7 ,<6' '??5 ;'05.6' '4@''16.<'4@'I' >.'7.55.' 6,17.'=4.' 5''?. <.' >.'5'' ;:' <.'?1,<,<;>.' ?'1' ;.' ;,>.8'>'<6' 7,46'5.6' ;'6',:'5.'-,5'6.1'' ;, / / 6>.'4< 78' '-.;''1 ' / .68' E'466.6' ;5.E68' '771,4?. / .,78' .EE1';7 ,<8' .7' '471.6'; 1;,<67'<;.6''JJ1'-'<7.68' 6, 77,4Q,416'4J ' / .<7. .'>.'71, 6' '<<. .6' Z<'646'>,'<, / 01.'>>7.1/ <>' >'<6' 5.> 7' ;,>.8'5,16=4 5' '41'' .7>';, / / 6' '-.;'5.6' / > / .6; 1;,<67'<;.68' ?'1' 5.6' ?.16,<<.6' >.6 J<>.6' >'<6' 5.68''17 ;5.6' ' .7' 5'; >.6646N'7,45.E, 6'5''>41..' >.'5'> 7.'?. <.'<.'?,411'' .@;>>.1'71.<7.'' <68' ''1' M 6,<' >.6> 7.6' ; 1;,<67'<;.68' .< =4.5=4.' <, / ?1.' =4 .55.6' 6.'71,4-.<7' 1>,< .6%

$ % .6' / '571.68' ;,<71. / '771.6' .7' ,4-1 .16' =4 '6.1' .<7' ;,<-' <;46'> '-, 1'E'01 =4>'>'<6' 5.416' '7.5 .16'>.I' ,4-1'J.6' ?,41'5.41' ;, / ?7.'6.1,<7' ;,< ' >' / <>6' '4@' / > / .6' ?. <.6' ?1,<,<;>.6' ;.<71.'5.'-,58' 6' 5'' / '7 .1.' >.6> 76' ,4-1'J.6' .67' 1.;,<<4.' '-, 1' .7.'?1 6.' >'<6' '16.<'5I' .76 ' .55.'5.41' '??'17 .<78' 56'6.1,<7' ;,<>' / <>6' ' ?.1>1.' ;.' =4 ' ?,411'' 5.41' >71.'>E5' .<' '??, <7. / .<76' ,4' .<'Q,414>.68' .7' ''> 1.' 1;<-,V>6'>,'6.1- ;.%

' ''% ' '4;4< >.6' .<71.?1.<.416' .7' / '571.6'> ,4 ' -1'J.6'>'<65 '16.<'5' .7' 7' .,<-' <;4'> '-, 1'64067 ' 5 >''4@' / '7>1.6' ,4' / '1;:'<> 6.6' =4 '5.41'6,<7>. ' 5 -1..6' >4' / 4J'6 <' J.<.1'58 ?,41' >71.'E'01 =<>.68' > '471.6' / '7 .1.6' > 5 / .' / , <>1.' -'5.41' .7' =4'5 7.8' 5' 6.1'' ;,<>' / <>' '4' ?'V. / .<7'>.' 5'' ?7<6 -'54.8' '' 4<.'' / .<>.'=4 '<.'?,411'' .@;.>.1' ' 5 -1.68' .7' '' 5''>.J1'>'7 ,<' ; - =4.%

$''% ' .67' >>5.<>4' ' 7,47' / 'E71.' >7' '471.6' ' 5'' 6,5>.'>.' 7'7' >.'1.;.-, 1''4>4<.' .6?>..'> <7>1>78' ?1.6.<7' ,4'J1'7 5 ;'7 ,<'>.'5'' ?'17' > 4<'.<71.?1.<.41' ,4' E,41< 66.418' 5,16=4.'5.41'E,<;7 ,<' ?,411'' <E54.1' 641' 5.' 0><>E ;.' >.%5'' E,41? 741.8' '' ?. <.' > <<.' ' / .<>.'=4 '<.'?,41 1'' .@.>>.1'5 3'5 -1.68' > 4<' / , 6' >.' ?1 6,<8' .7' > >71.' 1.<-,V>'>4' 6.1- ;.I' #7' ;.<71.

5.> 7' E,41< 66.41' ,4' .<71.?1.<.418' =4 '5.41' '41'' ' ';:,1>>';.7' '-'<7'J.' 55 ; 7.8' 7E4<.'' / .<>.'=4 ' <' ?,411'' .@.>>.1' ' 5 -1.6%

W '' '#.4@'=4 ' 71,405.1,<7' .7' ;, / ?1, / .771,<7' ' 6.1- ;.'?'1'>.6' > 6;,416' 6.> 7 .4@' 6.1,<7' ;,<>' / <.' ''5'' J><.'?.<>'<7' 4<' '<' I' .7' ;.4@' =4 ' 6.' ?,17.1, ' '>.6' ';7.6'>.' 1>-,57.' .1,<7' ?4< 6' >.'6 @' '<<>.6'>' ;:' <.% ''?. <.'6.1''>,405.';.<71.';.4@' =4 '6.1, ' ;,<-' <;46' > '-, 1' .@; 7>' 5.6> 7.6' 6.> 7 ,<6' .7' 1;' -,57.6%%

$' '' 5% .6' -, .6'>.'E' 7' ;, / / 6.6' .<-.16' ,1>, <'7.4E8' 5.6' ;:.E68' 6,46 ;:. 6' .7' '471.6' 64?>1 . 16' 6.1,<7' ?4< .6' ?'1' ; <=' '<6' >.' J><.' '4' %?546' .7' > .@?456 ,<' >.' '16.<'5%

8' W .6''471.6'';7.6' > <640,1> <'7 ,<' =4 '<.'?,17' 1.<7' ?'6' >.' ;'1';7.1.' J1'-.'6.1,<7' ?4< 6' ?'1' -,' >.'?,5 ;.%

$'' % #.4@' =4 ' '41,<7' E'56 >' ,4' '57>1>5.61;' J 671.68' 145.68' =4 77'<;.6' .7' '471.6' ?'? .16' >4'6.7' - ;.'8' ,4' =4 ' '41,<7' E'01 =4>' ,<' E' 7' E'01 =4.1'> E'4@' 1>5.68' E'466.6' =4 77'<;.6' .7' '471.6' ';7.68' ,' =4 '5.6' . / ?5, .1,<7' '' 5.41' ?1,E 78' ,4' .< <' =4 '64?' ?,6.1,<7' .EE.;7 E68' '4' >.71 / .<7' >.6' >.< .16' >.' ' <'7 ,<8>.6' :, / / .68' >.6' / '7 .1.6' .7' >.6' 6, / / .' <,<' .@ 67'<768' 6.1,<7' ;,<>' / <>6' '' > @' '<6'>.'

W'' % #.4@' =4 '6.'?1.6.<7.1,<7' '4@' ' ' ;5'66.68' .7=4 ' ?1.<>1,<7' E1'4>45.46. / .<7' 5.' <,<' > 4<' / '1 <' . / ?5,V.' 641'%5.6' -' 66.'4@' >.' 7'7' ?,41' 6 '??1,?1 .1' 6.6' 6'5' >.68' ?'176' >.' ?1 6.8' ,' '471.6' 6, / / .6' '' 54 ' 1.-.<'<78' 6.1,<7' ;,<>' / <>' '4' ;'1;'<' .7' '' 5'' ?1 6,<' ?.<>'<7' 4<.' '<<>.% ' / > / .'?. <.''41'' 5 .4' ;,<71.' 7,46' ;.4@' <> 67 <;7.' / .<7' =4 ' '41,<7' .4' ?'17' '' ;.'E'4@8' 6, 5' .<' '77.67'<' >.<7 7>>.' :, / / .8' 6, 7' .<' ;,<;,41'<7>.'7,47' '477.' / '< .1.'' <E >.5 7.'>4' E'466' 1.%

W'' % .1,<7' ?4< 6'>.' 5'' / > / .' / '< .1.'5.6E'4' ;1>'<; .16' .7' 5.416' ;, / ?5 ;.68' =4 ' . / ?5, .1,<7' >& / ,V.<6' E1'4>45;4@' ?,41' ;,<67'7.1' 5.41' ?1>5.<>' 7 71.'' >J'1>' > 4<' / '1 <' / ,17' ,4' '06.<7%

$'' 8' ' .67' >>E.<>4' 8' 6,46' ?. <.' > >71.' / 6' ' J><.'?.<>'<7' 71, 6' '<6' 8' >.'E' 1.'>4' E.4' >'<6' '16' < '58' 6' ;.' < .67' >'<6' 5.6' 041.'4@' .7' '471.6' 5 .4@' =7' 6.1,<7'>.7.1 / <.6' ?'1' ,1>, <<'7.418' ?,41' 5.6' 0& 6? <6' <> 6?.<6'05.6'>4' 6.1- ;.% '' / > / .'?. <.''4' 5 .4' ;,<71.' ;.4@' =4 8' >7'<7' ;, / / 6' ?,41' -. 55.1' 5.I' > 56E.4@8' 5.6' =4 77.1' .<7' '-'<7' =4 56' 6, .<7.<7 5' 1. / .<7>7. <76%

$'' % .6 >.5 76' ;, / / 6' ?'1' 5.6' 0'6 ,EE ; .16' >.' J'5>1.6' .7' ?'1' 5.6' E,1 / '76' ;,<7 <4.1,<7' > 71.'?4< 6' ;' ;,<E,1 / 7.' >.6' 1.J5. / .<76' 1.<>46' ?,41'5'' ?,5 ;.'' 5'' Q467 ;.'>.6' ;: ,41 / .68' '-.; ;.77.'6.45.' .@;.?7 ,' =4.';:'=4.'.-'6 ,<'>.'E,1;'76' 6.1'' ?4< .'6.45. / .' ?'1' 71, 6' '<<>.6' >.';:' <.'>.' ?546' ?,41'5.6' E,1 76' 7.1 / .8' .7' ?'1' '??5 ;'7 ,<' ''5''>,405.';:' <.8 ?.<' >'<7' 5.' / > / .' 7. / ?68' ?,41'5.6' E,1 / '76' =4 ' 6,<7' '; 74.55. / .<7' ;,<>' / <>6' '' - .%

W'' 55 % '1.J'1>'>.6' '471.6' ;1 / .6' ,4' >>5 76' <,' ?1>-46' ?'1'5.'?1.6.<7' >>;1.78' .7' =4 '6.1' .<7' ;, :/ ' >'<6' '16.<'58' 56' 6.1,<7' Q4J>6' ;,<E,1 / . / .<7' '4' > 6?,6 7 ,<6' >>;1>7>.6' ?'1' 5.' ;,>.' ?><'5' >.6' -'6' 6.'4''Q>4' C ' ',E 7' (* 8' ?'1' 5.' ;,>.' J><>1'5' >.' ?. <.6' .7'>.5 7 8' .7' 5.' ;,>.'>.'5'' ?,5 ;.' ;,11.;7 ,<' <;55.%

$' '' ''% .> 7' ;,>.'?><'5' >.6' -' 66.'4@' 6.1'' >J'5;' / .<7' 64?? >8' ?,41' 5.6' > 6?,6 7 ,<6' =4 '< V' 6,<7' ?'' ?1>-4.68' ?'1'5.'?1>6.<7' ;,>.' .7' ?'1' 5.' ;,>.' J><.1' >.6' ?. <.6' .7'>.076%

W'' ''% .6' '17 ;5.6' ''' .7' '' ''' >4' ;,>.' ?><'5' >_' -' 66.'4@' < .7'<7' =4.' ?1,-6, 1.68' .7' .<' '77.<>' ;' 5.' ?1>6.<7' >>;1.78' 6.1,<7' 64??1 / >68' ' <6 ' =4.5;' >16?,6 7E,'6' ?>;'5.6' >.6' '<; .<<.6' ,1>, <<'<; .6' 1.' 5'7 -.6' '4@''7I6.<'4@%Y

+7' % / / .1V' ?1>6.<7.8' '4'<, / '>4' ;, / 7>' / 5

[illegible]

>.'<,7' 1.6?405 ;68 .7'<1,<75.'>1, 7 > .@.1;.1'>'<6 7,47
.'> ?'17. / . 7%
W" % H'47.'?'1'5.6>76 <,5' 1.6 > '-, 1'1. / ?5 8 >'<6
5.> '>.5''> 4< / , 68 5.6 E,1 / '5 7>6 ?1.6;1 7.6 ?'1'5.6 '17 M
;5.6 " ' .7 " 8 5.416 ?5';.6 6.1,<7 1 ?<7>.6 -';'<7.6Ɩ .78
> 6 5.'Q,41' / 7, .'>.'1.6?'1'7 ,<>.';.'>.5' 8 56 ;.66.1,<78
>'?. <.'>.'E'<6 .7 >.'<45 7.8 .@.1; ;.'?1,- 6, 1.'>.'5. 16
E,<;7 ,<6%
$ ';, / / 66' 1.'>71'1, ' .<>,<<.1" '- 6 'Y'>1.;7, 1.'
>4'>.?'17. / .<78 ?,41'=4 '6, 7 ?,41-4 '7.'1'1. / ?5';.'
/ .<7%
W" % ,16=4.'7,<6 5.6 <,5' 1.6 >.6 6.;,<>.'.7 71, '
6 > / .';5'66.6 <6;1 76 ?,41' , ;;4?.1'>.6 ?5';.6 >.'<,7' 1>6
?405 ;6 6.1,<7 ?5'#>68 ,4' 5,16=4.7 < 'V'<7 ?'6 ?4' >71.'
>'<6 5.6 1.6 >.<;.6 =4 56 '41,<7 >.6 J<..68 76 < '41,<7
?'6 E' 7 >.'>.6 J<'7 ,< <,4-.55.8 6 V' " .<;,1.'>.6 ?5';.6
-';'<7.68 5 V' 6.1" ?,41-4 64 -'<7 5.6 E,1 / .6 =47 -,<7 > 1.'
> '07 .6 ?'1'c.'5 71.' '>.';.'>>;1.78 \
$" "% '<6; '=4.'>>?'17. / .<78 '?1>65.'?5';. / .<7 .7
.7'05 66. / .<7 ;, / ?5.7 >.6 '<; .<6 <,7' 1.6 .< =4'5 7>'>.'
<,7' 1.6 ?405 ;68 ;.'=4 '6.1" '<<,<;>'?'1'4< '-.17 66.1, .<7
=4.'5.> 1.;7. 1.' E.1" ?40 .1' .7 'EE ;E'118 7,<6 5.6 <,7' 1.6
>.'5" 6.;,<>.'.7 >.'5" 71, 6 > / .';5'66.'=4'< '41,<7 ?'6 ?<
>71.' '>1, 6 >'<6 5.> 7 >7'05 66. / .'7 ; .66.1,<7 .@.1; ;.'
?1,- 6, 1.'>.'5.<16 7,<.7 ,<6Ɩ .78 >4'Q,41' , 5 '-.17 66.'
/ .<7 >4' > 1.;7, 1.' '41">7>'?405 ;'>'<' ';' '.4<.'>.6 1.6 M
>.<;.68 ' '?,411,<7 ?546 1.;.-, 1''4;4<6 ';7.68 2'?. .'
>.'E'4@.7 >.<4 5 7>%'

7 / ' %

'(' ' ' ' *ZH' ' ' +

W 17% F%' .6 / <47.6 >.?.<>'<7 >.6 ,EE ;.6 >.'<, '
7' 1.6 1 V'4@ .7 '471.' 64??1 / .6 ?'1'5.'5 71.' S '>.' : '
>.;1.7'.1,<7 / 6>" .<'5" J'1>.'>. "<,7' 1.6 ?405 ;6 . '05 6
>'<6 5" 1.6 >.<;.'5" ?546 ?1, ;.' <.'>4'5 .4' >.'5.41'>.?#7
';54;5%
Y % <;,<6.=4.<;.8 5.6 / <47.6 ';74.55. / .<7 ; .<6.1'
-..6 >'<6 >.6 .4" , ' 5 6.1" .7'05' >.6 <,7' 1.6 ?405 ;6 <.'
?,411,<7 .4'>71.'>.?5';..68 .7 ;.55.6 =4'6.' 1,4-.1,<7 ?'1'
7,47 ' 55.416 6.1,<7 ?,17.>'>'<6 5.' ?546 ?1,;' '< ;.:E'
5 ,4'>.'1.6 >.<;.'>.'<,5' 1.'?405 ;8 .< 64 -'<7 ';.7 &
5" >. / '1;'7 ,<'?'1';'<7,<6%
$ % ';.7 .# .78 '?1>6 =4.'5.'> 1.;7, 1.'>.' '>/ < 6'
71'7 ,< >,'>#?'17. / .47 '41" E' 7 ?405 .1'5.'7'05.'4' >.6
<,7' 1.6 ?405 ;6 >.';0'=4.'1.6 >.<;.8 5.'> 1.;7, 1.'>.' '>'
/ < 671'7 ,< >4' > 671 ;7 >1.66.1" . '7 >.6 '<; .<6 ,EE ;.68
6, 5 >4'5 .4' / . / .86, 7 >.6 5 .4@ ; 1;,<-, 6 <68 >,<7 5.6
/ <47.6 >, -.<7 71.' 1. / 6.6 '4@>76 <,7' 1.6 ?405 ;68 .7
'>1.66.1" : .7 .7'7 '4' ; , / / 66' 1.'>4' ; '>,'71 04<'5%
$ 8 .6 <,7' 1.6 1,V'4@ .7 '451.6 >.1.<46 <,7' 1.6
?405 ;6 >'<6 5.'5 .4', '5.416 / <47.6 >.-1,<7 1.67.1',<>1.'
'??,17>.6 .< #,<6.1-.1,?7 .@;546 -. / .<75.'>>?>7%
W % .6<,7' 1.6 =4''701,<7;.66>'> .@.1; .18 , '=45'41,<7
7.'?5';.6 >'<6 ,<.''471.'1.6 >.<;.'=4.' ;.55.', '5.416 / M
<47.6 >, -.<7>71.' >?,6>.68 ' <6'=4.'5.6 0>1 7 .16 >.6 '<M
; .<6 7 7?5' 1.6 >#;#>.68 ?,411,<78 >'<6 4< / , 6 ';, /M
?7.1' >4'Q,41' >.'5" <,7 E ;'7 ,< =4' 5.41'6.1" E' 7.'?'1'5.'
;, / / 66' 1.'>4'1 >8 1.EE5.771.' .6>7.6 / <47.6 ';. 4'>.6
<,7' 1.6 ?405 ;6 =4 56 Q,J.1,<7 '?1,?,6 >.' #0, 6 1'?'1 / '
;.4@.7'05 6 >'<6 5.' ;.:.E 5 .4'>.'1 >.<. . ', '5.6% / <47.6
>.-1,<7>71.''??,17>.68 .7 E' 1.'641'5.6 1.;,4-1; / .<7 6 7.55.6
;,<-.<7 ,<6 =4.'0,<'5.41'6. / 05.1'%
E' % '68 '>>E'47 >.'1. / 6.'>'<6 5.';,416 >.';.'>>5' 8
5.6 ?,66.66.416 >.';.6 / <47.6 6.1,<7 7.<46 >.'5.6 >>?,6.1'
<;,<7 <.<78 '-.;'5.]1>?.17, 1.68 .<71.'5.6 / '<6 >4' ?546
'<; .<<,7' 1.'?405 ;'>.';.57.'1.6 >.<;.8 5.=4.5 6 .< ;0'1'
J.1"?1,- 6, 1. / .<7 641'6,4'1>;.? 66>8 '?1>6 1>.,5. / .<7 .7
-.1 E ;'7 ,<%
$ 56 1. / .771,<7 .< / > / .'7. / ?6 4< >'7 >.6 1.;,4-1.'
/ .<76 'E' 1.'641' .6>7.6 / <47.68 .7 6.1,<7 7.<46 >.'-(1
;5'1.1' ?'1' >;1 7 6 56 -.45.47 =4.'5.6> 76 1.;,4-1. / .456
6, .<7 E' 76 ?,41'5.41';0 / ? .8 ,4'6 56 ?1.5>1.<7 .< ,>>.1'5"
?.1; .?7 ,<%
$ % < ?1. / .1';'68 5.6 / <47.6 .7 1.?.17, 1.68 ' <6
7 =4.' .7'7 >.6 1.;,4-1. / .<768 6.1,<7 1. / 68 '?1>6 <,4-.55.'
E -.1 E ;'7 ,<8 ';.'4'>.6 <,7' 1.6 ?405 ;6 >.5" 1.6 >.<;.'=4'
,EE 1 1" >.'6.'> '1J.1' >4' 7,47 .7 > .EE.;74.1'5.6 1.;,41;.

/ .<768 .78 '>>E'478 ,4' .7';'6 >. . ,<.> / <. .8 5" 1. / 6.'
.< 6.1" E' 7.'?'1'5" -, .'>4'6,17%
$ % .6 <,5' 1.6 ?405 ;6 ;.' E>6 >.6 1.;,4-1. / .<76
?,41'5.' ; , / ?7.'>.6 '<; .<6 ?,66.66.416 6.1,<7 1. / 0,7 1'
6>6 << =4. / .<7 >.'5.416 '-'<;.6 ?,41' ?'? .1' 7 / 01>8
>1, 76 > .<1.J 671. / .<7 .7 '451.6 >>0,416>68 6'<6?,4-, 1'
1 .< ?1>7.<>1.'?,41'>1, 76 > .@?>> 7 ,<8 ;,55'7 ,< ,< '4M
51.6 . / ,54 / .<76%
W "% ,16=4.''< ; ,<71' 1.'5.6 '<; .<6 ?,66.66.416 '4 '
1,<5'>.;5'1.'-,45, 1';.>.1'5.6 1.;,4-1. / .<768 5"?,66.66 ,<
>.6 / <47.6 .1" '>Q4J. .8 .4' .J'1>' '4@> 76 1. ; 4-1.'
/ .<568 641' .<;0>1.8 .<51.'5.6 <,7' 1.6 ?405 ;6 >.'5" 1>6 '
6 >.<;.'?'1 >.-'<7 5.' / ' 1.' ,4'5.'?1. / .1' ,EE ; .1' / 4< M
; ?'5%
W 7 <.'< / , <68 6'5.'?1 @>.'5" >. / >1.' .<;0>1.' .67
'4 >.66,776 >.6 71, 6 =>'156 >4'7,7'5 >.6 1.;,4-1. / .<768
5.6?,66.66.416'41,<7 5" E';457>> . / ?>;E'.15 '>Q4> ;'5 ,<8
.< >. / '<>'<7 =4.'5" ?.1;.?7 ,< >.6> 76 1.;,4-1. / .<76
6, 7 E' 7.'?,41'5.41';, / ?7.Ɩ .78 >'<6;.';'68 ,< 6, -1" 5.6
1>J5.6 ?1.6;1 7.6 ?'1'5.6 '17 ;5.6 55 .7 64 -'<76 >4'?1>6.<7
5 71.%
W "% ' >J'1>'>.'7,47.6 '471.6 / <47.6 >.6 <,7' 1.6 =4'
?.<-.<7 >71.'>'<6 5.6 041.'4@>.'7'0.5 ,<<'J.8 >'<6 5.6
J1.EE.6 >.6 ; >.-'<7 Q467 ;.6 6. J<.41 '5.68 >'<6 5.6 '1M
;: .-.6 >.6 ; >.-'<7 6. J<.416 8 ,4' .<71.'5.6 / ' <6 >.'7,4M
7.6 '471.6 ?.16,<<.6 ?1 ->.68 .55.6 6.1,<7 1. / 6.6 '-.;'5.6
1>?.17, 1.68 6 '6 .<71,4-.8 '4'?546 '<; .< <,7' 1.'?405 ;'
>.' "1>6 >.<;.'-, 6 <.8 71, 6 Q,416 '?1>6 5" 6, / / '7 ,< =4'
.< 6.1" ?'1'54 'E' 7.''4@ ?,66.66.416 ';74.568 5.6=4.568 '
1' 6,<>.';.55.'1. / 6.8 <.'?,411,<7 .@ J.1' '4;44'1. / 0,41'
6. / .<7 <' <>. / < 7>%
' %" 8 #.55.6 >.';.6 / <47.6 =4'E,1 / .1,<7 >.6 ;,1?6 .<'
7 .16 6.1,<7 1. / 6.6 ?'1'5" -, .'>4'6,17 '5" J'1>.'>.' 4<
>.6 <,5' 1.6 ?405 ;6>.'5" 1>6 >.<;.Ɩ .78 ' >J'1>'>.';.55.6
=4'6.' 1,4-.1,<7 E' 1.'?'15 .'> 4< ; ,1?6 >.' / <47.6 >>'
?,6>'>'<6 4<.''471.' 1>6 >.<;.8 .5 .6 6.1,<7 / / >> '5.'
/ .<7.<-,V>.6 >'<6 5.'5 .4'>.';.'>>?>7 ?,41'V >71.'1>4< ;6%
$" % ,16 >.'5" >> / 66 ,< ,4' >4' >>.>6 >.6 <,7' 1.6
?405 ;6 '4'1. / ?5';. / .<7 >.6=4.56 5 < V '41"?'6 5 .4'>.'
?,41-, 18 5.6 >> / 66 ,<<' 1.6 ,4'5.6 0>1 7 .16 >.6 >>.>>>6
'41,<7 5" E';<55>'>.'1. / .771.'5.416 / <47.6 ' 4<'>.6 <,M
7' 1.6 ?405 ;6 >.'5" 1>6 >.<;.8 .7 >.'6 '11'<J.1' ?,41'5.6
1.;,4-1. / .<768 >'<6 5.'>>5''>.'=4 <0.'Q,416 ';, / ?7.1'>.'
5" >> / 66 ,< ,4' >4' >>.>6Ɩ .7 '?1>6 ;.'>.5''5.';, / / 66' 1.'
>.'1, ''4?1>6 >4'71 04<'5'?, 164 -1" 5" 1. / 6.'>.6 / <47.6
.<71.'5.6 / ' <6 >4'?546 '<; .< >.6 <,7' 1.6 ?405 ;68 ?,41'
> 1.'?1, ;.>>' '5.41' >>?>78 ' <6'=4 5" .7.'> 7 ?'1'5.6 '1%
7 >.6 8 8 .7 64 -'<76%
W" % ' '-.< 18 >'<6 7,46 5.6 ;'6 , ' 5 V '41"5 .4'
'4'1. / ?5';. / .<7 > 4< <,7' 1.'?405 ;8 >> / 66 ,<<' 1.' ,"
>>.>>>8 5.6 / <47.6 ?'66.1,<7 '6,< 64; ;.66.418 .7 5" 1.M
/ 6.'74' .< 6.1" E' 7.8 6'4E '54'7.4 1' ;, / ?7.'>.6 1.; , ''
-1. / .<76%
"6>'<;.'.67 5.->.'2'71, 6 : .41.6%

' " ' O " ' WB' @" " "

' ' 'N .'1.;, 6 4<.' .771.'>.' % 8;'
/ < 671.'>.' <7.1 .418 =4' '<<,<;.'=4.' % B 4.8
>.Q" >>6 J<>'?,41'5" ; ,<7 <4'7 ,< >.'5" ; ,55.;7 ,<
>.6 ?,176'>.'H1'<;.'?'1' ,6.?:' .1<.E8 - .<7 > >71.'
<,< <.'>>7 < 7 -. / .<7 ?'1'5.'1, '?,41';.'71' -' 5% .'
/ < 671.''<<,<;.'=4.'5.'1, 8 =4' '-' 5'.7>'> 1 J>'?'1'
.67 1: .' ?405 =4.' .7 5" 1.?47'7 ,< >.'7'5.<7 >.
B 4.8 $ -4' '-.;'?5' 6 1' 66. / 05>.'<'7 ,1 '5.'' ?'
?5'4> 1'> Q" '4' ;: , @'>.';.7 '17 67.%
+' 41'5" ?1,?,6 7 ,< > 4< / . / 01.'>,';, / 7V'>.6
E <'<;.68 5.6 >.;1.76 64 -'<76 6,<7 1.<>4 6N
$ 66. / 05>.'<'7 ,<'5.8 641'5">. / '<>.'.7 6,4 / 66 ,<
>4;,<6. 5 J><>1'5 >.'5" ;, / / 4<.'>.'5" - 55.'>.' .<<.68
?,17'<7 .<J'J. / .<7 >.'6.';,<E,1 / .1' '4@> 6?,6 7 , 50 >"
> ;1.7 >4' ' , 7 >.1< .1' 641' '- 6 >4' > 1.;7, 1.'>4'> '
?'17. / .<7 >.' 555. .7 5' 77.8 ?4'5.'1'??,17 >4' ; , / 7 '>.'
;,<71 047 ,<'?405 =4.8 > ;1 7.'N
W 3 4 .< .@ ;47 ,<>.' '1 ;5.' "'>4'> ;1.7 >4' ' , 7
>.<1 .18 5"';' 66.'>.'H.@71',1> <' 1J E.1" '5" / 4< ; ?'5 '
>.' .<<.6 ,<.''-'';.'>. E % '5 -% ?'1' / , 6% ,41:Y'6 6

>. / .1" / , 6>. ' / >. . ,41'<7.8E.6=4.55.6 6.1,<7 1.67 G
7< '-.; 5.6 < 1 76Q 5'> . ; ' 66.8 641 5. ?1,>< 7 >4
O><.5 ;. '551 O4> 5'B 4< ; ?'5 >' ,6 5" 1.-.<7.>.6>,
<' <.6 <'7 ,<'4@8 .7 641 5.] 6,46 ?,41 5 -E. '>> ,4<>6
'4@ ; K71 O4 , ,6 E,<.5 1. .7 / ,O 5 O1.%
. " 6, / / .6 ?1,-.<'<7 >.6>Q7. " '-'<; . "<. ?,411,<
71. .? ?5,V.. " =4 '4 ?'V. / .?7 >.6>. 7.6 .@ J O5.6 .7 >.
>>?.<6.6 / ,4 ; ?'5. ">.6 6 @>. / .16 / , 6 >. 7 '<< . ?1>
6.<7.8 641 >.6 >7'7'>.6> 7.6 > 6 1 O4 ,<68 '??1,4->6 / , 6G
?'1 / , 6 ?'1 5. > 1. ;7,51. >. >>?'17. / .<4Y
. 66. /O5>. <'7 ,<'5.8 '?1 6 '-, 1 .<7.<
1'??,17 >. K.,< 7> >.6 E <'<; .68 > ;1 7. 1
>.5 .@71' ,1>5<' 1. ?' .1" E7 5" - 55.>. .5,<5" 6, / / .>.
E7 8 5 -8 .<>.4@?'V. / .<76 J'4@>. ;O' ;4<C 8 5 -%8
>,<7 5. ?1. / .1 '< 6.?7. / O1. ?1>6. 7 / , 68 .7 5. 6. ; ,<>
'< , ;5,O1. ?1, ;O' <I 5'> 7. ' , / / . E7 / ?47.1 6 1 5.
7,G '??'17.<'<7 E7 5'> 7. ; , / / 4<. >. .54< >'<6 5. ?1 @
%>.6 O .<6 <'7 ,<'4@ ?'1 .7 . ' ;=4 6 .7 1.-.<>468 E7 5"
;O' J. ?'1 > .> .EE ..74.1 5.6 6,77 / 66 ,<6 646 <,<; .68 $

$+ W 66. / O5>. <'7 ,<'5.8 '?1E76 '-, 1 ,4S 5. 1'?, ,17
>. 6,< ; , / 7E7 >.6 >, / ' <.68 > ;1 . =4. c. O' 5 >.6 >,G
/ ' <.6 .7 >1, 76 >, / '< '4@ >. .>'<8 '4; , ,178 <7
44J.18 #OE75. '4 .<'4 7 .7 B,56,<8 K. '4 / ,<78 .7'77<.8
'O.6' ; . .7 > ?.<>'<; .68 E' 7 '4 ?1,E 7 >< 6 .41 466,<8
; >.-'<7 64O> J4 >. <7.<>'<; . >. .7O8 ?'1 '11 7
>4 ; ,<6. >8 ><) <' ( )E78 ?, ,1 5. ?1 @ '<<4.5 >. (% %
.7 ?,41 5. 7. / ?6 >. >,4O. '<< .68 =4 ,47 ; , / / .<; . '4
7G Q'<- .1 ( ) (8 6.1" 1 6 5 .7 1.-,=4 8 E7 ; , / ?7.1 >4
5G Q4 - .1 ?1, ;O' <8 >?,=4. E7 5'=4.55. 5" 1.J . >.6 >,
/ ' , .6 <'7 ,<'4@ 1.< 1.1" .<Q,4 66'<; . >.6> 76 >, / ' <.6
.7 5.6 E.1" 1 J 1 .7 '> / < 671.1 '4 ?1,E 7 >. 5" <'7 ,<8 Q46
=, E7; . =4 5 ' 7 .7E7 ?1, ;>>. E7 5.41 - <7.8 ; ,<5O / / .<7
'4@ > ;1.76 >. 66. / O .<'7 ,<'5.N 1. / .771" 7.> 7 6 .41
466,<8 E7 5'> 7. 1 J .8 ,<6 5.6 7 71.68 1. ; ,<<' 66'<; .6 .7
?'? .16 ; ,<; .1<'<7 5.6 O .<6 =7 6,<7 >' ,6 6" / ' <8 '

+ 66. / O7>. <'7 ,<'5.8 '?1E76 '-, 1 .< .<>4 5. 1'?M
?,17 >4 ; , / 7E7 >.6 E <'<; .68 >E7;1E77. =4 .8 ?,41 5.6 ;4 16 .7
5.6 ?. '4@ =4 E77' .<7 .< ; : '1J. '4 G '-1 5 (* 8 .7 =4
< ,<7 ?4 E771. ?.6E768 ; : .=4. E'O1 ; '<7 ' ;=4 77.1" 5. >1, 76
641 5. ? .> >4 7'4@ / ,V.<>. ; . ,@ =4 7 " ?'VE76 ?,41 5.6
;4 16 .7 ?. '4@ >. / E7 / . <'741. >'<6 '<<E7. ?1E7;E7>.<7.I .7
'75.<>4 =4. 7, ,5 5.6 >E75' 6 = .5 '-' 7 ' ; ; ,1>E76 ?,41 5.
> 7 ?'-. / .<7 6,<7 .@? 1E768 66. / O5E7. <'7 ,<'5. >E7;1E77.
=4. 5.6> 6Q?'V. / .<76=4 '41' .<7 > & 1. .EE. ;7<E76 >. / , 6
.< / , 6 ?'1 >,<O E7 / .8 E7 #, / ?7.1 >4 G Q4 55.7 (* 8 5.
6.1,<7 ?'1 =4'17 '4 >.1< .1 6.?7. / O1.8 , ;7,O1.8 <,-. / O1.
.7>E7; . / O1. ?1, ; : ' ?68 6'<6 =4. 5.6> 76 >E75' 6 ?4 66.<7 E771.
?1,5,<JE76%Y

%" ,4 I >>;1.7 >. 66. / O5>. <'7 ,<'5.
1.5'7 E" 5" >.E.<6. ?1,- 6, 1. >. .@?,17'7 ,< >.6
/ '7 E71.6 > ,1 .7 > '1J.<7 1.-,57Q,41<.55. / .<78 >. 5"
?'17 >. > 5E>1.<7.6 / 4< ; ?'5 7. 68 4<. .@7.<6 ,< E4
<.67. '4 ; , / / .1; .I ,< 1.7 .<7 Q,41<.55. / .<7 5.6
? .11.6 " E46 5 >,<7 <,46 ?,4117,46 E,41< 1 7,47.
41,?.8 5.6 5' / .6 >.67 <E7.6 " E771. 1E7.@?,15..6 '?1.6
'-, 1 ?'66> ?'1 <,6 / '<4E' ;741.6 > '1 / .6 O5'<M
; : .6 8 .7; % . ' . / '<>. =4. 5. ; , / 7E7 >. ; , / / .1; .
6, 7 ; : '1JE7 >. ?1.6.<7.1 <; .66' / / .<7 4< ?1,Q.7 >.
>E7;1.7 ?,41 5" 5. E7. >.6>E7E.<6.6 =4 6.1-.<7 >. ?1E7
7.@7. " ; .6 '11.67'7 ,<6%
" ?1,?,6 7 ,< >. % ! ,7 >'17 .67 '>,?7E7.%
% !77 N ,46 '-.O ' ; ; ,1>E7 '4@ -.4-.6
>.6 / '1E7; : '4@ >. H1'<; . 4<. ?.<6 ,< >. 8 %I
4<. 6.45. .678 " ; '46. > 4<. ?.<6 ,< '<7E71 .41.8 .@
; .?7E7; >. ; . >E7;1.7I ; .67 FT D 5" / '1E7; : '5. >. M
; : .5 .4 8 7 4 6. 71,4-.8 Q ,6. 5. > 1.8 >'<6 5" ?546
J1'<>. >E771.66.% . ?1 . 66. / O E7. >. >E7; >.18 .7
Q. ?.<6. =4. % # ' / 46 <. 6 V ,??, .1" ?'68 =4.
W<W 5" / '1E7; : '5. >E7 ; : .5 .4 6, 5 71' 7E7. ; ,<Q / E7
5.6 '471.6 -.4-.6 >.6 / '1E7; : '4@ >. H1'<; .%
3 N " ?1,?,6 7 ,< >. % > J4 55,< / .
?'1'77 Q467.% % 5. / '1E7; : '5 >. ; : .5 .4 '-' 7 '6
641E7 " >. ; : .5 .4 4< >, / ' <. ; ,<6 >E71'O5.I
/ ' 6 5 '-' 7 / '7 ; '5;45E7 '-. ; 4 / E7 / .8 .7 6" 64;M
; .66 ,<<. 64E5 7 ?'6 / E7 / . ?,41 E' 1. E' ; . " 7,47.6
5.6 ;1E7'<; .6I .< 6,17. =4. \'D >. ; : .5 .4 6.

! 4 ! * & $$ .7 , , *% , "
(, ! & 6 999 $ 4
" ?1,?,6 7 ,<>. % > J, ,< .67 '>,?7E7.
+ 41 5" ?1,?,6 7 ,< >. % .6 / .4< .168 5.6 >E7
;1.76 64 - '<76 6,<7 1. : >46N
Y 66. / O5. <'7 ,<'5. >E7;1E77. ; .%=4 64 7N
W 17% G% .6 ; , / 7E76 >.6 E <'<; .6 .7 >.6 ; ,<71 O47 ,<6
?4O5 =4.68 5. ; , / 7E7 ; .<71'5 >. 5 =4 >'7 ,< .7 ; . < >.6
?.<6 ,<6 E.1,<7 ;5'6 .1 .7 <.571. .< =1>1.8 6 E' 7 < "E7E78
5.6 1.J 671.68 E77'768 1.<6. J<. / .<76 .7 ?'? .16 =4 6.71,4
-.<7 >'<6 >E7?> 6I 56 .< 1. / .771,<7 5" ;5.E8 '-. ; < E77'5
6, / / ' 1. >4 <, / O1. .7 >4 ; ,<7.<4 >.6 ; '17,<68 5. C* ><
?1E76.47 / , 68 >'<6 5" 6, 1E7.8 E7 '1; : - 67.8 5.=4.5 6.<
;O'1J.1" .7 5.6 1. / .771" E7 5" ?1. / E71. 5.J 65'741.%
% .55% ,<6 5.6 '471.6 ; , / 7E76 >. 66; / O7E7. <'7 ,<'5.
E.1,47 .J'5. / .<7 ;5'66.1 .7 / .771. .< ,1>1. 5.6 1.J 671.68
1.<6. J<. / .<76 .7 ?'? .16 =4 6. 71,<-.<7 >'<6 5.416 >E7G
? 56 1.6?. ;75E6N 56 5.6 E.1,<7 71'<6?,17.1 '4@ '1; : - .68 E7
; , / ?7.1 >4 C9 >4 ?1E76.<7 / ,768 >. / '< E71E7 =4 .5.7,47V
6, 7 >E7?,6E75. C* '4 6, 1%
W % E7'< / , <6 7,<6 E76 ?'? .16 1.5' E6 E7 '> / <E6
71=7 ,<8 =4 6. 71,4-.<7 >'<6 5.6 > EE.1.<76 ; , / 5E768 6.1,<7
1., 68 '-'<7 5" 6E7?'1'7 ,< >. 66. / O6E7. <'7 ,<'5.8 '4@
> -.16 >E7?'17. / .<76 ,4 / < 6E71.6 =4 56 ; ,<; .1<.1,<7%
W % 5 .6 46?. ;7.416 >.6 O41. '4@ E.1,K7 >1.66.1%< 5E77'5
6, / / ' 1. >.6 ?1, .E76 -.1O'4@8 1.J 671.6 .7 ?'? .16 E77'<7'4
6..1E75'1 '7 >. 66. EE5O6E7.I 56 1. . 1,<7 5.> 7 E77'7 E7 '1
;5 1 67.8 >'<6 5" Q,<1<. ; >" %
W % 466 7 "?1E76 5" 6E7?'1'7 , >. 66. / O E7. <'7 ,M
<'5. ; ,<67 74'<7.8 '1;O - 67. ?1.<>1" 5G <6?. ;7 ,< ?1,-
6, 1. >4 O41. '4 >.I ?1, .E76 -.1O'4@ .7 >. ; .54 >. ; ,11.6
?,<>'<; .I 5 -. 55.<7 E7 ; . =4. 5.6 ; ,44< 6 .7 . / ?5,VE76 Q
; ,<7 <4.<7 5.416 71'-'4@%
% ; , / 7E7 >.6 ?.<6 ,<6 .7 5.6 <6?..7.<16 >.6 O<
1. '4@ ?1E76.<7.1,<78 E7 E7 6E7'<; .>< C 8 4< ?1,Q.7 >. >E7;1.7
641 5.6 6. ; ,416 ?1,- 6, 1.6 =4 ?.4-.<7 E771. >46 '4" ; ,1<
/ 68 E7 1' 6,< >. 5" ; .66'7 ,< >. 5.416 71' -'<@8 .7 641 5.6
J1'7 E ; '7 ,<6 =4 5 ?, ,11" ?'1E7 71. ; ,<-.<'O . >. 5.41" ;
; '1>.1 N E7; .7 .EE.78 5.6 > EEE71.<76 ; , / 7E76 1. / .771,<7 E77'5
>. 5.416 . / ?5,VE76 .7 5.416 ,O6.1-'7 ,<6 641 5. 71' -' 5 >
; : ' ;4< > .4@%
% . 71'-' 5 >.6 ; , / / 6 =4 ,<7 E7E7 . / ?5,VE76 '7
6..1E75'1 '7 ,4 >'<6 5.6 ; , / 7E76 >. 66. / O6E7. <'7 ,<'5.
5.41 6.1" ; / ?7. ; , / / . 4< 641<4 / E71'1 '7 E7 E7J'1>
8>.6 . / ?5, 6 ?,41 5.6=4.56 5" 5, ,< >.6 1E7J5. / . ,76 <,<
?O1,JE76 >. / '4>.47 4<. ,4 >.4@ '<<E7.6 >. 71'-' 5 ?1E75
/ <' 1.6%Y

77 66. / O E7. <'7 ,<'5.8 '?1E76 '-, 1 .<7.<>4 7,1
; , / 7E7>. ; ,<67 747 ,<8 1.<-. , ' '< ? <-, 1 .@E7;45 E .@E7
;47 ,< >.6 >E7;1.56 >4%%%%%%% =4 ,1>,< 7.<7 >E75.-.14 , '67'M
74. .7 ' ; ; ,1>.<7 5.E7 : ,<<.416 ?4O5 ;6 E7 5" / E7 / , 1. >.
% - ,466. '4%
W E7;1E77. =4.8 641 5.6 .67 / '7 ,<6 =4 6.1,<7 1. ;4>5 .6
?'1 5. > 1. ;7, 1. >4 >E7?'17. / .<7 >. '1 68 .7 641 5" ?1E7
6.<7'7 ,< >. E77'7 >.6 E1' " >. ; . / ,<4 / .<7 ?'1 5. /
< 671. >. 1 <5E71 .418 5.6 6, / / .6 <E7; .66' 1.6 6.1,<7 ; ; ,1
>E7.6 ?'1 5. ; ,1?6 E7J 65'7 7 S
^ I 66. / O E7. <'7 ,<'5. >E7;1E77. =4. '47,1 6'7 ,<
?1,- 6, 1. ' ; ,1>E7. '4@ ; >.-'<7 '-. ; '76 '<@ ; ,<6. 568
> .@.1; .1 .< / E7 / .7. / ?6 W6 E,<;7: / 6 > '-,4E76 '4?1E76>4
71 O4<'5 >. ; '66'7 ,< .7 '4?1E76 >.6 71 O4<'4@ >. > 671 ;768
>. / .41. 'O1,JE7.8 '

% 2 N .6 / . / O1.6 >.6 O41. '4@ >.
; ,<; 5 '7 ,< E75.-.<7Q, 1<. 1. / .<7 >.6 ?5' <7.6; ,<
71. 5.6 O4 66 .16 =4 8 >.?.<>'<7 4< =4. / .<7 >'<6
.@.1; ; . >. 5.416 E,<;7 ,<6 >4 ; : , @ >.6 ?'17 .68
6,4671' .<7 >.6 ? . ; .68 >.6 .@?5, 768 .7; % ,71. ; ,M
/ 7. >. ; ,<67 747 ,< ;1, 7 >.-, 1 -,46 ?1,?,6.1 >.
>..1E77.1 =4. 5.6 ; 7'7 ,<6 >.-'<7 5.6 O41. '4@ > ; ,<
; 5 '7 ,< >. 5" - 57. >. '1 6 <. ? ,411,<78 " ?. <. >.
<455 7E78 E771. E' 7.6 =4. ?'1 5.6 ;4 66 .16 '77' ; : .6 '4@
Q4J .6 >. ?' @ E77'O5 6 >'<6 #.77. - 55.%
?1E76 =4.5=4.6 > 6;466 ,<68 5" ?1,?,6 7 ,< >. % .6
/ .4< .16 .67 '>,?7E7.%
% % N 5 .67 O .<-1' =4. 5.6 ;4 66 .16 6,4E
.<7 5.6 .@?5, 76 .7 5.6 '66 J<'7 ,<68 / ' 6 .67 -1'

' +#, ' !' ! ' =#$!' !' $! ' #' %! # '
% #F (' +#' ' ! ' ' = ' & : !' +#, ' !' !#'
' ! ') B# !(' ! +#' :# !#' !' ') $)! ! '
!

' 2 " ' ' !' ' % ' ' !P
& K(' ! ' !') & ' !') # ' % ' ' '
&<&!' ' !- !) ! ! ' # ' != ! &! ' # ' ! '
% # ' ! ' # ' ! ' *# ! ' ! ' :# # A' ! '
)! ' +#, '> ' !' $! = CC ' :# ' ')! !'
!' A' & ' ' !% ! ' ' !#' M' & : !' +#!' % # '
% # ' ! '))# !9' % ' ',! +#!' #' 7 ' ! !&: !A'
) ' ' != # !')* !(F) !!' ' # !' # '
=#!' ! ! !)!(' !' ' ',! !- !)!' ! ' F !'
&! (' # ' ,))# ! ' %!)' # ' !' #))F ' (
)! !' !$ &!

' 2 ' ' : !&! ' !' ')!'
) !) ! !' ' ! ' = ! ' % ! ' ! =!' ', '
' !' +#! +#! ') ! ' ' ' ' +#!' % # ' %!9' !C '
!' # ')! ' :C! ' L!' # ' ! ') !+#!)!')* =!'
!' % # ' ! ! ! ' !' C! ' !' !) ! ' # % ' -
W' 17%' D%' '6.1" . '05'?'1'5.6' ; ,1?6' 5.JE6 '7 E'>.6' ; , / '
66' 1.6'>.'?,5 ; .'>'<6' 7447.6'5.6' - 55.6'>4 1,V'4 / .8' '?1 6'
'- 6'>.'1'>/ < 671'7 ,<'>4' >.?'17. / .<7%'
$' %' #.6' ; , / / 66' 1.6' - . 55.1,<7' '4' / ' <7 .< .7 1.@ . '
;45 ,4>.6'5, 6'>.'?,5 ; .' / 4< ; ?'5.' .7' ; ,11.;7 ,<<.55.8' .7 56'
?,411,<7'>1.66.1'5.6' ?1, ; .6 - .10' ,@ .< ' / '7 .1.;1 / <.55.8'
; ,<E,1 / . / .<7' 0 . . ' =4' ' 6.1'>7; '?1.6% .6' / 4<0; ?'5 7.6'
>#7.1 / <.1,<78' 6.5,<'5.6'5, ; '5 7.68' .7' - . , ' '45,1 6'7 ,<'>.'
1'>/ < 671'7 ,<' >4' >.?'17. / .<78' 641' 7' - 6' >.' ; .>.' >4'
> 671 ;78' 5.'>.7' 5' >.6' E,<;7 ,<6' =4 ' ?,411,<7' 5.<7' 951.' '7 '
71 04#.6'>'<6' ,1>1.'>.6'?,4- , 16'?1,?1.6' ,4' >. 4#6' '4@'
; ,1?6' / 4< ; ?'<@%'
' %' '<6' 5.6' 5 .4@' , '5'' 5 ,c' < '41'' ?'6'>.7.1 / <.'5.'
/ ,>.'>.'5'' E @'7 ,<'>.'5.41' 71' 7. / .<78' 5' 6.1'' $!' ?'1'5.'
>1.;7, 1.'>4' >#?'17. / .<78' 641'5''>. / '<>.'>.'5'' / 4< ; '
?'5 7.' .7' '- 6'>4' >1.;7, 1.'>.'>671 ;78' .7'?'V.'?'1'5'' ; , / M
/ 4<.%'
W %' '?156'5.6'E,<;7 ,<6'>.5.J4 .6' '4@' 04J.6'>.'?' @8'
5.6'>6?,6 7 ,<6' ?1, - 6, 1.6; ,<7.<4.6' '4@' '17 ;5.6'' 8' ''
.5' '' ' >4' 5 71.' '>.' 1,1J'<67 ,<'>.'5'' / 4< ; ?'5 7.'>.'
'1 6'>. / .41.<7' '01,J..6' .<7,47' ; .' =4 ' .67' ; ,<71' 1.' '4'
>. ;1.7' 641'5'' ?,5 ; .' / 4< ; ?'5.' .7' ; ,11.;7 ,<<.55.8' .7' '4'
?1.6.<7'>>.1.7%'
W' %' .6' ; , / / 66' 1.6'>.?,5 ; .8' 5, / =4 56' .<' '41,<7'>>'
1.=4 68' ,4' '/>/ .'> ,E ; .8' ,16=4 56' 6.1,<7' <E,1 / >6' >4'
>>5 78' 6.1,<7'7.<46'>.'>1.66.1'5.6'?1, .>6 - .10'4@' 7.<>'<7'2'
; ,<67'7.1'5.'E5'J1'<7'>>5 7 ,4'5.' ; ,1?6' >4' >>5 78' .<; ,1.'=4 5'
< V' ' 7? ,<7'.4'>.'?5' <7.'1.<>4.%'
' %' 56' ?,411,<7' '4 6'>71.' ; / / 68' 6, 5' .< / '7 >1.'>.'
?,5 ; .' / 4< ; ?'5.' ?'1'5.6' / 4< ; ?'5 7>68' 6, 5' .< ; ,<6>'
=4.<; .'> 4<.' ?5' <7.' ?'1'5.6' ,E5 ; .16' >.' ?,5 ; .'>.'6' 1.5 '
,4'?'1'5.6'04J.68' ?,41'>1.66.?'5.6'?1, .>6 - .10'4@' =4 '6.1,<7'
04J>6' <>. .66' 1.6%'
F ! %%' ' ; '6' > .B1' ;7 ,<8' '66'66 <'78' <; .<> .8' 05.6'
641.6' ,4 '471.6' >>5 76'5' 66'<7'>.6G71' ; .6'?1>6.4@8' 5.6; , / '
/ 66' 1.6'>.'?,5 ; .'6.1,<7'7.<46'>.'>1.66.1'5.6'?1, .>6 - .1'
0'4@' >4' ; ,1?6' >4' >.07' .< ?1>6.<; .'>.6' ?.16,<4.6'6' 6 .68'
5.6=4.55.6' 6.1,<7' .<6<7.' ; ,<>4 7.6' ; .6' 5.'04J .>.'?' @8'
6'<6' <>'</ , <6' =4.'5.6' ; , / / 66' 1.6'>.'?,5 ; .' ?4 66.<7'
?1, .>>.1' '4@' <E,1 / '7 ,<6%'
W' %' ,<6'5.6' ; , / / 66'E1.6'>.'?,5 ; .'?,411,<7 1.66.1'
>.6' ?1, .>6' - .10'4@' ; ,16F'>.' >7.<>4.' >.' 5.41' 5.11 7, 1.8'
?,41-4' =4 . ; .'6, 7%'>'<6'5.'7.11 7, 1.'>.'5'' / 4< ; ?'5 7V%'
' ''%' '<6'5.' ; '6' , 5' ' V' '41'' ?1, ;>6 - .10'5' >1.66>'?'1'
5.6' ; , / / 66' 1.6'>.'?,5 ; .8' 56.<' 7 .<>1,<7'<,7.'6, / / '1.'
641' 4<'1.J 651. ; ,7>' .7?'1'?0>'?'1' 4<' >.6' ,E5 ; .16' / 4< '
; ?'4@%' 56' 71'<6 / .771,<7' '4' 04J.' >.' ?' @'5'' / <47.'>4'
?1, ;>6 - .10'58' '- . ;'5.6' .EE.76' - , >68' 5.6'?>. .6'>.' ; ,<- ;7 ,<
.7' 5'' ?.16,<<.' 6' 6' .%' .6' J1.55 .16'>.6'04J.6' >.'?' @'>,<G'
<.1, ,7'>>.0'1J.'>4'?1, ;>6 - .10'5' .7'>.6'?>. .6%'
= ' ' E

; '<> [' 0 ' ' " '&' .<>1.>' 7@ ' '
G '64 .'><'0' .5'>.' .5>/ '=4; [

- ' "'')' ,$' , ' V' ' @#- - -(/' , .+9- - (/'
(0(' - (' ;
'> K 5 8+ 40%' 5)' UG' 1.?1>6.47' ,<'>.' #. '
' ,4' '
'5 H B= 768' 14.' >.' ; ; .5 .4%' + 408' ' G #
1 ' ,4' ' $ '8 8' .< ' ' ;7.68' 64 - .' >4' A'

(+$*' - 1 / %

' "- "'' ", ' " " & ' - ! - (0+ , ' - (' *'$(.'
V ' + %.(4. - '(*,+,$ * - (#+' 8 ' 8 ' 4-.+' '
$,+ $(*
' / .>'5'' G'1.?1>6.<7'5 ,<'>4' G ' ' '% '
,?>1' E,5 .%'

+- "' ' & & &' 3 && ' + ' + +$'!'
8+ V /' +' B%D' .(4.('(*,+,$ *' - '< ' '
3 - -$(' (*' ' +3 ('/' ' 0(' - (' ! ' ' ' ' & '
4- .+' (*' *' +3,(
/- % ' + 3 ' ' ' , ' V 40%' , A'
' ! ' #+$,' 6$', .$5 (,' ' , ' ' 8 A'
2 ' ' ' 8 ' 4+*, $ (' +0(3' '(" +9. - (*,'7 ('
%, 'G ' ()' *' +3,(7' (" '(,(.'7 '$ & '
' +0(3' 4 '$(." - 0(.,$''((,'

@"$! $,$"/ + ') $(0+. -' - ' (4 (' V' '
+' XD' .(4.('(*,+,$ *' - (' '$ ' ' ' , '$ '
4+*, $ (' (*' ' +3,('/4. -3 - - -(' - (' ' ' '
4- .+' (*' ' +3,('/' (,' - (' '$ '1 ' '
+- "' ! . ,U =' 8 %A ' ' " V ' +'
.(4.('(*,+,$ *' '$ & ' ' 8 ' 3 - -$(' (*' P' +3,('/'
' $0 ' - ' '$ /' 4- .+' (*' *' +3,(
'> ' ' , >K 8' 149' ' <7 '15 <% + 550%' '
& ' '$ 1 ' ' ' <3 ' ' - . ; '>.6' > '<J. '
/ .<76' 1.5'7 E6' 2' 0.41.46.' ' ; ; ,?7'7 ,<' >.' 5'' ; ,<67 747 ,<8'
64 - .'>.' '% ' :
+- ' "' ' " " K ,>- , 6% + 40%' (' ' 'G, A'
& '3 - -$(' (*' *' +3,(7' 4. -3 - - -(' ,), ' '@ V '
.7'>.6' $ ' ' !
+ ' ' '14.'>4' ' 58' <G' *% + ' .67' ,4 '
- .177,<6'5.60,4168' 0'6=4 '7.55.'0.41.' =4 5' ?5' 7' ' %'5.6'
'0,<<>6'> V'1.67.1%

@ ' ' ' ' '@ ,! ! '
'

@' ?1. / .16' / , 65- 5%' %'5.6' 'V.,166,<7' 5''5.771. %'

G ' ' & ' & ' ' K ' ' '

/ 67.1>' /' #'> @' % % % % %' * %
@+) * .9' ' WPG' # !><.6' % % % % % % %' (
* - .(' ' CC' ' - ,41<.%' ' ' ' 'J' ' C(
'><>%' %' %%' $ $ * %C6 V,<8' , (' ' ' + '?' 1

' ' '?M'

3,$ *' - (' * - (' - (W/X I I ,$0/ ' ' WWX I /XX/XHD
. ,$ *'' - (' BG I I' $0' ' ' BF \ I/' X/' HB
4. ' - (' - -3' BHEW/' 5 $, ' - ($$*/' ' ' B' ') ' + ' 4+$./' '4
V' - (' BWX' $ /' - -3' BHEF' ' ' '$$/'$$'$')
V ' +*") ' ' , ' H/' H //')
K455.7 <6' %%' *
;7% <,4-8' >.6'5, >.6%' %' % % % % % % % % % % %' CC)8' C*8'
+$''(' - ('3 ' EEGX/' G I/' G I
. / #' 66.%%%%%%%%%%%%%%%%%%%%%%' * C8' 8' C)
4. ' >. ') ' / 558' > ' ,E 7' ()*' % % % % %' ' 68' 8' ' 0
6641%' ; .<71.'5.6' <; %' *C8' * 8' *U8' * 8' *9
V'F' 0$(' ' H I X/' (8' G/' G/' G/' H/' E/' T/' B I
3,$ *'' - (' $+' +$''('4+, .$,$5 (' H I I
@ '' B%D' (+''('F X' 4' # I I I I I I I I ' 64'
V WD' 'F' X' 4' ' ' + ' BXD /' EP' '
V +D' 'F' G' 4 ' A/' ' + ' B I D' /' 9$' A/' 7K

_ 3 X @ 3

B ! +

. / 0 & 1) 2

! ! %

'D '6 ' CC (' ^' <; ,1?7 >.'?546 >.' - <J7 55.' K466.6 .67 '11 ->'>.';.';>7>'6'<6 =4.' ,<.< 1; 7 <' 6514 7I 5 '>7'05'6,<;' /?9 5 <.'5 . .'.7>. / .'> ; I ,< 71' 6?,1E.' '>.' /4< 7 ,<6 >.' J4.11.'>'<6 ; .77.' - 55.% /?>1'71 ;.' '' ;. , 6' 5.' / '1>; : '5 >.' K, / '<0, [' %?,41 ; , / / '<>.1 ;.' ; ,1?68 >,<7 ,< J<,1.'5''>.67 <'7 ,<8

- % ,

'$ ' ' ' '^' ''1>><;75,<>.' '<<>.' .67> ; > .I 5.6 ,E ; .16 =<' 7, / 0.1,<7 >'<6 5'' 1#E,1 /.' ;,<6.1-.1,<7Q46=4 0 5.<1 1.?5' ; . / .<75'' ?1.6=4.' 5,5'5 7;' >.'5.41 71' 7. / .<7%

)@& 8 ' ' * +' <&0 7 5''1.-4.'>.6 1 S\' / .<768 .7 K;.77.',;;'6 ,< ,<>,<<.'>.6 ; ,<JK6 '4@6,5>'76 <'7 ,<'4@ =<' .<>. / '<>.<7I 5.6 =4'71 K / .6 0'7' 55,<6 6.1,<7 64??1 / 68 .7 5.6 ; , / ?'J< .6 > <E'<7.1 .' 6.1,<7 1>>4 7.6 ;.';4<.' K;.<7 71.<7.' 0, < / .6% K' ; .5''6 .@K;47.8 %,< '' >.'5'' ?. <.' K;1, 1.' K4<.' <,4-.55.' J4.11.%

1, 6 0'7' 55,<6 > <1'<7.1 .' .7 >.4@ 1.J / .<76 >.' ; '-' ' 5.1 .' ,<7 1.]4' ,1>1.'>.'6.'7.< 1 ?1K76 K / '1; :.1 >'<6 5.6 'V6 K'6%

) * + , +

' 'MX' '^' '9 '>.' K1'0'<7 ,<5 1.E46.'5.6 6406 >.6 K1. / ?.1.418 < 'V'<7 ';;,15K =4.' .<G 71.7 .< ?, ,1 5'' ; ,41 >.6 J,4-.1<.416 J><.1'4@I ;.' =4.' % % % ,<7 1.E46.% < 6 '77.<>8 6,46?.48 .'=4.5=4.' 7: ,6.'>.'>.>6 E8 1.5'7 - . / .<7 K 7,47.6 ; .6 ?1,7.67'7 ,<6 ,?< K71.6 >.6 .7'76%

.'>1'?.'4 >.6 J'1>.6 >< ; ,1?6 ><'1,5 >.' H1'<;.' .67 '11 - .' K #,05.<708 '?1:6 ' - , 1 .79 >.?,6.' :< 7 K> @Q,416 K :K7.5 ,V'58 KK14@.55.6% < J<,1.' ; , / / .<7 ,< ' ?4' . / ?,17.1 >.' H1'<;.%

HK # %

'8 % : . .<'1>8 ; : .E > .6;'>1.' .7 ; , / M / '<>'<7 >.' 5'' / '1 <.' '4 ?,17 >.' %,1 .<78 '' .7.' <, / / .' / < 671.' >.'5'' / '1 <.' '4 / , 6 >.' / ' ' >.1< .1% .6 ; , <' <' 66'<; .6 =4 5 ' - ' 7 >.-.5,??>.6 >'<6 5.' ; ,416 >.' 6.6 6.1- ; .68 6'' ; ,<>, 7.'>'<6 5'' ?5' ; .' / ?,17'<7.' .7 > EE ; 5.' '=4 5 1. / ?5 66' '78 6,< ?'71 ,7 6 / .8 ' - ' .<7 ; ,<71 077.' KE @.1 ,?< ,< ?<05 =4.' 641 <<; ; , @ =4 8 <.?,4 - '<7.71. '7' 71 04.' K5'' E'-.418 E47 '??5'4>% % : .-.<'1> 'V'<7 1. ' ; .<<4 =4.' 6'' '< .8 '57.1K.' >.?4 6 5,<J7. / ?68 <.' E4' ?.1 / .77' 7 ?'6 >.' 6.'7 -1.1 K 7,46 5.6 / ,4-. / .<56 >.'6,< 0K .8 E 7 >. / '<>.18 >K6 5.'7 'Q4 <8 '4'1, '5'' ?.1 / 66 ,< >.' 6.' 1.7 1.1I / ' 6 5.6 K->< . / .<76 6<06>=4.<76 54' E 1.<7 4< >.-, 1 >.'6';1 .1 '4 0 .< ?405 ;'7,46 5.6 / ,7 E6=4'5.'?,1' 7' .<7 K6,55 ; 7.1 6'' 1.71' 7.8 .7 5 ; ,<7 <4'' K1. / ?5 1 6.6 E4<;7 ,<6% 34, =4.' 6'' 6'<7K.E 7 6,4EE.17>.' ; , .7 .EE,178 5 > E' E>1'' >.' 64??5 .1 % % > ' ; ; .?7.1 6'' >K / 66 ,< Q46=4 '4 / , / .<7 ,K 5 ;147 ?,4-,E18 6'<6 <; ,<-.< .<78 54' K / , ' J<.1 5.'>#6 1 > 4< 1.?,6 >.-.<4 '06,54 / .<7 <>..66' 1.% '' / '1 <.' < '' ?'6 .< 5.'7. / ?6 >.' ?1,E 5.1 >.6 ' - '<7'J.6=4.' 54' ?1, / .77' 7 '> / < 671'7 ,? > 4< ; , / / .' >;5' 1> 641 5.6 ?'17 .6 >.' ; .' >>?'17. / .<78 .7 >,<7 5'' 1.71' 7.' .@; 7.16 6'<6 >,47.'5.6 ?546 - E6 1.J1.76%

.'1, ' - .<7 >.'<, / / .1 K6'' ?5' ; .' % K,4J' <- 55.8 =4' < '' ?'6 ' ; ; .?7>% % ' / <<>'' 9H <, / / >7 0 .1 CC8 >>?47> K5'?1. 8 / K .' >J 65'7<1.8

'' '' \' '' ''(

<Q,<1> 04 8 C '6.?7. / 01.8 K4<.' : .41.8 5 6.1'' 017 5> K :>7.5 >.' 5'' #' 66.' >.' .@71' ,1> <' 1.8 14.' - .<<.8 5'' 6, / / .' >.' * / 55 ,<6 >.' B-1.6 .< '66 J<'768 5'=4>5.8 Q, <7.''4@ C9(> K0177 >68 E.1'' ; .55.'>.' C(9 / 55 ,<68

^'< -

' ' '

' ''>7> - .<>4 K1B>7.7 >. 55.>.' '1 68 5.6 C8)8 U8 % 9 .7 (6.?7. / 01.'>.' ; .77.' '<<>.8 ?,41 5'' 6, / / .'>.' 9) 8* 'B-1.6 >.'>, / ' <.6 <'7 ,<'4@8 ; ,<6 65'<7 .< > @W <.4E / ' 6,<6 .7 >>?.<>'<; .68 6 7<>.6 >'<6 <7>1 .<1 >.' ; .77.' ; '? '5.I 5.6 .67 / '7 ,<6 ' - ' .<7 ' U (% 9 5 - .6%

' ' '% ^ ' '

''<,4-.55.'>.' '.;.?7'7 ,<>''1, .67 '11 ->.' ; '>'<6 4< / , / .<7 ,K6.' / '< E.67' 7 5'' ?546 J1'<>.' E.1 / .<7'7 ,<% .?4 6 71, 6Q,416 ,<?' ' 7 >.'; ; '1>.'05'<.0.' =4'>.-' 7 >71.' '10,1>.' ?'1 7,<6 5.6 .<<. / 6 >.' 5'' ; .<<67 747 ,<% < E' 6' 7 01,>.1 >.6 J 5.76 1.?1.6.<7'<7 >.6 >.'16 >.' 66<1G / ,< >.6 >.6 '17<.6 >.' . / ? 1.8 ' - . ; .6 / ,76 $ ' ' +' ' '1. <6% .7;% <6' - ' 7 =4 5 V ' - ' 7 >.0K 0.'4' ;,4? >.' ; .6 J 5.76 01,>>6 ,4 ?. <76 =4'>.-' .<7 ?'1' 71.' .< / > / .'7. / ?6 =4.' 5'' ; , ; '1>.' 05'<; : .% '' / 4< ; ?'5 7>8 '5'1 / >.'>.6 014 76 =4' ; ,41' .<7% K ; .7 >J'1>8 '' ?1 64<.' >>5 0>1'7 ,< 1>6 6'J.% % 41E,178 <,71.' '<; .< J><>1'58 % >.' ! .1;V .7 =4.5=4.6 '451.6 >.' 6.6 'J.<76 ,47 >7>'>.' <,<.>6 ; ,< / .' E' 6'47 >.6 _419 . / .<568

B% 41E,17 '>5>'11>7>' ; 77.' <4 7 .7 ; ,<>4 7 K%5''7,41 >.' :>7.5 >. - 55.% < '6641.' =< 5 '' ' - ,4> =4 5 ' - ' 7 .< . 5.5 ; : .1; : > K E' 1.'>.6 .<1 5. / .<76 ?,41 6.' E' 1.'>.6 >>' E.<6.416 ; ,<71.' =4.5=4.6 ?.16,<<R.6 =<' .< - ,45' .<7 K 6'' - .% < - ''6 , ; 4?.1 - - . / .<5 >. ; .77.' 'EE' 1.% % 45V8 4< >.6'J.<76 >.' % 41E,178 .67 '466' '11>5>8 .7 % .J.1;V .7 'J'1>.'6.<7J'1>>6 K-4.' K 0>7.5 > 7>.'5'' ,4'<.-

' ! , (' 9 ' ' ' 3 ' ' '

%

' ! '* & '&' , A

W ,16=<.' 66. / 05>.8 =4' - ,46 >, 7 .@ 67.<; .8 .7 =<7% <.' '' E' 7 6.1- 1 =4 K5'' >.6714;7 ,< >.' - , 1.' ?,4-. 18 6.' %;1, 7 '4 / , / .<7 >.' ; ,<6, / / .1 6'' ; ,4?'0E.' .<71.?1 6.I 5,16=4 K ,> ?< 7>'>.' - ,46 7.< 1 ; '?5 E' '< / 5 .4 >.' - ,71.' ; '? '5.' .55.' 'Q,47.'5'' ?.1E5> .'>.' - ,<5, 1 =4.' - ,46 >>J1' ' > .@ - , 1.'719<.'>.' - ,71.' ?1, ?1.' / ' <I 5,16=' .55.' ,6.' .<E / ' - ,46 ?1>6.<7.1 ,?7 ,<8 ,4 >.' 6,46;1 1.'>.6 >>.1.76 =4' E.1' . 7 5.' / '5: .<16 >.' - ,6 ?.4?7.68 ,4 >.' ; .66.1%> >71.' 1, 8 <,46 <,46 . / ?1.66,<6 > '??1.<>1.' K % % =4.'5.6 ?4 66'<; .6 >,<7 <,46 ' - ,<6 >;5' / > ?,41 .55.'5.'6. ; ,416 6,<7>>7.1 / <>.6 KV . / ?5,V.1 5.416 E,1; .68 .7 =4.' . / ?.G 1;41 .7 5.'1, '>.' 1466.' - .<<.<7 > .< ; ,<71';7.1 .<J'J.G / .<7 / 454.5% .'6'J.' >,?,5>8 '466 7>7 '?1>6 ' - , 146641 ' 5''71'<=4 55 5>'>.' 6.6 7'76 .7 ' / .<> ; .55.'>.' 41,?.8 '' 6 J4> ; .7 .<J'J. / .<7 K 5< 508 5.'C(>4 / , 6 >.1< .18 ; ,<' Q, <5. / .<7 ' - . ; 5.' > J<.'64. ; .66.41 >4 J1'<>'H1>>1 .I 56 .< ,<7 1. / 6 ,1 J <'5 .<71.' <,6 / ' <68 .78 ? 1 5.' E' 1. ?'1-.< 1 ' - ,71.' ; ,<<'566'<; .8 <,46 5.E.1,<6 / ?1 / .1 ' 5'' 64 7.'>.' ; .77.' 5.751.8 5'' ?405 ; 7> . '<7 '4Q,41> 5 4'5'' 6.45.' - , .' >.' ; , / / 4< ; '7 ,< >,<7 - ,6 ;1, .56 ,??1.66.417 < ' .<7 ?4 <,46 ?1 - .1%

$ .6 '471.6 ; ,416 6,<7>'<6 5.6 / > / .6 > 6?, 7 ,<6 =4.' ; .55.6 >.' .<<.' .7 >.' K.15 <8 .6 ?1 <; .6 .7 7'76 >.' / ' ? 1.' ,<7 >0K ?1,7.67>8 >'<6 >.6 ' ;7.6'47 .<7 =4.6% ; ,<71.' 5.6 >6 , 'E' 5.6 K >.6 >1, 76 =4 56 ,<7 1>6,54 >.'6, 7.< 1 ' - . ' - J4.418 ,46<.'6'41 .0 >,47.1% 1.8 >4 - E <7>1>7 =4.' 5.6 1, 6 K,410,< ?1.<<.<7 K - ,71.' 6 74'7 ,<I .416 'Q.67>6 #'50,5 =4.' .7 ; 5 .<<.' .< ,<7>,<<>'>.6 7> / , ' J<'J.6 <,< .=4 - ,=4.6% .6 J><>1.4@ 6.<7 / .<76 >4 1,7 >.' '1>' J<.8 <,71.'0.'4 ?>1.8 <.?.4-.<7?'6 > 1.' 4; .1 ' 7' <6% ,46 ' - .0 >1, 7 >.' ; , / ?7.1 641 ; .4@ >.6 4 76.68 5.6 0,<6 .7 '<; .<6 ' / 6 >.' '' H1'<; .% 46=4.'>'<6 5.'E,<> >4 ,1>8 '<1, ' / 'J<'< / .' - .47 '466' . ,<71 04.1 K1>7' ' 05 1 - ,71.''47,1 7>I .7 / / ,17.55.' #'7: .1 <.8 K=4' '4.4 7 J.<1.'>.' J5, 1.' < .67 >71'<J.18 <.'5' 66.1'' ?'6 >; :'??.1 ; .55.'>.'>>E.<>1.'5'' ; '46.'>.'7,46 5.6 6,4-.1'7<6%

W 5 < .67 ?, <7 K ;1' <>1.' =4.' 5'' <'7 ,< 01 7'4<5=4.8 ' 71,? J><>1.46.'?,41 ; ,<71'1 .1 ; ; '=4 .55.'71, , - .'Q467.8 .E 71,? >;5' 1>.'?,41<.'?'6 >>6 1.1 ; '=<' <7>1.66.'6'' ?1,?1.' 71'4=4 55 7.8 - .4 55.'6 ,??,6.1 %&9 '>.' ; .7.'<,05.' (11>6 67 05.' ; ,<E>>>1'7 ,<%

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E' 05 1' -,6 >1, 76 ?.16,<<.56 '4@ 6.;,416 >.'7,<6 5.6 /,<'1'
J,.68 .7 6' -,46 6. /05 .0 -,46 69?'1.1'>.'5" ;'46.'>.6 %6,4'
-.1' <6.< .,<6';1'>7 4<.'>,;71 ,' =4 566,<7 ,05 J.6 >.'
?1,6;1 1.% .'?.1 5 '4J <.>7.1' 7 .< ?1,?,17 ,< >.';,'=4.'
,<6 /,<71.1 .0 /, <6 >.';<E '<;.'>'<6 5.6 <P,I.<6 ?1>'
6.1-'7.416I' 5 '4J /.<7.1' 7 7 / .641.=4.'7 /?1.66 ,< >"
;'1';7.1.''4J467.' =4 'E' 7 71. /05.1'5.';1 / .''4@ ? .>6 >.'
5" /'0.6 .'1,V'5.'> J<. /.<7 6,47.<4.'?.1>1' 7 >.'6" E,1;.I
5 '4J /.<7.1' 7 5,16=,.' >??'1.<;.'>.' '0'<>,< >;6 <.G
1776 >.'5" 1.5 J ,< ?,411' 7 .@; 7.1'5" E.1 / .<7' ,< 5" ?546
1.>,4 '05.% ' '4J /.<7.1' 7 .<E /' 6 8' -,46 1.6 J<'<' "< ''
, 1?546 =4.'5.' -' < 5 71.'> ,< 1, '6'<6 ?,4-, 18 ,<6 ?' '
1' 66 .08 '<04J. /.<7>.' 4< .168 '0> =4.1'5" ;,41,<<.'
>.<7 ;0';4< 6'57 =4.'5" ;,<6.1-'7 ,< .@ J.;.55.'>.6 >1, 76
<'5 .<'0 .6 =4 'V 6,<7 .66.<7 .55. /.<7 <:.1.<76%
K' ('4 "'+3.(' -(" -(0 $.'' $.(/ +$*'$ 5 (' (' 4 "0$#
+,,+3#+((*,'* "4 .,(*,')' (,,.(' "0 "8(2', ,("3("
3 *'(5 (*3(" -+*9(.('(" -(' +' $*-.(' +44+.(*3(' -(' #+$!
) (''(/ (* ((',(4"5 (* "0 "4.('(*, *" +' +''(
-(" # .3(" $ 4 '+*,("5 $ - $,'(,.(' +''+ 0(9+.-(' -('0 ,.('
#(.,*(,(
& "-(0 *"(*3 .('0 "+** *3(./ (,' (' * " !
* "#,' '4$(-"5 (/ '$ -(" ,$#"5 $'* "(','$ 4 ''$) ('
- 4(.3(0 $./ +$"5 $*(' 4 ..+$(*,'+0 $.' 4 .'4.$*3$4('
5 (' #(23#," -(' +' 0$ (*3(' (,' *(' 3($$,3+$* ('5 $/ 4 .'-,.5/
-#,9 $'#,'/ * (*''(.+$(*,'5 ('4$*"3. (,'/ # .5+$(*,'0 ,.(' +$*'
-3' ' '3.$.(' *(' +33(4,+,$ *' 5 ('0 ,.(' 3 ' .'.($(,,(/ 5 ('
0 ,.(' $*,(.-,' (,'3($ -('0 "4(4 (" .(4 ''(),/ (,' 5 ('
0 ,.(' -(0 $.' -('. $ 0 "$*,(.-$,'(24.(''- (*,/ * "4. !'
,(',(.$ *'/ #,' +' #+3(' -(', ,(' +',(..(/ (,' -(' +' +*$#,.(' +'
4 "' $(**((/3(*,.('3(,'+3,($ ' $.('(,', ,'3('5 $'4 .!'
+$,'(*' --4(*-.(7 * "-- *,.(.$ *"5 %$'(','* '4+. $!'
- (/ * '4+. (' -(#+ ,-(' $)(.,8/ * '4+.' ('0$3('.+-$3+'
-(', ,(" (" 4(.+,$ *" -(' .+''( )$((' ' .4+$.$3(' 5 $7'
(,+,4+" +''( ) -(' -(,+ '9(*(.+ 2/ *%(',' .$(*' "
' ("# *--"' .' (" -. $," -(' +' *+,$ *' (*,$#,.(#,'.((,(.'
-(" --(.(," -$+ (,.#, ((*,'3 *,.+$.("#,'' *' 0,('(24.$ -'
4+. % *+*$ $,(' -(''("3+)$(.'7 (,'* " -('+0 (.$ *"4 .'
((' -(" +*-+,+$.("$*#$-@("5 $/ (*'0$ +*,''(" .-.(" (,'
,.+*'9.(''+*,$+' $''$ *'5 (((.'+0+$' - **-(/ - ,3(''-'
--,.(' '(" .(4.-'(*,+* '' "' ,$(-.$ *"3('5 $ (',-0$D'
-(*,/ 5 +8+*,'+9$'3(*,.(' (.' $,.(/ $ " *,'+9$'+*"4 ='
0 $./ (,'5 (' 3('5 $$" *D *,'4 ' #+$.(' -9+ ((*,'*(' 4(,'
-,.(' +33(4,-'0+ $-((*,
K' ,.('4. ,(',+,$ *'/ '$9*-(' +0(3' * "4+.', " ("4.$*1
3(" -('0 ,.(''+*9'5 $ * "' *,'.- *$'/ '(.+$,'3 *(' #,'
, ,(' +' +$' ' -(" .) */ #,5 $ '(" -. $," 0(*, ("#,'
+'3 . **('$*$4 '(*, (' -(0 $.' - (*' --#(*-.(' + 9 ',(' --!'
4G,' "4. ,(' (.$ *"4 .'0 '! - (' $.(/ (*'4. ,('!'
,+*,'4 .'0 "4(4 ('/ 4 .' +' .(9 */ 4 .' (" +2$ ("
*-+ (,+ (" -(' +' *+.36$(/ (,'4 .', *" (" .-.(" -3'
$.□ %
<' "4. ,(' (.$ *'/ 4 .'0 "(,&*'0 ,.('43 / 3 *,.('
3(' 5*$' * (*' + .+$'5 D *(' #+ ''(' (4.($*,(/ ,.('0 $2'
-+*,' - $#-('4+.' % 44$!(''$ */ * "(*' '(.$ *" -' .9+$$("
*-((''+$.('/ (,' * "(24.$ ($$ *" " 0.+$" '(*,$ (*,'/
,('5 %$ % *,'3 *'$9*-'+ ' '(. (*,' -('0 ,.(' +0-*((*,'
+' ,.-*(/ ,("5 $$"' *,'34*' +,-"4+.' ("+3,$ *"-('0 ,.('
0$(' ($ $-.(/ ,("5 $$" f(' *,')*,.-" -+*" +' --($+.+,$ *'
5 ('0 "+0(U #+$,(' +*' 4.($(.' (*,'5 ('0 "0 "-,("
.' ,$).(' " *('4 0(U 4+' '/ 0 " *(' -(0(U 4+" (*' +0 $.'
-%+ ,.('/ (,'0 ,.('0 *$-'* (2$' ('5 (' -+*" ("+*,(" #,' (,('
.('4$.(' $).((*,
U "4. ,(' (.$ *"4 .'0 "4(4 ('/ 5*$ -+*" (.' -(!'
! $.(' *(' 4(0(*,'+4(.3(0 $.'3)$(*' 3(' #+*$- (' -(' 3 *',$1
, ,$ *' * 0(('5 *' #+$,').$ (.'#,' (."8(2/ (,'+ 2' 4$(-"
- 5 (' *' (" +' #+$,' .(' 0+$*((*,/ (.' -(0$(*-.+$,'
*(',(' .'5 ('3("4(4 ('/ *('3 **+$''+*,'4 "*$' (.'
36(, -9$,$ (/ *$' (."$*,-.-" ("4 "3)(.'/ '(+$''(*,'
(*,.+ *(.'#,' (.'4(. (7 .'5 +0(9$-"4+.' -(,. 4('("
4. (''(" $ " *(' 0 $(*,' 4+" 5 *' (" +*$ (' #,' --,. $.('
(2! - (" ("9+9(" -(' (.'#,.(,-/ (" $$,$(*" -(' (.'.(!'
4 '/ ("4.$*($4(" -(' (.' ')'$' +*3(' (,' , " (" $(*" -('
(.'+'' 3$+,$ *'3$0$ (/ $'#+ ,'(*' .-3 + (.'4 .'(2' (' .-!'
,,$) $''((*,/ $'#+ ,' (" '+ 0(.' -(' (.'4. 4.(#.-*-'$(
W' ,46 ?1,7.65.1 ,<6 ?,41'5" 1.5 J ,< >.'<,6 ?>1.68 =4'
.67 '7 '=47.'>'<6 6.6>,J / .6 .7>'<6 6,<;457.';, / / .>'<6
6.6 / < 671.6I' .7 64?? >'<7 E7 / ?4 66'<;.' ,E7 -,46 6.1 .0
>.'1. / ?5 1' -,46 />EE .' .< ;.' / , / .<7 -,6 >.-, 16 >.' E56
<<.'>.' J5 6.8 < [6?1.,>1 ,<6.< - \71W<, /' ">>E.<6.

>.'6.6 >1, 76I' <,46 <,46 ,??,6.1 ,<6 E7 >.6 6?,5 '7 ,<6 =4'
5.<>.<7 E7 '- 5 1I' <,46 <,46 >5>-.1 ,<6 '-.;'E,1;.' ;,<71.'
5.6 ';7.6 =<' / .<';.<' '1,V'4 / .'>.6 0,11.416 >4 6.0 6'
/ .8 .7 <,46 ?1,E.66.1 ,<6 :'45. / .<7 <, 1.' '77';:. / .<7
<'57.1'05.''4@ 1>J5.6 .;;5>6 '67 =4.6 '> / 6.6 >'<6 7 '78
>.6=4.55.6 -,46 ' / '041.'>. / ' < .< 1' ,06.1-'7 ,<%
& "4. ,(' (.$ *"4 .' (" +2$ (" # + (*,+#('D'
-(' +' *+.36$(' - *,'$' *('0 ' (','4+"4(. $'' $.(/ -('
0 " --4+. $.7 5 (' +' *+,$ *' ((! - (' +' --3 +$-("$*0$!'
+) ('/ (,'5 $ '(.+$(*,', ,+ ((*,'.(*0(.'-("4+.' (" --3. "
5 $$ 0 "4.-'(*,(/ '4(3$+ ((*' 4+.' 3(2' 5*$/ (*' 32!'
(+*,' (' . $ -(', ,'(2(.3$3(' - '4 0 $.' -9$' +$#/ +) $'!'
'(*,' +' . 8+ ,(' - (7 4+.'3(2' 5 $ (*' --,. $'(*,', " ("
' ,$(*" (*' ' 44.$ +*,', " (" .+*9"$*,(. --$+$.('7 4+,'
3(2' 5 $/ (*' *$0(+*,', " (' -,+,'/ +*-+*,$"'(*,' '5 %+ '
4.$*3$4(' -(')-$"'+ 3(' 7 4+.'3(2' 5 $ (* -0(*,' + ' $$+.!'
5$$(' (" # *3 $ *" ,(" 4 " (''(*,$((" -, '9 0(.*((*'
**+.36$5 (/ '5 $ (' .(*-(*,') .- *-' -+*" 3(("
5 %$$" *$ +$''(*,7 4+.'3(2'(*#$*' 5 $,'+. -' ('4(4 (/
5 $ *,'+ * -' +' # .3('4) $5 (/ (#5 $/ (*'3 *# *-+*,'
, " -"4 $.'/ *,'$$$,. - $,'(*' .+*3(' +' 8.+ *$('4 !'
4 +$.(
' "4. ,(' (.$ *"4 .', *" (" .-.(" -(' ,+,/
4+.3(5 ($*--4(*-+ (*,' -(' +'' 44.(''$ *'$*, -.+) ((,'
$ 4 ''$) (/ 4. * *(-(' (4*,.(' (" -(2' 4.($(." .-.('/
, " *,'-,#,'$-'-'/ 0(2-'/ --4 #,$ -'/ (,'* '+ .$ $,'#,' S'
3+ (.' ,'#,' +' # $' (" -. $," - '3 (.9-/ 5 $ * +' 0 * '
*,.(' *(' #(. (' (,'9-*-.('('.(''$',+*3(' 5 ('4 .' ("
$*,-.-," - ' $(' (,' (" # *3,$ *" - ' '+$*,' $*$',-.(7 ("
-. $," -(' +' *) (''('5 $/ 4 " (*'$) (' + 2' ,.+9("#+$ "
+ ' ,.#,*(/ - *,'(('(',' +44 $/ 5 #,' +' 4(.'-(,$ *'5 (('
(4. 0(/ '+3.$#$(', ,'4 .' +*$#('(,'4+.' *' U- (' -3 + +*,'
5*+ 3 *')',+3 (' *('4(,'(4-(6(.' *'36(0+ $(.'#.+*5+$"
-(' -((*.(.'#$-- ('#,' ' *' . $/ #,' +'4+,.$(/ #,''(*'6 **(+.7
(" -. $," -(' +' +9$',.+,*.('5 $'. .((/)(+*3* 44 +"
5 (' +'4.$0+,$ *' -(' ' *' -$+ / -(''('0 $.'.-- $,('#,'9- .' '
'$ (*3(' -(' +)+*- *' -(' +' ',$3(/ -(' $ 4 *$,-' -("3.$$ ("
(' -(' +' 0$ +,$ *' -(" $'/ - *,'(('(',''(''(*,$(((*,'--!'
4 '$,+$.(7 (*#$*' (" -. "-(" 4 ''(''(."5 (3 *5 ('/
4 $'5*$'$ *(',' 4 $*,'(*' .+*3(' -('4. 4.$-,-'5 $ +$,'G,-'
.('4((,-(/ 4 $*,'-('3$, 8(*"6 **-,("5 $ * +$(*,'' #(.,/
& #, / / .<7 ?,411 .0 -,468 1.8 >,<<.1' 4<.''??1,0' %
7 ,< 6 <.>1.' .7 -'5 >.' E7 5" 7.<>4 .' ;,<67 747 ,< =4'"
?1,>77 7 7'<7 >.' / '4@ Z %
& -4 '$,+$.(' ' #. $$3.' -*' .#,*(5 ('0 "+0(U6-.$,-'
-('0 "+- 2/ 0 " *('4 0(U $ (*' +$$-*(.' (" -. $," 4$$!'
.-$+ 2/ *$ --,. $.(' $+')+'(%3 *',$, ,$0(' ' .' +5+((' $'
(','+''$'
+' -#(*'(.'*-' -(' +' .(9 *' -('0 " ,+,'/ 0 "*('4 !'
0(U 4+"3 *'(*,$.'#,3('5 $,(*-'#,'+' . $*(/ *$' +)+ - **(.'
'(" *$',.("#,' 44.).(
W' >0 7.41' >.'5" 0467 ;.' 7 ' 640.768 -, ,6<.?,77-.0'
?'6 1.<.<;.1' E7 5" E,<; ,< .66.<7 .55. / .<7 1,V'5.'>.'5"
5.41 E' 1.'1.<>1.'?'1'>.6 1 0<<''@ >J'5. .<7 3 *',@ -'/
.7> .< 6 1-. 55.1' -,46 />/ .' '> / E< 671'7 ,<%
Q . ,(($3 .' -(" -. $," -(', *" (" .-.(",' -("4*''('D'
'$ *" -(', *" -"4+.,$3 $(.'/ 0 " *('4 0(U 4+' (' +$'!'
'(.'0$ (.' (,' +*-+*,$.' 4+.' L+' 4 "+.)$,.+$.(' -(" 44.(" "'
'$ *'
< *#$*/ 4-.(' -('0 " 4(4 ('%/ 0 " *(4 *0(U4#,' ("
$0.(.'+ ' --' .-.(' (,'#,' +*+.36$(/
<' $ ('3.$ (' 5*$ 0 ")'#,-(/ (,' +' 0$ (*3(' 5*$ 0 *"
$(' (" +$*'/ *('0 "4(. 3,,3*,'4+"-(' .(4 $.'3("-(0 $."
'+(.-'/ $ " * (*' ' ,'4+" $*" 9.+0-" -+*"0 ,.('3,(*.'(*'
,.+$ " $*(##+5+)$4'/ (,'* " +33 4 $.$ *"0 ,.(%0 *,-'
.-(((*' 44 (+*,/ + ,+*,'5 $'(',/(*'* '/ #,' $ 4 -!'
)$$,-'#,'0 "'(.$(U -(' (U(.3(.
& ''$(U!0 " - (' * " (' --#(*-.(/ (,' # ''$(U!0 "
# .(-' -('0 " -$.('#$).('(*' * " (' --#(*-+*,/ 3(" -(#(*'('
-0$-((*,3 *,.+$.("#,'0 " '(*,$ (*,'/ 4 $'5 (3" ('
'(.+$(*,' + 2' 4.($(.' -('0 " -(0 $.'7 3(" -(#(*'(" ' .,$("
#$ ' '($ ' -('0 ,.(' 3+4,0,-/ 5 $ *('3(''(.+' -.(((*,'5 ('
5 +*-' 0 "4(4 (" '(. *,' .(*,.-" -+*" (' -(0 $./ (,'0 "
,. 4$ ' ' "0 ,.(')($''+*3(7 3(" -(#(*'('/ 5 $ *('4 .1
.+$(*,'+0 $.'4 "-('0+ (.'5 (, ,'3('5 ('0 "+0$(U#+$,'
+0+*,'0 ,.('' ,$(/ (,'5 ('0 "#,0(U --'+0 -'(*' $,(/ 3("
-(#(*'("(*#$*/ 5 $'(.+$(*,'$ 4.-9*-(" -(' +' - (*' $,-'
5 (' +3,('+44.)+,$#3 *,.(' (5 (' * "'(.$ ") $9-" -('
4. ,(',(./ *('4 ..+$(*,'3(.,+$*((*,'4+"* "#+$.(',.+)$.'
* ,.('-(0 $./ '+3.$#$(.'0 "$*,-.-,'/ (,' +*5*(.'#,' ;. 5,$(' +/

<.55.'>.' -,46'?1.6.<7.1' 5.'?1,Q.7>.'>>;1.764 - '<7N
' 17% W1% ' 6.1'' 7'05' '' '1 6 - <J7 =4'71.' ,EE '
; .16>.'?,5 ; .8 6,46 .' <, / ' > ,EE ; .16>.'?' @8 '-.;'
5.6 E,<;7 ,<6 ; '?1 6N
_ % .6 ,EE ; .16>.'?' @ 6.1,<7 ; : '1J.6>.'-. 55.1'
''5''71'<=4 55 7V ?405 =4.8>.'6.'?, 17.1' >'<6 5.6 ' .< '
>1, 76 ,0 .55.'6.1''71,40 V.8> '11V7.1'5.6>V <=4'<76
;7>.'5.6 ; ,<>4 1.'>.-'<7 5.'Q4J.'>.'?' @%
$ 55%'556 6.1,<7 <, / / V6 ?'1'5.6 ,E ; .16 / 4< ; '
?'4@8 .7 5.41'6.1- ; .'>41.1''=4'71.' '<6%
$ % 76 ?,17.1,<7 ?,41' / '1=4.' > 67 <;7 - .' 7<\'
0 57,<'05'<#' ''5'' / ' <8 556'>71,<5' '' ; .54 ' =4 56 ' 1V'
7.1,<7 U- ' ' ,1>,7 <.8 '4' <, / ' >.'5''5,Q8 >.' / .'
$64 -1.'>.-'<75.'Q4J.'>.'?' @%$
$ % .6 ; 7,V.<6 6.1,<7 7.<46'>.'5.41'?1E 7.1' '6M
6 67'<;.8 '' 5.41' 1V=4 6 7 ,<I .7 ; .4@ =4 ' 1.E46.1,<7
> ,0. 1' '4@ ,E ; .16>.'?' @6.1,<7 ; ,<>' / <.68 ?,41'
; ;5''6.45. / .<78 '' 71, 6 / , 6 >.'>V7.<7 ,<%
$ % .6 ,EE ; .16>.?' @8 ?.<>'<7 5''<4 78 ?,418
1,<7 1.7.< 1' 5.6 '?.16,<<.6 '11>7V.6I .55.6 6.1,<7
; ,<>4 7.6 '4'Q,41'>. '<7 5.6 ; , / / 66' 1.6 >.'?,5 ; .8
6 5 6 'J 7 > ,0Q.76 '771 04V6 ''5'' / 4< ; ?'5 7V%
$ % 5 6 'J 7 > ,0Q.76 >4' 1.66,17 >.'5''?,5 ; .'
; ,11.;7 ,<<.55.',4'>;'5''?,5 ; .'>.'6E 1.7V8 5.6 ,< ; .16
>.'?' @ ; ,<>4 1,<7 5.6 ?1V-.<468 6, 7 >.-'<7 5.'54J.'
>.'?' @>4' > 671 ;78 6, 7 >.-'<75.'041.'4' ; .<71'5'>.6
Q4J.6>.'?' @%
W % .6 ,EE ; .16>.'?' @<.'?,<11,<7 V71.'>.67 '
74.6 =4.'?'1' 71, 6 >>5 0.1'7 ,<6 64; ; .66 - .6 >4' 04M
1.'4' ; .<71'5'>.6Q4J.6>.'?' @8 ?1 6.6 '' :4 7Q,416>.'
> 67'<;.' 4<'>.' '471.%
$ "% .' 71' 7. / .<7 '<<4.5 >.6 ,E ; .16 >.'?' @
6.1''>.' 8 '5 -%8 '4@'E1' 6 >.'5'' ; , / / 4<.%
W "% .6 J'1>.6>4' ; , / / .1; .' ; ,<7 <4.1,<7 ?1,- '
6, 1. / .<7 .7?.16,<<.55. / .<7 '' .@.1; .1'5.6E,<;7 ,<6
=4 ' 5.41'6,<7 '771 0<V.6 ?'1'5.6 5, 6% \
#.6 '17 ;5.6 6,<7 '>,?7V6%
+' 41'5''?1,?,6 7 ,<'>4' / / .' / . / 01.'5.'>>;1.7
64 -'<7 .67 1.<>4N
W 17% 5.1%' '' / 4< ; ?'5 7V >.' '1 6 6.1'' 6.45.'
; : '1JV.'>.'E' 1.'.@V;47.1'5.6 1E.J5. / .<76 .7 > ,1>,< '
<.1'7,47.6 5.6 > 6?,6 7 ,<6 >.' ?,5 ; .' 641'5'' 1 - .1.'
>.' . <.8 6.6 ?,1768 1 -'J.68 0.1J.6 .7 '01.4-, 16
>'<6 <7V1 .41'>.' '1 68 6'<6 ?1VQ4> ; .'>4'1.<-, '4
5'' ?,5 ; .' ; ,11.;7 4<.55.' '' .J'1>'>.6 E' 76 =4 ' .'
6.1,<7 646;.?7 05.6%
$ % .6 / '1; : '<>6 E' 6'<7 5.' ; , / / .1; .' ?,41'
'??1,- 6 ,<<. / .<7 >.' '1 6 ?'1'.'4' 6.1,<7 7.<468
'' ?. <.'> 4<.' ' / .<>.'>.' '5 -%8 >.'>>;5'1.1' .' 5''
/ 4< ; ?'5 7V8 ,4' '' 4<'>.6 ; , / / 66' 1.6%>.'?,5 ; .8
5''=4'<7 7V >.6 / '1; : '<> 6.68 5.6 5 .4@ , .' 56 >, '
- .<7 5.6 ; : '1J.18 .5 .?,=4.'>.' '11 -V.%
W % .6 ; ,<7.67'7 ,<6 =4 ' ?,411,<7 6 V .-.1' 641'
.@.;47-,<'>.6 71' 7V68 / '1; : .68 .<71.?1 6.6 .7 E,41 '
< 741.6 1.5'7 E6'4@'??1,- 6 ,<<. / .<76>.' '1 6 ?'1'
; '4 8 .<' ; .'=4 ' ; ,<; .1<;'6.45. / .<7 5'' 5 -1' 6,<>.6
/ '1; : '<> 6.685.6 ,067' ;5.6 .7 > E ;457V6 =4 '641- .< '
>1' .<7>'<6 5.' 71'<6?,1786.1,<7 ?,17V.6 '4'71 04<'5'
>.'?,5 ; .' / 4< ; ?'5.%
W % .' 71 04<'5'>.'?,5 ; .' / 4< ; ?'5.' ; ,<<'771''
>.6 ; ,<7.67'7 ,< P%1.5'5 - .6 ''5''Q467 E ; '7 ,<'>.6=4' '
5 7V68 ''5'' 1VJ45'1 7V >.6 ?'V. / .<76 .7 '4' 1.047 >.6
=4 77'<; .68 =4 ' ?,411,<7 6 V .-.1' .<71.'5.6 ?'V.416
<;6 1.<7.6 641' 1B 7.5 >. 55.' .5'5.6 1.<7 .16%
$ % ' ; ,<<'571''?'1. 55. / .<7>.6 ; ,<71'-.<7 ,<6
'4@ 1 J5.<E.<76>.'?,5 ; .8 '' .J'1>'>.6 / ,<76 >. %
?V7.85, / 0'1>6 .7'471.6V7'05 66. / .<76>.' ; .'J.<1.8
' <6 ' =4.'>.'7,47.6 5.6 ; ,<7.67'7 ,<6 =4 ' ?.<1.<7 .<
>71.'5''64 7.%
$ % '??.5>.'7:46Q4J. / .<76 1.<>46?'1'5.'71 M
04<'5'>.'?,5 ; .' / 4< ; ?'5.'6.1'' ?,17V '4'71 04<'5'
.7'05'?'1' '17 ;5.' " '>4'5 71.' '>4' >>.1.7641'5''
?,5 ; .' / 4< ; ?'5.'.5'5''?,5 ; .' ; ,11.;7 ,<<.55.%
I$ '#'5) '' 4 !,5,'.-!)44 .'-'0 88, ' (

5.6 ; , / / 6 =4 '6.1,<7 '77' ; : V6 '4' 71 04<'5'>.'?,5 ; .'
/ 4< ; ?'5.I 5 1.J5.1'8 '-.;' '47,1 6'7 ,<'>4'> 1.; '
7, 1.'>4'>.?'17. / .<78 5. 1' 71' 7. / .<78 ; =4.5 6.1''
?'V>'?'1'5'' ; , / / 4<.%
W % .' ; ,1?6 / 4< ; ?'5 .67 '45,1 6V8 .< ; '6 >.'
0.6, <8 '' ; , / / .771.' 4<' ; , / / .'>.'5, 8 ,4' 7,47 '4M
71.' ; 7,V.<8 ?,41' 1. / ?5 1'5.6 E,<;7 ,<6 >.'64067 747
>4' ?1, ; 41.41'>.'5'' ; , / / 4<.' '4?1.6>4' 71 04<'5'>.'
?,5 ; .' / 4< ; ?'5.%
_ "% .'71' 7. / .<7 >.6 ; , / / .6 >.'5, ' ,<' '471.6
; 7,V.<6 =4 '?,411,<7 >71.' ; , / / 6 ?,41' ' >.1'5.'?1, \
; 41.41'>.'5'' ; , / / 4<.' .76.6 64067 7476>'<6 5''?,41 '
64 7.'>.6>.7 76 .<' / '7 >1.'>.'?,5 ; .' / 4< ; ?'5.' .5
; ,11.;7 ,<<.55.'6.1''?'V>'?'1'5'' ; , / / 4<.8 .7>.7.1 '
/ <>'?'1'5.' ; ,1?6 / 4< ; ?'58 '-.;' '47,1 6'7 ,<'>4'
> 1.;7, 1.'>4'>V?'17. / .<78 ?1,?,17 , <.55. / .<7 '4'
71'-' 5'>,<7 56 ,.-1,<5'>71.' ; : '1J.6%$
+' 41'4<'1'??,17E' 7'4'<, / '>4' ; , / 7>'>.'5 =4 M
>'7 ,<85.'>.;1.764 -'<7 .671.<>4'N
' W 17% W1% ' 6.1'' ?1,.>>>8 64 -'<75'' E,1 / .' ; '
'?1.68 ''5''5 =4 >'7 ,<'>.6 >.77.6 ' ;7 - .6 .7 ?'66 -.6
>.6 ; , / / 4<'47>68 ; ,1?6 .7 ; , / ?'J< .6 64??1 / >6
.7 5 = >.68 7'<7>.' ; .<@'=4 ' ,<7 .7.'?1V; .>. / / .<7
=4.'>.' ; ; ''=4 '5.'6.1,<7 ?'1'5''64 7.%

1 K Q.1%

!'

W % .6 '11>1'J.6>.'1.<7.6>; : 46 >4' 5.1' '<- .1'
(*' .7 '' .; , 18 .<6. / 05.'5.6 6, / / .6 .@ J 05.68
/ > / .'5.6; '? 7'4@>.'1.<7.68 6'5.6 1. / 0,416. / .<76%
.<'>7' .<7 ,EE.176 ,4' .@ J 05.68 >46 ?'1'>.6 ?'17 ;4 '
5 .16 ,4' ; ,1?,1'7 ,<6 ?'17 ;45 .1.68 '??'17.<'<7 ''5''
<'7 ,<8 ; , / / .'>7'<7 '?@'>1, 76>.6 ; >.-'<7 ; ,1?6
.7 ; , / ?'J< .6 64??1 1,>6 ?'1'5.6 1>6457'76>.'5''5 M
=4 >'7 ,<'>.6 ,EE ; .6>.'Q4> ; '741.' .7 '471.68 E' 7.' .7
''E' 1.8 6.1,<7 7,4; : .6 ?'1'5.6 1. ; .-.416>.6> 671 ;76
>'<6 >7.<>4.'>.6=4.56..6 ,0Q.766,<7 >46I .7'' ; .7
.EE.7 5 6.1'' .<-,->'4@'> 1 7, 1.6 >.6> 76> 671 ;768
?'1'5.' 71>6,1 .1'>.' .@71' ,1> <' 1.8 5,16=4.' 5'' 1.M
/ 6.'54 ' .<'41''>7>E' 7# ?'1'5.'> 1; ;7.41' J><>1'5'>.'
5''5 =4 >'7 ,<8 '4@'7.1 / .6>4'>>.1.7>4' ('>4'?1>.>'
>.<7 / , 6>.' / '168 '-.;'5.6 5 71.6>.6> 7.6 ;1>'<; .6I
4<'0,1>.1.'4',4' ,7'7><,<; '5 E>4'<, / '>4'>.0 7.418
>4' / ,<7'<7 .7 > ''5''<'741.'>.'6'' >.77.8 >4'<, / '>4'
6 .J.',4'>.6 ,EE ; .16 =4 ' .<'>7' .<7 ; >.-'<7 .1>'<'
; .168 .7 ?,15'<5'5.'<4 / >1,'6,465.=4.5 ; .77.; .'<#.'
'41''>7>'5'66>.''4'041.'4' >.' 5'' 5 =4 >'7 ,<' J>4>'
1'5.8 '4@'7.1 / .6>4'>.;1.7646>'7>%
' % #: '=4.'>1.;7, 1.'>.' > 671 ;7 6.'E.1''1. / .7 '
71.8 6, 7 ?'1'5.6 J1.EE .168 6, 7?'1'5.6 6V<> .6>.6> 7.6
; , / ?'J< .6 .7 ; ,1?6 64??1 / >68 ,<'?'1'7,47 '471.'
>>?,6 7' 1.'Q ; .4@ >.6> / '5 71.6 >,<7 5.6 ,1 J <'4@
< '41' .<7 ?'6 >7>'>1.66>6 .<' ; ,<E,1 / 7V>.6 ?1; ; >'
>.<76>>.1.768 6, 7 '4' ; , / 7>'>.'Q4> ; '741.8 6, 7 ''5''
> 1.;7 ,<' J.<.1'5.' >.'5 =4 >'7 ,<8 .7 .0'1J.1'' 6,<
d1. ; .-.41'>.'E' 1.'5.'1. ; ,4-1. / .<7>.6> 7.6 ;1>'<; .6I
5 '47,1 6.1'' '' >,<<.1'7,47.6 =4 77'<; .6 <.; .66' 1.6
.'5''>.; : '1J.'>.' 7'78 2 E' 1.'5''1. / 6.'>.'7,<6 7 '
71.6 .7 ? .;.68 .7 ''1. / ?5 1' ?,41' ; .7 ,0Q.7 7,47.6 5.6
E,1 / '5 7.6 <>..66' 1.6%
$ % ' / .641.'>.'5''1. ; .77.' =4.'E.1,<7 5.6 1.; .M
- .416>.'> 671 ;768 56 6;1,<7 7.<46> .<'-.16.1'5.' / ,77 '
7'<7>'<6 5'' ; ' 66.'>.' .@71' ,1> <' 1.8 >'<6 5.' / , 6
>.'5.41'?.1; .?7 ,<%
$ % .6 '11>1'J.6 , ' <7>1>76 >.'7,<6 ; '?7' "'
'5 ><>6 >.'=4.5=4.' / '<>1.' =<.' ; .'6, 78 ; >.-'<7
>46 ?'1' 7'7 '4@' > EE>1.<76 ; ,1?6 .7 ; , / ?'J< .6
64??1 / >68 '-'<7=4.' ;6 5 71.6 . '6, . 7'4>'<7 6 .7
0145>6 '4@'7.1 / .6> '>>.1.7>4' (' / '168 6.1,<71. '
Q.7>6 ?'1' 5.6 > E >1.<7 ' 71>6,1 .16 =4 ' .<' >7' .<7
?'V.4168 ' ; , / ?7.1'>4'5 1Q'4- .1'>.1< .18 ; , / / .'
' / ,17 6 '' ; , / ?7.1' >.' ; .77.'>?,=4.8 .7 / .<7 ,< .<'
6.1''E' 7.' 7'<7 ?'1'5.6> 76 71>6,1 .16 641'5.416 1.J 6 '
71.68 =4.'641'5.6 / <47.6>.6 5 71.6>.6> 7.6 ;1>'<; .6
*

?<1'7,46' 5.6' ?,5' 1.6'>>?,6 76 1;Z'>.6> 7.Z' ? <47.68'
.7' 6'7P6' E1'Q68' '' Z 1.=4Q6 % ,< 8_Z 71.6?1 .1' >.' .@
E1<<1B << 1?%' 55'>?'1'> / < ;E1'E <'B<'71 ;<1' :5 'W

- ' %%

' 3*' &

G 17% 5Z1%' %3?'<E' ' @'>.77?6' ?']Q- .6' ?? <?1 6.6' >'<6' K?7?;. V%.1EP'Q'>.' Q= >'7 ?<' > ?E` ;.68' >>1' ;1.7..'?'1' 66. / 05..' <'7 ,<'5.8' .PP8.6' 6?1 7' - .1 1' E . .6' ?'?' 5.'?,P 4? 66' 1.' >4' 1, 8' > [;7'4?' J. ?.?'5' >.'5''5 =4 >'7 ,<I' .7' ;.>.6' =4 '6,<7' .@ J 0 ?6' .1,<7' 7. / 0,Q416..Z' '' 5'' ;' 66.'>?'5 .@851'>1> E5' 1 \'.,'1.5Y ' ?5 66'<7' Q.6' E?1 / '5 7;6' ?1.6.1-.6' ?'7' Q 'E7 ?5.' ? ' '?1 68

%$5 %' ,41' 1.;.-? 1'5.?1'1. / 0?416. / .<78' 5.6' ?E 1' ?1 .7' 1.6'>.6';1. '<;.6'.> ,?;..6'.E5' 1'17 ;5.'; > FD' >,<<.1,<7' =4 77'<;.'>.'1. <0%, Q16. / .<78'>.-'?7' 4, ' 7' 1.6' '' '1 68' >4' / ,<7'<7'>.Q.416' ;1.'?..68' .1 71.' 5.6' / ' <6' >4' ;,1' / 66' 1.'>4' 1? 8' > 1.?7.41' J.?>1'' >.'5''5 =4 >'7 ,<8' '5''>.;0'1J.'>.' 7'58' .7'' ;.55.' >.6'>.0 7.<16' ,1> <' 1.6'>.' &?0Q.7' 1. / 0,416>I' .7' 56' 1. / .751,<7' '4> 7' 6 .41'> 1.;7.41' J><>1'5'>.'c'' Q=4 ' '>'75,1 8' 'V.?' .@?.> 7 ,<'>.' ?41Z' &=4 77'<;.6'>.'1. / ' 0,416. / .<78' 4?' ?.17 E ;'7' >.' ?,< ???6 7 , ' >4' ;,<6.1-'7.41' >.6' :V?,77 = .68' 5.6' ? ;.6'Q467 E ;' ' 7' -.6' >.'5.41' ?1,?1 .7.8' .7' 5 .@?.> 7 ,<' .<'E,1 / .'>.' 5.41' 5 71.'>.';1.'<%..I' 5'=4 .55.'8' >'<6' 5.' ;'6' , 5' 5.6' ;1 '<; .16' < '4?' .<7' ?'6' 6'7Q6E' 7' '<@'> 5 ,6 7 ,<6' ?1.6;1 7.6' ?'1' '17 ;5.' ' >4' 5 71.' '>.6'>.;1.76' >. ' H .7' Q6.?7. / 01.8' 6.1'' ??17 E .'?'1'5.'> 18.?5, 1?' M3' > 671 ;78' =4 '6.E.1'' '' .?7' ?EE.7' 1.?1.6.=7?V' V1.6' .7' 7'76' >.6> 76' ;,1?6' ,<' ; , <?'J<7.6%

' 8 41' 5.6>7.6' =4 77'<;.6'>.'1. / 0,416. / .47 5' 68.1''> 5 -1 '?'15.'> 1.?7.41'J <.1'5' 8>.'5''5 =4 >'7 ,<' >.6' 1.;,<<' 66'<;.6'>.' R=4 >'7 ,<' =4 ' ?,17.1?<5' 5.' <, / '>4' ;1 '<? .18' ;.54 >4' 4' >.6'>.0 7.<16' ?1 J 1' <' 1.68' 5.' / ,<7'<7'>.'5'' ;1 '<;.8' 5''>'7.>4' ?1,;.61' -.10'5'>.'5 =4 >'7 ,?8' .7' >4'>. .1.7' ?'15 ;45 .1' ?'1'6.1' =4.5' 5'' <'7 ,<' 6 .67' ;:'1J .'>.';.77.'>.77.8

W' %' 1.;, ' 66'<;.6' =4 ' 6.1,<7' > 5 -1 8.6' ?'1'5.'> 1.;7.41'J < 1'5'>.'5''5 =4 >'7 ,<8' .< ;:'?J.' >.6' =4 77'<;.6'>.'1. / 0,416. / .<78' Z.1,<7' ';=4 57 .6' '5'' ;' 66.'>.1.@51'?1> <' 1.864cE' / '<>'7>?5 '> / c1' < 671%'7.41'>.'5'> 7.'?' 66.%

' '

YV%' 5 .6'>.77.6' ?'66 -.6' ?,<67 5' %.6' .7' '5 < . Q8,<' >'<6' 5.' ;'6' >.' ?.8' .7' 5.6' E.?7.6' V 'J 1.6' 8>53<7' ! ' <'7 ,<' 6.' 71,%4-.'?'17 ;45 1. / .<7' ;:'1J .' ' @' 7.1' < . '> 4<' > ;?.7' 1%.=>77' >0' ?1,? 6 -.10'' %>. 7 ' =4 >'7 ,<'%> ,E5Q?.68' 6.1,<7' 1;8;,<670784 .c' '84Q?1?QE 7 .6' ;1.'<; .168' >.'5'' <Q'< .1.' . '?1.6%

WV %' , 1' ??.1.1' ;.77.' %1.;?=67 7Q 7 ,<Q' 5.E' ?1, ' ?1 .7' 1.6'>.6' ;1 '<;%.6' ??,?? ' .<' '17 .%5.' 8; >.6%' 6468' >,<<.1,<7' '7 'E54 77'<.?' >.'1. / 0,416. / .<7' ;, / / .' .<' '17 ?5.' 5' 4' ?1 6.<7' 7Q71.8' 6'< ' '84;%4=.' > >4;5 ,<' 641' 5.41 %;'? 7'4E%?% 01< / .'1 6,Q<' >.6' 1.7.<4 .6I' .7' E.'1. / .771,<7' '4'>% 1?;7.41J. % 1'5'>.' 5''5 =4 >'7 ,<8' '-.;'1;''?.>08,<8>.' .416' =4 57'<8?.6' >.'1. / 0,416. / .<78' 5.416' ;,<71'7 Q.7' % 71.6' >.'?1%, ' ?1 7 ' .<'5''E,1 / .'?1.6;1 7.?'1' ''17 ;5.' R' ;7 >.6646I' 5.6=4.55.6' =4 77'<;.Z' >W' GW<G * . K .17 ;,1@70%.<' >1,<7'%;.66'7 ,<'%>'11 1'J.6' ,Q'> <7 1>76' '';, 7.1' >4' 5.1'Q'<-E.1' (* %

'$ ' (A .!5, '1 ' !(' :,.0 ' :' ,),! '
1) !/(,+.5(' #3 ' !., .! '2 (!' ' (,8,5 (1I' :,'
' ;,-- ' ; '5 / .!5, '* ' ; ' ')((., !(')1 ,1'
* ' 1 '(,(') ' 0! .(' ; . + 'B((! '1
A),!1 ' 3 ' -,(' (-, ' '!' -'8) 4 ' 4 1 2 Y'
' 5 ,(' ,,,' :(.;-1 ' -. 1 DB .)/!' !' : (1'
-.* -' ' 3' 4' ' -' (' 8.,(2 1 ' ' A ,,. ' *,,+-'
(.'- !(4'-): Y1 ' ' :,!0(.! '1, ! 'A (' '1 '
1 (('1 Y *),!'.04 ' ' ,4 / 6 2(5 : ' . *!'
55 (,,,5.-'2* ' YZ ' 7

71 ?78' 6=1' 1%.Z5P8\OG7 ? '>%.c5 VE.6.7' ?7'56' >.6> 76' ;,1?6' .7' ?, / ?'J< .6' 64??1 / 68' =4 5' 6.1=' '' ;.5? .7' ?47, ' 1Q6 '8' 6.'E6 1.'1%.?1?6.?7.18'

$' / 41' 5.6= 7.6' =4 77'<;.6'>.' 1. / 0,416.Q?.<78' 56.1'' >.5 -V 8' ?=' <,<P' .7?1?QQE'>.6> 76' ;1 '<; .168' ?'1'5.> 76 .41;3 / / 66' 1.>4' 1, 8> 1.;7.41' J.< 1'5' >.'] =4 '7 ><8' >.]'1.;,<<' 66'<;.6'>.'5 =4 >'7Q,=' .<'?'1;:. / 7Q8' V'5'<7' ?,?71'7' , ' 7 71.'<,4-.5'>.6' > 7.6' 1.?7%.%6' 641' 7'78' '-.;' ?' Q,4 66'<;.'>.6' '11>' 1'J.6' '' ;, / ?7.1'>4> 7' Q,41' D 'Q'<V .1'>.1< .1%

W' .6> 7.6' 1.;,<<' 66'<;.6' ;, Q7 .<>1,<7' .<,<' ; '7 ,<'>.6' ;'? 7'4@8' 1.<7.68' %>.0 7.416' .7' ;1.'<; .16' ,1 J <%' 1.68' .7' >.6' 1.7.<4.Z' ' @=4.55.6' .55 .6' .7' .<7' 8,4'>.V' .<7' 71.' '66 .77 .6' ' <6' =4.'>.6' . .??' 7 ,?6' >.6> 7.6' 1.7?< .6' J47,1 6 .Z' ?'1'5''5, %'

$' 0.6> 7.6' 1.<7.6' 1.;,<67 74 .6' 6.1,<7' ';=4 77 .Z' ?,41' 5.' ?1. / .1' ?'V.E?.?7' >'<6' 5.6' ?1?<Q .16' Q,41Z' >.'Q'<- .1' Q(*C8' ?,41' E47 Q.' .;:4.%' J %J%17 1' >=' 5.1'Q'<- .1' (* 8' E.7.<64 7.' ?'1'6. / .671.R' ' @ / ' / .6' ?,=4.Z' =4.' ?Z J471.Z' 1.<7.Z'>.' R 7'E8' ?'1 .6' ?'V.416' >.6' 1.<7.6' 641' K7'78' '4=?.5' J > 671 0?7 > Q' .< 6.1'' E' 7.' J / .641.' =4.' R.6> 7.61.;,?= 466'<;;6' >.'5 =4 >'7 ,<' .?' %.1,<7' .@?%.> . .6%

%W. A' ,47.Z' =5 77'<;.6'>;'1. / 0,416.???7' 8& ?'6.M 1,<7' >,<?..Z' ?,41' 7.55.' ?J7?1.' >. .1.'<;%.' =4.' ;.' 6? 7' ?,%411,<7%;,<7.< 1' '4%7J<7>.'?'17 .6' =4.'P.6' ?1, ' ?1 7' 1.6'Q J.1,<7' '' ?1,?,6'> .<'1 4< 18' ?,41-4'6.4' 5.1,.?7' %=4 ;Pc. ' 6, .<7' J?' / ?%.' 7J4@8' JJQ.? .<7' .@?? ?7.5'>.' 1.7.<4%.6 .7' / ?,6 7 ,<68' ,4' =4 ;55.6' 6, .<7' 640%.77.6' ''>.6' 1.7. 4.6'%.7 < ?,6 7 ,<6' ?'1. 55.J' .7' >4.6' ,1 J <' 1. / .<7' ?'1'5.6' 7<. / .6'>. 0 7. 1Z% d

$' .6> 76' 1. / 0,416?< .<76' < 7'<7' =4.' %E ; 56' .7' 6.45. / .<7' >.67 <.6' J 7'05 1' ,1>1.' .7' 1=<RE,V< 7.' >'?6' 5.6' 5 71.6' >%.6> 7.6' ?1.'<;.6' .7' >'<Z' RJ ?'< .1.' >,<7' .55.6' 6.1,<7' ';=4 77..6' ?7' 1.?,<<?.Z' ?,? ?.' >.77.6' <'7 , '5.68' 5.6' =4 77'<;.6' >.'1.< 0,416. / .?7' 6.1,<7' 'EE1'<;: .6' >.6' >1, 7Z'> .<1?J 6 1. / .,7' .7' 8>.' 7 / 01.8' .7' 5' '.'6.1J'?, <7' .@ J '>.'Q;.17 ?;'7' >.6' :V ' ?,7: =4 .6

W '' %%%0.6'<?7J 1.6' ?.'?,411,?7' ?.1;.-, 1' ?,41' 5.6M > 7.6' %=4 77'<;.6' =4.'5.6' / .% / .6' 6, / / .6' =4 '8, 7' ?Q ' E @ .6 ?,41' Q.6' =4 77'<;.Z' %>.'1. / 0,416. <.<Ql' > ,7' E ;.8' 4+.' '17 ;5.' '' ' ><' >.%;1.7 >4' C)' <?V. / 01. (* %'\' F' ' ' ' ' $ %%

8 % %!,?Q? Z .%>.? ?>.' EJ' ?.1 / 66 ,<' >%.' %EJ 1.' >.4@' / ,7 ,<6'> ,1'1.%' ' '' 5 '> 671 5Q4 ' 'V.%;' 4<.'6' <6,5.?7.' 'EE.;7'7 ,<' ='.' ?1,7.67'7 ,<' V.V 74.' >.' 7,?6' 5.Z' 5 71.Z' J,% '?7 6' ?'1' -,71.' 3 ! ' ==.' Q.'>. / '<>.=4.'5.;??Q 5 >.' ; ,<6%7 747 ??' Q8,%<6?1.' 6.<%7.'71 Z <E.6' / / .?7'2.' ?1>Q.7' >'% Q1 .' ?Q' V.?V.6%' 6 -.' ; 7V.' ;.'>.5 7%' .'Z.;,?8>' %, D' %& .'7<'' %,7 =<' ?,17.'641' 5'' J 7<'7 ,<' J;74.55.'>.' 1 6Z%. / 05. .I -? 6' V?V.Z' ' '' J '<V?' .Z7' V J'1< .%' - ' A / '<>.'=? Q' 6? 7' E' 785.' ' =.'V'= 68' 4<' J??.Q' <, 1' ? <'5%8] \,' '??QJ?> 7%P' T' u' !

N ' 'N] '<6'>,%47.'E.'> 5 '8=4.'V,4Z' '' >.1
* *3(' 5% !,8 4$' 8*(8$,(#D %1 +N %
g .$9+(/ 8 -(' +'$- 7 'JJ
5 (' 3(' -(), '(' ,'3($'
(,.(' 4*4' 5/ (' 4+8 %6* $$+'' , *% 5 %8' +%(%*' $,(' -(''
4#*($(.'' 4 4 $3'' - $' '(4. #(*,' '4(,'4.9 (8/48 9 $'
4(. (,,(*, 5 (' #('' +3,(c' 4*) $ '%9 '' -.('9($$,'
c $(*' .(07 '' -(c%+*3$#*'J,$,.(' -(' +'8+*$, / ('
3(2'!3$ 4 36(*$' 49.' $*,(. -' <+*'%5$%$ '% c4$(*,'
4 *,'' 4+.' $*, . ' <(/ (+/+-(' - 4(' 5 (%3(2' 5 $'
4.(*-. *,' -('',$,8(c' +) $''49.' +' $' ' $(*8' 3 *-+ !'
*(' '+' , $''6(*.(' '' -(' 4+.3+*' /<$('' ,.$ = 6(''+44 9 !'
-$' '(*,?/ /(,'5 (' ('' #$/3$ (O 4#$))3c' 5 $' 4,(,(. *'
(.' $*$', .(' +' 3(' - $,' ' $(*,' -(',$, (' ' % %
%#?J Q N' .>. / JV >.Q5.'7. 7V%3Q >%.' ;.7' ,0 .7'
>.' ;,<67 747 ,<' 8' =?Q' Z'.?' ?67' >;;4? %' .

#%8 0 !1 ' () ' (,8),, ' '81 ,,(' ,,) '
! '8 (,,, ' !7 $ '58< 2 ,-(, '8 !8 (.(1 '18 (,1
66. / 05. . ' ,1>, <<. ' E.'1.7 ' ;7 > 7J%
j ' I H.E> K 7E.E.6.K7. ' '4 '<, / E5 'E;7 7: 7E '> / ' '
1>8 >> '?E.>Q.7 ' >E. ;1.7 > 'Q ?5 E. ; 7 > 5 &Q> E.' '> 1 '
< 671 '7 , <'>. '5 '' / '1 <.%
'?1, Q.7 .67 >E.E.1E.7J 6 <6' Q5 4 7N
$ 17% E;1I E.' 5 5 671E. '6.1 '' .7 5 E. : '1 > ' .5E.@E. '
;47 , <'>.6 ,1>17 '>7 '1> 8 E.5; 7 5 ' '' >7 '>E.?'17E.< E.7 78
.7 1.6?> 6 '05. '>.' , E '> / < 671 '7 ,1
W % '> / < 671 '7 >< '>.6 ?, 176 .1 '' # - 5.'Q .55.'
6.1 '' <; , / ? '7 05. ' ' - . . '7 , 47.6 E, <;7 , :6 / 5 7 ' 1.6%
W % ''> 1. ;7 , < J. <.1 '5. '>. 'B ,7 6 5.6 71 ' - '4@ .5
'?? 1>- 6 , <<. / . <7 Q >. '5 '' . , / ?5 '0 5 7E.8 >. '7> 47 '
5.6 >. ?. <6.6 >E. '5 '' ?, 5 ; . 'JE. <.1 '5. ' .7 >. ' ;5 '66.6 > 5
1.66, 17Q 6.1 '' .0 E5. . 'Q > '<6 # : '= '. ' J1 '<> ' ?, 178 '' 4<
'> / < 671 '7.41 4< =4 .8 6, 46 5. '5 71. '> ,1>, << '7. 1%
W % '> / < 671 '7 , <'>. ' ; : ' ; < :'>E. ;E.6 ?, 176 6.1 ''
> 1 6E. . ' . < 6 @ >. 7 ' 56 ?1 <; ? '4@ '=4 '6.1, 47 ;>< E .6
. , / / . ' 7 '>.6 ; : .E6 > '> / 7 6 1 '5 , <N
' ' . '' . , <67E4; >< 8 71 ' - '4@ .7 <>4- . / E. <7 '
>. '?, 17I ' < ; : .E%
$ D '16. < '5 .7 5 '' ; , 17 ?7 '0 7> '>. ' '16E.B> Q . <
Q, 41< # .6 > 04 11 .16 .7 77 '7 .1.6Q '' '0 : .EQ
) W > ' E7 'J' >J. <.1 '5 .7 <?? 107 6 , < .7 : . : 7 Q
'' 4< ; : .E%
c 8d ' ! %B $ '& , '% , '$, ' +, ' '
E.5 ' .6I '' 7 < ; : .E%
' .6 E, <>6 .7 1. - 4.68 '' 4< ; : .E%
$ ' .6 : ` ? 7 '5 ''' .7 0 ' < .6 ' '' B ; :E.E%
I $ '# ' , !) ,9 4 (-('1 ' ' ; ((') (1, Z [; . \
(,! %(B 8A),- '- ') 1 ' 1(5B 8 1 ' (.(. 7
W % . ' ; , / / '<> '<7 >. ' '1 / .6 > '7 6 0 : '= . '? ,17
<, / / .1 '' Q 7, <6 5.6 71, 6 5 5, 6I 5.6 . :6. <. ' '4
7 . / 01. ' =7 ' 7 '6.1 ''>. / '<>> ' ? '1 5. ' ; : .E >.6 1 ' '
- '4@8 ?, 41 1. ' . / ?5, V.6 I 1.@. . 7 0 : '>E.6 7<04- . '
/ . <76 >.6 ?017 Q 6, >6 5.6 1>1.6 >7 ' ; : .E. 1> : '6, 6 '
. : .E>.6 71 ' - '4@6 %
WV 5% '<6 5.6 ?, 176 , 4 5 6.1 '' >7 '05 '7 55 604 1 .E
>.6 / >4- . / . <76 '< ' ?, 17 8 5. ' ; '? 7 ' < .' .5 5. '5 .47.M
<'<7 >. '?, 17 54 '6.1, <7 640, 1>, 7 7 E.6I 5 ?, 7 11 ''>'<6
; .6 - 55.6 < E.71.% 7 '05 ' =4 4< 5 .47. < '<7 >. '?, 178 6 '
5.6 0.6> 4 '>7 '6.1- ; . '7 .@ J. :5 1 . : '>. '?5 %

; =

G 5 5% 5 ' ' J '1>. ' .7 . , :6.1- '7 05 '>. I / ' 51.6 .5
$ / 4< 7 , <6 6.1 '' ; , ?E . . '' 4< J '1>. / 'J '6 <8 =4 '6.1 ''
> 1.07. 7 . :7 1E.6?, <6 '05E. ' E.7 >, <?7 '0 . ' .1 - .16 >E '
' >, << '7.418 .7 6, 46 5 '' 641- . 55 '<; . ' >4 ; : .E>.6 '? '
?1, - 6 , <<. / . <76% 5 '41 '' 6>46 6, < '45,1 7E.' /1<. '
> '7. '5.6 6, 7 6 J '1>.6 / 'J '6 <6 .7 5.6 '471.6 'J. <76
<E. ; .66 ' 1.6I 5.6 E, <;7 , <6 >. 'J '1>. / 'J '6 < 6.1=<7
1. / ?5 .6 ? '1 >.6 6, 7 6 ; : .E68 .7 ; .55.6 >. '6, 46 J '1>. '
/ 'J '6 4 ? '1 >.6 ; , / / 6%

'' 5

) '' % '' J '1>. ' .7 > 671 047 , < '>.E.' E, <>6 6.7 '' E; <
E >. ' '' 4< ? 'V.41 , < 71E.6,1 .1%8 =4 '6.1 '' > 1. ;7. < . <7
; , / ?7 '05. ' '' 5 '' 71E.6,1.1 . '7 '7 7 '5. I 5 .1 '' # : '1JE. '
> ' ;=4 77.1 5.6 >. ?. <6.6 >E. '5 '' / '1 <. '> '?1.6 5.6 , 1M
>1.6 >. ' ,1>, << '5.418 E.7 67 - '7 5 Q> E,1 / . '=4 '6.1 '
1.6;1 7E.I 5 6.1 '' 6 46 5 '' 641- . 55 '<; . '>4 ; : .E>.6
, <>6 .7 >7 'E. , <E1 5.7 18 =4 '?=411 <7 - .1 E .1 5.6
I , / ?7.6 .7 <6?. ;7.1 6 '' ; ' 66.% 5 '41 '' 6, 46 6, < '4 '
7, 1 5. ' / / .> '7. '5.6 'J. <76 <. ; .66 ' 1;6 '4 6.1- ; . '
>. '5 '' ; '766.7 5 6.1 '' 4, / / . ' .7 ?, 411 '' >71. '>.67 77 . '
? '1 5.6 ; , / / 66 ' 1.6 '' 5 '' 71.6, 1E.1 . ' < '7 , < '5.Q .7
E, 41< 1 '' ('. '47 , <4. / .7 7 =4 ' '(.+ ?1. ;1 7%

,

((' >. ?>7 / <47.68 >.6 / 'E. :E.68 >7 '76 >E.'
E. ; .77. ' .7 E, 41< 741.68 ; , / ?7.6 >. '>E.?. <6. ' .75 . '
, .77.67 ?5 '<6 .7 ;5. - 68 , 68 .1>, : ' '4 ` .6I 01. - .76 .7

,1>1.6 >7 '1> ' '1E.5 '7 E '] 5 '' < '1 : #8 .1 '' 0, E. ' '' 7 : '
. <71 .41%
. # '5) , (8,-8 ,, ' 8 1 (!1 1+, ! ' (8 8 8 ($1 ,8, 8
() ('- ' 5 ((' (18 '8 ,, '8,8 '8) !1 ' (1 ' 4. '
(,8 2 9 2 8) !, (2 4 . 5B 2 .1A 1,5.(,) ! '
(- '(.9 . 72 +,, ; ' * ' ,5%B 8 ,8 ' 8 4 '-) ,1 B) 4 '
4 (1 4 . (, 2 '- * ! - ') ;A (, '- ') .
* , ') ' 4) !(' 5 ' * +,- ' . ; .2 ' !1 8(
5) 4 '(' . ' 4, !, ('1 ' * ' * , ,(,) ! ' ( )) ! '
(. !5 2 +,- !+ : (., (8 ., (1) ,(2 . ! '' * +,- ' , ' . '
8 , 'B, ' !1 ' + 7 5 (,) ! 1 . 5 ! ') 1 '1 ' +) '
1) ! ! . (' 2 ' K
K &# ! '-) (8 ' * ! ')!5 ! ' + 7 ' /1,(,) ! 18 '
2 () ('- ' ' , 5 '1 ') ! 1 / '1(2 +) 1 /1 ' 5 ,(2
- . ' ') - ,5 ' 1 ' ; . 7 1 '5) ! (1, 2 + 7 .5(,('1 '1 '
) ! 9,5 2 - ' 5) ! (1- ' . ;)] 1) ! ! / . ') '
1) ! ! . ('6 ,- 8, ' , ' . ,!1 ' !1 . !(1 . ! '- ' 1 (, - '
1+, ! ' 5(,) ! 1) ! (,- (5B . , 0 ; ' ') (' + 7 / (,) !1 '
* , ' , '- - ' , . 1) ! ! ' () ! '- ' ! ,0 ! 4 !((
) 4 4 !, .(, (, '1 ' ' , 5 '! 5 . ,
K # '5 ; ! (1- ' . .) ' ') 1 '1 ') '
5) ! (1- ' (1 '5) 4 4, 2 1) ! (- ' !) 4 ; . 8 '
0- ' ,9. (- + ' ;), !8 '1 ' 9,5
I &-- ' # '1 (. , - ' '. (,5 -,8 '1 '- . '5) 4 '(. ; , -, ('
1 ' , 1 4, !, (. -, ! ' ('- ' * ' (, '1 '5- .
8) ! (2 ,9 . !(- ' ,,(, ') (.B5 2 5) !8, ' . 1 5B 8 '
) ,- ' . 1 ' % 5B 8 ' 1+ . 1 4, !, (. (,) !2 . - ; 5B . 0 '7
1+ (' , ' ' ') ! . ; - /# ' !) (B; '1 '5B 8 ' A) '
5B (' ' 8,7 ' ,9 . !(- ' ;), ! '1 ' 9,5 '1 '5B . '
* ' ') (2 1 ' 48 4 ' * ' - , 1 '5) 4 4, ' * ;) !(
7 10< - .6 7 E. .E.66 ' 1.6%
K D

G ' 0 9

K & 6 # ; ' '- . '1 ') 4 ; ,, ' 8- (1 ; B! 2 .(,
;) ! ; 2 8 ; & 1 ' ; ,-) :8 (' 8 .(5 ., ' ' * (,2 . : . !-
+ 0 '1 '1,7 B ,(. ! ' .55) 4 '- , 2 .(8) ! ((8 ' (., 7(
' ! 7 .(! (' + ; 5 ,(2) (B) 0 . 'B ' (-+ . ,(B '
((,(,* ?
W &-$(# ' # , / / ' ?E5 6 >. 4@ '756 >. ' 9, 8 2
6.1, <7 .@ ' / < .6 641 5 '' ; , <> 5E. =4 56 '7 1, <7 7.177 >
? . <> '<7 ; .6 >. 4@ '<68 641 5.41 71 ' - ' 5 .7 5.41 ; '? '\
; 7.% , =4 ') ! (. ' ') $ ' ; <7504.1, <7 5. '6.1M
- ; . '>. ' ; , / / P 5.6 '471.6 6.1, <7 ; , <J. > . I
W '' % '' ; , / ?7 '0 5 7. ' 41 5.6 J '0 '11.68 ; ,1- .77.6
.7 '471.6 0 7 / . <76 '4 >.66, 46 >. ' - <J7 0 '<= '
?, 411 '' E.71. ' ; , <E . ' ''>.6 ; , / / 6 'V '07 '< / , 7 '
- <J7.7 4< '<6 ' ; ; , / ?5 I8.7 >. 4@ '<6 >E. '6.1- ; . '
> '<6 5.6 ?, 1768 .7 =4 ' '41, <7 '5,16 5. '01. - .7 >. '6, 46 '
; : .E> '> / < 671 '7 , < ?, 41 5 '' ; ' / ? 'J<.N ' 47 . '6. '
: , <>. ' ; ' / ? 'J<.8 .5 '?1E.6 ' - , 1 1. <>4 >.6 ; 0 / ?7. '
6 '7 6E '56 '<76 >. ' 5 '' ?1. / E.1.8 56 ?, 411, <7 E ' 1. '7. '
/ . / .6 E, <;7 , <6 641 4<. E1. J '5. ' .7 67 1 4< - 66. '>
>. '5 J<.%

G , ' ') ' ' ' ' ' ,* *

d < ' ,16=4 5 V '41 7 > .6 ?5 ' ; .6 >. ' I>< I ; : .7
> '> / < 671 '7 , < ,4 >. ' 46 0<71>5.41 - ' ; '<7.68
.55.6 6.1, <7 >, <<0.6 '' 7 < 0,7 ; , 416 '4=4.5 ?, 4E '
1, 7 7 6. ' ?1.6. <7.1 7, 56 5.6 # , /7 ' V 'E 7 '75 / , <6
; <= E5<6 >. '6.1- 0. '> '7 6 5.6 ?, 1768 .5 'V '<5 E ' 7 4<. '
: ' / ? 'J<. '>. ' / .1% .@ ' / . < '41 '' 5 .4 641 1 '1 5 : G '
E5 .7 =4E.8 5 '' J. , / .7B .8Q46=4.6 .7 ; , / ?1 6 5.66, 5 >. '
6.45. / . :78 640 5 '' ; , / ?7 '0 5 7. ' > .6 ?, 1768 641 5.6
0 < 7 , <6 77 ' '5.68 5.6 , ? .1 '7 , <6 ?1 '7 =4.6 >.6 I '
6. < '4@8 > .6 041. '4@ .7 >.6 ;5 '66.68 .7 '' / 01 7. 'E.J '5
6.1, <7 ?1.E. 1.6 ; .4@ =4 ' '41, <7 ?546 >. '6.1- ; .%
$ '' 55% .6 ; , < . , 416 6.1, <7 ?405 ; 6I 566.E E 7
?1.6 > .6 ? '1 ,1>, << '7.41N 5.6 ; ,1?6 '> / < 671 '7 E6
.7 / 5 7 ' 1.6 V 6E.1, <7 < - 7068 ' <6 =4. '7, 47.6 5.6
? .16, <<.6 ; : '1J. .6 >. ' E, <;7 , <6 > '<6 1 <671<. 7Q, <
?405 =7 .% (; , <6. 5 > '> / < 671 '7 , < 6.1 'Q4J. >4
; , <; , 416% .6 ; , < ; 411. <76 6.1, 47 .@ ' / ,E.68 ? '1 (

AAAAAAAAAAA ;,5.8 641 1'1 7: / >7 =4. ;7 5" J ,
1'.71 .I .7 ? '1 5. ;,<71#5.41 .7 5. 6,46\;,<71 5.418 .7
?'1 7,<6 5.6 / . / 01.6 >4 ;,<6. 5 > '> / < 671'7 , 7
641 .6 ,0Q<76 >. ?1'7 =4. >" 6.1- ;.%

) !

d " % .6 ?5';.6 >. ;:. > '> / < 671'7 ,< 6.
1,<7 >,<<..68 / , 7 > ?'1 '<; .<<.7 .7 / , 7 9 '4
;:, @ >4 1, 8 '4@ 6,46 ;:.E6 .7 6,46 ;,<71>5.416 =4
'41,<7 '4 / , <6 ; <= '<6 >. 6.1- ;. >'<6 5.41 J1'>.
.7 5 J. >. 1.<7. '<6 ';;, / ?5 6I 5.6 ;,<71>5.416 .7
5.6 ; E.E6 >.6 71'-'4@ 6.1,<7 7,4Q,416 ?1 6 '4 ;:, @
>4 1, 8 5.6 ?1. / .16 ?'1 / 5.6 ;:.E6 .7 6,46 ;:.E6 .7
6,46 ;,<71,5.4168 .7 5.6 '471.6 ?'1 / 5.6 6,46 ;:.E6
>.6 71'-'4@%

$ " "% .6 ,1>,<<'7.416 >.6 J1'<>6 ?,176 6.1,<7
?1 6 '4 ;:, @ >4 1, 8 ?'1 / 5.6 ;:.E6 > '> / < 671'7 ,<
.7 ;,<71>5.4168 ?,41-4 =4 56 ' .<7 71, 6 '<6 >. 6.1M
- ;. >'<6 5.41 J1'>.%

, %) %

W" "% . ;:.E>.] ' >.68 ;,<6714;7 ,<6 .7 71'-'4@
6.1" 6.;,<>>8 >'<6 6.6 > -.16.6 E,<;7 ,<68 ?'1 >.6
6,46 ;:.E6 .7 >.6 ' >.6 >. ;,<6714;7 ,<68 >,<7 5.
<,7<01. 6.1" 1#J5# 64 -'<7 5.6 0.6, <6 >4 6.1- ;. >.
;:.=4. ?,178 >. / > / . =4. ;.54 >.6 .5 -.6%
$ " " % V '41" 4<. .;,5. " '1 6 ?,41 5.6 >5 -.6%
$ " " % 45 <. 6.1" '> / 68 '4%7 71. > .5 -.8 =4 '4
;,<;,416641 '5J 01.8 '??5;'7 ,<>. '5J.01. "5"
J#, / #71 . .7 5.6 6.;7 ,<6 ;,< =4.68 5.6 > # / .<76 >4
;'5; 5 <E < 7.6 / '5 .7 5" / >;'< =4.8 :V>1'45 =4.
.7 .6 ;'5;456 >4 >.?5';. / .<7 .7>. 5" 67'0 5 7. >.6
-' 66;'4@%
W556 6.1,<7 7.<46 '466 >. E' 1. ?1.4-. >. 5" ;,<
<' 66'<;. > >.66 < <>;.66' 1. 2 5.416 E,<;7 ,<6I .7
;.4@ =4 '41,<7 5. / .4@ 6'7 6E' 7 " .@' / .<6.1,<7
>'<6 5.6 ?,176%

, '0

W" "5 % .6 ?5';.6 > ' >.6 6.1,<7 >,<<..68 '4
;,<;,4168 2 ;.4@ >.6 .5 -.6 =4 '41,<7 '4 / , <6
>.4@ '<6 >. 6.1- ;. >'<6 5. ?,178 .7 =4 6'7 6E.1,<7
5. / .4@ " .@' / .< 6>1 5" 7:. ,1 . .7 5'?1#7 =4. >.
5.41 .7'78 64 -'<7 5. 1 J5. / .<7 =4 6.1" 5' 7%Y
6 U
1 34.5=<.6 6';1E;.6 =4. <,46 'V,<6 E' 56 641 5.6
> 6;466 ,<6 >.6 >.1< 1.66.'<;.68 5" / 457 ?5;7, .7 1, .?
>4. >.6 >#;1.76 =4 .55.6 ,<7 E, 1<6 <,46 ,47 ;,<6 >#1"
05. / .<7 '11 #1#6% <64??5. / .<7 =4 ?'1' 71" >. / ' <<,46
/ .771" ?1,0'05. / .<7 2 Q,41%
" 6#'<#. >. / .1;1.> 5 '4 6,1 " #7> 1.4 ?5 .N
?'1 5" 5.;741. >4<. > <,<;'7 ,<>. % ,47,<8 >1.;
7.41 >. 5" ,4<' >. / J.68;,<71. 5. / 4 671. >.55<
7#1 .418 5" ;, / / 66 ,< '> / < 671'7 -. >.6 / ,<<' .6 .7 5.
;,EE57 / ,< 7' 1.8 >#<,<; '7 ,< 641 5'=4.55. 66. / 05#.
"?'66 " ,1>1.>4 Q,41I G?'1 >.6 >.0'76 74 / 4574' 1.
/ .<7 ?1,5,<J 6 641 'E' 1. >. .<';,8 2 J'1> >. 5'
=4.55. 5 " # -(3$-(/ ;<E,1 / . / .<7 + '- 6>4 ;, / 7.8
=4 V "5 .4 U 4<. <>; / <7. .<E'-.41 > ?1<;. >. ,M
<';,%
'<6 5" 6#'<;. >4 Q.4>'CC'< / '7 <8 5" . .1.<>4 4<
>.;1.7 ?,41 ';:'- / .:7 >4 7.11 .1 J.<.1'5 >. 5. >.
#,16.8 4< >>;1.7 641 5. "<,>. >. 5" 5 =4 >'7 ,< >.6 >.77.6
>.6 ; >.-'<7 ;, / / 4<'4 .6 > '1 6 .7 / .7 .168 .<E < 5. ;, / M
?5. / .<7 >4 >.;1.7 641 .6 <,5' 1.6%

;6<.B " <" " F& 4Q% G@ '#,
64 - >4 0'55.7 >. < 1

BE 7'K K ,) . 4Q% 5" G 1.?1.6.<7'7 ,<
>4 G ',4) 2 ;, / #> .<,4-.55
c >.G &
% <. 'K5 % + '4Q% F 5" CG 1.M
?1.6.<7'7 ,<>.6 6? 6? .17.6 ? / < 6,<8 ;, / .> .<,4
-.55.%
K. K H' B= 68 14. >. K ;0.5 .4% + 4^% E% E-'1.8
;, / .> .< ';7.6% 64 - . >.)@ F
. / ' <, 1 1'J.> >. '; <.%
- 78 1 ; >.-'<7 >. ,<6 .41%
+ 4Q% < H1'6.<7'<'8 ,?.1" 7'5 .<%
. / ' < 5" S $ 1.?1. / <7'5 ,< >4 G
% ,?.1' E,5 .%
> K a % K8 '5'6
,V'5% + 4Q% 5" G 1.?1.6.<7'7 ,< >. @ A
;, / #> . .< ';7.68 64 - . >. A
,?.1" .< ';7.6%
. / ' < &
B. K 3 + Q% 5" 5E.
$) 5. ?'6 >. 71, 6 '<J5'6I 7.6 $
5 5.6 6'47.416 E.1,<7 > E .1.<76 .@.1; ;.6I
1 G ?'<7, / / . 2 / ';:<.6%
) " '4 0,45.-'1> >4 . / ?5.% + 4Q% 5"
1.?1.6.<7'7 ,<>. $,4 $
?'<7, / / . .< ';7.68 ?1.;.>#. >. & " 4?755.8 .7>. "

& ' UG W C @AX I@G K ' JG AAB ?) ; A
J : ! 1 5. ;,46 <
';=4.6%
B> KK OD' ; 8 14 ' <7 '17 <% + 4Q%
! ,?.1'8 .7 % G
. / ' <5" F .?1.6.<7'7 ,<>. ' . ' F
1 ! ;, / >..< _ ';7.6%
<. K ,4-,16% + 4Q% 5" G 1.?1.M
6.<7'7 ,< >. 1H / '17 <6 ; 'I8 ,?.1' 0,45 ,<8 ?1.M
;.>. >. $,& ;, / #> . .< ';7.6%
+ 5 14. >4 '58 <p *% + 5 .67 ,<
-.177,<6 5.6 Q,4168 Q46=4 :7.55. :.41. =4 5 ?5' 7U 85.6
'0,<< 6 > V 1.67.1%

/ 8 -%
.;%+

@?1. / .16 / , 6 E% 8 5.6 'V.4166,<7 5" 5.771. %

G & % & H[

/ 67.1>' / % FF # +-$2 BT B '
@+) .9 WPG $! .<.6%%%%%%%%%%%%%%%%%%%%%%% (
,<>1.6% % % % % % % CC -,41<. % % % % % % C(
'>1 >% % % % $ % * %C6% 8 * / , 4 + '4+$.

WW

1) ! ! !6 % 66K 'K6(-
! K % <
! 6 % 6W (W
& #?)) % K (
! !) / 76 B# (! $ # G
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+ 6,178 .< 'J.1 U*
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& # ! 7 & / 7W :
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+ U - %%%%%%%%%%%%%%%%%%%%%%%%%% (*8 U 8 *8 U 8)8
1) ! 4 ! +#! R
4) !
6H ?% 64Q% - =
+ G U ?% 8 64Q% '4 U Y 8 % 6 8 8 Q

b K ' ,i ' B 5 ' %

D WGH ' 5 ' WF + ' BHTB ' ^ d " ' I ' ' '

"

' ' ,+!))(,2!& 7! 7!,(

\ ' F ' ' FA <

' ' ' # ' ' K#KK ' C ' BK %

' ' (' '0 ' '

* ! 9 F

$ " " % , 734 5 V '41" >.6?5' ; .6>.] ,46G;0.16>. ; ,<\' 6714; ,<6 - ' ; ' ' 5.68 .55.6 6.1 ,<7 > ,<< .6 '4@. .68 ' 7 . ' " ' < ; .<<.7.8 / , 7 > '4' ; : , @ >4' 1 ,\8 " ; .4@ =4 ' '<G 1,4 '4 / , <671 , 6 '<6 >.'6.1- ; . ' > '<6 ; . ' J1 ' >.%

$ " " % .6 6 ,46%W: .16 .7 5.6 >5>- .6 6.1 ,<7 ; : '1J>6 >.' 64 -1.'5.671 ' - '4@ >.6 ; , <6714;7 ,<6 % 1>? '1 '7 ,<6 .7 .<71. ' 7 .<>.6 - ' 66. '4@ .7 '471.671 ' - '4@ >4' ? ,178 6 ,46 5.6 ,1>1.6 >4 ; : .E>.6 ; , <6714;7 ,<6 .7 71 ' - '4@ 56 ? ,411 ,<7>71. ' . / % 0 '1=4>6 641 5.6 .6 ; '>1.6 .7 '1 / >.667 ' - '5.68 ? ,41V 1. / ?5 1 .'6.1- ; . ' =4 ' 5.41 .67 '771 04 `

& " " % .6 ; ,<6714;7 ,<6 .7 .<51.7 .<>.60 '7 / .<76 ; ' - 56 6.1 ,<7 ; , , >6 " <, '6 ,46 ; : .E8 6 ,46 5.6 ,1>1.6 >, ' # : .5 >.671 ' - '4@ I 7 '41 " 6 ,46 6.6 ,1>1.6 4< ,4 ?546 .416 #5 'M - .68 =4 ' 6.1 ,<7 ?1 6 '4 ; , <; ,416? '1 / '5.6 #5 - .6 >.6? ,476 .7 ; : '466# .6%

& " " % .'6 ,46 ; 0.E ; : '1J.'>.6 0 '7 / .<76 ; - 56 6.1 " ; : , 6 8 ? '1 .'7 , 8 ? '1 / '5.6 # #- .6 '1 ; 0 7. ; 7.6 'V '<7 ' ' ' / , <671 , 6 ' ,6 >.'6.1- ; . ' > '<6 5.6 ? ,176%

8 ' ' ' ' ' !! ' 0

' " " % .6 - 6 5.6 >16 E ,1#768 ; .55.6 >.6 E ,1J.6 .7 / 'M <4E ' ; 741.6 >.'5" >#? .<> '< ; . ' > 4< ? ,17 .7 '16.<'5 >.' '1 ' /# . '< ' - '5.'6.1 ,<7 E ' 7.68 ? '1 5.6 ,1>1.6 >.' ,1> ,<< ' .418 <> 67 <; 7. / .<7 ? '1 5.6 6 ,46 0.E6 >.671 ' - '4@ .7 '471.6 >.M 7 ' 56 =4 5 .4 #0 '1J.1 '%

& " " " % " - 6 5.'.7 1. ; .?7 ,< >. ' ' ?? 1 , - 6 ,<< . / .<76 6.1 " E ' 7. ' .< ?1.6.< ; . ' >.6 ; , <71>5.4168 7 '<7 ? '1 5. ' ; : .E> '> ' / < 651 '7 ,< .7 ? '1 5. ' J '1>. / 'J '6 < '4=4.5 56 >.-1 ,<7 #51. ' ; ,<E #6 =4 , ' ? '1 5. ' ; : .E >.671 ' - '4@ 8 5 ,16=4 5 6 'J 1" >.' / 4< 7 ,<6 < ' - '5.6 <# ; .66 ' 1.6 '5" ; , <6714;7 ,< ,4 J1# . ' / .<7 >.6 - ' 66. '4@ I .7 ? '1 4< ; '? 7 ' < . ' > . ' - ' 66. '48 >. ' 6.1- ; . ' > '<6 5. ' ? ,178 5 ,16=4 5 6 'J 1 " >.6 - -1.6 .7 '471.6 ,00.76 > '1 / . / .<7% . ' ?1 , ; #6 - .10 '5 >. ' 1. ; .77. ' 6.1 " 6 J<# >.6 4<6 .7 >.6 '471.6% < ; '6>. ' ; , <7.67 '7 ,<8 ,1> << '7.41 ?1 ,<, <; .1 '8 6 ,466 " 1.6? ,<6 '0 5 7#I / ' 6 5. ' , <71>5.41 6.1" ,05 J.' > <6714 1. '6 '<6 >#5 ' '5. ' / <E671. ' >. '5" ; , <7.67 '7 ,< .7 >.'5" >. ; 6 ,<%

$ " " " % " 1. ; .?7 ,< >.6 ,4-1 'JY 6.1" : 7. ' > . ' / # / . ' ? '1 5. ' ; : .E > '> / < 671 '7 ,< '4 >#7 ' ' > <=4. ' 56 1.66 ,17 ' 1 , <78 .7 ? '1 5. ' ; : .E >.671 ' - '4@%

W " " " % '6.1" .4 0 '1=4# 641 '7 ,47.6 5.6 .6 ; '>1.68 '0 ,1> >4 - ' 66. '4 ; , / / '<> '<78 >.4@ ; 0.E6 ,46 ,46 ; 0.E6 > '>M / < 671 '7 ,<8 4< ?1 6 > '<6 5.6 ; 0.E6 >. ' ; , / ?5 '0 5 7#8 =4 ' 6.1" ; : '1J. ' >. '5" ; , / ?5 '0 5 7# J#<#1 '5.>.6 ' ?? 1 , - 6 ,<<. ' / .<76 .5 >#?. ,6.6>.5 .6 ; '>1.8 .7 > <6? . ; 7.1 5 " ; , / ?5 ' ' 0 5 7. ' ? '17 ; 4 01. ' >. . 0 '=4. ' - ' 66. '4I '471.8 ?1 6 > '<6 5.6 ; : .E6 >.671 ' - '4@8 =4 '6.1" ; 0 ' # > . ' 7 , ,7. '5" ? '< ; ' > .<71.7 .< .7 >. '1.? '1 '7 ,< >.6 - ' 66. '4@%

W " " " % .6 ' ; : '768 '?? 1 , - 6 ,<< . / .<76 .7 '471.6 >#' ? .<6.6 % 6.1 ,<7 E ' 56 ? '1 5.6 ,1>1.6 >4 J.<#1 ' 8 > '?1#65.6 >. / '<>.6 >. ' .0 '=4. ' - ' 66. '48 641 5.6=4.55.6 5. ' ; : .E ; : '1M J. '> . '5" ; , / ?7 '0 5 7. ' .7 ; .54 ' ; : '1J. ' >.671 ' - '4@ 6.1 ,<7 7.446 >. '> ,<< .1 5.416 ' - 6 ? '1 # ; 1 78 ; : ' ; 4< ? ,416 " ? '17 .%

$ " " " % .6 ,1>1.6 >4 J#<#1 '58 > '<6 4<. ' .6 ; '>1.8 ,< > 4< ; ' ? 7 ' <. ' > . ' - ' 66. '4 ? '17 ; 45 .18 6.1 ,<7 7 ,40 ,416 >,<<#6 ? '1 # ; 1 78 .< / '7 .1.6> '> / < 671 '7 ,<.7> . ; , ?7 ' ' 0 5 7.8 .7 .@. ; 47.6 <, <, 067 '<7 7 ,47 ' - 6 ; , <71 ' 1.N > '<6 ; . ; '68 5. ' J.<.1 '5 ,4 5. ' ; ' ? 7 ' < . ' .?6.1 " ? '17 ; 45 #1. / . ,7 1.6? ,<6 '05.8 ; , / / .5.6 , 5 ; .16 > '> / < 671 '7 ,< .'6.1 ,<7 >. '5.416 ,?.1 '7 ,<6%

$ " " " % " >.67 < '7 ,<>.6 ,EE ; .16 ; - 56> '<65.6 ? ,176 .7 '16.< '4@8 > '<6 5.6=4 '17 .16 >.6 ; 5 '66.6 .7 ; , 5 ,< .68 '? ' ? '17 .<>1 " '< 1 , 8 .< ,06.1- '<7 5.61#J5.6 #7 '05 .6 ? ,41 5.41 ' - ' < ; . / .<7> 4< J1 ' >. ' ' '471#N 5.41< , / 01. ' .7> 6 ' 71 047 ,< 6.1 ,<7 1#J5#6 ? '1 5. ' ; , 1 ?6 #J 65 ' E ' 64 - '<7 5.6 0.6 , <6>77 6.1- ; .%

, !

6 " " " % .6 =4 '17 .16 >.6 ; 5 ' 6 6.1 ,<7 >5671 04#6 6< G

SY$ ^< ' ' .

5 57 5.415 , ; '5 7.8 > ' 6 5" >#? .<> '< ; . ' > . ' ,1> ,<< '7 ; 41 ' 40 ' ? ,17 5. ' ?546 - , 6 <8 ; , <E ,1 / . / .<7 ' 5" < ,4- .55. ' > - 6 ,< J# ,J1 ' ?0 =4. ' >4 1 ,V '4 / .8 .7 64 - '<7 5. ' 1#J5. / .<7 =4 ' 6.1" ?1#6.<7# ? '1 5. ' / < 671. ' .7 ># ; 1#7# ? '1 5. ' ; ,1 ?6 #J 6 ' 5 '7 E%

& " " " % '6.1" >1.66# >. ' / # / . ' 4< #7 '7 >.6 ? ' , 66.6 / '1 7 / .68 ? ,41 1#J5.1 5.41 >#? .<> '< ; . ' > . ' .0 '=4. ' =4 '1 ' 75.1 >.6 ; 5 '66.6 .75.6.1- ; . ' > .6 6V / ; 6%

& " " " " % .6 ; 0.E6 .7 6 ,<6 . ` ' > '> / < 671 '7 ,< >.6 ; 5 '66.6 6.1 ,<7 640 ,1> , <0#6 ' ,1> ,<< ' .41 >77 ? ,17 '<6 5" >#? .<> '< ; . ' >4=4.5 56 6.14<7 #7 '05 6%

& 56 '41 ,<7 > EE#1.<7.6 ? 'V.68 64 - '<7 / ? ,15 '< ; . ' .7 1 ; 7.<>4. ' > . '5.416 =4 '17 .16 1.6? . ; 7 E68 ' '<6 ' =4 5 6.1" '1 ' 1#7. ' ? '1 4< 1#J5. / .<7 ' ; .7 . .7%

& " " " % .6 6V<> ; 6 >.6 / '1 <6 #7 '05 6 > '<6 .0 '=4. ' 6V<> ; '7 '41 ,<7 >.6 # / ,54 / .<76 ,4 J 'J.6 1#J5#6 ? '1 5" 5, 8 .7 ?17? ,17 ,<< .6 ' 0<? ,17 '< ; . ' > . '5.<1 6.1- ; .%

8 (' ' ' !! ' (

& " " " " % .6 ,EE . .16 ; E- 56 >. ' 5" / '1 <. ' ,07 .<>1 ,<7 >.6 ? .<6 ,<6 >. '1.71 ' 7. ' .7> <- '5 >.68 ? '1 5.6 / # / .61#J5.6 =4. '5.6 ,EE >.16 / 5 7 ' 1.6 >. '5" / '1 <.8 .7 5.416 6.1- ; .6 6.1 ,<7 ; '5 ; 4 .6 >. ' / # / . ' '5" / .18 > '<6 5.6 ; ,5 ,< .68 .< ? ' @ .7 .< J4.11.%

& '& / ' ' ' !! ' (

$ " % ,47 ,EE ; ; 1 ; - 58 ? ,41-4 > 4< J1 ' >. ' ,< . / ?5 , 8 ?1#5.1 '8 .< 1. ; .- '<76 ,<01. - .7 ,4 .<71 ' <7 .77 E4< ; 7 ,<8 5. ' 6.1 / .<7 >. 'E ,< ; 7 ,<< '71.6 ?405 ; 6%

& " % ,47.6 5.6E , ' =4 4< 640 ,1> , <#1.6? ,<6 '05. '1. ' ; .-1 " >.6 ,1>1.6 =4 5 ; 1 , 1" ; , <71 ' 1.6 '7" 5, 8 5 ? ,411" >. / '<>.1 =4 ,< 5.6 4 '> , / . ' ? '1 # ; 1 78 6 '<6 ? ,4- , 1 6. ' > 6? .<6.1 >. '5.6 .@# ; 47.1% ' 6.1" 7.<4 > .< 0 , <>1. ' 4<. ' ; , ? . ' '4@ ? ; .6 >. '6" ; , / ?5 '0 5 7#%

& " % ,47 ,EE >.1 ; - 5 >. ' 5" / '1 <. ' ' ; 0. - '<7 >. ' 1. / ?5 1 4<. ' / 66 ,<8 E ,?.7 ,< ,4 . / ?5 , 8] .1 " 7.<4 >.1.< ' >1. ' ; , / ?7. ' > . '6.6 ,?.1 '7 ,<6%

& " 5 5% ,47 ,EE >.1 > - 5 ? ,<11" #71. ' ?1 , - 6 , 1. / .<7 646? .<>4> .6 .6E , < ; 7 ,<6? '1 1 ,1> ,<< '7.418 / ' 6 : . ' ? ,411" #71. ' >.67 74# 6 '<6 4<. ' >. ; 6 ,<>4 ; ,<6. 5> '> / < 671 '5 ,< > 4< >.6 J1 ' <>6? ,176 >. ' '1 / # . ' < ' - '5.8 '4=4.5 5. ' / 0< 6 ' 71. '1.< - .11 "5.6 ?5 ' ,7.6%

W " % ' ; , 6. 5 > '> / < 651 '7 ,< 6.1" ; , / ? ,6. ' >. ' ,1> ,<< '7.418 >4 ; : .E >.6 71 ' - '4@8 >. ' >.4@ ; : .E6 .7 4< 6 ,46 ; : .E >. ' ; , / ?7 '0 5 7.8 > ,< 6 ,46 ; : .E .7> 77< #5#- ' >.6 71 ' - '4@N ; .6 > , => .1 ' .1 ' '6.1 ,<7 '??.5#6 '7 ,41> . '1>5.8 ; 0 ' ; 4< > '<6 6 ,< J1 ' >.%

& . ; ,<71. .418 '4<>.66 ,46 ; ,<71 5. '1 8 '6>65. / ' '4@ ; ,<6. 56 > '> / < 671 '7 ,<8 .5 V '41" - , @1.?1.6.<7 '7 - .%

' ' '

$ " % ,1> ,<< '7.7 1 >. ' .0 '=4. ' >#? '17. / .<7 ; 0 '1J.1" 7 ,<6 5.6 '<6 4< ; ,<71 5.41 ,4 6 ,46 ; ,<71>5.41 >. '6. '1.<>1. ' > '<6 5.6 > EE#1.<56 =4 '17 .16 >.6 ; 5 '66.6 >. '6 ,< '11 ,<> 66. ' / .<78 > V -#1 .15" ; ' 66. ' .5 5.6 1 ; J 651.6 >.6 ; 0.E68 6 ,46 ' ; 0.E68 ?1 ,? ,6.6 ; 4@ ; 5 '66.68 >.6 ,EE . .16 >.6 <- '5 >.6 .5 6V<> ; 6 >.6 J.<6 >. ' / .1%

G F9(' ' ' '

W " % # : '=4. ' ,EE ; .1 ; - 5 ; : '1J. ' > 4< >.7 ' 5 6.1" ; , / ?7 '05. ' .7 1.6? ,<6 '05.% '6.1" 7.<4 > '11.7.1 6 ,< 1.J 6 ' 1. ' '5" E <>. ' ; : '=4. ' / , 68 .7 >. 'E ' 1. ' 6 ,< 0 ,1>.1. '4 >4 ; , / ?7. ' >4 / , 68 # .6 ; , / ?7.6 6.1 ,<7 - .1 E .6 ? '1 5. ' ; , <51> ' 5.41 >. '5" / '1 <.8 .7 '11#5.6 ? '1 ,1> ,<< '7.41%

W " % '5" E <>. ' ; : '=4. ' ; ,<6714 ; 7 ,<8 '1 ' > , 08 ,4 >. '7 ,47 '471. ' ,4 1 'J. ' .@. ; 47. ' > '<6 '16.<'58 5 6.1" E ' 7 4< ; , / ?7. ' ? '17 ; 45 .1 >. '5" >#? .<6. ' '5 '=4.55. '6 . #- .1" ; : '=4. '<'741. ' > ,4-1 'J.8 .< / '7 #1.6 .7 / '< > , .4-1.8 > ' . / ?5 , '> .6=4# .66.1 ,<7 1.6? ,<6 '05.6 5.6 ; 0.E6 >.671 'M - '4@ .7 ; .54 ' >. ' '16.4 '5 5. ' ; , / ?7. '6.1" E ' 7 ? '1 5. ' ; : .E >. ' '16. '58 6 J, '>. '54 ' .7 >4 ; : .E >.6 71 ' - '4@8 - 1 E. ' ? '1 . ' . ,<71>5.418 .7 '11 7 ' ? '1 1 ,1> ,<< '7.<1%

& " % 4 > 6 '1 / . / .<7> . ' .0 '=4. '0 7 / .<78 5 6.1" >1.66 '4< ; , / ?5. ' ? '17 ; 45 .1 >. '5" >.?.<6. ' >4> 7 0 7 / .<78 .< 6 ,5> .8 '??, <7. / .<768 6406 67 ' ; .68E1 ' 6> .'1.5 ; : .8 .5 1. / ?5 ' ; , / .<7> . ' ; , <6 , / / '5 ,<> . '7 ,47 J.<1.% # . ' ; , / ?7. ' 6.1" E ' 7 ? '1 1 ,EE . .1> '> / < 671 '7 ,< ; 0 ' J '> .5 ' . , / ?5 '% 0 5 5 ' >4 - ' 66. '48 ; .17 E ' ? '1 5. ' ; 'cE 7 ' < . ' >4 1 ' 6a '48 - 15 ' ? '1 - ' ; , <71 5.418 ('11 7 ' ? '1 1 ,1> , <'7.41%

[illegible]

[illegible]

>4 ;= / < 66' 1.>K Y 8' N?; B641J < ' > '5" 5 =4 >'5 ,? '
.< 5" E,1 / .' ?1.6;1 E.' \' ')* '>.I '>71;6 ?7 '<; .16 >.'
E 7' I ?,41Q 641 6,< 1'??,17 ?1 .<5? ?'1 .' ; ,' / 7? >.'
5 =4 >'7 ,<8 W71.67' >' ?'1 . ;>1?6 >J 65'Q E?.'= 7 5 '?'
?'17 .4>1'%
W " 8 ,47.6 ?.16,<<.6 =<' '41,<7>;6>1? 765 7 J .'6
' ?,<164 11.' ; ,<7E.' 5.6 ; >>-'<7 ?'V6 > > '568 ,< =='
'41' .<7 >>Q" <71,>4 55.6 <67'<;.6 " 1' 6,< >>' ;' >'<6
5.6 '<; .<6 71 04<'4@8 5.6 64 11,<7 ; ,<71'> ;7, 1. / .<7
'1. ;' 'J.<7 >75 71>6,1 ?405 ;8 ?'1 >.-'<7 5.' 71 04<'5 ><
?1. ? .1'11, > 66. <.<7>.' '1 68 '4=7 .5 7,47.' ; ,7<?>7.<;.'
;7Q41 > Q; [< .< ?.77.'?'17 . .67 .@?1.6] > / .<7 <41 04>.?'1
5.' ?1.6.<7 >>;1.7%
' Q .> 7 'J.<7 >,' 71>6?1 ?405 ;' ??416? 11" 1.; ?1,=4,Q
/ .<7 >;-'<7 5.6 71 04<'4@ ,1> <' 1.6 5" 1.<71>.'>.'7,47.6
5.6 6, ? / >6 .7 .@.1; ; '>.'7,46 7%.6>1? 76 '??'17.4'<7 ? @'
; >.-'<7 ?'V6> >7'76% ' d F ' ' F
W" "%% .6 ?'V.4168 1.; .-.41 8 71>6,1 .16 .7 '471.6 '<'
&; .<6 ; , / ?7'05.6 >.6 ; >.-'<7 ?'V6 > >5 68 '1.<>1,<7
.416 ; , / ?5.6 '4 7. / ?6 E@> ?'1 5.6 ?1>;>>.<76 >>;1. 6'
?'1 >.-'<7 5.' 041.'4 >.' ; , / ?7'0 5 7>% .6 ; ,1?6 '> / < 6'
1'7 E6 >.6 >>?'17. / %.<76 =4' .< ?<7 > > E,10 >6 06.1,<7
7> <68 <,7' / < .<7 ?,41 .@>;<7 Q, ' >,' ?1>6.<7 '17 ;5.' .7
>.6 >.4@ ?1>;>>.<768 >? E1 %<Q1 5.86 1.?6. J<. / .<76 =4'
5.41 6.1><E >.DGDGG G 'RD<Q < 671.'>I.6 ; ,471Q04 ?<6 ?E5'
05 =4.6%
6 " "% ' 6.1" >7'0 '4?1>6 >>6'E %-;6 >.J? >.-'
▮▮ > >7'76 4<' >>??Q 7' 1.' '1; :QV 67.8 <, / ' ?'?5. %'
.'>.' <7> . 18 .76'5'1 > ?'1 5. '71>6?1 ?405 ; ' ??Q E
>71.' ?'1 54 8 6,46 5" 641-. 55'<;.'>4 ; ,1?6 '> < < 6%71'5 N
'4?1>6 > J .5 .'>>?>7' .:'>5'05 8 ?<; >>' '5" 6.?'1'7 ,<
>.'5,47 ; .'=4 '?.47 07.1.66.1 ?'17 ;45 >1. <.,75.6>>?'17.'
.<56 E,1 / .6 Q>.6 ; B, -'<7 ?'V6 > >7'768 ,4 5.'J><>1'5 >,
1,V'4<Q.%
' " " ' 6.1" >1.66>8 6 'E' 7 < " > QQ >7>8 '<@ E1' 6 >,'
c71.68,1 ?405 ;8 E5 48-.<E'c1.' .< >,405.' ,1 J <'5>.6 5 71.6 .7
?'? .V6 >>?,68>6 >'<6 5.6> .6 '1 g -W% 0.' ?1. / .1 6.1"
1'??,17> 0 5" 0 0 [0>=4%.' >84E, V '8V. '7?46 58.6 5 71.6 = '
; ,<;.1<.<7 5.' J><.1'5 >4 1,V'414. '5 '84%71.'>. / .41.1" . Q
>>?,7 '4?1>5 >.' '> / , 65V' ?? >>c\'1 ? / .?7
5.=4.5 .5' 7 6 74> 5.' 6 >J.'>.' '<; .<<.' '> < < %671'7 ,<%8
'-.;'5.6 5 71.6 .7 ?'? .16 ; ,<;.1<'47 ?'1 %;4EQ& ?.%4 ?07 >
7.11Q7, 1.=4 .< >>?.<>' 7 G ' ' '
F ' ' ! ' * '8 2 ' '
.' >?'17. / .<5 >.% %' %' $ %E' 6'<7?'17 .>.'1'?7 2
?'V6 > .7'76 >.
) ' .'6,466 J<> 5'<? ;< ?'V.418 ,4 1.;.V.418 ,< 1>6,'
1 .18 ,4 '1;0 - 67.94 >>7.<7.4E >; 1.J 671.5 >.6 1.<7.6
>4.6 ?'1 '<; .<<.'?1,-<;.'>.'8 % 8 '64 -' 75" =4' '
5 5> >4 6 J<'7' 1.P 1.; ,<<' 6 .7 ;.17 E .8 .<.@>;47 ,< >.5"
5,5>4 = " ' D ' ' ' E JJ)) J A'
; ,4 ?'1 / , ' E' 7.' 641 5.6 1.J 671.6 .7 6, / / 5.16 >4
?'V. / .<7>.6> 5.6 1.<7.68 " ' ' ' ' 8 & / .571.'5.' 5.' <, /'
>.'0'?7> <.'>4 ,< >> ' ;1>'4; .16> .6Q ?1,?1 -7'51.'>.'5"
1.<7.'>.' &<, .71.' ;G5" V. 4.' .4 ; '? 7'5 .7 / >1.768 < <6'
=4.' >6 / ?,6 7 ,<6 >,<7 .55.'>7' 7 ,4 < >5' 7 ?'6 J1.->.P8
,1 J <' 1. / ; '>1>>.'?'1 '%> / < 671'7 ,< >4> '?'V6 0 6,<
?1,E 7 &,4 '4 ?1,E 7 >.' -' ' ' ' 8 .1>'<; .1 ?1<<8 E?/ .7
=4 5 "Q465 E > >.6 7 51.6.7 ? >; .6 <>; ;66' 1>6?04E%; ,<65'5.1
=4 55 .67 ?1,?1 >7' 1.'>.5' 7.' 1.<7.8 >,<7 >?'V.<Q .<'>.6
'11>1'J.6 054 E' 7 " >5> ?'66>; ; , / ?7.% ' d
'H' 7 0 % %' % 5.'% %' $
,E'% .' ;.15 E ;'7>, 7>71.' .@?>> >641 ?'? .1 7 / 01>8
/ ' 6QQ 6.1" .@. / ?7 >1, 7 > .<1.J 671. / ><7% ' FG
%" %; .' .67 5.V>.'0 71, 6 0.41.6% ' '
' 0K 7 5 K% $
! ' ' '! ' !!'C ' ! !! ' *' ! '
8 $ ' ; '4.$*3(-(-3*+34/ 4 Q $ +' '*44.(' !
'$4 ' $, '' #(2/ ' +9 ("4+,.$,* *$+ 2 (,'
-(" ', (2/ #$/ ' 4(.Q ;(/ *(4+./,$(3 *'$-(.+) (-("
3 *3(+'$) > ' #+$,(" +' '($" +$$,(/ .'/ (* (2(3 ,$ *' -'
,,+, (-((# **(/- 'BF'(A$L,(*?6. -SGFA/;-(,*+*-(
+' +' *+,$ *' *($*-(*$,(% '/3(#,(4(.,(/ 5 $'-0+!
577. 'W?Q Q7 ,<'8 Q * -8U.1.< .% F
' ,$*' + ,.(3G, f/ +' 3 ,+ $,(-(" "+ 2/ (*' . !'
0/ (7$$3(/ ' ,(*+*' 5 ,(4 4 +$9 *' / -(*+3$ ' * +' 4 '
5 %*'%(.0(.' (')$(*" ,$, ' / * 7/ (#$ *(- - (%'(*#. '
Q(/ -(4 $" $7(i7$<c +c/5 ' / $ ' '$*$ -,,($,3'

! ' 7'5 ;8 .< V.174 ' '15 ;5.' ! '>4 71' 7.'>.6
?.<..68 " >.<, Q; .' " P 66. / 05..' <'7 ,<'5.8 ; , / / .'
PQ5. J 7 / .85'?,66.66 ,<';74.55.>4?1 <; .>.' ,<';,%
' ?'1' 7 =4.8 >.6 5E 98 5" H1'<; .' '-' 5 E,1 / > 5.'
?1,Q.7 > .<5.-.1 ,?'.? '4@ 6?'J<,568 .7 =4.' , '
1.; ,< 47 '5,16 =4.'; .5" ?.' ?,4@' 7 J4.1.'6 .EE.;74.1
=4.'?'1 641?1 6.% B?<,108 <6714 7>4 >.66. < >.' 5"
; ,41'>.'H1'<; .8 .7 01E55'<7 >4 >.6 1 >.'6.'>. -1.1 >4
Q,4J >.6.6 ,??1%.66.4168 Q.<7' ?? " ; .' 64Q.7 '-.; .57.'
4<.'<.J, ; '7 ,< 6.;1.7.8 >,?7 5.'1.6457'7 E45 5.'71' 7.'
>.' .1,<<.8 >4 B 6.?7. / 01.' 9U %
.6 ?1Q? ; ?'5.6 .5'?6.6 ' =4.' 5.' 1, ' ?1.<>1"
6,46 6" ?1,7.;7 3 Q 5.' ?1 <; .'>.' ,<' ; ' .76,< 7'7 I
=4 5 / ' <7 .<>1" .7 >.E.<>1" 6" 5 0 .17. .76,4 -.1' '
<.7.I =? 5 V '41" >'<6 %,<' ; ' 4<.J'1< 6,< E1'<'
J' 6.' >.' ; <= ; .<76 ; , / 1,?68 .7 =4.' 5.' ?1 <; .'6.1" %
;'? 7? '.8 7 J,?V.1, .? ' ?,41'5.' 1, 8 >.'5" ?5' ; .%
'17 ;5.' "' %.7'?7 5.'?546 <'7?,17'<7 ? ,41 ; .77.' 'EM
E' 1.8 ' .67 .66%.<7 .5 > .< < 7.1'5 .1'5.? .47 5.6 > 6'
?,6 7 ,?6%
W EQ '<7'< '=4.' .6 6?'J<,56 ?1 -.1,<7 5.> 7 ?1 <; .'
'7,47 %'% . 'o % '>'<%6 5.'1,V'4 / .'>.' '?5.68 7'7
>.' 5'< .7 ' 5 .416 o' .8J1E % % o'=4' EE?,15?'4> 7
?1 <; .'>6 C 8c 8*' .? 6 >4 %>4;'78,<6>.' 1.<RS8.'
E,<>6 >.'5.11.6 . ,>'5.68 c' ' .67> 848 > .?.1''<7'<7>.'
1.V.<4 '<<4.5 %.J H1'<; .8 .<?'1. 55.'<'741.'>Q.'7J11.6 .<
5 .E68 W1 J.'<7 4 '?'75 .'> ; .55;6 .< 5 71.'>.>4;Q .'%.7?' 1
'>.H1'<; .'?,41 5.> 7 ?1 <; .G E '471.' .< 7 71.'>.' / '1'
= 7'7 ?,41 6,1 556 8 .7 5 <.' .<7 51.'>.' ; , 7> 8 54 'E' 6><7
>#5 -1.1 7,47.6 5.771;6 .7 .@?.>7 ,<6 641 #.' <.; ,66' 1.6 Q ;5
0,<<.' ?'17 .'>.6> 56 E. '` 6.1" .< 1, -.>;.% .55. 1.6 ,0
U' ?5' 1" 0 " 'Q.6708 ?,,1-4 =4.' #.' 6, 5 .< H1'<; .I .'
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4 $*,'#.+44,#'' +$'/ (*3 .(' *(' # $'/$,'8 +' *(' *1
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3(,,(' # *$(5 (' *+3 ' * ' 4+' #- .(%$4,(%9.-'
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' '&&& '7 fM ' *+3 '4(.-'5 (5*('36 '('+
+'.(0 ,$ */ + *+,$ *'4(*,'<A **(.'**') *'(2(4 ('
+ 2'4.$*3('+ (+*-'5 $ * '36(.36(*,'-(+ !'
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.-.('/$'0 ') $9(.+$'-(' $.(*-.('(').('*''
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.& / ' ' ' +9$,/ -+*' 3(,,('+##+$.(/ - *('
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A+44.(*-'4+.' ( ).(- ' 3 $, ' 3(*,.+*'5 (
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)$$, ' * +'4+' (*3 .(,' (*,(*- / (,' (' -$' 5*(' ('
$,(%-(' - *$+$*('/ * +8+*,'4+.' $! - ('+ (*('
.('4 *'+)$$, / *('4 0+*,'3 *'(%5 ((*'* '9+!j'
.+*$.' ('#+$' '5 %$'* ' +(24 '('/ * ' *(4 8 *'D'
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.$?/ (,'5 (/'$'0 ' + 9(U/ (' .(' .(3 '(- +0+*3(
! ' 33('' (.' 36($,F B$*',+*' -(' * ' .(' !
4 +3(.' *('+-+$.('+ ''$$ 4 .,+*,(' + +*+,$ * - $,'
)$(*'(,.(('3 +$.3$(' ('-(+*-('- *(' + .*((*,'F
+ (9$' +, .('4. ()+$*(
'$(. ' ( ).(' 4.(**(*' +'4+. ('4 . -(!'
+*-(.' +'5 (',$ *'4.(++) (' . ' %+ .*((*, VD

[illegible]

W ,, .< "E' 7 4<. ?1,?,6 7 ,< '4 ;, / 7V >.6 / ,<
'5.6 ' - '<75 "E,1 / '5 ,< >W5" ;, / / 66 ,<% ; .77. ?,=4.
5 - ,45' 7 .@ 1' 1. 5. ;4 11. >4 / 7'5 >.6 ;5, ;0.6 ?'1 >.6
?1, ;>>>6 =4 ,<78 64 1'<7 54 8 . / >1 7. >. 5" <,4- . '47.%
, E1' 7>. ?'V.1 5. / .7'5 =4 < 6.1' 7 5 11. " 1' 6,< >.
) 6, ,6 " 5 -1.I / ' 68 ?'15. / . / , 1. =4 5 "? .6.<7. " 5"
;, / / 66 ,< 5. U / ' >.1<7.18 5 " '<<,<;> =4 5 <. ?,4
- ' 7 ?546 6. ; : '1J.1 >. ; .77. ,?.1'7 ,<8 ?,41 ?546 .41.
1' 6,<6 =4 5 >. ' 55.I .76 " <,4- . 5. ?1,?,6 7 ,< " >7>>.
E' 1. 4<. / ' :1. ; , /?,6>. >. 71, 6 ; <=4 . / .6 >4 / 7'5
>.6 ;5, ; : .6 ; ,< 1. >.4@ ; <=4 : / .6 >. ;4 -1. ?41% "
' <,<; . =4. ; .77. / '7 .1.8 ' <6 '55 . .8 64??,17.1' 7 5. 5'
/ <'J. .7 5" ?1.66 ,< >4 0'5'<; .1 ?'1 >.6 ?1. ; .>.6 >,<7
5" > ` ,4- .15. 54 '??'17 .<7% .6 ; ,<> 7 ,<6 '4@=4.55.6
B% ,45,< , E1' 7>. 6. ; : '1J.1 >. ; .77. .<71.?1 6. .7' .<7N
h =4. 5.6 ? . ; .6 6.1' .<7 : 5" 7' 55. >.) '4 / '1;8 ?.6'<7
;0' ;4<. 4<. ,<; .8 >. 5" - '5.41 >. 6,46 9 >.7 .16I =4 ,<
54 '0'<>,<<.1' 7 5.6 :>7.56 >.6 ,<<' .6 >. '1 68 55.8
. 8 V,<8 K,1>. '4@8 '4 .7 K'V,<<.8 '- . ; 7,47.6 5.6
/ ' ; : <.6 .7 467.<6 5.6 <>. .66' 1.6 : 5" E'01 ; '7 ,<I =4 5 .<
'41' 7 5" > 6?,6 7 ,< Q46=, ' ; . =4. 6" E'01 ; '7 ,< 7 ' ;0.
->. I =4 5 ?,411' 7 6. 6.1- 1 >. 7.56 ,4-1 .16 =4 5 Q4J.1' 7
: ?1,?,68 6'<6 971. ,05 J. > . / ?5,V.1 5.6 'Q467.416 .7 5.6
/ ,<<'V.416%

$ #.6 ?1,?,6 7 ,<6 <. ?,4- ' .<7 6. ; ,<; 5 .1 ' - . ; <7>G
1.7 ?405 ;8 ?4 6=4 5 . : 7 E'554 .<5. - .1 : 5" E'01 ; '7 ,< >;6
.6?>. .6 > '1J.<7 5.6 ?1 <; ?'4@ :>5.56 >.6 ,<<' .6 ?,41
5.6 5 -1.1 : % ,47,<8 .7 ; ,<>' / <.1 5.6 ,4-1 .16 >. ; .6
,<<' .6 : <' ;7 ,<8 6'<6 ?'15.1 >. / ?,66 0 5 5> >.
; ,<5 .1 U 4<6.450, / / . ,< '466 J1'<> <, / 01.> '7.5 .16%
W % ,47,< " .<; ,1. 1. / 68 - .16 5" E < >.Q4 55.78 4<
<,4- . '4 / > <, 1. U5" ; , / / 66 ,<8 ?'1 5.=4.5 5 " ?1,?,6.
> '55 .1 5. / .7'5 >.6 ;5, ;0.6 U 4< =4 '17 >. ;< -1. ?418 >.
5. 1.<>1. ?'1 ; .7 '55 'J. / '55. '05.8 .7 >.5. ; ,<- .17 1.<
/ ,<<' . E1'??>.% 41 ; . / > / , 1. 5" ; , / / 66 ,< " <- 7>
% ,47,< U E' 1. 4<. .@?.1 .<; . 6,46 5.6 V.4@ >. 6.6
; , / < 66' 1.6 I 5 " >>;5'1> =4 5 <. ?,4- ' 7 5" E' 1. ' <6
.< .<7 .1% 34, =4. ; .77. > E ;457> <. ?.1 / 7 ?'6 '4@ ; , /
/ 66' 1.6 > .71. ?.164'>>6 >. >.<7 7> >. 5" / '5 >1. .7
> '- , 1 4< 1>6457'7 ; .17' <8 76 ,<7 ; ,<6.<7S '4 >>6 1 >.
% ,47,<8 .7 56 54 ,<7 1. / 6 - <J7 E5'<6 >,<7 56 ,<7 6.4
5' / .<7 ; ,<67'7. 5.?, >68 'E < =4. ; . ?, >6 ?U7 6.1- 1 U 1.
; ,<<' 71. Q4]=4 U 4< ; .17' < Q <7 5.41 >.<7 7V % ,4
7,< " '>,?7> ; .77. ?1,?,6 7 ,<I / ' 68 '4 5 .4 >. 1'??,17.1
.<64 7. 5.6 - <J7 E5'<68 5 < .< " 1'??,17> =4. > @ 6.?7% "
; , / / 66 ,<8 E1'??>. >. ; .77. > E>1.<; .8 " >>;5'1> U
% ,47,< =4 .55. <. ;1,V' ?'6 >. - , 1 7.<7.1 4<. <, ,
- .55. .@?>1 .<; .8 U / , <6 =4. 5" 7,7'5 7. >. ,?>1'7 ,<<.
6. E 7 6,46 6.6 V.4@% 34, =4. % ,47,< ' 7 1.E46> > ' ;
; .?7.1 ; .77. ?1,?,6 7 ,<8 5" ; , / / 66 ,< >7' 7 6 > , J<>. 8
>. 6 ,??,6.1 U 6.6 ?1,Q.56=4.85. ' ,978.55. ; ,<] .<7 7=4.
% ,47,< E 7 E1'??.1 U 4< >.6 0'5'<; .16 >. 5" ,<<' .
=4.5=4.6 5'<;6=4 5' ,<7' 7?1, - .< 1>.6,<?1, ;>>>%

W . >>;1.7 ?,41 5" E'01 ; '7 ,< >. 5" <,4- . 5. / ,<<' .
'V'<7 >7> 1.<>4 5. 5.<>. / ' <) ' , 78 % ,47,< 1.<,4- .5"
6.6 ?1,?,6 7 ,<6 N 5. / < 671. 1>?,<> 7 =4 5 <. 54 1.E46.
1' 7 '<;4<. E' ; 5 7>I / ' 6 =4.8 6 5 7.<>' 7 U ; ,<71'1 .1 ,4 8
U 646?.<>1. - ,71. >>;1.78 5 <. 54 .< ' ; ; ,1>.1' 7 '4;4<.%
% ,47,< 6 V .67 1.E46>I / ' 6 ; . . >> / '1;0. < " ?'6 >7>
5" >.1< >1. =4 5 ' 7 E' 7. '4?1>6 >. 5" ; , / / 66 ,<N 5 6 .67
.<; ,1. ?1>6.<7> >. - '<7 .55. 5. PP ' ,378 7.<'<7 U 5" / ' <
5" >><,<; '7 ,< =4 5 >. - ' 7 E' 1. / ?1 / .1% 54 E 7 ?'17
>. 6,< >.66. < >. 5" ?1>6.<7.1 U 66. / 05>. <'7 ,<'5. .7
>. 5" 1.<>1. ?405 =4. N " ,E .17 >. 5" 64??1 / .1 6 5"
; , / / 66 ,< - ,45' 7 ?1.<>1. .<J'J. / .<7 >. E' 1. ; .66.1
.< / > / . 7. / ?6 5.6 71' - '4@ .7 5.6 '7.5 .16 >7'05 6 > '<6 5"
/ ' 6,< >.6 K'1<'0 5;6 ?,41 5" E'01 ; '7 ,< >. 5" / ,<<' .
>>;1>7>. 5. P ' ,37I >. / .771. '466 U <67'<7 . .77. E'01 M
; '7 ,< .< '>Q4> ; '7 ,< '4 1'0' 68 .7> .< ' ; ; ,1>.1 5" ?1>
E>1.<; . '4@ > 1. ;7.416 >.6 ,<<' .6% " ; , / / 66 ,< 6 .67
; ,<7.<7>.>. 54 ,06.1- .1 =4. ,0Q.7 >. 5" >. / '<>. >. - ' 7
> 1. ?,17> / / >> '7. / .<7 '4 / < 671. >.6 ; ,<71 047 ,<6
?405 =4.68 ?'1 ,1>1. >4=4.5 5" E'01 ; '7 ,< 6 .@>;47' 7%

. / < 671. .7 5" ; , / / 66 ,< 6,<7 .<; ,1. ' ; ;46>6 >.
; : .1; : .1 U 1.7'1>.1 .@. ;47 ,< .<7 >1. >, >>;1.7=4. - ,46
' - .0 1.<>4 6<15'0'66. / ,<<' .8 'E < >.E' - ,1 6.1 ?,41
; .77. E'01 ; '7 0< =4.5=4.6 <71 J'<768 .7 ?'17 ;45 >1. / .<7
% 5.6 <7>1.66>6 U 5" / '<4E' ;741. >. , / 55V%
+34.5=4. - 'J4. =4. 6, 7 ; .77. <;45?'7 ,<8 5 .67 -1'
6. / 05'05. =4. 8 ,47,< a ?5' <7 >. ; . =4. 5'E'01 ; '7 ,<

>. 5" <,4- . 5. / ,<<' . < .67 ?'6 / 6. .< '>Q4> ; '7 ,<%
; . < .67 ?'6 U5. 6.<6 >. 6,< <;45?'7 ,<8 .55. < .< " '4;7 <%
' 6 '- ' 7 <5. 7. / ?6 <>. .66' 1. ?,41 E' 1. >.6 '>Q4> ; 'M
7 ,<6 =4 < >7' .47 ?'6 ,1>,<<>.6 ?'1 - ,71. >>;1.7 >4
' , :7Z < <. ;1' <7 ?'6 >. . > 1. N 5 < V '41' 7 ?'6 .<; ,1.
4<. ? >. . >. / ,<<' . > '<6 5" ; 1;45'7 ,< 6 ,< ' - ' 7 >7>
,05 J> >. 1. ; ,41 1 U ; .77. / .641.% ! .67 .<; ,1. ?,41 ' ; .>
>1.1 ,?>1'7 ,< .7 " 1.<>1. ?546 >; ,<, / =4. =4. 5. /
< 671. " 6,55 ; 7> >. 5" 6'J.66. >. 66. / 05>. <'7 ,<'5. 5.
>>;1.7 =4 ; ,<6' ;1. U 5" E'01 ; '7 ,< >. 5" <,4- . 5. / ,<M
<' . 5.6 - .4@ ;4 -1.6 >.6 / ' 6,<6 1.5 J .46.6 .7>.6 >J5 6.6
64??1 / >.6I .7 ; . / ,V.< 6'<6 >,47. < " ?'6 >7> / 'J <>
?,41 E' - ,1 6.1 5.6 E,41< 66.416 >. ;4 -1. .7 5" / '<4E' ;741.
>. , / 55V8 < ?,41 '4J / .<7.11, ?>1'7 ,< >4>>?'1

$,46 ' - .0 71,4-> >J.16 7,<6 .6 6' ;1 E ; .6 =4 ?,<
- ' .<7 6,45'J.1 5" ;5'66. 5" ?546 / '5: .41. '6. N 5. / < 671.
" E' 7 7,47 ; . =4 " >7> .< 6,< ?,4- , 1 ; ,<; ,41 1 U - ,6
4.6 0 . E' 6'<7.6I 5 " '?5'< 7,47.6 5.6 > E5 ;455>68 5 "
5. -> 7,46 5.6 ,067' ;5.6 ?,41 '5 / .<7.1 5.6 0.6, <6 >. 5" ; 1M
;45'7 ,<I .7 7,16=< 5 " / 6 U .@. ;47 ,< 4<. 5, =4 " ; ,<
71 04> 6 .E ; ' ; . / .<7 '4 / ' <7 ;< >. 5" 71'<=4 55 7> ?4
0 =4.8 5" / '5 J< 5> ,6. .<; ,1. 1>?>7.1 =4 5 < " ; ,<6< 7>
=4. >.6 <5>1>76 ?'15 ;45 .16 " ; , / / 66 ,< >.6 / ,<<' .6
>, 7 - ,46 <6714 1. =4 .55. E' 7 ?1>?'1.1 ; 5.6 / ,45.6 .7
5.6 5' / .6 >.67 <>6 U 6.1- 1 >. / .>>5.68 'E < >. 5.6 .<- ,V.1
>'<6 5.6 5 .4@ ,U 5 6.1" .7'05 >.6 '7.5 .16I =4. 7,46 5.6
>>?'17. / .< 6 ,<7 1.&4 ?,41 E' 1. ?'1- .< 1
'4@ 0>5.56 >.6 ,<<' .6 5.6 ;5, ; : .6 .7 5.6 - .4@ ;4 M
-1.6 >.67 <.6 U 6.1- 1 > '55 'J.I =4. 5.6 0,1>.1. '4@
4< E,1 / .6 >. 7,47.6 5.6 5 -1' 6,<6 .7 1>. .?7 ,<6 >, - .<78
64 - '<7 5.6 ,1>1.6 >4 / < 671.8 >71. '>1.66>6 U 5" ; , / / 6M
6 ,<8 ?,41 '6641.1 . / ?5, >. 7,47.6 5.6 / '7 E.1.6 .7?1>
- .< 1 5.6 > 5'? >'7 ,<6I =4. >.6 / ,>>5.6 >. E,41<. '4@ U
E' 1. 5. >. ?'17 6,<7 .@>;47>6 U '1 68 ?,41 >71. .<- ,V>6 U
7,46 5.6 : ,7.56 >.6 ,<<' .68 ' - . ; 4<. <,4- . 5. <6714;7 ,<
641 5" / '4 >1. > ,?>1.1 5. >>?'17I =4. 7,46 5.6 :>7.56 >.6
,<<' .6 6,<7 .< ; . / , / .<7 E,41, 6 >.6 ?,5<?,<6 <>. .6
6' 1.6?,41 5" E'01 ; '7 ,< >.6 <,4- . '4@ 6,46I =4. <,< 6.4
; / .<7 7. ?, <; ,< ,1 J <'5 >.6 ? >. .6 >. 6,46 .67 ' ;0. ->
>.?< 6 ?546 >. 71, 6 6. / ' <.68 / ' 6 '466 =4 5 .67 >>QU
/ 457 ?5 > .7 .<- ,V> U ?546 .416 : ,7.56 >.6 ,<<' .6I =4.8
?, ,1 ' ; .> >1.1 .<; ,1. 5" E'01 ; '7 ,< .< '4J / .<7'<7 5.6
/ ,V.<68 4< <,4- .5 '7.5 .1 - " >71. >7'05 U 0>5.5 >.6 ,<M
<' .6 .7 J'1< >. / ' ;0 =?6 ?546 >; ,<, / =4.6=4. 5.6 0'M
5'<; .168 .7 >,<7 ,< ;1, 7 ?,4- , 1 6. ?1, / .571. 5. / > / .
64; ;>6I =4. 5. / < 671.8 . / ?1.66> >. 5. - .1 7,46 5.6 ,067'M
;5.6 =41?,411' .<7 '11>7.1 ,4 1'5.<7 1 ' ;7 - 7> >. ; .6 '7.M
5 .168 " .<J'J. % 5.6 <7>1.66>6 U 5" / '<4E' ;741. >.
, / 55V U 54 ;>>.18] '<6 '4;4< 0><.E ; . 8 / '1;6 >.
;4 -1. ?41 ?,41 '55 .1 5. / >7'5 >.6 ;5, ; : .68 .< '77.<>'<7
=4. 5. >.?'17 ?4 66.>71. 0 .< >7'05 I J4. 5.6 .<71. ?1.<.416
>. 5" / '< E' ;541. >. '1,55. ,47 ; ,<6.<7S '4@ / > / .6 6'M
;1 E ; .6I =4 .<E 8 '4 / 5 .4 >. 7,47.6 5.6 > EE ;457>6 >.
7,46 5.6 J.<1.68 5. 6. '5 : ,7.5 >.6 ,<<' .6 >. '1 6 " >>QU
E,41< U5" ; 1;45'7 ,< ?546 >. 8 5 -% .< ? >. .6 >.
6,468 .7 4<. 6, / / . >J'5 .< / >7'5 >. ;5, ; : . .7 .< ;4 -1.%
% ,47,< ' ; ;46. 5. ; , / 7> .7 5" ; , / / 66 ,< >.6 / ,<M
<' .6 >. ?1,5>J.1 6?>; '5; / .<7 % 4J467. .7 B % 5.6 <M
7>1.66>6 U 5" / '<4E' ;741. >. , / 55VI 5 ?1>5.<> =4. ,<
<. - ,46 " E' 7 >>.1>7.1 '55 'J. .7 5" = '<7 7> >. ;4 -1.
=4 'E < >. 1.<>1.8 ?,41 5. ?1. / .18 ,?> '5 ,< >. >?41.
/ .<7 ?546 ; ,<6 >>1'05.E#7 >. E' 1. - .<>1. '4@ >.1< .16
4<. ?546 J1'<>. =4'<5 7> >. ;4 -1.I ; .65 U > 1. =4. 5. ; ,
/ 5> .7 5" ; , / / 66 ,< E' - ,1 6.<7 >J'5. / .<7 >.4@ .<51.
?1 6.6 >,<7 5.6 <7>1>76 6,<7 > ' / >51'5. / .<7 ,??,6.68 >.4@
.<71. ?1.<.416 >,<7 4< <. ?.47 >71.E' - ,1 6>6 '<67'1 15"
6,41; . >.6 0><>E ; .6 >. '451.% #. < .67 U < 4<. ' ; ;46'M
7 ,< < 4<. ; '5, / < . N . .67 4<. ;0 / >1.%
W " ; , / / 66 ,< < .<71.1" ?, <7 >'<6 5" > 6;466 ,< <
>, ?1,Q.78 < >.6 / ,V.<6 =4. - ,46 " ?1,?,6>6 % ,47,<%
7 66. / 05>. ;1, 7>. - , 1 '>,? 18 5" ; , / / 66 ,<8 E >>5.
U 6.6 ?1 <; ?.68 ?1.<> > ' - '<; . .<J'J. / .<7 > .< 0U7.1
.@>;47 , %
W " ; , / / 66 ,< >.6 / ,<<' .6 " 6'7 6E' 7 U 6,< >. - , 1%
#0'1J>. >. .@>;47 ,< >.6 5, 68 .55. ' \1.<>4 ; , / ?5. '4@
>J 65'7.416 >. ; . =< .5 " E' 78 .7 .55. ;1, 7 =4. .@?,6
7 ,< >. 6" ; ,<>4 7. " 64E ?,41 E' 1. > 6?'1'571. .6 <;45M
?'7 ,<6 >. ; .54 =4 6. ?'1. >4 5 71. >. 6,< >><,<; '5.41%
55. 6.<7 =4 5 .07 >7> ?,66 05. >. .1 / .1 5" 0,<.0. U ; .7
'>- .16' 1.8 6 ,7>1>7 ?405 ; .E77 ?.1 / 6 >. 541 ' ; ; ,1>.1 5'

5 5';.'>.'> 1 ;7.4E J ' >7 '7.'>>'Se_$e =77 5 1 5'06B
; , / / .'5''1. ; , / ?.<6.'>77.' '6,E7 ' .1 .%
X .?4 6'5''1. 5'; , ' >.' ;.'5'> 7 ,5E.8 '%'??14'7<.' ,77G
e.5.'>.< ; '7 , .'>.' ,47,E 8 = '5 .' .>>7 . 7> 4?.'
1.?.7 5 >77 >.6 <;45?'7 , <6 1.<E.1 / . . '>'0 ' ,< ?1. : . .
.;1 7 ' ,> 3 1. / '1>4.'6. 5. / . 7 <> '66.17 ,< E'466.8
=' 5'?. 7.71.'45 5.'>.' ; , :51.> 5
W 7 ,47,<'> 7 = ,E7 '-' 7 '6641> ' , ' '0,47' 7 '5''
7 '7 .1>'>.6 . , ; : .6 >4 .4 -1.'0'4<.8 .5 =4 'V'<7> .6'
7 ,<<>'5.' >, 1 .1 ' . / ?5,V.6)'5'' E'01 >'7 ,< K41'5'' -.1 .'
>.' ;.77.' '66.17 ,<' 56 5 ' , '71.?, >4 =4.' ; .5''> ' ' 1' 8
'K5.> 7 .67 / , <6 .6'.7 =4,' . .'=4 '1'<; .' F' ,47, N
7, 4'5.' .4 71.'0'4<.'=4 ' '' .7>'1.7 1.' >> '>J 5 6.6 >7 / ' 6,<6
1.5 J5. ,6.6'64??1 7 . .6 .1 67.' .<; ,1.'>'<6'5.6 / 'J'6 ,6 >.6
K'1<'0 7.6_' ' ''6.45. / .<7 > .' E' 7 7 < .66' '>.'1'B 'J.'>4'
,4 -1.' 044, ' '' 5'' / '7 >1.'>.6 ;5, ; : .6 ' 3 '' .7.' ; , 50
=4 4< 6.4 ' ;0>66 6 >.' ; .' / 3'5' ' <6 ' ; , / ?,6.I' .7 ; ;' / .7'5
''?1 6 >'<6'5'' E46 ,< 4<.' ; ,45.4 ;' - .17.% #.77.' ; ,45.41' ? d \
'1.<' 7 >.' ; .'=4.' '5 'J.'< '1' ?4'6 ,?>E.1'6455 6' / <.<7I
/ ' 6 '4;4<.' ? 0; .'>.' ; .7 '55 'J.'< ''> ' < 'E1'??. . ' < '?'1'
; ,<6.=4.<7 / 6.' .<; 1;45'7 ,<8 '

% #, , K 5 N ,46 -. . 6 > .<7.<>1. 5'' 0467 E M
; '7 ,< ; , / ?5.7.8 ; .' / .'6. / 05.8 '5'' ; , / / 66 ,< '>M
/ < 671'7 -.' >.6 / ,<<' .68 25 -,46 1.67.' 2 .<7.<>1.'
5.' / < 671.'>.6 ; ,<71 047 ,<6 .7 ,71.' , , / 7.'7<,<. '
7' 1.%
.' / < 671.' 6'<6 >,47.' -,46 E.1'' ?' 6.18 > 6 = .'
1,465.>.6 1.1.086'1. ?,<6.'4 ; '77'=4.6>. % ,47, %
,41' -,71.' ; , / 7>8 5 .67 <;45?.>.'7 6 ; : ,6.6N
,< 5 '1.?1, ; : .'6,< J<, '<>.I ,< 54 '1.?1, ; : .'>' '
, 1' - 454 E' -,1 6.15'' / '<4E';741.'>.' , / 5V8 .7
> ' -, 1' -'<;> =4 ,='E'01 =4' 7 >.6 6,46 >'<6 7,46
5.6 : ,7.56 >.6 ,<0' .6%
,47 ; .5'8 / .66 .416% 7<>1 7.1' 7 ?.4'>.'1 ?,<6.N
; .?.<>'<7 0.' -,46 64??5 .1' ' >.' E' 1.' >,<<.1' , , / '
<4 ; '5 ,< 2 -,71.' ; , / 7.' >.' 5'' >><,<. '7 ,< >.'
% ,47,<8 =4 '4 .67 ?546'5'' / >1'.'=4.' ; .55.'=4 ' .67
/ ?1 / . .I .7 0.' 1.?,<>1' ' 6.45. / .<7 '40,41> :4 '
=4.'5.'?1. / .1'1'??,17 >.' -,71.' ; , / 7>'=4.' % ,4 '
7,< ?1.7.<>' ' -, 1' 11 E4 > ?'1'< 5 ?' / ?:5.7 =4 5 E 7
/ ?1 / .1' &% ,' 5.'7. / ?68 =4.' ; .' ?1. / .1'1'??,178
> 6 0.8 .7' 7 ?1 : # ?'5. / .< ,4-1'J.'>.6 J.<6 5.6
?546 ; <5 6 >.' 41,?.' >'<6'5''6; .<; .'EE5,<.7' 1.'
.7?'15; 4E6; ,<<' 66'<; .6 >'<65 .; ,<, / .?,0 7 =4.I
5'64E7 7 >.' ,46; 7.1' % K,1>.5' 6 ' % ,17'<8 G %>.'
' ;V80.4<.' : , / / .' '66 6'641'5'' 5 J<.'>.6 ?1. / .16
6' -'<76'5,16=4.'5.6 '471.6 <.'E,41=4.' ; , / / .4; .1' ''
6 <6714 1.I .<7 <'> @ ,4'>,40.' '471.6 ?.16,<<.6 > 4<
/ .1 7.' '466' ; ,<< 7
'1.J'1>' >.'5'' ?1,7. ;7 ,< =4 ,< <,46 ' ; ;46.'> ' '
, 1' ; ; ,1>. .' '5'' / '<4E';741.'>.' , / 5V8 ; .67 5''
?1. / .1.'E, 6 =4 ,< 'E' 7 ; .'1.?1, ; : .8 ; '1,<'<,46
''1.?1, ; : .'?.45 51.' ' -. ;'?546 >.'1' 6,< >.'<,46 951.'
5' 66.'6.>4 1.'?'1'>.6 ?1.-.<7 ,<6 ; .<71.' ; .77.' / 'M
<4E';741.%
'1.J'1>' >.' ; .'=4.'<,46 ' -,<6 > 7 =4.' ,< E' '
01 =4' 7>4 ;4 -1.'>'<6 7,46 5.6 :>7.56 >.6 ,<<' .68
% ,47,< < .67 ?'6 0 .< <6714 7% ' '.4 : ,<<.41'
>.' -,46 > 1.' ?546 .416 E, 68 >'<6 5.6 7. / ?6 , 5 ,? '
< ,< ?405 =4.' .7' 7 '5'1 / . .8 =4.' ,< E'01 =4' 7 >4'
;4 -1.'>'<6 7,46 5.6 :>7.56 >.6 ,<<' .6I < ' 60 ' '
'0,47.'=4.' ; .7' 7 >'<6 7,46 ; .4@ ,4 5 .7' 7 ?,66 05.'
>.'E,41< 1' 5.' .4 -1.N0 ' 'E' 7 ?546 ' ; '18 641' 4<.' , : '
6.1- '7 ,< >.' % ,1- <=4 .1.8 0 '<<,<J' '<.77. / .<7
=4.8 / '5J1.'5.6 .EE,176 >.6 E,41< 66.4168 5 < .7' 7 ?'6
?,66 05.'>.' ; , / ?7.1'641'7,47 ; .' =4 56 ?1, / .77' .<7
6 ,< <.'6.' 6.1- '07 ?'6 >.6 ;5, ; : .6N ' <6'5'' >><,< '
; '7 ,< >.' % ,47,< < .67 ?'6 '>/ 66 05.% . '<'
/ , <68 6 ' -,46 ;1,V.0 =4 .55.' / .1 7.' > , ; ;4?.1' 4<
<67'<7 >.' ?546 -,71.' '77.<7 ,<8 0.' -,46 64??5 .8 04
<, / '>4 ; , < 7.'>.6 / ,<<' .68 >.'54 '?.1 / .771.'>.'6.'
1. ;4. 55 1' =4.5=4.6 / , / .<76 41' ; .77.' >.<,<; '7 ,<
=4 5 <.' ; ,<<' 7 ?'68 .7 =4 '54 ' 6.1'' ; , / / 4< =4>.8
?,41' -,46 1.<>1.' >.6 >. / ' 4 4< ; , / ?7.'?546'6'7 6G
' 6'<7 .7 ?546 >7.'> 7%

% #4 57 ' 'S ' 5.' > ,<; '7;41'6 >7'57
0,1< ' 7 >><,<; .1'5.' ; , / 7>>.6 / ,<<' .6 .7'5.' ;1 / .'
>4 / < 671.'=4 '<.' '' ?'6'?1.E.1.' ''7,47.'E'' <'7 ,<8
0.'< '41' 6'1 .< ''> 1.' ' / ' 6 5 .67 7.55. / .<7 -1' '=4 5
-.47 '77'=4.15'' 5.J 65'741.' E < 66'47I 5.' ;1>> 7 >.'
'E <'<; .6P 5.' ;1.> 7 >.' -,71.' / ,<<'5;8 (,'0 .7.1'5.'
71,405.'>'<6'1 7'78=75 25 ''E5< ? '1'>>77,<#.1'7946'5.68
7< < 671. ' ' .67 / ?,66 05.'>.' -, 1'>'<6 ; .77.'>.<,< '
. '7 , 7 '471.' ; : ,6.'=4.'5'' 4 7.'> < 6V67. / .8 ,41>'
>.?4 6'5,<J7. / ?68>.'?,77.1'5.'71,405.'.7 <=4 .7 >.'
>'<6 7,46 5.6 .6?1 768 '4 / , / .<7 ,4 5'' 6>1.7> .7'5.'
; '5 / .'>, -. : 7'1' / .<.1'5''?1,6?.1 7.' ?'1'5'' ; ,<7 '<; .'
>,<7 5.' ?.4?5.' '' 7'<7 >.'0.6, < ?,41'6,15 1'>.' .7'7
/ '7: .41.4@, :5''1.-,547 ,< '' / 6 / , / .<7'<. / .47I
/ , / .<7 =4 ' -'' '11 -.18 .7 =4.'5.6 .<<. / 6 >.' 7'7
- .<7 ' -. ;' >,45.41% .' >. / '<>.'=<.' 66. / 0E. .'
<'7 ,<'5.8 6'<6 >,<<#1'>' -'<7'J.' '' 6,< ; , / 7.' 5.'
; : 'J1 < >.'6.'0467 E .18 ?'66.' 641 . ; : ' / ?' '' ,1>1.'
>,'0,41%
''([*) ('4+''(Y .-.(- ' .
'1'??,B .41I ,46 ' -.0 ?1 ' : .1'
.<J'J. / .<7>.'>. ; >.1' 'EE' 1.'>.' % 5.'?1 <; .' ,M
<' ; ,'N0.' ;1, 6 >.-, 1' / .' 041<.1' '' -,46 >,<<.1'4<.'
77,4-.55.'5. ;741.'>4 ?1,0.7 >.'>. ;1.7%
W 66. / 05#.'<'7 ,<'5.8 ; ,<6 >#1 <7 =4.'5.'?1 <; .' ,M
<' ; ,'< '' ?, <7 .7.' 1. / 6 .< ?,66.66 ,< >.6 0 .:6 =7 >.'
-' .<7 54' 1.'1.65 74 6 .< 5' .8 .< ; ,<6.=4.<; .'>.' '1'
7 >.' # '>4 1' 7# >.6 V1#<#.6 ' .7 -,45'<7 7<' E.67;1'
6,<1.6?. ;7 ?,41'5'' ! '>.6 1' 5>6I
.' 47 5.'1'??,17 >.6 ; , / 7#'' >.6 >, / ' <. ' .7 > ?5, / 'M
7 =4.'I
$ >#107.' 7 G =4 5 < V ''5 .4 '>>550.1.1641'5'' ># ,<'
; '7 ,< >.'5'' ; , / / 4<.'>.6 K '408 5. ,>' ,7 ' E' 1.' ?1,<,<'
; .15''1. -, ; '7 ,<>16 ; ,<; .66 ,<6 E' 7.6.<'H1'<; .' '4 ?1 <; .'
,<' ; ,8 .< .@ ; 47 ,< >4 71' 5> >55 '<,> .7 >.'?1,5. ;5 ,<
E' 7 ' ' #1,< .8 5.' =' 6.?7. / 01.' 9U I
W G 34 5 3 '' 5 .4 ' <>. / <5 ' .7P E' -.41'> '?1 7 #.'
,<' ; ,P ' ; '46.'>.'5''64??1.66 ,<>.6 ,K5; .6 6. J<.41 '4@
.7 >.6 >1, 76 E#,>'4@8 >.'0467 ; .P .7 ># ?>'J.'>.?.<>'<7
>.6> 7.6 ; ,<; .66 ,<6I
W p 34.'5.' 1, '6.1'' ?1 > >.'<>J<. .1P .' 5.'?1 <; .'
,<' ; ,8 5''>.7.1 / <'7 ,< ' / '05.'>.'5'> 7.' 7 >.5<< 5#8
; ,<E,1 / > / .<7 '4@ ,05 J'7 ,<6 1#6457'<7 >4 71'5 .'>.' >'
1,<<.8 ?,418 641 5.'1.6 57'7>.' 5'' <>J, ; '75,<8 > 1.' ?'1'
5.' ; ,1?6'5 65'7 E>>5 0>1> ' <6 '=4 ' '??'1 5.7 >1'' I
'UT K<E <8 =4.'5.6 ,K ; .6 >.' 04> ; '741.' >>?.<>'<7
>.6 >, <' <.6 ,<.>>.6 '< ?1 <; .' ,<' ; ' .1 <5 5 = >.6
.7 1. / 0,416.6 '4@ >>?.<6 >4 71>6,1' ?405 ;8 6'4E / ?4M
7'7 ,<8 6 5 V' '' 5 .48 >.'7,47 ,4 >.' ?'17 .'>.'5'' 5 =4 >'7 ,<
641' <>. / <7>'>4.' '4 ?1 <; .' ,<' ; ,8 '
#.'> ;1.5 .67 '>, 7.F%
'' 6>'<; .' .67'5. -. . ' '' <.4E' : .41. %
)(! - (' 2 L'^' ! ?' ''
66. / 05. .'1.<-, .' '' 6,< ; , / 7>'>.6 E <'<; .6 ;5
>.6 ; ,<71 047 ,<6 ?405 =4.6 5.6 / . / , 1.6 >.6 / '
: 671.6 .< ; .6 ?'17 .68 ?,41' ,1J'< 6'7 ,<'>.' 5.416
041.'4@% A % A
+ 41'5''?1,?,6 7 ,<'>.' % - =4.'>.'8 ' '), A
6. / 05>.'>. ; >.' =4 4<.'>.?47'7 ,< >.' 6.6 / . / 01.6
'66 65.1''> / '<#: .'4 W 5.4 / '=4 '6.1'' ; : '<7.'>'<6
.J5 6.' / .71,?,5 7' <.8 ?,41'1.<>1.'J1' ; .6 '' .4 >.'
: .41.4@' ' ; : . - . / .<7 >.'5'' ; ,<67 747 ,<%
+' % '5.6 ?1. 6.<7.8 '4 <, / '>4 ; , / 7> '1'?M
?,1768 5.'?1,0.7 >.'> ;1.7 4 -'<7I
$ 66. / 05; .'<'7 ,<'5.8 '?1 6% -, 1' .<7.<>,' ' #,G
< 7>'>.6'1'??,1768 > ;1 7.' ; .'=4 '64 7 N
178 d ' .6 '11.76 >4 ; , 6. 5 @ 7'78 >.6 ' ;7,01.'
(U .7 ' / '16 ()98 ?,17'<71.6 '7 ,< >4 1' 7.'?466#5.'
) / '16 () 8 .<71.' .'> 1. ;5.41'J.<.1'5 >.6 7 <'<; .6 '
5.6 65.416 .65.1 <>.' .7 .> J 68 ?,41'5'' ; ,<7 <4'7 ,< .7
' ; : . -. <.<7 >4 7.11 .1'J.<.1'5 >.' 5.'>.' #,16.8 6,<7.7
>. =.41.<7 ; , / / .' <,< ' -.<468 ' <6 ' =4.' 7,47 ; ' =4
6 .< .67 64 - 8 .7 5.> 7 71' 7>'6.1'' .@. ;47.'6.54< 6'' E,1 / .'
.7 7.<.418
< ; ,<6.=4.<; .8 5.' 041. '4 >.' J. , / 051.6 ; : '1J.88
?,67.1 .41.< .<7 '4@> 76 '11.76 8 >.' ; ,<7 <4.1' .< 1.J .'5.G

[illegible]

(

66. / / .I' 5.' ; , / 7.' >E6' E <'<; .6' '' <. ; '1 ' =7 5'
'>, ?7' 7' 6' ; '5; 456' E' 76' ? '1' % , <7.6=< , 4I' ' <6'
; .77.' 'EE' 1. 5'' .67E < .% & <' / 41 / 41.>'<6' 5'' ?'17 .'
>1, 7.' E' , 46' 6' - , <6' 0 .<' =4.' 5.6' .<<. / 6' >.' 5''
71'<=4 55 7 ' ?405 =4.' 6.' 6.1-. <7' >.?4 6' =4.5=4.6'
Q, 416' > 4<' / , V.1' 71E.6 '674; .4@' .7' 71.6 / >; : '< %
, 46' 6' - , <6' / . / .8' '' ?.4' >.' ; : , 6.' ?1.68' =4.5' .67' 5.'
?. , ?5.' 6, 4-.1' '' =4 '6 J<.' 'E5Q; : .' =4 , <' 5 7' '' 7, <6'
5.6' ; , <6' >.' 14.' N - & ' ! E' ' ' A'
' #.' ?.4?5.' 6, 4-.1' <8' ; .67%4 ' ?'17 ; 45 .1'
71.6 '1 67, ;1'7.% , 47; .5'8' =4 ' <.' - .<7' =4 '' 5'' 64 7.'
>4' >.6.6?, 1' , 5' 5.6' .17<. / 6' >.' 5'' 1. - , 547 , <' , 47' >7'
Q.7.6' ?'1' ' ; ; .?7'7 , <' >4' 1, ' .7' ?'E' 5 Y< 66 , <' >4'
-; 4' J.<.1'5' >.' 5'' <'7 , <' E1'<; ' 6.8' 7, 47' ; .5'' <.'
?.<7' ?'6' '11 7.1' 5.6' 0, <6, 7, V.<6% ' .67' ?, 66 05.' =4.'
=4.5=4.6' ?.16, <<.6' ?.4' <6714 7.6' 6, .<7' .@'57..6'
641' >.' ?'1. 55.6'EE ; : .6I' / ' 6' 7, 47' ; .' =4 ' .67' 0, <'
; 7, V.<8' 7, 47' ; .' =4 ' - .47' , 1>1.' .5' 5'' 71'<=4 55 7.8'
<; ' 6.' 5' 66.' ?'6' ?1. , >1 ' '' >.6' ? J.6' 6 ' J1, 66 .16%
.' = , '6 'J 7 5' Z
' ' ' N .' >. / '<>.' ' 1>?, <>1.%
' ' N ' < V '' ?, <7' ; ' >.' =4 .67 , <N ' '' >7.'
1.<>4' ?'1' 5.' ; , / 7. >.6' E <'<; .6' 4<' ; , / ?7.% 77' '
=4 . 7 , <' ; .' ; , / ?7.Z' , <7' > ' 7, 478' , <' >. / '<>.' 4<'
'471.' ; , / ?7.% 66. / 05..' <d'' ?, <7' '> / < 671.8'
66. / 05 .' < '' ?, <7' 1. 4' > '1J.<7I' 66. / 05.' ''
, 1>, <<.' 5.6' >.?.<6.6I ; ; '6, <7' 5.6' 'J.<76' =4 ' , <7' E' 7'
5.6' >.?.<6.6' =4 ' 6, <7' 1.6?, <6' 05.6' .7' ; , <'?7' 05.6I'
' <6 8=4 '<7' '' <, 468' <, 46' ' - , <6' E' 7' E' ; .' '4@' 0.'
6, <6' >4' 7%1.6, 1=P405 ; 8' .7' ; . @' =< ' <, 46' >. / '<>.<7'
>.6' ; , / ?7.6' 6' - .<7' 0 .<' =4.' < 6' ' - , <6' 6' 4->' 5''
0'<=4.1, 47.' .<' ?1.1 '<7' 5.6' 0 .<6' <'7 , <' 4@' 5'' , 5'
56' .7' .<7% & <' '??5'4> 7P% :S' ?5'' 5.' ; , / ?7.' =4.'
, <' -?4>1' 7I' / ' 6' ; .54 5'' .67' 7, 47' 1.<>48' ?'1; .'
=4.' 5'' <'7 , <' ''Q4J>' =4.' ; .6' 0 .<6' 54 ' '??'17.<' .<78'
.7' .55.' 5.6' - .<>%& <' '??5'4> 7' >'<65'' ?'17 .' J'4; : .%P'
<6' Q.' >. / '<>.' =4 '77.<>4' =4.' 5.' ; , / ?7.' >. / '<>.'
?'1' 5.' ?1. , ? <'<7' '' >7.' 1.<>4' ?'1' % , <7.6=4 , 48'
=4 5' '' .7.' '>, ?7.' ?'1' # ; , / 7>' >.6' E <'<; .68' =4 5'
.67' / ?1 / .8' .7' =4 , <' ?.47' '77' =4.1' .7' 5.' >.0'771.8'
Q.' >. / '<>.8' > 6 Q.8' =4 , <' <.' 6 '11 7.' ?'6' 7' ; .6' / , M
7' , <6' =4 8' Q , 6.' 5.' > 1.8' 6, <7' <6 > .46.6%%
' ' N .' 64 6' E>; : ' ?, 41' 5.' ?1>, ? <'<7'
=4 5' ; / ?5, .' 6' / '58' '466' / '5' U' ?1, ?, 68' 5'' 1.6 '
6, 41; .' >.6' >>; 5' / '7 , < % .' : .' 1>?, <>6' ?, <7' '4@'
'EE ; : .68Q.' <.' E' 6' ?, <7' > 'EE ; : .68.7Q.< / 'J <.'
?'6' =4.' ?.16, <<.' >'<6' 66. / 05>.' ' 7' 5.' >1, 7' >.'
/ .' 1'<J.1' ?'1 / '5.6' .<<. / 6' >4' 0 .<' ?405 ; % & <'
1 7' >'<6' 5'' ?'17 .' J'4; : .%P
.' > 68' / .66 .4168' =4.8' 6 5' .67' >. ' : , / / .6' =4 8'
? , 41' 71, 405.1' 5'' 71'<=4 55 7V' ?405 =4.8' 6.' 6.1- .<7'
>4' ?1.7.@7.' >.' >. / '<>.1' ' 66. / 0 V.' ; .' =4 .55.' <.'
>, 7' ?, <7' '4' ?405 ; 8' Q.' <.' 64 6' ?, <7' ; .7' ; , / 1' . 5' I'
/ ' 6' Q.' 64 6' ; ; 54 ' =4 ' >. / '<>.' .@V; 47 , <' >4' >. ; .1.7'
=4.' 5'' <'7 , <' '' ' >1, 7' >.' >.<5' <>.18' .7' =4.' - , 46'
' - .0' , 05 J'7 , <' >.' >, <: .1I' , 1' ' >>.1.7' < .67' ?'6'
1. / ?5' ?'1' 5.' > 6; .416' >. G' , <7.6=4 , 48' =4 ' < .67'
=4 4<' 1'??, 17' : 67, 1 =4.8' .7' =4 8' ?'1' 5'' 1' 6, <' =4.'
66. / 05..' < .67' ?, <7' ?.16, <<.55. / .<7' 1.6?, <6' '
05.8' <.' ?.47' ?'6' >71.' 1.J'1>>' ; , / / .' 4<.' 1.>> 7 , <'
>.' ; , / ?7.% , 46' < ' - .08' .7' V, 46' <.' ?, 4-.0' ?1. 6.<7.1'
'' 5'' <'7 , <8' ; , / / .' 1.>> 7 , <' >.' ; , / ?7.8' =4.' ; .54 '
=4 ' - , 46' 6.1'' 1.<>4' ?'1' 5.' ; , / / 66' 1.' >.' 5'' 71>6, '
1.1 .<'7 , <'5.I' ; '1' Q.' < .<7.<>6' ?'6' - , 46' 6, 4 / .771.'
; , 55. ; 7 - . / .<5' , 4' <> - >4. 5. / .<7' '' 4<.' 1.>> 7 , <'
>.' ; , / ?7.% .' - , 46' ; , <6 >.1.' ?, 41' ; .=4.' - , 46' .7.68'
, 1>, <<'7.416' 64?1> / .6% ' 6 'J 7' >, <.' >.' 6' - , 1' 6'
; .4@' =4 ' , <71.=48?'V>8' '> / < 6 1>8.<' ; , <6.=4.<; .'
>.' - , 6' >>.1.768' 6, <7' .<' .7' '7' >.' 1.<>1.' 4<' ; , / ?7.'
6, / / ' 1.8' .7' . .67' ; .' =4.' - , 46' ' - .0' ?1>Q4J.' ?'1' 5.'
>>.1.7' =4.' - , 46' ' - .0' 1.<>4' 641' / , <' 1'??, 178' =4 ' .67'
.<' ?'17 .' .@>; 47>8' <, <' ?'6' ?'1' 5.' 1'??, 17' >.' % , <M
7.6=4 , 48' =4.' Q.' 1.J'1>.' ; , / / .' 4<' 71' - ' 5' ?'17 ; 4M
5 .18' .5' '4=4.5' % , <7.6=4 , 4' <.' ?.47' '77' ; 0.1' 5'

E, ' >4.' '' 4<' . , / ?7. 1.<>48' / ' 6' 0 .<' ?'1' , 05 ? '
7 , 4' , : ' - , 71.' >>; 1.7' 1.<>4' / .7' ('' ; , / / 66' 1.6' >.'
5'' 71>6, 1.1 .8' 5.6' , 1>, <<'7.416' =4 ' 5.6' , <7' ?1>.>>>68'
>.' 1.<>1.' 5.41' ; , / ?7.% .' 1>6457'7' >.6' 1. ; .77.6' .7'
>>?.<6.6' - .<7' >.' - , 46' >71.' ?1>6.<7>8' / ' 7 , <' > 7I'
, 4 8' >'<6' >.6' 7'05.'4@' =4 ' < , <7' ?'6' >7>' 5468' =4 ' <.'
5.' 6, <7' .7' 5.' 6.1, <7' ?'6' >' - '<7'J.' >4' ?405 ; % ' ; .6'
7'05.'4@8' 6 ' - , 71.' >. ; 1.7' .67' .@. ; 47.8' >, - .<7' >71.'
Q, <7.6' 5.6' ? . ; .6' =4 ' ->1 E .<7' ; .' ?1. / .1' .@?, 6>8'
. .67 ' > 1.' 5.6' >7'76' >.' >>?.<6.6' >.6' , 1>, <<'7.416'
J. <>1'4@8' >.6' / < 671.68' .7' >.' ; .4@' =4 '6, <7' '' 5''
7>7.' >.6' > EE. 1.<76' >.?'17. / .<76% , 5'' ; .' =4 ' ; , / M
?, 6.' 4<' 6, / / ' 1.' >.' ; , / ?7.' J><>1'5' >.6' 1. ; .77.6' .7'
>>?.<6.6I' - , 5'' ; .' =4.' - , 46' >.-#0' ' 5'' <'7 , <N .7' 5'
< .67' ?, <7' =4.67 , <' >.' >. / '<>.6' <6 > .46.6' >.' / ''
?'17% , 46' - , V.0' =4.' Q.' - , 46' 1'??.55.' .@>; 47 , <'
> 4<' >>; 1.78' .7' Q.' 6' 6' '466 ' 0 .<' =4.' =4 ' =4.' ; .' 6, 5'
=4 , <' <.' ?.47' - , 46' 1.<>1.' 1.6?, <6' 05.6>.6' >.7' 56I'
/ ' 6' 5' 6.1' 7' <>>..<7' =4.' ; .77.' 6.66 , < 6.' 7.1 / < 7'
\6'<6' =4.' - , 46' ?1.6.<7'66 .0' 4<' 0 5'<' .<' 1.J .8' '?'
?4V>' ?'1' >.6' 6 J<'741.6' 1.6?, <6' 05.6% 68 '
' # .67' E' 7%P
' .' 6' 6' 0 .<' =4.' 5.6' ? . ; .6' , <7' >7.' ?1, >4 7.68' .7'
; .67' ?, 41' ; .5'' =4.' Q .<' >. / '<>.' 5'' ; , / / 4< ; '7 , <'
' 66. / 05>.' .<' E, 1 / .' , 77 ; .55.I' .5' ; .67' ; .5'' =4 '
.E57' >E5' . / ?>. : .1' % '<>1.' >.' 6 J<'5.1' / ''>. / '<>.'
; , / / .' 4<.' >. / '<>.' <6 > .46.% 5' 6.1' 7' 7. / ?6'
=4 , <' / 57' E <' '' ; .6' 71 67.6' >. ; 5' / '7 , <6' =4 8' '<'
641?5468' <.' / .' 1.J'1>.<7' Q' / ' 6% .' ?.16 67. ''>.M
/ '<>.1' 5'' ; , / / 4< ; '7 , <' .<' 1>J5.' >.6' ? . ; .6' ?1, M
>4 7.6' ?'1' 5.' ; , / / 66' 1.' >.' 5'' 71>6, 1.1 .%
% ' ' , 46' ' - .0' , 1>, <<>' '4' ; , / 7.' >.' 5''
71>6, 1.1 .' >.' - , 46' 1.<>1.' ; , / ?7.8' ' - '<7' 5.' ' 6.? '
7. / 01.8' >.' 5'' 6 74'7 , <' >.6' E <'<; .6I' - , 46' ' - .0' , 1M
>, <<.' =4.' 5.' ; , / ?7.' >.' % . ; .1' 6.1' 7' > '0, 1>'
. / ?5, V.' ; , / / .' ? >..' . , / ?7'05.8' =4 .<64 .' 5.'
; , / ?7.' >.' % 4E1.6<.' - , 46' 6.1' 7' ?1.6.<7>G8' .<64 7.'
- , 46' ' - .0' >. / '<>.' 5.' ; , / ?7.' >.' 5'' 71>6, 1.1 .' Q46 '
= '4' 5W1' ' , E 7% #.5'' '' .7.' E' 7' 5.' 8' '' / > 8' .7' 5.'
; , / ?7.' '' >7>' ?1>6.<7>' .7' '??, 17.' 641' 5.' 041. '4% '
.67' ; ; , / ?'J<>' >.' ? . ; .6' Q467 E ; '7 - .6% <' '' >. '
/ '<>>' - , 6' , 1>1.6' ?, 41' / ?1.66 , <' N' - , 46' ' - .0'
, 1>, <<>' =4.' 5.' ; , / ?7.' 6.1' 7' / ?1 / >% .6' ? . ; .6'
Q467 E ; '7 - .6' 6, <7' 71.6 <, / 01.46.6I' 5.' >.?, 7' .67'
, 1>, <<.' '4' ; , / 7>' >.6' E <'<; .6% 'E47' E' 7' 4<.' <- M
7'7 , <' '' 7, 46' 5.6' / . / 01.6' >.' 66. / 05>.8' =4 ' - , 4 '
>1' .<7' .<' ?1.<>1.' ; , <<' 66'<; .8> '5 .16.' 5.6' E' 1.'
1.?1>6.<7.18' >.' 5.6' ; , / ?456.18' >.' 5.6' .@' / <.1%
, 5'' .7' 7' >.6' ; : , 6.6% 'E'47' <- 7.1' % a 5, 4.7' ''
6.' 71'<6?, 17.1' '4' ; , / 7>' >.6' E <'<; .68' .7> V' ?1.<>1.'
5'' ; , / / 4< ; '7 , <' =4 5' >>6 1.%
' ' ' N 3 4 ' 7 , <' >>.1>7>Z' =4 4<' ; , / ?7.'
6.1' 7' 1.<>4I' =4.' ; .' ; , / ?7.' 6.1' 7' / ?1 / >8' .5' =4 5'
6.1' 7' 1.<>4' 641' 5.6' ? . ; .6' =4.' <, 46' .<- .11' .<7' 5.6'
> - .16' ; , / ?7'05.6% ' <7.<'<7' 5.' ; , / ?7.' .67' >5'05 8'
.7' 5' .67' ' / ?1.66 , <%'
% #.1< , <' / , <7' '' 5'' 71 04<.' : .1' '4' / '7 <8' .7 5'
'' > 7' =4 , <' / ?1 / ' 7' 5.' ; , / ?7.8' / ' 6' =4.5.6' ? . ; .6'
'' '??4 > ; ; .' ; , / ?7.' 6, <7' 6 ' / 457 ?5 >.6' =4 5' .67'
/ ?, 66 05.' >.' 5.6' E' 1.' / ?1 / .1% .' - , 46' ?'1' 71' 7 5'
?'6' ?546' ; , <- .<'05.' >.' >>?, 6.1' ; .6' ? >..6' > '0, 1>'
'4' ; , / 7>' >.6' E <'<; .68' .<64 7.' ' - , 6' '1; : - .68'
=4 '<>' - , 71.' 6.66 , <' E5< 1'' 8' ?, 41' =4.' 7, <6' ; .4@' =4 '
, <7' >1, 7' > .<' ?1.<>1.' ; , <<' 66'<; .' ?4 66.<7' '57.1'
5'' ->1 5 .1' 5.6' ? . ; .6' > '?1.6' 5.' ; , / ?7.' / ?1 / >' =4 '
- , 46' 6.1'' 1.<>4% '?1>6' ; .5' Q Q.' >. / '<>.' 6 ' 5.' >>'
; 1.7' < .67' ?'6' .@>; 47.8' .7' 6' 5'' / , 7 , <' >.' % '5, 4.1'
< .67' ?'6' 1. / ?5 .I' Q.' >. / '<>.' >, ?.' =4 , <' ?'66.' ' c'
, 1>1.' >4' Q, 41% G
66. / 05..' ?'66.' '' =1>1.' >4' Q, 41%
+' % #: '?.5 .1' ?1>6.<7.' 5'' 64 7.' >.6' >; ; 1.76' 641'
<67 747 , <' .7' 641' 5.6' E, <; 7 , <6' >4' <, 7'1 '7%
56' 6, <7' '>, ?7.6' ' <6 ' =4 56' 64 - .<7N

/ ' <=

; ('! ' ' ' ') (' ' . 6

9 ' (

' ' 17% Ge ' ?5' ; .> > . ' < ,5' 1.6 ?405 ;6 < . ' ? ,411,<7
' 71. , ; ;<? 6 ' ' - . < 1'=4 . ?'1'> .6 64Q.76 '<7.1 .41. ' .<7
> 6 J<>6 >'<6 4< ; ,<; ,<16?405 ;8 =4 ' '41' ' 5 .4 ' ; .7.E '
E.7 ' G'6.? . / 01.'>.' .0'=4.' '<< .8 >'<6 5.6 55'6 ;0.E6 '
5 . @ >.'> ? ' '7. / .<7%

$ % .6 Q4J.6 6.1,<7 '4 < , / 01.' >.' < .458 6'- , 1 N
>.4@ / .7<01.6 >< 71 04<'5 .7'05 ' >'<6 5.'5 .4 ,0 6.'
E.1' 5.' ; ,<; , 16I ' ; , / 4 66' 1.'>4 1, ' ?106 5.'< . / .'&1 '
04<'5I >.4@ / . / 01.6 >4 > 1. ;7, 1.'>4 >>?'17. <.<7I 5.'
?1, ;41.41 a><>1'5 6V<> ; .7 5.6 71, 6 ?546 '<; .<6 <,7' 1.6
?405 ;6 >.' ' 1 55.%

W % '<6 5.6 - 55.6 ,0 5 6.51,41.1' ?54' .41671 04 '
<'4@8 5.6 >.4@ Q4J.6 .7 5.6 ; , / / 6 ' 1.6 >4 1, '6.1,<7 ?1 6
'5 . / '7 - . / .<7 >'<6 ;0' ;4< > .4@8 .< ; , / / .4 '<7 ?'1
5.<4 / 01,'?1. / .1 ?,41 5.'?1. / .1 ; ,<; ,416%

$ % ,41 071.' '> / 6 0 ; ,<; ,41 1 ' E'4>1'N
$ W - , 1 6'7 6E' 705 <6;1 ?7 ,< ; - =4. .<=4.5=4.5 .4
>4 1,V'= / .' =4.'%;.'6, 5N G

$ Cp 1.' J>>.' - <J7 ; <= '<6 ' ; ; , / ?5 6I
W)G - , 1 71'-' 550?. 1>'<704 7 '<,>.6 >'<6>.6 >.6
>.'<,5' 1.68 ,4 =4'71.'>'<6 >.6 .74>.6 >'-,4>6 .7 =4'71.'
>'<6 >.6 054>.6>.'<,5' 1.68 >,<7 5.6 71, 6 >.1< 01.6 >'<6
.7.<>4.'>4 >>?'15. / .<7 ,0 5.' ; ,77. ,416 '41' 5 .48 .7 ; .'
>'<6 5.6 - 55.6 '4 >.6646 >.'9 8 / .65

d '<6 7, ,5.6 5.6 '?71.6 - 55.68 '- , 1 71'-' 55> ?.<>'<7
04 7 '<6 >'<6 5.6 >74>.6 > '- ,4>6 ,4 >.'<,5' 1.68 ; / <.'
; >.66468 ,4 '- , 1 .@.1; .8 ?.<>'<7 71, 6 '<68 >'<6 . '
7.<>4.'>4 >>?'17. / .<7 ,0 5.' ; ,<; 416 '41' 5 .48 5.6 E,<; '
7 ,<6 > 0 , / / .'>.'5,' ,4 >.'Q4J.%

$ % '<6 5.' / , 6 =4 '?10.>>.1' 5.' ; ,<; ,4168 5.= .5 6.'
E.1' 7,4Q,416 5 . F'6.?7.< 01.8 6'<6 '- , 1 0.6, < > 0 1.' '<'
<,Q ;0 < ' ?1, ;5' / .8 .7 6'<6 =4.8 6,46 '4;4< ?105.@7.8 5
?4 66.' &1.'1.7'1>.' ,4 < '- , 1 ?'6 5 .48 7,46 ; .4@ =4 '> '
1.1,<7 .71.' '> / 6 '4> 7 ; ,<; ,4168 1.<'?771,<7 '4 ; , / / 6 '
6' 1.'>4 1, 8 >06 J<>'?,41 4< >.6 Q4J.68 5.6 7 71.6 .7 ; .1'
7 ! ;'76 6.1-'<7 ' ; ,<67'7.15.6 =4'5 .6 .5 ; ,<> 7 ,<6 ; >.6646
1.=4 6.68 .7 56 1' ??,17.1,<7 .< ,471.8 ' - . ;5.6 ; .17 E ; '56
> 07<>.6 =4 '5.41 '41,<7 07> >.5 -706?'1'5.6 > - .16 <,7' 1.6
,4 '- ,406 ;0.0 5.6=40 6 56 5.6 '41,<7 E' 7.68 >.6 '77.67'M
7 ,<6 >.'5.416 - .' .7 / , .4168 6 J<0.6 ?'1'5.6>76 <,7' 1.6 ,4 '
'- ,4068 .7>0 / .<7 0J'5 60.6%

$ % .6 ; >.-'<7 <,7' 1.6 1,V'4@ =4 8 '?106 '- , 1
E' 75.6 >0;5'1'7 ,<6 ?1.6;1 7.6 ?'1'5.'5 71.' 8 < '41,<7 ?4
0 1.' . / ?5,V.6 5,16 >4 ?1, .0' < 07'05 66. / .<78 6.1,<7> 6M
?.<6.6 >4 ; ,<; ,4168 .7 56 ?,411,<7 ' 64-5.41 >. / '<>.8
071.' <6;1 76 .< ?1. / .1 ,1>1.8 .< 4 -'<7 .<71.' .4@ ; .54'
>.'5.41 '<; .<<.70 >.'1. ; .?7 ,<8 641 5.'?1. / .1 '7'05.'4 >.'
; '<> >'76 =4 '6.1' >1.66.%

W % ' 6 ; .4@ >.6>76 <,7' 1.6 1,V'4@ =4 ' < '41,<7
E' 7 '4;44.' >.;5'1'7 ,<8 ' <6 ' =4.'5.6 <,7' 1.6 ; >.V'<7
6. J<.41 '4@ =4 ' < '41' .<7 ?'6 0 0 ?5' ;068 6, 5 =4 156
' .<7 ,4 <,<>. / '<>0 ' 071.8 6.1,<7 6 / ?5. / .<7 '> / 6 '
; ,<; ,41 1 641 5' 6.45.'0<,<; '7 ,< .7Q467 E ; '7 ,<>.'5.41
'<; .<<.'=4'5 70%

5 5% .6 Q4J.6 =4 '?1, .0>.1,<7 5 .@' / .< ; , / / .<'
; .1,<7 ?'1 -.1 E .1 5.6 5 71.6 >. ; .4@ =4 '6.'?106.<7.1,<78
?,41 6'- , 1 6 56 1. / ?5 66.<75.6 ; ,<> 7 ,<6 1.=4 6.6%

$ .6 64Q.76 =4 '1. / ?5 1,<7 ; .6 ; ,<> 7 ,<6 .1,<7 6.456
'> / 6 ' .@' / .<I 5 ; ,<6 67.1' >'<6 '< < .11,J'5, 1.'E' 7
' ;0' ;4< 60?'10 / .<7 641 5.6 ?1 <; ?.6 >.'5' ; ,<67 747 ,<8
5.6 E,<;5 ,<6 .75.6 >.- , 16 >.6 <,5' 1.6 ?405 ;68 .7 >'<6 5'
1.>';7 ,< > 4< ';7.'>,<7 5.'?1, J1' / / .'601' >,<<0 ?'1'5. '
Q4J.68 .71. / ?5 8 6'<6 >0?5' ; .18 ?'1'5.6 '6? 1'<76%

' % ' ; '?' ; 70 >.6 64Q.76 6.1' Q4J0.' '5' / 'Q,1 50 '0 '
6,54.'>.6 - , @%

' W' % #.4@ =4 '6.1,<7 ' <6 '1. ; ,<<46 ; '?'05.6 6.1,<7 >0
;5'106 ?'1'5.6 Q4J.6 >.' .@' / .< : '0 5.6 '1. / ?5 1'5.6 E,<; '
7 ,<6 >.6 <,7' 1.6 ?405 ;68 .7 <6;1 76 '466 7>5 641 4< 7'M
05.'48 64 -'<7 5.'< , / 01.'>.'- , @ = 56 '41,<7 .4 ?,41
5.41 '> / 66 ,<% < ; '6 > 0J' 70 >.'64 E1'J.6 ? 41 >.4@,4
?546 .416 '6? 1'<768 76 6.1,<7 <6;1 76 641 5.'7'05.'4 '1' M
6,<>.'5.41 7. / ?6 > 05<>.8 .78 .< ; '6 > 0J'5 70 >.'7. / ?68 '
1' 6,<>.' '<; .<<.70 >.'5.41 J.%

W' ' ' #.'7'05.'4 6.1' ; , ,5 <<> ;0'= . ' '<<. . '>.'5'
/ 0 / .' / '< 01.% '1.67.1' 'EE .00 >'<6 5' ?1 <; ?'5.'6'55.'
>.' '> / 0 671'7 ,<>4 >0?'17. / .<78 .5 6.1' 1.<- ,V.8 ?'1

5.'?1, .<1.41 J0<01'5 6V<> ;8 '7,7 6 5.6 71 04<'4@>4 1.6G
6,178 ?,41 V 05 .'?'1. 55. / .<7 '55 ; :0%

6 ' % .6 64Q.76 '<6 054.' ; ,<7 <4.1,<7 5.416 074>.6
Q46=4 ' 5.41 ?5' ; . / .<7 .EE. ;7 E8 ' ?. <.'> 071 ;'>0.046 >4
00?.E ; .'>.'5.41 .5. ;7 ,<%

' ' % < ; '6 >.' >0.068 >.'>. / 66 ,< E,1 ;0.' ,4 >.>0 '
/ 66 ,< -<5,<7'Q1.8 5.6 64Q.76 <6;1 76 641 5.'7'05.'4 >.6
0 . ;7 ,<6 >4 >0?'17. / .<7 '41,<7>1, 7 ' 5' ?5' ; .' - ' ;'< .8
64 -'<7 5' ?1 ,1 70 >.'5.41 1'<J .7>.'5.41 >'7.'> 46;1 ?G
7 ,<%

W' ' % < ; ,<6.=4.< ; .8 5,16=4 4<.'?5' ; .' >.' <,7' 1.'
?405 ;'>. - .<>1' ' <6' -' ;'<7.8 5' / 4< ; ?'5 70 .<>,<<.1'%
'- 6 ' 5 > 1. ;7, 1.'>4 >0?'17. / .<78 5.=4.5 6.1' 7.<4 >.'
E' 1.' '466 7>7 ' <.<; .1 ; .77.'- ' ;'<. .8 ?'1 ?1,05' / ' ,<6.7
'E ;5 .68 >'<6 7,47 6,< 1.66,178 '- . ;'1.=4 6 7 ,< '4@ 64Q.56
<6;1 76 > .<- ,V.1 5.41 ' ; ; .?7 '7 ,<8 >'<6 5.'>. ' '>.'=4 ,0.'
Q,4168 '4 ?1, .41.41 J0<>1'5 6V<> ;%

' ' % ?106 5.>7 >05' 8 5.'> 1. ;7, 1.' ; ,<E01.1' 5' ?5' ; .'
-' ;'<7.' '4 ?1. / .18 ?'1 1'<J .7>'5.'> <6;1 ?7 ,<8 > .<51.'
; .4@ =4 ' '41,<7 >,<<0 5.41 ' ; ; .?7 '7 ,<I .7 ; .4@ =4 '5.6
?10.0>' .<7 >'<6 ,1>1.8 / ' 6 =4 '6.'6,<7 71,4 .6 .<1.M
7'1>'>.'E,41< 1'5'> 7.' ' ; ; .?7 '7 ,<8 <.'?,411,<7 071.' '> / 6
'1. ;5' / '7 ,< ? ,41 ; .77.%E, 68 6'<6 <0'< / , <6 ?10Q4> ; .1
'5.416 >1, 76 ?,41 '- . < 1%

' ' % '6.1' 1. / 6 '4 64Q.7 ' <6 '<, / / 0 4< .@71' 7>'
?1, ;06 - .10'5 >.'6' < , / / <'7 ,<I .78 641 5.>7 #@71' 78 5
6.'?,41- , 1' '4Q 106 >4 1, ' ' 1.EE.7> ,07.< 1 4<.' ; , / / 6M
6 ,<8 =4 '<.'?,411' ?'6 54 '071.'1.E7 60.8 ?,41- '=4 5 A
7 E .'?10'5'05. / .<7%>4 1. / 0,416. / .<7 ?'1 54 'E' 78 '6,4
?10>7. .66.41 ,4 001 5 .18 >< / ,<7'<7>.'6,<E, ,>6 >.'1.6G
?,<6'0 5 70%

W' ' % ?106 '- , 1 07.< ' ' ; , / / 66 ,<>41, 8 5.'64G
Q.7 6.'?106.<7.1' '4 71 04<'5 >'<6 5.' 1.66,17 >4=4.5 6'
1.6 >.<; .'6.'71,4- .1' ?5' ;0.%

W' ' B% 41 7' 1.?1.6.<7'7 ,<>.' .@71'57>.'6,< <6;1 ?M
7 ,< '4 7'05.'48 >.'5' >.6 J<'7 ,< E' 7.'>.6' ?.16,<<.'?'1
5.'<,7' 1.' ?405 ;'=4 ' '41' '0> =4>8 ,4 >.'6' < , / <'M
7 ,<?'1 5.'> 1. ;7, 1.'>4 >.?'17. / .<78 >.' ' ; , / / 66 ,<
>.'1, 8 >4 ?'V. / .<7>4 E, ,>6 >.' 1.6?,<6'0 5 70 .7 '471.6
,0Q.768 .7 .<E <>4 ; .15 E7.'7>.'6' ; ,<7 <4'7 ,<> 074>.6 .7
>.' .6- ' .7 / 7.<16 >.?4 6 6 ,< <6;1 ?7 ,< '4 7'05.'48 5
6.1' '> / 6 '?107.1'5.'6.1 / .<7 ' '4> .< ; .'?405 =4.%

$ ' ' % '<6 5.'?1, ;06 - .10'5 >.'5'> 7.' ?1.65'7 ,< >.'
6.1 / .47 9 <,7' 1.'?405 ;'1.E4 ; ,<6 J<.1' 5.6 6 J<'741.' .7
?'1'?.' > <7 ' .<7.<%> 6.'6.1-1'>'<6% .@.1 ; ; >.' 6.6
E, ;7 , ,68 .7 5'<.'?,411' .< . / ?5,V.1'> ' 51.68 '?. <.'>.'
E'4@% d

' ' ' % ' &01 / 45.'>4 6.1 / .<7 6.1' ' <6 ' ;>0J4.I - ' .'
Q41.'641 / ,< 0 ,<7 .41'> .71.'E5>05.' '5' ; ,<67 747 ,< .7 '4@
5, 6 >4 1,V'4 / .8 .7>.'1. / ?5 1 / .6 E,<;7 ,36 '- . ; .@' .7G
74>.' .7 ?1,0 70% Y

' - ' !

: ' ' ' 3

178 G1% 77.<>4 =4.'1. -'54'7 ,< >.6 ,EE ; .6 >.6 G
7' 1.6 '4 # >.-'<7 # ; 7.5.7>.' '1 68 E' 7.' .< .@0;47 ,77
>.' 0> 5 >.' ((8 .67 >'<6 4<.' > 6?1,?,17 ,< / / .<6.'
'- . ;5' - '5.41 .# . ;7 -'>.6>76 ,EE ; . ' .7 =4.'0.'4; ,4?>.'
5 74 ' 1.6 6,<7 >'<6 / ?,66 0 5 70 >.' ; ,<67'7.1 ?'1 ?0 ; .6
'45 : .<7 =4.6 5.' / ,<7'<7>.'5.416 ' ;=4 6 7 ,<68 5 6.1' 05'05'
?,41 5.'1. / 0,416. / .<7>.6>76 <,7' 1.6 '< ?11@ ; , / / 4<
641 5.'?1 @>.6 ' ;=4 6 7 ,<6 E' 7.6 ?'1 5.6 6, @'<7. > @ >.1'
< .16 ?,41-468 ; ,<65'70 ?'1' 71' 7068 =4 77'<; .6 .7 ' ;7.6
'45 : .<7 =4.6%

W % ' / '66.' >.' ; .6 ? Q@ 104< 68 > - 60.' ?'1 5.41
<, / 01.8 >,<<.1' 5.'?1 @>.' ;0' ;4< >.6 ; .<771. 0.' , K; .6
>.'<,5' 1.6%

W' '3 ['5 74 ' 1.6 >.6 ; .<771. 0.' ,EE ; .6 6.1,<7> - 606
.< 71, 6 ;5'66.6N
$ ' ?1. / 01.' ; , / ?1.<>1' 7,46 ; .4@ =4 ' ,<7 0 01.J46
'<501 ;41. / .<7 '4 F'Q4 55.7 ((N
$.'6. ; ,<>.8 7,46 ; .<@ =4 ' ,<7 070 1.J46 >.?4 6 5.' GG
Q4 55.' ((' Q46=4 '4 F'Q'<- .1 ()9 <;5<6 - . / .<7%
W ' 71, 6 0 / .' ;5'66.'6.1' E,1 / 0.'>.'7 ,<6 ; .4@ =4 ' ,<7
070 1.746 >.?4 6 5.' F'Q'<- .1 ()9 Q46=4 '?106.<5%
W' % 41 5.'?1 @ / ,V.<8 5 6.1' 1.71'<; :0 '4@ > - .16
7 45' 1.68 7'47 ?,41 5.'1. ; ,4-1. / .<7 .7 / .405.6 > 054>.8
; ,<E,<>46 >'46 5.416 ' ;=4 6 7 ,<68 =4 ' ; '46.' >.'5.41
7. / ?6 > .@.1; . .8 6'- , 1 N ' @ 5 74 ' 1.6 >.'5' ?1. / 01.'
;5'66.8 4< 7 .16I '4@ 5 74 ' 1.6 >.' ' ' 4<
6 @ 0 / .8%#.55.'> / <47 ,< E' 7.8 5.'641?546 >4 ?1 @ / ,V.<

.1'' <'V '4@ 45'51.6>.;:'=4.;5'66. <> - >4.5Q.<Q. 78
7'<7 '' 7 5?E7>.'1.< 0,416. / .<7 =4 ' 7 51.> <>.' < 5 `
W % 34'<7 '7 @<,5' 11'' 1,V'4@ .7'05 6 >'<I 5.6 '471.''
- 55.J8 5 5. [' 6.1'' '?,41 1. / 0,416. / .<7 .5 <>; / '
< 7>W > '0,1> .'? @>.'P.41 - '54'55,=8 . 64 7.'5'' / , 7>
>4 641?546 >4 ?1 @ >.' 5.41 ; ,<71'7 ?1,4->'?'1 '>>6 .5
? . ; .6 '45:.<7 =4.68 >.' / '< 1.' ; ; ?.<>'<7 =4.' 9 1; / G
0,416. / .<5 <. ?4 66.' .@;>>.1 = ?1 @ ?1,4V> >.' 5.=1
';=4 6 7 ,<%Y
'' 6.'7 ; .' .65 5.->.' '' 71, 6 E .41.6% I

' ' ' C ' K %

41 5.' 1'??,178 E' 7 ?'1 8 E Q 5 '4558 >.6%1. .5' '
/ '7 ,?6 .5.-..6 ?'1 5.J : .1 7 .16 >.' 1,.' : .057<8
-.4-.' . 55'<>'8 7.65'71 ; .' > 4< 5.J6 >.' U)8 ' 5 -%
* E'-,41 >4 717 J,1 ?405 ;8 5.' >.; .7 64 - '<7 .67
1.<>4 N
W 66. / 0 ,8 ; ,<6 >.1'<7 =4.' TG . 55'<>' '' .@;>>9
J 0,1<.6 =4.' 5'' ; ,474 / .' / .57' 7 05'' > 6?,6 7 ,< >.' 6.6
0 .<68 >9;1.7.' =4 ;55.' 1>?4> .' ?41. / .<7 .7 6 / ?5. / .<78
J'<J '4;4<.' ; ,<> 5,<8 5.' 5.J6 > / / .405.6 E' 7 ' 5'' ?'71 .' %
?.1'5'' >' / .' . 55'?>%Y 8 ' G
' 3 9' ' U ' ( ) & ' '
' ' ' ,46 '-.0 >.;1.7 8 5.' I' Q' 55.7 >.1M
< .18 =4 5 <.' 6.1' 7 '??,17>'4;4<' ,067';5.' '< ; ,7 16
,1> <' 1.' >4 ; , / / .1;.8 =4.' .6 6.456 ,0Q.56 >,<7
,46 .<7.<> .0 ?1,0Q0.1 = 71'<6?,17 '' . 71'<J.1
. ' .<7 5.6'11'.6.7 / 4< 7 ,<6 >.%J4.11.8 5.6 / ' '
7 .1.6 > ,1 .7 > '1J.<7 ;< 5 <J,768 .7 5.6 .6?.;.6 1, ,< '
<'V..6 =4 ' '-' .<7 ; ,416 >'<6 5.' 1,V'4 / .%
#.'>;;1.5 '' 1.= ' >.'5'' ?'17 >.' =4.5= .6 / 4< ; '
?'5 7.J >.' ?54' .416 >.?'15. / .456 E1,<7 E.1.6 4<.' .@Y
7.<6 ,< ; ,<51' 1.' '' 5'' 5 0.17>' .7<4 6 05.' '4 ; , / M
/ .1;.%
,46 ?1>7.@7.' >.' 5'' >.E.<6.'> .@?,17.1 >.6 '1 / .6
.7 >.6 / 4< 7 ,<6 >.' J4.11.8 ,< 6 .67 ??,6>'' 5'' 6,1M
7 .'>.'> EE.1.<76 ,0Q.76 <45 5.6 '' 5'' >.E.<6.'>.6 E1,< '
7 .1.68 ,4 =4 '<.'?. -.<7 V 6.1- 1% .55;J 6,<78 / .6Y
6 .4168 5.6 ? .11.6 ' E46 8 >,<7 < <6 '-,<6 5 <.'
7.55.' '0,<>'<;.' =4.' <? 76 ?,<11 ,<6 .< E,41< 1 ''
7,<7.6 5.6 <'7 ,<6 . Q1,?..<<.6I 5.6 E46 56 >.' , :'66.8
< =4. / .<7 ?1,?1.6 '4 ., / / .1;.8 =4 ' <.'?.4-.<7
971.'> '4;4< 46'J.'?,41 5.6 J'1>.6 <'7 ,<'5.6 <7 5.6
71,4?.6 >.' 5 J<.8 .7 =4 ' <,46 - .<<.<7 >.' .J.8 >.'
55. / 'J<.' .7 > '471.6 ?'V6 .51'<J;16IG 5.6 '01.6
>.67 <.6 '4 / > / .' ; , / / .1;.8 5.6 >?>.6 .7 ; ,47.'4@
>.' ; :'66.8 >,<7 5.6 5' / .68 .J'5. / .<7 >.' E'01 =4.'
.71'<J91.8,<7 >7> / ,<7..6 .< H1'<;.I 7.55.' .67 .J'8'
5. / .<7 5'' ?,4>1.'>.' ; :' 6.Q >,<7 <,46E' 6,<6 4<
71E.6 J1'<>' ; , / / .1;.8 .7 = 5 .67 6Q E'; 5.'>.'> 67 < '
J .1>.' < ?,4>1.'>.' / 4< 7 ,< ,4 ' ;'<,<8 >,<7
<,46 6, / / .6 > ' 55.416 '??1,- 6 ,<<>6 ?,41 ?54 '
6 .416 '<<..6 8 7.5 .67 .<; ,1.' <, 1.' 6'5?.71.8 >,<7
<,71.'6,5 .7 <, 1.' ; , / / .1;.' >'<6 5<>.'<,46 E,<1 '
< 66.<7 .< 7.55.' '0,<>'<;.' =4.'<,46 '-,<6 .7.'?05 '
J?6 >.'1.?,466.1 5.' 6'5?E 71.'>71'<J.18
546 .7E16 / 4< ; ?'5 7.6 E1,<7 .1 ' .@; 7.<7 '<66 '
>.6 1.;5' / '7 ,<6 Q,41<' .1.6 ?'1 5.6 '77. <5.6 '
=4 .55.6 ?,17.<7 '5'' 5 0.17.'>.'5'' ; 1;45'7 ,<% 34.5 '
/ .6 4<.6 ,<7 ;14 >.-, 1 . / ?>.:.1 7,47.J 6,17. '
= .7H.76 >.' ?'66.1 2 >7E'<J.18 6,46 ?1.7.@7.' =4.'
-,71.'>>;1.7 >4 CUQ< <'E5.1 / .1 .<' '' ?1, : 0.' c'' 6,1M
7 .' I > '471.6 ,<7 '11.7.'>.6 ? '671.6 =4 ' ,<7 .7.' ; ,< '
67' / <.<7 .,<65>.1. .6 ., / / .' / '1; :'<> 6.6I .7
=4, =4.'5'' 5, '>4 UQ4 55.7' 7>.;5'1>'=4 .57.'< '-' 7
?'6 .<7.<>4 ; , / ?1.<>1.'>'<6 5'' ?1, : 0 7 ,< 5.6 .6 '
?..16 / ,<<'V..6 .71'<J.1.68 5.6 ,07';5.6 < ,<7 ?'6
..66>% < '' .5>1>.. / / .<7 E,1; .'>.'E' 1.'1.71,J1'>11
>.' #'5' 6 ' '1 6 4<.' E,17.' 6, / / .' >.' ? '671.6 .@ '
?>> >.' >.' ; .77g >.1< .1;' - .' ' 5'' >.67 <'7 ,< >.'
,<>1.68
4QQ<8 * + 1.7.< ' ' >.6 -,V'J.416 E1'<;' 6 .7
>71'<J.16 >.6 <>;'66'7 / 8 ?'1..' =4 5 6 V .67 71,4->
= .5= .'?>.=> '1J.<7.1 .' ' .7 >.6 .EE.76 >.' ; .'J.<1.'
#3 ;R '<7 >.@ > ' / '<76 .7 '<71.6 0 ,4@ ?1 ;46

6,<7 .<; ,1.'1.7.<46 '' ?5<6 .416 .71'<J.16 >.' / '1=4.8
1.->746 / > / .' > 4< ; '1' ;7.1.' >.' 5'' ?'17 >.6 ?4 6M
6'<;.6 -, 6 <.6I 5.J ,1>1.6 >= 5.6 1.67 74.1 ,<7 > .'
>,<<>6 .< -' < ?'1 5.' / < 671.%
'<7 =4 5 '' ?4 6406 67.1 =4.5=4.6 / ,7 E6 > < '
=4 .74>.8 -, ; .' ; , / 7.' > 'J1 .4 41.' .7 >.' ; , / M
/ .1; .8 =4 ' .< '?.1; .-' 7 5'' ?1, .0' 4.' ; .66'7 ,<8
<.'6 .67 ?.1 / 6 '4;4<.'1.E5.@ ,< 641 ; .6 '046 >.' -,6
>.;1.76I / '76 ?4 6=4.' -,46 -.<.0 >.' 1.67E7 .1 ''
, :'=4.' . 7,V.< 5'' E';457.' <'741.55.' =4 5 '-' 5 >.'
K,17 18 '' ,5, 5>8 >4 1,V'4 / .8 5 < .67 ?546 ?.1 / 6
>.' ?1 -.1 <>4671 .' .7 5.' ; , / / .1;.' >4 >>0,<.:.'
>.' ?546 .416 '17 ;5.6 =4 ' <.'6,<7 ?, <7 <.;.66' 1.6
' <,71.'>>E.<6.8 .7 >.'J><.18 6'<6 '4;4< / ,7 E > 4 '
7 5 7>8 5.J 71'<6';7 ,<6 ; , / / .1. '5.6 > 4<.' J1'4>,'
<'7 ,<%
.67 '?1>6 '-, 1 ; , / / 4< =4>8 > '?1.6 -,6 ,1M
>1.6 8 ; .6 ; ,<J >.1'7Q,<6 '' -,6 ; , / 7>6 / 5 7' 1.' .7
>.6 E <'<;.6 =4.' -,71.' ; , / 7.' > 'J1 ;45741.' .7'>.'
; , / / .1;.' -,46 ?1,?,6.'5.'>>.1.7 64 - '<7N
.' 66. / 05..'<'7 ,<'5.8 '?1#6 '-, 1. 7.<> 5.1'??,17
>.'6,< ; , / 5> > 'J1 ;4 541.' .7 >.' ; , / / .1; .8 >#;1#7.N
W 34.' .@?,15'7 ,< ' 1'<J.1 >.6 6'01.68 #?#.68 ; ,4M
7. '4@ >.' .0'66.' .7 ? 65,5.7'' >.' ?, .0.8 <,< ?546 =4.' >;6
E46 56 >.' ; :466.8 >.6 ? .11.6 ' E46 58 >.' 5'' ?,4>1.'>.' .0'66.'
.7 >V 6'5?#51.8 4< =4. / .<7 >.6554#6 '4 . , / / .1; .' '-.'
.71'<J.18 .7 .@?#> #6 6, 5 ?'1 5.11.8 6, 5 ?'1 / .18 ' ' ; .>.'
>.65 ' ,=8 =.' 6,<7 ?, <7 .,7<?1 6 >'<6 5'' ?1,0 0 7 ,<
?,1 .'>.<6 6.6 >#;1,76 >.6 * 78)U8 *)' 4 < .7)' 34 55.7
>.1< .16I 5'' 6,17 . >.' , .6 > 71>1.<56 ,0Q.76 .67 .7 >. / .41.'
.<7 >1. / .<7'5 01.8 ' <6 ' =4.' ; .556 >.6 .6?>..6 / ,<<'V..6
'45 .6=4.' ; .55.6'4 ; , <>.'H1''<..' .7 >.'5,45.6 6,15.6 > ,4 '
V1'J.6 > ,1 .7 > '1J.<7 .7 0 Q,4@I .< ; ,<6.=4.<;.8 6 '
6. / 05>.'<'5 ,4'5.' ` 7 >.E.<6.' '4@ ; ,1?6 '> / < 671'7 5 ' .7
/ 4<Q. ?'4@8 U ?. <.'> .< >. / .41.1 ?.16,<<.5E. / .<7 1.6 '
?,<6'05.68 > .@.1; .1 '4;4<.'?.1=4 6 7 ,< ,4 - 6 5.' .<-.1W
5.6 -,V'J.416 .7 < J, , '<768 5.J >.;5'1'7 ,<6 .7 -.1 E5.''
5 ,<6 <.'>.-'<7 >.6,1 / ' 6 .71.'E' 7.6 =4.'>'<6 5.6 041.'4
>.6 >,4'<.6 '7 ,<'5.6I >,4<.' / ' <5.-..'>.6 / '5 #1.6 >1
.5 > '1J.<78 '471.6 =4.'>.6 .6?0..6 / ,<<'V..6 '<; , <>
1,V'4 / .8 1.7.<4.6 .< -.174 >.6 ?1.; .>.<76 >.;1.76% '
1, ' 6.1'' ?1 9 >.' >,<<.18 5.' ?546 ?14 / ?7. / .<7 ?,66 05.'
^.I ,1>1.6 <.;.66' 1.6 ?,41 .@..45 ,< >4 ?1.6.<7>..1;7%
+' 41 5'' >. / ' 4 .' >.' % <<>1>8 66. / 050
,1>,<<.' =4.'5.' 1'??,17 7 < ; , / 7.' >.' ; ,<67 747 ,'
641 5'' , ,11.6?,<>< ; .' >.6 ; ,1?6 '> / <5671,7 E6 '-E
.'?,4-, 1 .@..47 E 6, 5 <; .66' / / .<7 / 6 '' ,<57
>4'Q,41%
% ' ' S '' 7.' / 6 ` ,1>1.'>4'Q,41'?,41 ;
/ '7 < 4< 1'??,17 641 5.6 ; ,5,< .6% ,06.1-.' =7'
-,46 < '41.0 ?546 =4.' 6.?7 J.'<,.K '-' :7 -,71.'67
?'1'7 ,< 8 .7 =4.' -,46 '-.0 .<; ,1.' '' -,46 ; ,;7 ?'
>.' <6714;7 ,< ?405 =4.8 >.' '66 67'<;.' ?405 =4
'E 17 =4 ,< <.' -,46 ' ; ;46.'?'6 >.' -,46 >71.' . / ?'<
>.6 0 .<6 . ; .5.6 '67 =4.6 6'<6 1. / ?5' ; .1 5'' 6, <
>.6 0 .<E' 76 '4@=4.56 56 .7' .<7 .< ?'17 .'>.67 >
'<6 5.'>,47.' ,4 -,46 > .6 >.'E' 1.' 4<.'5, '6'J.'67
5.6 ; ,5,< .68 -,46 <.'?,4-.0 >,<.' =4 'Q,41Q .1 ''
?1, ; :' <.'5.J 65'741.%
'N .'>. / '<7Q.' =4.'1,< '77.<>.8 ?,7
> 6;47.1 1'Q,41<. / .<78 =4.' Q 66. / 05..' 6, 5 ? 7
, / 01.46.8 '55< =4.' ,4 <.'1.-,=4.'?'6 5'' >.; 6 ,'
>.' 1'Q,41<. / .<7 ; , / / .' ,< 1>-,=4.1' 7 5.' >>.17
=4 ' / .7 7 'E5' 1.'>.6 ; ,5,< .6 '' ,1>1.'>4'Q,41%
66.7<05..'?'66.' '' ,1>1.'>4 ,41%
+' % .<,4 ?1. 6.<7.8 '4 <, / '>.6 ; , / 7>6 >5
?5, / '7 =4.' .5 > -J<,<8 4< ?1,Q.7 >.'>.;1.7 ?,7
,1J'< 6'7 ,< ?1,- 6, 1.'>.' '> / < 671'7 ,< .7 >7 i'
71 04<'4@'>'<6 5. '> 671 ;76 > -J<,< .7 >4 #, / 7'
& ,46 >,<<.1,<6; .'>.;1.7 >'<6 5.' ?1, ;0' < 4W
/ .1,%P
8 ,?? N ,46 '-.0 1.<-,V>' '4 ; , / 7.' >.'
; ,<67 747 ,< 5'' 1.' >';7 ,< > 4< >.;1.7 1.<>4 '-'47 '
: .18 =4 ' ?,15.8 .< 64067'<; .8 =4.'7,46 ; .4@ =4 ' ,<7
6 J4>=.6 ?1,7.67'7 ,<6 ,4 >.6 >>;5'1'5 ,<6 ; ,<51.'5''
; ,<67 74E , '6,<7 >.;5'1.6 4. '?'05.6 >.'1. / ?5 E'4

/<.'>.6E,<;55,<6'=4.' " ;,<67 747 ,<';,< 1.% ,16 '
c4.'5" ;,<67 747 ,<'.67'7.1 / <..8' ' .67 .- >.<7 =4.'
6.4@=4 '?1,7.67.<7 ;,<71.'..77.';,<67 747 ,<'6.'1.< '
5.<7'?'1' /X/.' <;'?'05.6'>.'1./?5 1' " '-.< 1'
54.4<.'>.6'E4<;7 ,<6' 7'05 .6?'1;.77.';,<67 747 ,<%
< 6.;,<>' ?1<; ?#' =4 '?'1'E7 J'5./ .<7.- >.<78
6.67=4.8'6'<6'1.-.< 1'641' .'?'66>8'= .'-,46' '-.0
1,< 4',405 .1'?'1' 4<.' ' / < 67 .' J.<>1' .8';.4@=4 '
\<7 6 J< '>.6';7.6'?'1'5.6=4.56' 56'1.J'1'>.<7'5";,<'
7 747 ,<' ;, / /.' <,<' ,05 J'7, 1.8' ;.6' :, / / .615"
5, - <78'Q46=4 " ;.'=4 56'1.71';7.<7'5.416'?1,7.67' '
, 68'5 1.'1'<J.6'>'<6'5" / 7<.';5'66.'=4.' ;.4@'=4 G
1,7.67.1' .<7>.?4 6' ' / < 67 .I' 56'>, .<7 / 7<.8'
5'1>>5 ;'7.66.8' =4'<>' 5" 5, ' <.'5.41'W 'E.1' 7'?'6'
<'>.-, 18' '0'<>,<<.1'>.6'E,<;7 ,<6'=4 56' <.'?.4 '
.<7 ?546' .@.1;.1' =4 .<'-.174' >.'5" ;,<67 747 ,<%
,<6' -,46' ?1,?,6,<6' .<' ;,<6.=4.<;.'>.' 1.> J.1'
,71.'>. ;1.7 .<';.6'7.1 / .6' '
X 66./05 .'<'7 ,<'5.'> ;1.7.' ' A
' 17% G% 34.'7,<6';.<@ =4 ',<765J<>' ,< 6 J<.1,<7
.5=4.'?1,7.67'7 ,< ,< '471.'';7.'=4.5;,<=<.' 'V'?7'?,41'
QQ.7>.'>.;5'1.1'=4.'5";,<67 747 ,<>#;1.7..?'1' 66./ '
5..'<'7 ,<'5.' .7 ';;.77>.'?'1' .' 1, ' <.'>, 7 ?'6' #71.'1. '
'1>..';, / / .'5" 5,' >4'1,V'4 / .I' ,05 J'7, 1.'?,41'7,46'
'H1'<?' 68'<.'?,411,<7 X71.'#546 ,4' <, / / .6 2' '4;4<.'
5';.,4./?7,';-5 ,4' / 5:' 1.8' .5' 56'6.1,<7> ;046'>.'
\46';.4@ =4 '56?,411' .<7,;;4?.1' ' '<7.<'<78
_' % ,46';.4@ =4 '6,<7?,41-<6'>.'?5';.6' ,4'./?5, 6'
-56'.71, 5 7' 1.68' .7 =4 ',<7 6 J<'>.'6./05'05.6'?1,7.67'
,<6',<'>.;5'1'7 ,<68'6.1,<77.<46'>.'5.6'1>71';7.1'>' 64<
5, 68' .' ?1#7'<7'5.'6.1 / .<7 ; - =4.' .7;.54'' 77';.: '.'5"
a ;7 ,<=4 56'.@.1;.<7I'E'47.'>.'=4, ' 56'.<'6.1,<7>>;:4 8
' '4;4<'> .4@'<.'?,411" #71.';0, 6' ,4'<, / / # 2' =7 .5=<.
?5';.',4' ./?5, ';-5' 4 / 5 7' 1.'=4.5;,<=4.8'6'<6' '-, 1'
?1.7#5.6>76'6.1 / .<768
' .'1,'6.1"?1 #>.'>,<<.1'>.6' ,1>1.6' ';:';4<>.'6.6
;, 7 / '<>'<76' / 5 7' 1.6'>.'E' 1.';,<<'571.'>'<6'6 @6./' '
<.6 '<';,1?6' #J 65'7 E'6'5"?1#6.<7.'5, ' "'>7 '1' 6.'.'.@.;4M
7 ,<8'.7 6 5' " . .'?1.;.>.' '4'H./?5>;./.<7>.6' J<'7'1.6'
>.6>5.6'?1,7.67'7 ,<6',4'>.;5'1'7 ,<6'=<' '41' .<7 1.E46.'
>.?1. .1'5.6>76' .1 / .<76% Y 8
% .& 'N ' .67'.<;,1.'4<''471.',QQQ.7641'5.=4.5'
>, 7?,17.1'5.'>>;1.7>,<7 5'6 'J 7% ' / .'?'1'57>'<6'
,1>1.' =4.' 5" <'7 ,< <';;,1>.' '4;4<.'?.<6 ,<8',
'4;4< 71' 7. / .<7 =4.5;,<=4.' " >.6' ; , / / .6' =4 '
6 .<6>?'1.<7'?'1'>.6'?1,7.67'7 ,<68'=4';;.1;:.<7 "
'554 / .1'>'<6' 6,< 6. <'5.'E.4'>.'5"J4.11.';-5.8' .'
;1, 6' =4 5'E'47>>;1>7.1' =4 56'<.'?,411,<7 7,4;:.1'
641'5.'71.6,1'?405 ;' '4;4< 71' 7. / .<7 <'?.<6 ,<%%
% 1?,<@N .';1, 6' =4.8'1.5'7 -./ .<7'4@'k7.<M
6 ,<68'5.6'?1<.?.6'<.'6,<7'?'6'5.6' / > / .6% 'J 7 5'
>.6'71' 7. / .<56'1.5'7 E6' 2' .@.1; ;.' ';74.5'>.'E,<;M
7 ,<6' ?405 =4. I' ' .67 ->.<7=4.'#.4@=4 '6,<7 4 '
;'?'0 .6'>.'1./?5 1'5.6'E,<;5 ,<6'6,<7<,<'1.;.-'05.6'
" .<'?.1;.-, 1'5.6'71' 7.<5.<76% ' 6'6 'J 7 5'>.'?.<M
6 ,<6' >.'1.71' 7.'?,41' >.6' E,<;7 ,<6' '<7 1 .41.6I'
'5,16' Q.' ;1, 6' =4.' ;, / / .' =4' " 1./?5' >.6'E,<;M
7 ,<6' 6,46' <.'5,' =4'54 'J'1'<7 66' 7 4<.'1.71' 7.8'
Q.';1, 68' > 6 Q.8' =4.' ;.7 <, / / . 8' 'V'<7 1./?5'
4<.'?'17 .'>4';,<71'7% '>1, 7 " .@.;47 ,<'>.' '4 '
1.% .'> 68'?,41?'17 ;45'1 6.1'..77.'=4.67 ,<8'=4 4<
:, / / .'=4 ' '6.1-'>'46' .' / 5 7' 1.8' .7'=4 ' '6.1-'
/'7. / ?6' >.7.1 / <.'641'5" E, '> 4<.' 1.71' 7.8' '4<'
>1, 7 ';=4 68' .7>, 7 1.;.-, 1'6" 1.71' 7.8'=4 5'=4 77;'
5.'?'V6' ,4'<,<8'=4 5'6.'E'66.'>71'<J.1' ,4'=4 5'1.65.'
H1'< ' 6% 1'6 8' .<' =4 77'<7'5.'?'V68' 5' <.'>.-.<7
?'6' <;'?'05.'>.'1.;.-, 1'5.'71' 7. / .<7=4 5' ";=4 6'
?'1'6.6'6.1- ;.68'Q.';1, 6'=4.';.54 '=4 '%1.E46.'>.'?1>%
7.1'5.'6.1 / .<7 ; - =4.8'=4 '?1,7E 67.';,<71.'5" ;,<M
67 747 ,<'8G.67 4<' :, / / .' =4 ' <.'->7 ?546' .@ 67.1'
;, / / .'H1'<J' 68' / ' 6'=4 '?.'1.0,<;.'?'6'?,41';.5"
" .@ ;47 ,<>4< ;.<71'5' '<7.1 .41% ' ;1, 6'>,<.'
=4.'H:, / / .'=4 ' " ';=4 6' 44.'?.<6 ,<'<.'?.<7.<
.71.'?1 -.I' % %
' <7.<'<7 ,<>7=4.'5.6''47,416'>.';.6'?1,7.67'
' 7 <<.' 7'G 71E7< / 55 7 ' < a5 / % G56' #

,4-.<7 1>?1>E'.<6 05.6' '4@' V.4@'>.'5" 5,78'6 56'
% 1,405.<7 ,1>1.?405 ;8'5"5, '>, 7>>..1<.1';,<71.'
.4@'>.6'?. <.6I' / ' 6' 5' .67 " ,06.1-.1'=4.8'>.' / / .'
=4 ,<' Q7.47 %=4 77.1'6"?'71 .' ?,41' '55.1' - -1.'6,46'
4<.';,<67 747 ,<'.71'<J.1.8'>.' / > / .''466' ,<'?.<7
- -1.',<'.71'<J.1'>'<6'5.'6. <'>4'1,V'4 / .8'?,41-4'
=4 ,<'<.'1.6 67.'?'6' '4@''47,1 7>6'5.J 7 / .6% #.'< .67
>,<.'?'6'4<'>.5 7=4.'>.'E' 1.'4<.'>WN5'1'7 ,<';,<71.'
5" ;,<67 747 ,<8' 466 ';.'=4.'<,46'-,46'?1,?,6,<6'
< .67 ?'6'4<.'?. <.';,<51 ' .4@I'. .67'5";,<6.=4.<;.'
<. ;.66' 1.' >.'5.41'1.<,<; '7 ,<% 4' ;,<71' 1.8';.'
6.1' 7 1>.55. / .<7'5.41' <E5 J.1'4<.'?. <.' =4.'>.'5.'
?1 -.1'>.'71' 7. / .<76'?1.;.4. / / .<7 ';=4 6%
+%' ! 'N < <.'1.;, / ?.<6.'?'6' 4<';, / / .'
=4 ' '1.<>4'>.6'6.1- ;.6' '4' / , / .<7 ,4' 5' .67 .<'>. '
17% 34.';.4@'=4 'E,<7>.6'?1,7.67'7 ,<6' ' 55.<7 - -1.'
6,46'4 .''471.'#,<67 747 ,<I'=4 56'46.<7>.'5"5 0.1 .'
>,4<.' .'7,47 ;, / / .'> '55.1' ,4' 5' 54 '?5' 7I' / ' 6'
=4 ,< <.'1.;, / ?.<6.'?'6';.54 '=4 '$ '4'6. <'>.'5"
<'7 ,<8' / >.,<<' 7'6.6'5, 6% % d
' B 'N .' ;1, 6' =4.' ' / .<>. / .<7 >.'
% 1 .418'>.-'<7>71.';,<6>.1 ';, / / .'4<.'?. <.8'
>, 7>71.'1.<-,V.''4';,>.'? <'5I' / ' 6'Q.' ;1, 6' .<M
;,1.' =4.';.7 ' / .<>. / .<7 7 .<7 :'>.6' =4.67 ,<6'>.'
E' 7I';'1';.' >>5 7 ?.47>71.';.54 '>.'5" / .;:'<;.E,8'
>.' .11.41',77>.' <.?7 .I'E.<'>. / '<>.'.<';,<6.M
=4.<;.' 'Q,41<. / .<7% 8
66./0 ..' 'Q,41<.' ' / .<>. <.<7%
% K,4.?KN '<6' '17 ;5.'>4'?1,Q.7 ,<'>/ .7'4'
6.1 / .<7 7,46'5.6'?1,7.67'<76' .7>.;5'1'<76';,<71.'5"
5, '>.' 7'7% 34'<7 " / , 8'Q.' ?'1' 71'5'?.47 .71.'
71,?'6.-.1.I' / ' 6'Q.'>, 6' B / " ;,<6; .<;.'>.'> 1.8'
.7 4<.' .@?.1 .<;.' / '5:.41.46.' " ;,<E 1 / .8'=4.'5.6'
/ . ;:'<768' / .66 .4168' ,<7 6,4-.<7 '046.'>.'5" 5, '
>4'6.1 / .<7I' 56'6.' 6,<7 6.1- 6'>.' ;.' / ,V.< ?,41'
-,46' / .<@' 71, / ?.1% '?54?'17>.6' / '5:.416'>4'
1,V'4 / .',<7 .5.'E'-,1 6>6'?'1' '0<6'E4<.67.'>4'6.1M
/ .<7% .'>. / '<>.'=4.' ,< < '> / .57.' '4'6.1 / .<7
=4.' ;.4@'=4 8' '?17.''-, 1'1.71'.7>'5.416' ?1,7.67'M
7 ,<6'.7>.;5'1'7 ,<68''41' .<7 / >1 7.'5";,<E '<;.'?'1'
4<.0,<<.';,<>4 7.'6,47.<4.% & < / 41 / 41.%P'7''
?54?'17>.' 'E,<;7 ,<<' 1.6'?405 ;6'-,46' ,<7 71, / '
?.6'.<' ?1 7'<7'5.'6.1 / .<7% .'>. / '<>.'=<.'-,<6'> '
6 .0'=4.' ;.4@ 5:'6.456'=4 8'?'1'4<.' ;,<>4 7.'-1' '
/ .<7'?'71 ,7.'.76,47.<4.'Q6.1,<7 4J.6> J<.6'>.71.'
'> / 6' '4'6.1 / .<78'?,411,<78' '?1.6'5"?1.67'7 , '>.'
;.'6.1 / .<78' > 1.'1. <E,J1.6'>'<6' .'>1, 7> .@.1;.1'
>.6'E,<;7 ,<6'?405 = 7.6% 68 ' '#.5" .67
>.7. 67'05.SP
% 5.' ?1. 6>.<7 ,06.1-.' =4.' ' / .<>. / .<7 >.'
%K,4;:.'< .65'?'6' '??4V.%
' '1.>';7 ,<'?1.6.<7..'?'1 % 4?,17.67'>,?7..8
+' 41'5.'1'??,17E' 7?'1' %GGG\'5.'> ;1.7 64 -'<7
.671.<>4N
W 66./05.''5 ,<'5.' >#;1 E,'=4'8' >'<6'c..'6.>'
=4.5=4.6 4<6'>.6'; >.-'<7 ,EE';.16'>.6'>7'76' / 'Q,16'>.5'
?5';.6'E,1 / .1' .<7>.6'>. / '<>.6' .< <>. / <7>68' "1' 6,<
>.6'1.?'1'7 ,<6' ,4' .0'<J. / .<76' =4 56' ?,411' .<7 '-, 1'
E' 56'>'<6'5.6'0'7 / .<768' Q'1> <6,4' '471.6'7.11' <6'>,<7'5"
,4 66'<;.' 5.41' '-' 5' .,<.>>>.' 0'5 71.'> > / , 4 / .<768'
56' 6.1,<7 7.<46' >.'6 '>1.66.1' '4' ;, / / 66' 1.' >4' 1, 8'
;:'1J.'>.'5"5 =4 >'7 ,<8' 5.=77.5' ?1.<>1" '-6'>.6' ;,1?6'
'> / < 671'7 E6I' <455.' <>. / < >'<.'?,411" >71.';;,1>>#
'4@'?>7 5 ,<<' 1.6'=4 '47'<7=4 5' 6.1" ?1,4->' ' %=4.' '
J,4-.1<. / .<7 " '47,1 6>5.6' .0'<J. / .<76' ,4' 1.?'1'7 ,<6'
=4 56,<7E' 7.6I' '=4 '?1>6'=4 5' '41"> >1.;,<<4'?'1'5.6'
;,1?6'> / < 671'7 E6' .7?'1'5.6' 'J.<76' / 5 7' 1.6'?1>?,6>6'0'
;.7 .EE.7?'1'5.' / < 671.'>.' " J4.11.'=4.'5.6',0Q.76' '4@=4. '
,<7 >7>'E' 56' 5.6>76' ;:'<J. / .<76' ,< 1.?'1'7 ,<6'.< ,5'
1.;4' 4<.' ' / .5 ,1'7 ,<1>.55.I' >'<6';.' ;'68'6'5.6'?>5 7 ,<'
<' 1.6' <,<7 ?'6' >7>' >>>, / / 'J.6' >.' 5.416' E1' 6' ?'1' '
7. / ?6'>.'5.41Q,4 66'0;.8' 56' '41,<7>1, 7 0'4<.' <>. / '
< 7>8' 5'=4.55.'?,411";,E76'67.1'>'<6'4<.'?1,5,<J'7 ,<>.'
Q,4 66'<;.'?546' ,4' / ,/6'>7.<><.8' '0- .8' 6,0Q.76
'/> ,1>6N / ' 6'5.';< / / 66' ?0'5"5< B'7 ,<<.'<<<1'

?1,?,6.1' ;.77.'> 6?,6 7 ,<?, ,1'>.6' , 0Q.76., / ?1 6'>' / '5.'
<, / 01.'>.6' ?1,?1 > >6' <'7 ,<'5.6' ;0< `>.6' 'W'>>?'1 . / .<7'
>.' 5'' J4.11.8' 6'<6' 5. ; ,<6.<7. / .<7' _>4'>< 671.'>.' ; .'>>\'
?'171 / .<7% Y

' . " 'N' .64 6;0'1J>?'1 .' ; , / >>.61' '
?,176' >.' - ,'6' 1.<>1.' ; , / ?7.'>.6'71,405.6' =<' ' '
7.<7'. ' ; .' / , / .<7' 5'' - 55.> 15.6I' / '76' < '77.<>.0'
^?'6'>.' / , ' =4.'Q.' .46' .<' E'66.' ; , <<'771.'5''6,41; .%
' .6' ? . ; .6' =4 ' < ,<7'>7>'1. / 6.6' <.' / .' E,<1< 66.<7'
0' ' ;7 <'1.<6. J<. / . 7' '' ; .7>J'1>% .6' ; ,<-.16'7 ,<6'
$; ,<7 >.<7 .5 .6' .7' '' ; , / / 4< ; '7 ,<' >.' ?: 6 .416'
771.6' ?'17 ;45 1.6 / ,<70 .<>,<<>' =4.5=4.6>. '
7' 56 I' <' 68' ,471.' =<.' >.' ?'1. 56' 1.<6. J<. <.<76'
>, 1. 7' 7,4Q,416'>71.'646?. ;768' 566,<7' 71,?' < ; , / '
?5.76' ?,41' =4.'Q.% ?4 66.' .<' E' 1.' 46'J.'>'<6' / ,<'
1'??,17% <6' ' >, <.8' 6'<6' - ,45, 1' 1. / ,<7.1' '4@'
; '46.6' ?1. / .1.68' Q.'?1.<>1' ' ; .77.' 'EE' 1.' '' >?,= .'
, 5'>.6' ?1, ; ;6 - .14'4@' .<'E,41< 66.<7'>.6' >.7' 56' ''4 '
7: .<7 =4.6%

.6'> 66.<7 / .<76'=4 ' .@ 67' .<7' ?'1 / '5.6' ; '7,V.<6'
> 15.6' >>7.1 / <>1.<78' '4' / , 6' ' '>>7' >.1< .18' 5.'
>.?'17. / .<7'>.6' K,< ; : .6 >4 K0><. ''V' .<- , - .1'>.6'
! , / / 66' 1.68' .7' '' '47,1 6.1' 5'' < ; ?'5 7.' '' 1. '
=<>1 1' 4<'1.<E,17'>.'J'1>.6' ''1:>7.5 >. - 55.N ; .77.'
/ .641.' .@; 7''4<.'J1'<>.'E.1 / .<7'7 ,<'>'<65''J'1>.'
<'7 ,<'5.% .' 5,16.?7. / 01.' .55.' 1.E46'>.'1. ; .1, 1'
5.6' 0, / / .6%>.'64??5. / .<7' =4 '54 '>7' .<7' .<- ,V.6I
; .4@ ; ' / 1.<7' 0'6' 5.6%'1 / .686.' ?1 .<7 .<7' '4'
; ,1?6' >.' J'1>.I' ,<' 5.41' > 7' =4 56' - .<' .<7' ?,41'
E,1; .1' 5'' J'1>.I' ,<' ?1 7' 5.6' '1 / .68' 5.6' : , / / .6'>.'
64??5. / .<7' 1.?1 1.<7' 5.6' 5.416I' 5.' 7, ;6 <' 6, <<'I'
/ ' 6' 5'' ; , / ?'J< .' =4' .7' 7' >.' J'1>.' 6.'1.711'8' .7'
5.6' : , / / .6' >.' 64??5. / .<7' 6 .1'?' .1.<7' >4' ; ,1?6'
>.'J'1>.% .'>.?'17. / .<7' ?1 7' 4<''11>7.' '' ; .7' .J'1>I'
.7' ; , / / .' >.?4 6' 5,<J7.1'?6' 5.6' ?1.71.6' 1>E1' ;7' 1.6'
E, / .<7' .<7>.6' 71,405.6' '' 15.68' 56' E41.1 7'466' ,0'
Q.7' >.6' 1.6,547 ,<6' E.1 / .6' >4' > 1. ;7, 1.% #.7' '11>5.'
?,15' 7' =4.'7,46'5.6; 7,V.<6'>.?,6'66.<7' 5.6'1 / .6''5''
/ 4< ; ?'5 7.8' =4.'5.6' / 4< ; ?'5 7.6' - , 6 <.6' 7 <66.<7'
'1 / .6' >,40.' ; .<76' : , / / .6'>.' J'1>.6' <'7 ,<'5.68'
?1.76'' / '1; : .1'5''?1. / .1.'1.=4 6 7 ,<% '.<Q, J<' 7'
?1, - 6, 1. / .<7' '' 7,<6' 5.6' ?1>71.6' =4 ' < ' - ' .<7' ?'6'
?1.7.' 5.' 6.1 / .<7' >.' 6,17 1' < ; ,<7 <.<7'>.' 5'' - 5 '
> 15.6' .7'>4' > 671 ;78' .7' ,1>, <<' 7' =4.'5.6' ?,17.6'>.'
1.J5 6.'>.6' ; >. - '<7' , / < ; ' 7 68,4'6 '66. / 05' .<5'
5.6' <,< ; ,<E,1 / 67.68' 6.1' .<7E.1 / ..6' .7' / 41..6%

.6' > 6?,6 7 ,<6' >.' ; .7' '11. .'?'141.<7' .@71. / . '
/ .<7' 6. - .1.6' '4@' 0'0 7'<6' > 15.6I' '' .@; .?7 ,<'
> 4<'?.7 7' <, / 01.8' 56'1.E46.1.<7'>.'?,6.1'5.6''1 / .6I'
56' 1.47' '4' ; ,<71' 1.'>.6' ?1.?'1'7 E6'>.'>.E.<6.I% 76'
E,1 / .1.<7' 4<' ; , / 7.' / 5 7' 1.I' 56' . / ?5,V.1.<7' ; < '
=4'<7.' ?E. ; .6'>.' ; '<,<' ' . ; - .1' >.6' 0'77.1 .6I' 76'
E.1 / .1.<7' 5.6' ?,17.6' >.'5'' - 55.% < ; ,1.''4Q,41> :4 '
15.6' .67' >'<6' 5'' 6 74'7 ,<' >G4<.' - 55.'%>.' J4.11.8'
#.?.<>'<7' ; .6' ? .?'1'7 E6' <.'1'5.<7 1.<7' ?'6' 5.'>.M
?'17. / .<7' N' 5' <7' 5''1.?'17 7 ,<8' .<71.'5.6' / 4< ; ?'M
5 7.6' 8' >.6' J'1>.6' <'7 ,<'5.6' =4 ' >. - ' .<7' / '1.<.1'
; ,<71.' 5'' - 55.' > 15.6I' 7,46' .7' .<7' ? 1 <6' >.'0;5.'
?,41' ; .77.' .@?.> 7 ,<% ' '16. 55.' ,<' 6.'?5' J<' 7'>.'
< ' - , 1' ?'6' .< ; ,1.'1. 4' > ,1>1.'?,41' / '1; : .1% .6'
J'1>.6' <'7 ,<'5.6'>.' ?546 .416' / 4 ; ?'5 .6' 6.' / '
1.<7' .55.6 / . / .6' .<' / '1; : .% '66. / 05..' .5. ;7,1'7.'
6.'<7' ' @ 71' - ' 55' 7''E' 1.''4J / .<7.1' ''7.1 / .< '
7'7 ,<' >.6' .6?1 76I' .55.' 6, / / '' 5.'>.?'17 / .<7'>.'
>,<<.1' >.6' ,1>1.6' ?,41' .@?.> 7 , I' .55.' . ;1 - 7'
4<.'5.771.' ; 1;45' 1.'?'1'5'=4.55.' .55.' <- 7' 7' 5.6' ; '
7,V.<6' '' / '1; : .1' ; ,<71.' '' - 55.' > 15.68' 6,46' ;
9 7.@7.'=4.' . .7' 7' 4<'E,V.1'>.' ; ,<71. 1. - ,547 ,<8'
'<6' 5'%1' . / .' 6.'< ; .8' 5.76' 6.?7. / 01.8' 5.' ; ,1?6'
.5. ;7,1'5' .<- ,V''>.6'>.?47.6' - .16>.'> 1. ;7, 1.8' ?,41'
5.'6, / / .1'>.' < 7.1'5.6' <.641.6'>. , 7 - .68' 6'<6'7 '
7.<>1.'5''1.4< ,<'>4' ; ,<6. 5' >.'>.?'17. / .<7I .78' -4'
1<1J.< ; .'>4' ; '6' .7' 5.' >'<J.1' =4.'?,4 - ' 7' .<71'E<.1'
5.' / , <>1.'>. ' 8' 5.'> 1. ;7, 1.' .<- , ''>.6' ; , '71 .16

.@71' ,1> <' 1.6' '4''' / 4< ; ?'5 7.68' ?,41' 5.41' >,7'
4.1' ,1>1.'>.'7.< 1' ?1 7.6' '' / '1; : .1' 5.416' J'1>.6' <'
7 ,<'5.68' 64 - '<7' .7' 7' >.' 1.?'17 7 ,<% .' 9' 8' 47'
>.?47'7 ,<' - <7' <6714 1.' 5.' >.?'17. / .<7' =4.' ''
6. / E'5..' .5. ;7,1'5.' 6 .7' 7' 1.<>4.' ?.1 / '<.<7S'
=4 .57.' ' - ' 7' 646?.<>4' 6,<'6 ;147 <8' .7' =4 .55.'<.'>.'
. / ?'1.1' 7' ?'6' ' - '<7' =4.' 5.'> 1. ;7, 1.' .>7' ?1 6' 7'
'11.7.' ?546' 6'7 6E' 6'<7% .' ; ,<6. 5' >4' >.?'17. / .'
'??1,4 - '' 5.6' / .641.6' ?1 6.6' ?'1' 5.' > 1. ;7, 1.IS'
6 , ; ;4?'' / > / .' >.6 > 6?,6 7 ,<6' / 5 7' 1.6I' 5. ; , '
6.15' ; : '1J1''5'' / 4< ; ?'5 7.'>.'E,41< 1'>.6' E,<>6%
8' .'5.<> ; / ' <' 5.6' .5. ;7.416' :6714 6 1.<7' 5.'>.?''
7.1' .<7' =4.' '66. / 0 ..'.5. ;7,1'5.'6.1' 7' ?.1 / '<. '
Q46=4 '' ; .' = .' 5''E,1; .' '1 / ..' E>5' >. - '<7' 5.6' ?,17'
> 15.6I' = .55.' ' - ' 7' <, / / .' =4'7,10.' ; , / / 66' 1'
?,41' 6 1 - . 55.1' 5.6' ,?.1'7 ,<6I' =4 .55.'?.<6' 7' =EE'
<.'?,4 - ' 7' >, <<.1' 4<' .EE.7' 1.71, ' ;7 E' '4' >>.1.7' 1.5'
5 E' '4' ?'V. / .<7' >.6' .5. ;7.4168' .7' =4 .55.' .@ J.'
=4.'5.' ; ,<6. 5' E 7' 641 . ;0' / ?.5E. ;5 .1'5.'?'V.< .'
641' 5.' ?1,>4 7' >.6' ; ,<71 047 ,<6' ?405 =4.6' .7' >.'
; ' 6 .'>.6' >1, 76' '7 / 01.' .7') &
.' (8' ; .6' / > / .6' ; , / / 66' 1.6' ><' ; ,1?6' .5. ;7'
1'5' 01.<7' >.' <,4 - .55.6' <67'< ; .6' ?,41' .@?.> 7 '
> 15.6% .' >.?'17. / .<7' ?1,?,6'' > .<- ,V.%1' >.'
; , / / 66' 1.6' ?' ; ; '7.416% .' ?1, ;41.41' J.<.1''
6V<> ; ' > ;1 - 7' '4' / < 671.'>.' 7.1 .41' 7 <.' 5.7S'
=4 ' '<<,< ; .' =4.' 5'' J'1>.' <'7 ,<'5.' > @' .67'
/ '1; : .8' .7' =4 55.'?405 ; ' : '47. / .<7' =4 . 8' 6' 5.'>.M
?'17. / .<7' 54 ' ,1>, <.'>.'1.51,J1'>.18' .55.' < .<' 1''
?'6 / , <6' '' 15.68' .7=4.' '' 7 5.>;6; , / / 66' 1.6'
1. ?,<>1''>4' ; ,<71. ,1>1.%
.7,47.6' ##' > 6?,6 7 ,<6' 8' 5'' ?546' .EE1'V'<7.' .67' 5''
/ '1; : .'>.6' J'1>.6' <'7 ,<'5.6' N' >.6' 014 76' -1' 6' ,<'
E'4@' .<7>, <<>>.J1'<>.6' <=4 .74>.6' '4@' : '0 7'<76'
> 15.68' .7' 5.41' ! ' ;1' <>1.' ?546' =4.' 5'' / ,17' >.'
7, / 0.1' .<71.' 5.6' / ' <6' >.' ; .6' J'1>.68' <'7 ,<'5.6%
56' ; ,<6.1 - .<7' 5.' 6,4 - .< 1' >.6' ;14'47>6' ;@.1; ..6' $
5 / .6' .7' ' ,<7'40'4' ?'1' >.6' J'1>.6' <'7 ,<'5.6'
>71'<J 1. % ,46Q4J.1.0=4.5''?,5 7 =4.''47'<7= .'
:4 / '<7.' >, 7' - ,'6'>.7.1 / <.1' '' ?1.<>1.' 4<.'>.M
; 6 ,<' ?1, / ?7.8' =4 ' ?1. - .<<.'5.6' 64 7.6' =4 ' ?.4 '
- .<7' 1.6457.1'>.'5'' ; ,<>4 7.'>.6' =4'71.' / 55.'J'1>.6'
<'7 ,<'5.6' =4 ' ,47' ,1>1.' >.' / '1; : .1% .6' '11 7.6'
71.6 < ; ,<67 747 ,<<.56'>4' >.?'17. / .<7' ,<7' .5>'71.' '
; ,<67 747 ,<<.55. / .<7' '7 / 45.6' ?'1' 4<.'?1, ;5' / '7 ,<'
>4' 1, I' - ,46' ' - .0' -4' 5'' ; ,<>4 7.' 7 .J'5.'> 47 .'6'
6. / 05..' . ;7,1'5.' =4 ' '' <E54.< ; .'5.6' >.5 0>1'7 ,<6'
>4' >>?'17. / .<7' ?'1' >.6' >.?47'7 ,<6' 74 / 4574.46.6'
.7' '11,J'<7.68=4 ' '' ?,17> 5.'>>5 1.'Q46=4 '' 6.'1.<>1.'
?.1 / '<.<7.8' .7' =4 % '' .@; 7>' ?'1' 4<.' 5.771.' < ; .< '
&7 ' 1.'5.6' J'1>.6' <'7 ,<'5.6' ' / '1; : .1' ; ,<71.'5'' - 55.'
> 15.6%

(' - (.*$(.'(2(4 ('5 (' 0 '' +$''(.(U' '0 '' ' 3!'
((''(. ''*(' '(.+' 4+'' (2(.+4 (' - $$(' #+$) ('' (' 3 !'
4+) (7' (' ' $'' 36+.9-' - (' 0 '' 4. 4 '(.' *' -33.(,'
5 $' +*$$*' (' (' '+ . . (,-'' - ' - -4+ . , ((* ,/ 5 $' $!'
4. 0(' +' 3 *- $,(' - (' +''(*$) (%(' ((3, . + (/ (,' 5 $
.- ''$$*(+ 2' 9+. - ('' *+,$ *+ ('' 5*$' ' *,' (*' +.36('
- (' .(*, .(. ' -+*''$(. ' *$3$%4+ $,('' .('4(3 $0('
546 .416' / . / 01.6>. / '<>.<7' 5''?'1,5.%
' 'N' 'EE 1.' <.'?.47' 6,4<1 1' >.'> E5 ;45 '
7.6% .' ; , / 7.'>.6' 1'??,176' ' - ' 58'> '0,1>' 1>6,54' >.'
- ,<6' ?1,?,6.1' 4<'1.<- , ' ?41' .7' 6 / ?5.'>.' 'EE' 1.'
'4' ?,4 - , 1' .@> ;47 E% <' .<.58' 5.'1, ' '>1, 7' .7'' 1.6 '
0 .<'E' 7' >.' ; '66.1' 5.6' '11> 6'>4' >>?'17. / .<7I' ; '1'
; .'> 1. ;7, 1.' < ' - ' 7' ?'6' 5.' >1, 7' >.'>. 6'1 / .1' 5.6' ; '
7,V.<6'> 15.68' < '6417,47' >.'1.<>1.'4<' ?'1. 5' '11>4E'
.@. ;47, 1.6'<6 '47,1 6' ,4>4' 1, % <6 8=4'<7''
5'' ; ,<>< 7.'>4' >>?'17. / .<78' . .67' '4' 1, ' '' ?1,<,< '
. .18' 6'4E' 5.'1. ; ,416'>4' >.?'17. / .<7' '4' ; ,1?6' ;J 6'
5'7 E% ' 68' =4'<7' '4@' >5. ;7.4168' 'EE' 1.' <.'?.<7'
?'6 51.' 1.<- ,V>.'4' ?,4 - , 1' .@. ; 7 EI' ; '1' 5'' ; ,<M
67 747 ,<' ?1, : 0.' .@?1.66 8 / .<7' '4' 1, '>.' ?1, / / ..1'
641' 5.6' ' ;7.6' >.6' '66. / 05..6' .5. ;7,1'5.6I' . 58' .4' ;55 78

6'5.'cP -, 1' .@>;47 E' '-' 5'5.' >1, 7 > '<<45.1' .6'
';7.6'.71'<J.16' '4@' .5.;7 ,<68' 5'?,411' 7'6'<6' ;.66.'
<=4 .7.1' .7' <>4.<;.1' 5.6' '66. / O5..6' 5.;7,1'5.68'
.67'>,<.' '' 66. / O5. .'<'7 ,<'5.' '' ?1,<,<;.18' .7'
5.6'?1 <; ?.6'6,<7'6 / ?5.6% ' .67' - >.<7'=4 .8'6'5.6'
'66. / O5..6'>5.;7,1'5.6'?,4-' .<7'?1.<>1.8'5'' / , <>1.'
>.5 0.1'7 ,<' .71'<J.1.' '4@' 5.;7 ,<68' .55.6'4641?.'
1' .<7'7,<6'5.6'?,4-, 16% '66. / O5..' .5.;7,1'7.'>4'
>.?'17. / .<7'>.6' K,4;:.6\>4 K:,<.' '' ;, / / .<;.'
?'1' >;5 0.1.1I' .55.' '' .<-,V.' 71, 6' >.?47'7 ,<6' '4'
>1.;7, 1.'N .55.' ''E' 7'0 .<'?546..55.' '' .;1 7' '4@' / 4'
< ; ?'5 7.6' 4<.' 5.771.' ; 1;45' 1.8' >'<6' 5'=4.55.' ,<'
1. / '1=4.' ;.77.' ?:1'6.' N W# .67' 4<' / , / .<7' >' '
5'1< .I'7,47'5.' / ,<>.' >, 7'6 '1 / .1I' ; .67' '' 5'' - 55.'
> 15.68=4 'E'47' / '1; : .1%'$' .'>6'=4.'6 8' ?'1'64 7.'
>.';.77.'5.771.8' 5.6' J'1'>.6' <'7 ,<'5.6' / '1. <7'641'
15.68' .7' =4 5' '11 -.'5.' / , <>1.' / '5:.418'5.6' .5.;'
7. 16'>, -.<7'.<'X71.'?.16,<<.55. / .<7'.7' <> - >4.5'
5. <.<7'1.6?,<6'O5.6%%
' 67 5'1 .<'>.'6' .@71',1> <' 1.'=4 4<.' '66. / O5. .'
>>5.;7.416' =4' 6.' 1.<>'?.1 / '<.<7.8' .7' ;.5'' '?1.6'
'-, 1'>.5 0. 1.'5'' -. 55.' =4 .55.' 6.' E.1' 7'?'V.1Z' 55.'
> 7'=4.' -,71.' >.;1..' =4' >.E.<>' '4@' .5.;7.416' >.'6.'
E' 1.'?'V.1'< .7' 7'?'6'6'<;5 ,<<.I' .7' ; .67'?,41' ;.5''
=4 .55.' '' ; , / / .<;.' ?'1' ?1.<>1.' 1'1J.<7S' # .67' ''
6,<' <; 7'7 , '=4.'=4'71.' / E5.' : , / / .6' >.%J'1'>.6'
<'7 ,<'5.6' / '1; : .<7' ; ,<71.' 5'' - 55.' > 15.6I.7' <.'
-,V.O -,46'?'6' 5.6' >'<J.16' > 4<.' ?'1. 55.' .@?.> M
7 ,<8'>'<6' 4<' ?'V6' , 5' 5.6' 7>7.6'6 .; : '4EE.<7'E'; 5.'
/ .<78' , ' 5' V '' .4' ?.<>'<7'>.4@' '<6' 5 <.' J4.11.'
; - 5.' '' - J<,<8' ,4' 4<.' J4.11.' ; - 5.' '' ?1.6=4.'
>;5'7>' ' / .6Z' .'>. ?'17. / .<7' '-' 7'6'J. / .<7'?1 6'
'11 7>' > .<-,V.1'>.6' ; , / / 66' 1.6' ?' ; E ;'7.416I'
.:'0 .<8' 5.6'. 5.;7.416' 54' .<-, .<7'71, 6'>. ?47'7 ,<6'
; ,<6.;47 -.68' ?,41'5.'6, / / .1'>.'E' 1.' / '1; : .1'>.6'
7 ,4?.68' ?,41' 5.' E,1;.1'>.' E' 1.'>.5 -1.1'>.6E,<>6'
641'5'' ;' 66.'>.6' ; ,<71 047 ,<6'?405 =4.6% ' ,< - ,46'
1.<>' 7' ; , / ?7.' >.'7,47.6' 5.6' ; 1; ,<67'<; .6'>.' ; .77.'
'EE' 1.8' -,71.' <> J<'7 ,<' 6.1'57' '4' ; , / O5.' ; ,<71.'
;.6'> .;7.416% ' 1.6457.'>.' ; .6'E' 76'=4.' -,46'>.-.O'
<.; .66' 1. / .<7' ;'66.1' 7,47.6' 5.6' >.:0.1'7 ,46' =4'
,<7.7.'>71'<J>1.6' '4@' .5.;7 ,<6%
.' -' 6' -,46' ; 7.1'4<'E' 7'=4' -,46'E.1''04J.1'6'5.6'
:'O 7'<76' > 15.6'6,<7' '466' ; ,4?'O5.6' =4 ,<' 5.6' ''
1.?1>6.<7.6% 466 7>7' =4 56' ,<7'1. ;4' '11>7>' >4'>. '
?'17. / .<78' 56' ,<7; : '1J.'5. ; , / / '<>'<7'>.'5''J'1'>.'
<'7 ,<'5.' >.' 1.?,<>1.' =4 56' <.' 1.E46.1' .<7' ?'6'
> .@. ;47.1' '11>7.8' =4, =4.' ; ,<71' 1.' '4'>1, 7'>.6'
J.<6I'=4 56' / .771' .<7'0'6'5.6' '1 / .6'6' ,<'5.41' .<M
-,V' 7'>.6'71,4?.6'>.'5 J<.8' / ' 6'=4 56'<.' -,45' .<7'
?'6'>.' J'1'>.6'<'7 ,<'5.6' .51'<J.1.6%
.'>. / '<>.'>,<.8' '4'<, / '>.' ,1>1.' ?405 ;8' '<'
<, / '>.' 5' 71'<=4 55 7>' >.'5'' - 55.'> 15.68' =4' 6 .67'
7,4Q,416'0 .<' / ,<71>.8' >'<6' 5'=4.55.' 5.' ?'17' =4'
-.47'5.'>.6,1>1.' ''7,4Q,416'>7>' 5.'?546'E' :5.8'7'<> 6'
=4 5' '8' '4' ; ,<71' 1.8'?1.>, / <>'>'<6' '66. / O5..'
.5.;7,1'7.8' Q.' >. / '<>.8'> 6 Q.8' =4.' -,46' '<<45 .O'
7,<6'5.6' '11>76'>.' ; .77.' '66. / O5>.' .5.;7,1'5.8' .7'=4.'
-,46' '>,?7 .O'5.'?1,Q.7'>.'>.;1.7'>.' % 5=4 .1%
' 'N' 66. / O5..'>, 7'>'<6' ; .77.' ; 1'
; ,<67'<; .'>.?5,V.1'4<' J1'<>' ';7.'>.'6>-.1 7.' ; ,<71.'
>.6' >.5 0. 1'7 ,<6' '77.<7'7, 1.6' 5'' ; ,<67 747 ,<8' .7'
=4' ; , / ?1, / .77.<7' > 4<.' / '< .1.' 6' 7.11 O5.' 4<.'
\ 55.' 6 <; .1. / .<7' '77' ; : .' '' 5'' ; ,<67 747 ,<% ' .67'
<47 5.'>.' ; : .1; : .1' 5'' ; '46.' >.6' 71,405.6' ' 55.416'
=4.'>'<6'5.' ; ,1?6' .5.;7,1'5% .?4 6'6'' ?1. / .1.' '6'
6. / O5>.8' 5' < '' =4.' 71,?' / '4 E.67>' 4<.' '< / ,6 7>'
>.?5'; ..8' .<6.5' 66'<7'?1.-.< 1'?'1'4<'>.'6.6' / .'
O1.6'641'>.6'?1>7.<>46'>.6,1>1.6' =4 8'6 56' .@ 67' .<78'
?,4-' .<7' >71.' E'; 5. / .<7' '?' 6. 6' .<' '>,?7'<7%>;6'
/ .6 1.6'>.'?'; E ;'7 ,<% ' $
'% (''3$, 8(*''+ +. -''-((' .(''$'O$ (*,('/ *,'
%-$' '(' 4.($* *$.' 3 *,.(' -(''4.(0(*,$ *'' '$'$* ',('/'
A(' * + ,(' .$(*' '3(' 5$$+'-$,' ' +*-.(/'$ *'5 (

66. / O5>.' >, 7' ; '66.1' 7,47.6' 5.6' >.5 0.1'7 ,<6' >4'
; ,1?6' 5.;7,1'58' ; , / / .' / '<=4'<7'>4' ; '1';5 1.' .6\'
6.<7 .5'>.'5 0.17.I'=4.'5.' ; ,1?6'.5.;7,1'5' .7' '66. / '
O5..' >.' >.?'17. / .<7'>, -.<7' >71.' ?.16,<<.55. / .<7'
1.6?,<6'O5.6'>.'7,<6'5.6'>-.<. / .<768' ' <6' =4.'>.6'
E1' 6' >.' 71'<6 / '1; : . / .<7' .7' >.' ' / . / .<7' >.6'
J'1'>.6' <'7 ,<'5.6% .' ; ,<;546' ?1 <; ?'5. / .<7' '' 5''
1.67 747 ,<' >4' 71' 7. / .<7' =4.'5.6' .5.;7.41 ' 6.'6,<E'
'771 04.% G
% 'N .'>. / '<>.' .@?1.66> / .<7'=4 5'
6, 5''Q,47.' '4'>.;1.7N W34.'5.'1.-.16. / .47'6.1''E' 5'
'' 5'' ;' 66.'>.'> 671 ;7'>.'7,47.6'5.6'6, / / .6'=4 56' .<'
,<7'E' 7' 6,17 18' .7' =4 56' 6.1,<7' ?.16,<<.55. / .<7' .7'
6,5 >' 1. / .<7'1.6?,<6'O5.6%G' <' '' / 6'5.6' E<'<;.6'
>.' 7'7' '4' ?55'J.' .7' ''5''> 5'? >'7 ,<I' ; .67'4<'>.M
O7''71, ; .I'6' -,46'<.'5.'?4< 66.O'6.- 1. / .<78' -,46'
?,4-.O' ; , / ?7.1'=4.'7,47.6'5.6' ; ' 66.6'>.'> 671 ;7'6.M
1,<7'5 -1..6' '4' O1 J'<>'J.% ' -'4>1' 7' '47'<7'1.67.1'
6,46' '<; .<' 1.J / .'=4.'>.' - -1.' 46G4<'1.J / .'
,4' 5.6' 0 ,<6' ; 7,V.<6' 6.' : 7.1' .<7' >.' ?'V.1'5.416'
; ,<71 047 ,<6' ?,41' =4 .55.6' >.- <66.<7' .<64 7.' 5''
?1, . >.6' O1 J'<>6%
' / .<>. / .<7'>.' % K,<<. / '<7' .67'>,?76%
.'?1,Q.7'>.'>.;1.78' ' <6' ' / .<>>8' .67'>..1>7>'.<'
; .6'7.1 / .6'1
W' 66. / O5#.'<'7 ,<'5.8' '?1#6'' -, 1' .<E.<>,' 6,<' ., '
<7.'>.6'1'??,1768' =4' 54' '' 1.<>4' ; , / ?5 5.6' '11 7#6>4'
> 1.;7, 1.' .7' >4' ; ,<6. 5' > '> / 671'7 ,<' >4' >#?'17. / .<7'
>.6' K,4; : .6 >4 K:><.8' ' <6' =4.' >.'5'' ?1, ;5' / '7 ,<' >4'
1, 8' .<>'5.'>4')' >.' ; .' / , 68' =4' >.;5'1.' <476'5.6'11#7#6'
>.' ; .'>.?'17. / .<78' >.6')' Q4 < .7 (' 6.?7. / O1.'>.1< .18'
/ ?1,4-.' 5'' ; ,<>4 5.' >.6' .5.;7.416' >4' >#?'17. / .<7' >.6'
K,4;O.6 >4 O><.I'>.;5'1.'<456' .7' '77.<5'7, 1;6.'5'', '
65 547 ,<' .7'' ,1>1.' ?405 ;'5.6' '11.7.6' =4 56' ,<7' ?1 6'1.5'G
7 -. / .<7' '4@' 71,405.6' >.' 5'' - 55.' > 15.68' ' <6' =4.'5.416'
>.5 0.1'7 ,<6'>4' '>.' ; .' / , 68' ?'1'5.6=4.55.6' '66. / O ..'
.5.;7,1'5.'6 .67'>.;5'1..'?.1 / '<.<7.I' '7'>.E.<6.'4@' . ;G
7.416'>.'?1, -,=4. '' '-.< 18'6,46' '4;4<' ?1.7.@5.8' .5'>'<6'
'4;4<' ;'68' '1 / . / .<7'.7'5'' / '1; : .'>.6' J'1'>.6' <'7 ,<'5.68'
6,46' ?. <.'> .71.' ?,4164 - 6' ; , / / .'?.17410'7.416' >4' 1.G
?,6' ?405 ;%
\
' $' 17% G ' 66. / O ..' <'7 ,<'5.'>. ;1.7.'=4.'5.6' / . / '
O1.6' >4' ; ,<6. 5' >4' >.?'17. / .<7' .7' ; .4@' >4' ; ,1?6' .5.;7,1'5'
>. / .41.1,<7' ?.16,<<.55. / .<7' 1.6?,<6'O5.6' >.6' / '4@' =4'
?,411' .<7' 1.6457.1' >.' 5'' / '1; : .' >.6' J'1'>.6' <'7 ,<'5.6'
=4 56' ,47'?1>><<. .' ,4'?1, -,=4. .8' .7' =4.'5.6' .5.;7.416'6.M
1,<7'.<46'>.' 1.6 74.1' 5.6' 6, / / .6' =4' 5.41' ,<7'.7.' <> '
/ .<7'?'V. .6' .'5.41=4'5'7.'> . .;5.416%
_ % 34.'5.6'J'1'>.6' <'7 ,<'5.6' =4' ,<7' .<' ,1>1.'>. / '1G'
; : .1' ; ,<71.'5'' - 55.'> 15.61.<71.1,<7' <; .66' / / .<78' .7' '4'
?1. / .1' ,1>1.'=4' 5.41' .<'6.1'' >,<<.8'>'<6' 5.416' / 4< ; %
?'5 7.6' 1.6?. ;7 -.6I .5' =4.' 5.' 1, ' 6.1'' ?1 .' > .<-,V.1' '
15.6'>.6' ; , / / 66' 1.6' ; : '1J.6'>.' 1. 'O5 1'5''?' @8' .7' '47,_
1 6.6' O' 1.=4.1 1'5'' E,1; .'?405 =4.%
W % 66. / O5..'<'7 ,<'5.'1.<-, .' '<'?,<-, 1' .@. ;< 5'
'67'74.18' 6 5' V ''5 .48' 641'5.6' '11.7.6' .7'>.5 0.1'7 ,<6'> '
>.?'17. / .<7'>.6' K,4; : .6 >4 KE'><.%$
= ' E)
; ' ' % K' / '-.' ''E' 7' 4<' 1'??,17 641' 5.6' ; ,5,< .68' *
5'' 64 7.' >4=4.5' 5' '' ?1,?,6.8' '4' <, / '>.6' =4'71.' ; , / .J
; : '1J.6' >.6' 'EE' 1.6' ; ,5,< '5.68'5.'?1,Q.7'>.'>.;1.7'64 -'<7N
W' / O ..'<'7 ,<'5.' ; ,<67'7<'<7.' -,45'<78' '-'<7'>.'
7.1 / <.1'6.66.' 5' ; .68' '6641.1' > 4<.' / '< #1.' <-'1 'O5.'5.'
71'<=4 55 7.' <7.1E.41.'>.6' ; ,5,< .6' .7'5.6' '-'<7'J.6%=4.'5''
H1'<; .'1.7 1.'>.' ; .6' / ?,15'<7.6'?,66.66 ,<68'>. ;1.7.' ; , / '
/ .'17 ;5.6' ; ,<67 747 ,<<.56'?,41' 5.6' ; ,5,< .6' ; .'=4'64 7N
'' 17' 7' 66. / O ..'<'7 ,<'5.'5 65'7 - .'67'74.1'' .@'
;546 -. / .<78' '-.;'5''6'<;7 ,<'>4' 1, 8'641' 5.'1.J / .' .@7.'
1 .41'>.6' ; ,5,< .6% <' ; ,<6.=4.<; .8' .55.' E.1'N' G'5.6' 5, '
%=4 1.J5.<7Q.6' 1.5'7 ,<6' ; , / / .1; '5.6' >.6' ; ,5,< .68' ; .55.6'
=4' .<%'66'1.<5'5.' / ' <7 .<' ?'1' .7'O5 66.1, .<7'>.6' / ,V.<6'
85.' 641-. 55'<; .8'5''?,4164 7.8' 5.'04J. / .<7.7'5''?4: 7 ,<'
>.6% ; ,<71' -.<7 ,<68' .7' ; .55.6' =4' J'1'<7 66.<7' .@. ;45 ,<'
>.6' .<J'J. / .<76' .<71.'5.' ; , / / .1; .' .75.6' : 'O 7'<76'>.6' ; , '
5,< .6I' CG' .65, 6' =' ' ; ,<; .1<.<7'5''>.E.<6.'>.6' ; ,5,< .68'
5.6'?'15 .6' / 5 ' 1.' .7' '> / < 671'7 -.'>.'5''J4.11.'.7'>.'5''
/ '1 <.%

[illegible]

! b ' ',%' K' = 0' ! >' %

:' WGE F' WX') " ' BHTB < 'A ' ' '

3 %

! %

'$ ' 'g ' +' .7<E .1.41' .67 1.-.<4' .' 5< 70' ' 1'J4.8' .<'?'66'<7'?'1'5"E,15.1.66.'>.' :>1.' 6 .<67'>% .'?1<;.' <7,<.'>.' '@.'.7 1'1;: >4;:.66.'6,< .?,46.'6.'6, 7>J'5. /.<7 1.<>46' " 1'J4.%

'<,4-.'4'7'1 E'4'64Q.7>.6'>1, 76'>.<71>.'.7>.'6,17 .' >.6'64;1.6' 1.<',7>.' .71'<J.1' .7>.6'?,176'>.' 1 .67.' .7 >.' H 4 / .8" ?'14' 5.' ' ', 7I' ' '41" 6,<'.@.;47 ,<' .' S$ < -. / 01.?1,;:' '<% 8

.;:'<J.'>.6'1'7 E ;'7 ,<6'>4' 71' 7. .7>.'5";,<-.<7 ,< ;,<;546' \ ;5 67, [8'5.'U',478'.<71.'5";,41'>.' .<<.'.7 " , 7.G , / '<.8'6 .67'E' 7>'<6'5.' / . / . .<>1, 58'5.' % .' 6 .41' <,< 8' <7.1?1.7.8' " '??,17>' >'5.6'1'7 E ;'7 ,<6'>.' 5" ,17.%

?196'6,< .,41,<<. / .<7 ; , / / .'1,'>.'K,: . / .8' . / ' ?.1.41'- 6'7.1" 5.6'?1 <; ?'5.6'- 55.6'>.';.'1,V'4 / .8' '<6' =4.';.55.6'>.'5" ,1'- .I' ,<.6? 1.'=4.' % %6.1"UK1 << 5.'C)'>.';.' / , 6% %

< <71,>4 1" '466'.<K,: / .'5.'<,4-.'4'6V67. / .'>.6' ;,<71 047 ,<68' / ' 6'-.;'>.6' / ,> E ;'7 ,<6I'5.' ?5'< E' 5'U ;.'64Q.7" .4' '??1,0'7 ,<'>.6 .7'76%

'8 & ' '(' +' . U' >.' ;.' / , 6'5.6' .7'76',<7 ?1>7.'U % %5.'6.1 / .<7>.'E>> 7.'.7>:, / / 'G J .I'5.'6, 1'5" - 55.'" >7.' 554 / <..%

B .1'5" ;>1. / ,<.'>4' .,41,<<. / .<7 " .4' 5 .4' '-.;' 7.'<;,4?'>.' / 'J< E ;.<;.I' % % ">>';,<>4 7.'6,5.<<.' 5. / .<7>'<65 >J5 6.'>.' ' <7 7.8' ,U '1;5 .->=4.8' '?1>6' 5" / .66.8' "E' 7 ';7.'>,'.,41,<<. / .<7I U;.77.' ,;;'6 ,< ,<'">671 04>'>.6' / >>' 55.6' > ,1' .7> '1J.<7I'> .6'1.?1>' 6.<7.<7> 4<' ;>7>'5.'5 ,<>.' K,:> / .8' 7.<'<7>'<6' 4<.' J1 E .'5" ;1, @'>.' #:'15.6' 8' .7>'<6' '471.' 4< >;466,< '-.;'5.6' '1 / .6'>4' -,V'4 / .I'5" >J.<>.'?,17.N 8 ' '

5' '471.';>7>'1.?1>6.<5.'5";,41,<<.'>.'K,0> / .8' '4 >.66,46'>.'5'=4.55.',<5 71 <6;1 ?7 ,4'64 -'<7.N' ' A' 'G ' 'MM' '! ' & '7 & A' ' ' ' 2 ', ' ' '8 & *' g ')* % 'U ' +' '<6'5.'E.4'> '17 E ;.'=,' E47>,<<>>' 5< 708' .<' :,<<.41'>.6' '0.6 >68' ,<'?>/ 1" 4<.'>.;,1'7 ,< =4' 1.?1>6.<7' 7 4< 7. / ?5.' >5.->6<1'>.6' ;,5,<<.68' >'<6'5.=4.5' ,< -,V' 78' =4.5=4.6' >.J1>6' ?546' '0'<78' 4< '47. ' .-'<7 ; .7 '47.5' >7' .<7>.4@ K, / ' <6' >'<6'5.';,674 / .'> 4J467.8' =4'6.'>,<<' .<7'5" / ' <% 4' >.6646',<5 6' 7;.77.' <6;1 ?7 ,< NG ' & ' 5" >1, 5.'>4' 7. / ?5.'?'1' 66' 7 5" E J41.'> 4<.' E. / / .' :'0 55..'U '<7 =4.8'7.<'<7 .<'6" / ' <'>1, 7.'5.';.'>4.>.' >.' .1;41.8' .7>'<6'6"J'4;:.'5";, / .'> '0,<>'<;.8' '-.;' ;.77.' <6;1 ?7 ,< I $ ' "E J41.'>4<6,' 5. 5'5.-'<7 6.'7.<' 7 U'5"J'4;:.'>4' 7. / ?5.'>'<6'5" / . / .' %?,6741.8'5.'01'6'>1, 7>7.<>4'8 .7>'<6'5" / ' < J'4;:.'4<.' ;,41,<<.' 641' 5'=4.55.' ,< 5 6' 7 N 8 ' ,47.' ;.77.' 1.?1.6.<7'7 ,< >7' 7>;5' 1>.'> 4< E.4' >.1>-.E0>1.I' / ' 6'5.6' <6;1 ?7 ,<6'>7' .<7'71'<6?'1.<7.6%

'$! '5.' ' ' +' .65.771.6'>.' .<<4' '??1.<<.<7 =4.8' ?.4'>.'0,416'<-' 7 5.'>>?'17'>.' . / ?.1' 1.41'?,41' 1'J4.8'5.';'1> <'5 '1;:.->=4.'?1>6.<7"U % %8' 4<.0455.>4'?'?.8'=4'.@; / / 4< .'7,465.6'E1'<;6 / '?,<68' ; / / .' '47.416'8 1'45.416'.7 ; / ?5 ;.6' >.'7,46'5.6'>>6,1' >1.6'=4'6.;, / / .57.<7>'<6' ?546' .416' 7'76'7 5 . / ?.1.41' 5"?1 58' "5478'.75"1.<> 7U ,< / <.<;.8' .< 4'>.;5'1'<7 =4 5'< .<'?,4-' 7E' 1.' '4;4< 46'J.'>'<6'6.6' 7'76%

L K %

' '@ '& 4<.' ' ' ' 'C '
.'J,4-.1<. / .<7< " ?'6% -4' > 4<'0,< ;.'5 5"1> /G ?1.66 ,<=4.' ,<' 'E' 7.' ;'>.'5" 5.771.'>.' F ' .7 '> 17, 68' .7>.'5">.;5'1'7 ,<>.' 5< 70% "?1. / >1.' %>.';.6? .;.6'< .67?, <7'4 :.<7 =4.8'?'1; .=4 '<V " '4M ;4< 7<,V.<>.'54'>,<<.1';';'1'.7>1.% #.'6,<7'5.6'?1 <; ' ?'4@'> / J1>6'>.'H1'<;.'=4',<7 .<;,41'J.'4< / ?1 / .418' ,,7 >' % . / ' 1.8'U6.';:'1J.1U.';.77.';.4-1.'>.' %>.%

Uh' '^' < ' '.

#'5,<<.% #.7 / ?1 / .41' .67 5.' / >/ .'=4 8' ?.<>'<7 5.' 71,405.68' " 6.1-' :4 / .41>4' E'<'7 6 / .% .'1'??1,;:.M / .<7 .67 6 <J45 .18' .6' >> 7.416' >4' ?1>7.<>4' E7 '<1.6 ' ,<7 ?1 6'H.> ,4'U ?.4' ?1>6'7,47 .<7 >1.8' .7 6.'6,<7';: 1J>' >.'5" > 651 04.1% # .67 ;, / / .' 4<';'5 / '47 ?,41'5.6'J. 556'
:, / / .6'E4J 7 E6%

' <'77.<>'<78' 1 .<< '<<,<;.'>.';.';>7>'>.6' -4.6';,< 1' 1.6'U 5" H1'<;.% < - , 7 / > / .' / , <6'>.'?54 / .76' .7 >& ;,;'1>.6' 05'<;:.6' >4<6' 5.6' 4< E,1 / .6' 1,V'4@%%%% / > / 7 >.?4 6'5" 7' / .46.'>.;5'1'7 ,<'>.' 5< 70%%%% 34.5=4.6'> / ' J1>6'1.7,41<.<7>'<6'5.41'?'51 .8' / ' 6' .<'?.7 7'<, <01.I' ,1' 5.671' 7.'>.'5';:.68' .78' ;:,6.'6 ,J=5 >1.8' ; .67 =4 5' '11 -7 ?546' >.'H1'<Z' 6' =4 5' < .<'?'17% <.' / '@ / .';,<67'<7S ?'1 / ' 5.6,067 <>68' ; .67 =4.'5.6'J.<5 560, / / .6'>, -.<7 67 1.4< 1' ?,41' 1.7'05 1' ,4 6' " ' .7 5" <,05.66.' 641' 7 1><.8' .7;% $ % %%

' & ' ' ' ^ ' ' '??1,;:.'>.6'>.;7 ,<' =4' -,<7 1.<,4-.5.1'5" / 'J 6 1'747.'>. >J.8' / / '<>.' / .<7>4' ?1 <;. >->=4.' ">>.E'1>' N G' =4.'5.6';7,V.<6 =4' '-' .<7>7>' / . / 01.6'>.'5" / 'J 671'741.'?.<>'<7'5.6'<<..' ()*' .7 (* 8'>?,=4.'>.6' 71,405.68' <.' ?0411' .<7 ?, 4' ;,<;,41Q1' '4@'>5.;7 ,<6I' 0G =4.'5.6'?.16,<<.6';,<<4.6'?' 5.41' '75';:. / .<7 '4@' ?1 <; ?.6'>.' 5" 1.-,547 ,< =4' ' >;:,4>8' .7 <;45?>.6'>.'?'71 ,7 6 / .8' '0041.1' .<7 5.41' .1' 1.41' .7 - .<>1' .<7 U 1>6'? 6;.<;.' '-' Pd' >.'?,4-, 1' >7< '> / 6.6' 641'5" 5 67.'>.6'>5 J 05.6%%

F

' ' ' 'G ' 'F' ' ' ' '8 '

+.$'/ (' PX' '(4,( ) .(' BHTB

6 .1 , 8' / ,<6 .418' 7,4.0>'>.6' 7> / , J<'J.6' > ' / ,4' =4.'54',<7>,<<.6'5.6' :'0 7'<76'>.'5";'?7'5.8' .7-,45'< E,41< 1U '55>J1.66.'?405 =4.'4<.'<,4-.5.',;;'6 ,<'>.'6' / '< E.67.18' '% '0.67>' / ";:'1J.>.'-,46'?1>-.< 1'=4 .55' E.1' 7 554 / <.1' & / '<;:.'?1,;:' < 5.6' <5.1 .6' .7 5.' #:' / ?6 5V6>.6% " '0.67>%-,461.;, / / '<>.>.'?1.<>1' 5.6' / .641.6'<>..66' 1.6'?,41'5.' / ' <7 ,<>.' ,1>1.'.7>.' ' 67 1.7>% ' & ' B 'G

B ?I' '

G '& ' ' '

';,1?6' / 4< ; ?'58' '?1>6' '-, 1' .<7.<>4'5.'1'??,17 >.' ;0 / / 66' 1.6' ;:'1J>6'> .@' / <.1' 5.6' '11.7>6'>.6' 6.;7 ,< >.6' ,67.68'>.6' , / 0'1>68'> B .<1' 8'>.' "#1, @ K,4J.' >.'1 1'7, 1.8'>.6' ! 1'- .168'>4' '5' 6 K,V'5' .7>4' ,' ;.'48' =4' >. / '<>.<7'5";<-,;'7 ,<'J><>1'5.'>.'5";, / ' / 4<.8' ?,41' ># 0>1.1' 641' >7'7';54.5' >.6' 6406 67'<;.' >.'5";'?'7'5.I' ,47'5.'?1. / .1'64067'547 '>0, <7 >4' ?1,;4' 1.41'>.'5";, / / 4<.I' >>;5'1.' =4.'5.6'11 7>6' >.'?546 .41' >.6'6.;7 ,<6'; >.6646'><,<.>.6'< >7'<7 ?'6'1.->546' >.6'E,7 / '57>6' ?1.6;1 7.6' ?'1'5"5,' / 4< ; ?'5.8'?'1' ;.55.'>4' ?' / ' '>.1< .18' .7 ?'1' '11 7>' >4' > 1.;7, 1.'>4' >>?'17. / .< >4' ' '-1'5' >.1< .18' 5' <.'?.<7 <' <.'>, 7 >>E>1.1' " 4' -,.4 =4 '<.'54'.67?'6' >J'5.1'.<7 .71.J45 >1. / .<7 ;,<<4' .7 ?1>6.<7>I' .7 <>'< / , <68' 641'5" ?1,?,6 7 ,<'>.' % 5.' / ' 1.'.7>.6' '>? < 671'7.416' '4' >>?'17. / .:7 >.6' 6406 6' 7'<;.68' 5.' ;,1?6' / 4< ; ?'5' ;,<-,;,=4.'5";, / / 4<.8'>'<6' 6.6'6.;7 ,<68'?,41' / .1;1.>'8'C)'>4' ?1.6.<7 / , 68' =4'71.' :.41.6' '1.5.->.8'U .E .7>.'>>5 0.1.1'641'5.6'6406 67'<;.6%'

J<.' =' 5' ' ; 8' A !!

$ ' '! ' ' ' ' ' ' ' '

:' BE'

.6'?.16,<<.6' =4'>.6 1.1' .<7 .<71.?1.<>1.'5"E'01 ;'M 7 ,<'>.6'E5'<6'>.' / .7'5'>.' ;5,;:.68' '55 .'>.';4 -1.8'>'<6'5" ?1,?,17 ,<'>.7.1 / <..'?'1'5"5,'>4' 9 ',47>.1< .18'.7> '?1.6% 1 .6?1,;.>>6'>, 7,<'E' 7 46'J.' U '7.5 .1'.7'05' '4 'K'1<'

)$,('/'(*,'+0 .,$("5*(' (" ' $ $,$'.'4 .'3(,,(' (*,.(D' 4.$'(/ '(. *,'.(0 ("+') .(+ ' -' '(3.(,+.$+,'-('B+'3 L'= K$ *'-(" **+$('/B$'.6G,G' (" **+$('/+'3 4,(.'-' ' . -(' +'4) $3+,$ *'-'4.('(*,'+0$'/ '5 %+$,'#,D 3.).((23 ! '$0((*,'3(('%55$' .+$(*,'4.('(*,-("+4. "3(' - +$*(' '(. *,'4+"+- $'(' D' (') .3 +' '(.+' 0(.', ,' (" ." < ("#(,(" (23(4,(('?/ -(4 $" -$ " 6(.("- ' +,$*' '5$D+' *('6(.((" ' $''$ *+$.(" 4- .. *,'3' 4.(*-.('3 *$3+,$ #,' -("3 *-$,$ *" (,'36+.9("-('3(,,((*,.(4.$'(('(3.(,+$.('9(*(.+' -(' +'3 $''$ *',$(*-.+'.(9$',.('-(" ' $''$ *"5 $' $'(. *,' .($'('/ (,'$' (*' -($0.(.+' *' .(! 3(4$''('5 $'(*' (* *3(.+' (" 4.$*3$4+,("3 *-$,$ *'7(@("'(Q! % *,'$9*(("-(" ' $''$ **+$.("(,'-('$(."3+ ,$ *' ' ((" 5 $'*('(. *,'4+".(0(, (" -('3(,,(' # . +$,-' *('(. *,'4+" +- $'('D

V]' +' 3$-,('-(" $" -(' +' *',$, ,$ *D' '(+*,+' $@(!' $4+*3$(/ -(4+.,((*,'-('@6-*(!(,, $.(/ *('.(3(0.+'4 '/+' . 4,(.'-' 'BD 3,).(/ + 3 *(' (,,.(' '4+5 (,'5 $'*(' ' $,' +[.+*36$7 .55.'+# .+*()$.+' -(' (' ('$(*'D

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' K ' %

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7 K K ' ' ' ' ! , %c<'+ -

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' ' 66. / 05 .' <' 7 ,<'5.' 'V'<7 1. ' 5 E.1.<7.6 ? .;.6 641'5'' 6 74'7 ,<' ';74.55.' >.6 ;,5,M < .68 5.6 '' 1.<-,V..6 ' @ =4'71.' ; , / 7 6 44 .55.' -' 7?1 ;.>. / / .<7 ;:'1J.6>4 71'-' 5 1.5'7 E'; .77.' Q<'15 .8 ?,41' 54' .<E71.'E' 7 1'??,17% .6 ; ,1' 7. 68 '?1,6.<' '-, 1' ?1 6 4<.' ; ,<<' 66'<; .''??1,E,<> .8 ,7 7?.<6>' =4.' ;.' < >7' 7 ?'6 ?'1' >.6 < .6 1.6 ?'1' 7 .55.6 =4 ,< ?,411' 7 '11 - .1' '5'' J4.1 6,<'%>4 < '5I / ' 6=4 5 E'5 ' 78 ?'1' 4<' ,4' ? 46 .416''17 ;5.6 ; ,< ' 67 747 ,<7 .568 '6641.1' > 4<.'?'17 5''71'4=4 55 7.'>.6 :'0 7'<76 >.6 ; ,5,< .68 .7 > '471.' ?'17 5.6 5 7.1>76 =4.'5'' / .71,?,5.' 71,4-.' >'<6 6,< ; , / / .1; .''-.; .4@% %

'11 -. .'>4 > ;1.7 >4' ' / ' ' '' ' <7 , / ,J4.' ' '' ?1,>4 7 5.6 .EE.56 =4.' -, >N ' <7 , / <J4.' > ' 7 > - 6.' .< >.4@ ?'17 68 >,<7 4< ' -' 7 '>,?5.'.7 >.E.<>4 5.6 >.;1.76>.5'' <'7 ,<8 .7 >,<7 '471.'5.6 '-' 7 71'<6J1.66 % .6 >.4@ ?'17 6 6.' 6,<7 1>4< 6 '' '11 - .' >4 >.;1.7 >'<6 .6?1 7 > ,??,6 5 ,<I 5.6 / .<.416 ,<7 .7 ' '4'?, <7 >.'E' 1.'?1>7.1'6.1 / .<7 ' 71,4?.6 E1'< ' 6.6 =4' 6.'71,4-' .<7 >'<6 5.6 >E5 ' 1.<7Y =4'17 .16 >.' ' <7 , / <J4.' <,< 6.45. / .<7 >.'<.'?'6 'J 1'?,41' .@. ;47 ,< >4 >.;1.78 ' 6> '% J 1' > 1.;7. / .<7 ; .<71.' 6,< .@.;47 ,<I .<E <'8 >5H.' 1.<56; , / / '<>'<76,<7.7.7,1; 6'>,<<.1.4@ /E / .6 5.6 < / .6 ?1, / .66.6% '<6 ? 46 .416 =4'17 .16>.' 5'' ; ,5,< .'8 <,7' / / .<7 ; .54' >.'%5'' !1'<>. K - 1.' ;7 ; .4@ .<- ,<4'47 5.' ,17 '4 1 ; .8 5.6 : , / <.6 % >.' ; ,45. 1' ,47 ?1 6 >.6 >.5 0.1'7 ,<6 ?'1' 5.6=4.55.6 56 5.<,<; .<7 .4@ / .1, .6 '' .EE.78 '4 0.<.E ; .'>4 >.;1.78 .7 ?'1' 66.<7 <. / .' V ,??,6.1' 4<.6 ,17.'>.' 1.6 67'<; .% %

.55.' '' .7.' .7 7.55.' .67 .<; ,1.'5'' 6 74'7 ,< >.' ' <7 ' , / <J4.% .6 <,4-.55.6 =4.' <,46 '-,<6 1.=4.6 >.1< .1. / .<7 6,<7 ?546 J1'-.6 .<; ,1.'=4.' 5.6?1. ' ;,>.<7.%6I 7,47 '<<,<..=4 ''5''1.4< < 4< -.16.55.' =4 ' -'' .71.' ; / .<7..' >'<6 4<.' '66. / 05.. ' ; ,5,< '5.' ,< ''Q, <7 >.6 ?1.;'47 ,<6 >.E < 7 -.68 / / .'1' 5 ' 7' 1.6I =4 ,< '' / 6 5.6 E,176 .< .7'78 =4 ,< '' .7'05' >.6 1.5'7 ,<6 >'<6 5.6 ; ,5,< .6 ?,41'?,4-, 1' ;<'1'6 ' . < 5.1' 5.6 E,1; .6 '4 0.6, <I =4.'1'66.<705..' ; , ' 5,< 5%;'=4 ' -'' 6.'701 / .1' ''>.6 J<.' 4<'5 .4'?,41'7. ' < 1' 6;6 6.'<; .68 << 5 .4 017 E .%8 'E < >.%?,4-, 1' 6.' <.7 1.' '' ; ,<-.17>.'5,47; ' .6? ; ;6 > '57'=4.6 8\7.05.6 .7' . 78 <4 'Q4 55;7.7'4'U' ,478 5.6 >.1< .1.6 ,4 ' 1. .6 =4 ,< '' 1.-4.6 >,'5'' 6 74'7 ,< >.' 5'' ; ,5,< .

>.' ' <7 , / J4.% '<6 ; .77.' 6 74'7 ,<'5'<.'E'<7 ?'6 ; ,<6457.1'6.45. / .<7 ; .' =4 ' .@ 67.8 5 E'47 .<; ,1.' '?.1; .-, 1' ; .' =4 ' .@ 67.1'% 1' -, ; 8 6 ' -,46 ; ,<645 ' 7.0 .7 5.' ?'66.8 =4 ' .67 7,4Q,416 5.' ?1>5 / <' 1.'>.' 5 '-.< 18.7 5.'1' 6,<<. / . 7 5.' ?546 6 / ?5.8 -, ; ' =4.58 6.1'' 5.'1.6457'7 >.'5''E.1 / .<'7 ,< >'<6 5.6 ; ,5,< .6% % '?1.6 5.6 > ` 1.76 =4 ' ,<7 .7.'1.<>468 5.6 ; ,5,M < .68 ,4 >4 / , <6 ' <7 , / <J4.8 6,<7 ?.164'>.168 > 4<.' ?'178 =4.'5.'1.J / .' 47.1 .41' .67 <7.1-.17 8 =4.'5.6 / ,V.<6 >.' ; ,<6.1-'7 ,< 6,<7 'O,5 68 .7 ?'1' ; ,<6>=4.<7 5 < .67 ?, <7 > ,067';5.6=4 ,< 5 .'6, 7 >.M 7.1 / <.' '' V ,??,6.1I >'471.'?'178 > .6 6,<7 ?.1 ' 64'>..6 ?'1; .' =4 .55.6 '-' .<7 ;14' '<7.1 .41.< .<7 =4.' 66. / 05..'<'7 ,<'5.' '-' 7 ?1, / 6 >.'<.'?, <7 7,4; .1' '' ; .7 ,0Q.78 .55.6 6,<7 ?.16 '>..68 > 6 Q.8 =4 .55.' '' / '<=4.' '' ; .' =4 .55.'5.41' '-' 7 '<<,<; .I .<'; ,<6.=4.<; .8 6'5.'> ;1.76 0-.16 E8 ''5.416 V. @8 5.6 >.6.6?.1.8 5. / '<=4. / .<7 >.'E, ' =4 56 ;1, .<7 V -, 18 <.' 5.41' <6? 1.'?'6 / , <6 >.' 7.11.41'?,41' ' ' -.< 1I .55.6 ;1, .<7 '?.1; .-, 1' >'<6 ; .7 ' ;7.' <,< 8 6.45. / .<7 5.6 >'<J.16 <> 1.;76 =4 ' 1.6457'<7 >.6 >1, 76 >.' ; 7,V.<6 ' ;7 E6 ' ; ; ,1>.6 '4@ ; ,< / .6 >.' ; ,45. 18 / ' 6 5.' >'<J.1'?1, ; : ' < > 4<.'>. / '1; .' >4' ; ,1?6 .J 65'7 E8 =4 8 'V'<7 >.Q'' / '<=4.' '' 6.6 ?1, / .66.68 ?.<7 '55.1%Q46=4 '' '77'=4.1' > 1.;7. / .<7 .7 / / .> '7. / 1<7 5.' 1.J / .' ; ,5,< '5 ?'1' ' E '<' ; : 66. / .<7 >.6 .6;5'-.6% 34, ' =4 5 .< 6, 7 >> ; .6 >. .68 -, ; '<'741.55. / .<7 , 5 .55.6 >, -.47 5.6 ; ,< ' >4 1.N . .67 2' >. / '<>.1'=4.' 5.' ; ,1?6 5. J >'7 E <.' ?1.<<.' '4;4<.'?'17 ''5.416 5, 6 >4 1.J / .' 1 7>1 .418 '77.<>4 =4 5 .67 '4Q,41> :4 '>. / ,<71.' =4 5 <.'?.<7 V ?1.<>1.'?'17 6'<6 >.'71.6 J1'<>6 >'<J.16 ?, 1' ' ; ,5,< .6I . .67 =4 'V'<7 4<.'E, 6 >7'05 ' >'<6 5.41' .6 ' ' ?1 7 =4.' 5.' ; ,1?6 .J 65'7 E <.' ?.<7 ?1.<>1.'?'17 ' 5.41'1.J / .' <7.1 .418 .55.6 .< 7 1.<7 ; .77.' ?1. / .1.' ; ,<6.=4.<; .8 =4.' 5.6 ; ,5,< .6 <.'>, -.<7 ?'6 >71.' 1.?1.6.<7..6 >'<6 5.' ; ,1?6 .J 65'7 E8 ?4 6=4 5 <.E' 7 ?'6 5.416 5, 6I W7 >.' ; .' =4.'5.6 ; ,5,< .6 <.'6,<7 ?'6 1.?106.<7..6 >'<6 5.' ; ,1?6 .J 65'7 E8 .55.6 7 1.<7 ; .77.' W. ; ,<>.' ; ,<6.=4.<; .8 =4.' 5.' ; ,1?6 .J 65'7 E <.?.47 ?'6 E' 1.'5.416 5, 6 >.' ; , / / .1; .8 '77.<>4 =4 '4;4<' H1'<; ' 6 < .67 7.<4 = '' .@.;47 ,< >.6 5, 6 =4 5 ''E' 7 ' ?'1'54' ,4 ?'1' 6.6 1.?1.6.<7'<76% '?1E.6 ; .77.' 6 74'7 ,< .@ 67'<7.' .7 ; .77.' ; ,<Q,<; ' 541.' .@71> / . / .<7 ?1,0'05.' ?,41' '-.< 18 -, ; ' ; , / / .<7 <,46 '-,<6 .<- 6'J.' 5'' =4.67 ,<N 5 .67 ->.<7 =4.'7,47.'646?.<6 ,< ,4 / > / .' 6 / ?5.'1.M -, ;'7 ,< >4 8 <>.?.<>' / / .<7 >.' ; .' =4 .55.' '41' 7 >.'E .0.4@?,41'1 66.< 05>.8 <.'?1. - .<>1' 7 ?'6 5.6 <; ,<-.< .<76 =4.' <,46 ;1' J<,<6 I ; '1' 56 <.'?.4-.<7 5 971.' =4 .< 1'6641'<7 641' '-.< 1' ?'1' 4<.'E @'7 ,< / / 4'0 .'>.'5'' ; , / ?.7.<; .% ,46 < ' ' ,<6 ?'6 ;14'>.' / E / .'>.-, 1' E' 7.' ' ;74.55. / .<7 5'' 7,7'5 7.'>.' ,1J'< 6'7 ,< >.6 ; ,5,< .6I p ?'1; .' =4. ' <,46 < .<' '-,<6 ?'6 5.'7. / ?6I CD ?'1; .' =4.8 ; , / <.' <,46 '-,<6 >.Q'' '<<,<; .8 5'' J1'<>.'=4.67 ,< >4 1.J / .' <7>1 .41'<.'?.<7 ?'6 1.'>.; >.' ' '-'<7 >.' 6'-, 1'6'5.'6V67 / .' '> / < 671'7 E .7Q4> ; ' 1.'E1'< ' &' 66.1'' <71,>4 7 >'<6 5.6 ; ,5,< .6%

' 6 5 .67 >'<6 ,<6 5.6 6V67. / .6 ; ,5,< '4@ ?,6 ' ' 6 05.6 >.4@?, <76 <-'1 '05.6 ?'1'5. 51' .66.<; .8 ?'1; .'% =4.8 1.<E.1 / '<7 5 <791]7 <'7 ,<'5 .7 ; .54 '>.6 ; ,5,M < .68 56 6,<7 <. ; .66' 1. / .<7 5'' 0'6.' >.6 1'??,176 =4.'5.6 <'7 ,<6 .41,?..<<.6 .7 5.6 ; ,5,< .6 ?.4-.<7 '-, 1' .<71.' .55.6I <,46 '-,<6 ;14' =4.' 6 ' <,46 ?1, ' <,<; ,<6 641' ; .6 ?, <76 '4Q,41> :4 8 <,46 1.<>1 ,<6 Q467 ; .' '' ; : ' ; <8 <,46 E.1 ,<6 ; .66.1'7,47 ''5'' E, 6 5.6 .6?91'<; .6 55>J 7 / .6 641'5.'1.J / .' .@7.1 .41' .7 5.6 ;1' <7.6 5.J 7 / .6 415.'1>J / .' <7.1 . 1% ,46 8 -,46 ?1,?,6.1,<6>,<.'>.'>>;1.7.1'>.4@ 0'6.6 E,<' >' <. 7'5.6N 4<.8 =4.'5.6 5, 6 >4 1.J / .' .@7.1 .41' >.6 ; ,5,< .6 6.1,<7 ; ,<7 <4.55. / .<7 0% '%\5'' ; , / ?.M 7.<; ,%>4 ; ,1?6 .J 65'7 E8 6,46 5'' 6'4;7 , '>4 1, 8 .7 =4.' 5.6 ; ,5,< .6 <.'?.4-.<7 '' ; .7 .J'1>' E' 1.' =4.

>.6 ?.7 7 ,<68 =4 8 .< '4;4< #'6G<. ?,411,<7 71.
;,K .17 .6 .< 1E.J5. / .<76 ?1,- 6, 1.6 >'<6 5.6 ;,5,M
< .6I '<71. =4. 5.6 5, 66415 .7'7>.6 ?.16,<<.66.
1,<7 5' 7.6 ?'1 5.6 '66. / O5 .6 ;,5,< '5.6.7 .@.;47. .6
?1,- 6, 1. / .<7 > '?1 6 5' 6'<;7 ,< >4 J,4-.1<.418
;7 > 1.;7. / .<7 ?,17 .6' 5' '<;7 ,< >4 1, I Q5.67
<47 5. >. >. / ,<71.15. ?1. / .1 ?, <78 5 <. ?,47 ?'6
V '-, 1 >. > - 6 ,< ' ;.7 .J'1>I Q. ?'66. >,<. '4 6.M
;,<>8 =4 .67 4< =4. =4.67 ,< =4 5 6 'J 7 >. 1.
6,4>1. ';74.55. / .<7% 7. 1.J <'.% <7.1 .41 >.6 ;,5,
< .68 5.41 .@ 67.<;.8 5' 71'<=4 55 7. =4 V 1.J<.8 <.
?.4-.<7 71. ;,<6 > 1.6 =4. ;,4 / . 4< .> E ;. E';
7 ;.,4641<'741.5I ;'1 5' 64E! 6'<;. >.6 / ,V.<6 /Y
7 1 .56 .7 / ;'< =4.6 V / '<=4. 'O6, < / .<7% '<7
,7< <J4.8 .< / / . 7. / ?6 =4 5 .67 5' ?1. / .1.
;,5,< . >4 / ,<>.8 5' ?546 1 ;:. .7 5' ?546 ?1,>4;M
7 -.8 .67 '466 ;.55. , 5 5' ?,?45'7 ,< >.6 :, / / .6 5
O1.6 .67 .< / , <>1. ?1,?,17 ,< '-.; ;.4@ =4 6,<7
?1 - 6 >. 5.41 5 O.17.% '<5 , / <J4. ?1E.6 >.
=4'71. ;.<7 ; <=4'<7. / 5 . .6;5'-.6 6,<7 ;,<7.<46
?'1 .<- 1,< 71.<7. / 55. O5'<;68 .7 .6 .6;5'-.6 <.
?.4-.<7 ?'6 >71. ;,<6 >.1. 6 ;, / / . > 6'1/ .6I ;'1
>.6:, / / .6 =4 71'-' 55.<7' 5' ;45741. >.6 7.11.68
=4 ,<7 6'<6 ;.66. >.6 <6714 / .<76 >'<6 5.416 / ' <68
,47 7,4Q,416 >.6 '1/ .6I 5 .67 >,<;8?:V6 =<. / .<7
/ ?,66 O5. =4. 5. ?.7 7 <, / O1. >.6 O5'<;6 ?4 66.
;,<7.< 1 4<. ?,?45'7 ,< '466 ;,<6 >.1'O5. > .6; '
-.6 6 5. / ,V.< / ,1'5 <. -.<' 7 H'??4 >. 5' E'
O5.66. >.6 / ,V.<6 ?:V6 =4.6% #. / ,V.< / ,1'5 .67
>'<6 ,?< ,<8 =4 / .7 4<. > 67'<;. / / .<6. .<71.
:, / / .<, 1 .7 E:, / / . >. ;,45.418 .<71. :, / / .
>. ;,45.41 .7 :, / / . O5'<;8 >'<6 ,?< ,< =4 6.
?'1. 'O6,54 / .< 5' 1';. >.6 <J.<46 >.6 > .E.<M
>'<76 >.6 .6?5'-.6 8 ' =4.5=4. > 67'<;. =4 56 6, .<7%
.67 >'<6 ;.77. ,?< ,< =4 .67 5. / ' <7 .< >4 1.M
J / . >.6 ;,5,< .6 .7 5' O'6. >. 5.41 71'<=4 55 7.% 4
/ , / .<7 =4. 5. < J1.8 =4 8 < .7'<7 ?'6 .;5' 1>8 <.
?.<7 >71. ;,<>4 7 =4. ?'1 >.6 ?1.Q4J>6 ?'5?'O5.68
1 >.6 1' 6,<6 =4 47'??.<7 5.6 6.<6 ,4 =4 6,<7 / >
.6 6.6 :'O 74>.6I >4 / , / .<7 =4 c\,411' ;#<1.
=4 5 .67 '5 >4 O5'<;8 ,4 >4 / , <6=4. ;.54 =4
.67 >'<6 <7.1 / .> ' 1. .67 .J'5 >4 O5'<;8 >>6 5,16
5 >.- .<7 / ?,66 O5. >. ;'5;45.1 .EE.7 >. ;';:'<
J.7<.<7 > ,?< ,<% ,46 .< '-,<6 -4 5.6 ?1.4-.6
/ > / . ' '11 ->. >. -,71. >>.1.7% ,< ?1. / .1 . .78
>'<6 5.6 ?'1 66.6 >. 5' #1, @ .7 >.6 K,4=4.768 ' >7.
>.>,<<.1 5' ?.<6.. '<@ <.J1.6 =4 56 . ' .<7 5 O1.68
.7 71, 6 '7.5 .16 6. 6,<7 1.-,57>6% 5 E'<7 >,<. O .< 6.
;,<-' <;1. =4 5 3 ' ?546 >. 71'<=4 55 7.8 > .@ 6
7.<;. >'<6 5.6 ;,5,< .686 -,46 '77.<7.O ' ;.6 / ,V.<6
> ,?< ,<8 '<@ ?1.084J.6 =4 6,<7 5.6 6.45.6 6'4-.
J'1>.6 >. ;.77. .@ 67.<;.% #. 1.J / . .67 'O641>.I
/ '76 5 .67 >7'O5 8 .7 ,< <. ?. '7 V 7,4;:.1 O146=4.
/ .<7 6'<6 .<71'5<.1 5.6 ?546 J1'<>6 >>6'671.6I ;.
1.J / . .67 ,??1.66 E / ' 6 5 [7 .@-67.1.< H1'<;.
?54 .416 / 55 ,<6> :, / / .6N ;.1.J / . .67 O'1O'1.8
/ ' 6 5 V '41' 7 4<. ?546 J1'<>. O'1O'1 ;' -,45, 1
V ?,17.1 5.6 / ' <6 6'<6 '-, 1 5.6 ;,<<' 66'<.16 <.
;.66' 1.6I ;'1 5. 6'<J > 4<. <, / O1.46. J.<>1'7 ,<
;,45.1' 7 ?'1 -,71. / ?14>.<;.8 O .< 5, <> '-, 1 1.
%;4. 55 5. O .<E' 7 =4 .>7 >7> >'<6 -,71. ?.<6..I
' <6 8 ;. < .67 ?'6 ?,4V 5. O,<:.41>.6 :, / / .68 ; .67
?,41 >.6 / '4@ <;'5;45'O5.6 =4. ,< ?.47 6. :'6'1
>.18 >'<6 >.6 ;,<<']]'<;.6 7,4;:.68 ' ?,17.1 >.6
5, 6 6<1 5.6 ;,5,< .6% 5 .67 >- >.<7 =4 5 .67 ?546
'- <7'J.4@ ?,41 5.6 ;,5,< .68 ?,41 5' / >71,?,5.8 ;7
?,41 5.6 .6;5'-.6 / > / .68 >. < '664Q.77 1 5.6 1;J5.
/ .<76 =4 ' 4<. 6'<;7 ,< =41<;' ?.47 Q' / ' 6 .71.
/ ,> E ;'71 ;.8 ?547>7= 5. >. 5.6 1.>4 1. ' 4<. 6 / ?5.
< 7 '7 -. =4 ?.1 / .77,4Q,416 5.6 / ,> E ;'7 ,<6 ?,6
7.1 .41;6I .< .EE.78 6 -,46 ;,<6.1- .O 5. 6 / ?5. 6V6
7. / . >. <7 '7 -.8 -,46' . E.1 .O ?, <7 > 6?'1'771.
5.6 <=4 .74>.6I ;'18 6, 5 '7, 178 6, 7 ' 1' 6,<8 ,<
;1 QE' 7 '-, 1 ;.77. < 7 '7 -. '-=<7 -,71. >.;1.7I .7

,< ;1, 7 ?'1 ;,<6>=4.<7 '4Q,41> :4 =4. 5' E, ?1,M
/ 6. < ' ?'6 .7. J'1>..I < V ' ?'6 4< / ,V.< =4
?4 66. E' 1. 1.<'571. 5' ;,<!'<; . =4. ;. >. .1.7 ' .<
7 .1. / . 7 ?.1>4.% < 6.;,<> 5 .48 5, < >. 1>7'O5 1
5' 71'<=4 55 7. 8 -,46 1.<>1 .O / ?,66 O5. ' Q' / ' 6
7,45. .6?>.. >. .O'<J. / .<78 > ' / . ,1'7 ,<% .6
;,5,< .68 'V'<7 ?'1 .@?.1 .<;. 5' ;,<<' 66'<;. >. ;.
=4 ?.47 '11 -.1 >'<6 5. ;,1?6 5.J 65'7 E8 < .@.1;.
1' . 7Q' / ' 6 ;.77. < 7 '7 -.6?,<7'<. . =4. -,46 5.41
'41 .O >,<<. .I ;'1 .55.6 .1' <>1' .<7 7,4Q,416 =4.
%>4 / , / .47 ,: .55.6 -,46 '41' .<7 6' 6 6 > 4<. =4.6M
7 ,< 6. / O 'O ;?'1 .@.1; ;. >. ;.77. < 7 '7 -.8 -,46
!66 .O '471. / .<7 =4 .55.6 <. -,46 '41' .<7 ?1,?,6.8
.7 >.6 5,16 .55.6 ?1.E.1.1' .<7 5' ;,<7 <4'7 ,<%>4 1.M
J / . ';7 .5 >'<6 6' 7,7'5 7. ' 7,47 ;:'<J. / .<7 =4
7' 7 ?546 5, < =4 .55.6 <. 1'41' ;47 .<7.<>4I 7'<
> 6 =4. 6 .55.6 <. 6,<7 6,4 / 6.6 =4 ' 4<. 6'<;7 ,<
>4 1, =4 '??1<4-. ,4 1.Q.77.8 / ' 6 =4 8 >'<6 '4M
;4< ;'68 . ?.47 / ,> 7 .18 .55.6 6,<7 .<;,41'J..6
?'1 ;.5' / . <. =4 .55.6 ;,<<' 66.<7 5' 5 <1 7. >4
.O'<J. / .<7 =4 ?.<7 '-, 1 5 .48 .7 6'-.<7 =4 ,< <.
?,411' ?1 <,<;.1 '471. / .<7 < >'-'<7'J. =4 .55.6
< '41,<7 -,454%

' 55.416 1 .< < .65 ?546 ?,5 7 =4.8 1 .< <. 6.17
>'-'<7'J. ' E'640,1> <'7 ,< =4 / ' <7 .<7 5.6 ;,M
5,< .68 =4. >. 5 .1 5.6 '5 1'<;: 6 <J. <46 ?'1 5.6
O .<E' 76 =< 56 1.J, -. 7 >. ;.4@ ;%

<6 8 -,46 -,45.O =4. 5.6 ;,5, / .6 6, .<5 71'<
= 5 55.68 > 77<.O .41 ;. >1, 78 ;'1 ;. < .67 =4 ' ;.
?1 @ =4. 5.416 7.11.416 -,<7 > 6?'1' 71.I 6 -,46
-,45.O =4. 5. 6,17 >.6 :, / / .6 >. ;,45.41 .7 >.6
<, 16 6 ' / > ,1.8 >,<<.O .41 ;. >1, 78 ?'1;. =4. ;.
< .67 =4. 5,16=4 .55.6 6'41,<7 =4 ,< <. ?.47 ?'
?,<,<;.1 '< >.5 >. ;. =4 .55.6 '41,<7;14 5. / .4@
?,66 O5.8 =4 .55.6 -,4>1,<7 '77. <>1. .55.6 / J / .6 '
;. / .4@% e%

,46 <. ?1,?,E<6 ?'6 =4. 5.6 >1, 76 ; - 76 >.6
:, / / .6 5 O1.6 .<71.<7 .< '4;4<. / '< .1. >'<6 5'
;, / ?.7.<;. .@;546 -. >.6 '66. / O5 .6 ;,5,< '5.6I
;.67 >.6 >1, 76 ?, 7 =4.6>,<7 5 6 'J 7 4< =4; / .<7I
; .67 >. ;.6 / / .6 >1, 768 >,<7 ?546 .416 / 55 ,<6
> :, / / .6 6,45 ?1 -.6 .< H1'<;. ?'1 -,6>.; .56I
; .67 >. ;.6 >1, 76 =4 6,<7 %.7'O5 6 ?,41 5' ;,<6 6
7'<;.8 ?,41 5. O,<:.41 >. 5' 6, ; 7. .<5 1.8 =4 ?'1
;,<6.=4.<7 6,<7 1 ?'15 6 > '?1 6 6.6 <7.1 768 7'<> 6
=4. 5.6 >1, 6 ; - c6 '??'17 .<<.<7 7,468 6,<7 >,<
<.6 ;:';4<,;,/ / # 4< O .< = 5 <. ?.<7 ?'6 '5.
<.1% 5 .67 ;.17' < =4 .< 1 6.1-'<7 '<@ 66.E O5..6
<'7 ,<'5.6 >. H1'<;. 5. >1, 7 >. 7,4;:.1 '<@ >1, 76
?,5 7 =4.68 -,46 ?1.?'1.O 7E 7 ,4 7'1> 5' 640-.16 ,<
>.6 ;,5,< .68 .7=4. >.6 '?1 6.<7 -,46 V ?,17.O <
=4 ;74>. >.6714;7 -.8 >.7,47. ;,<E'<;. .7 >. 5, 6
O.<6 <'7 ,<'4@8 Q. >. / '<>. 6 5 .67 ?,66 O5. >. O'M
5'<;.1 .<71. 5' 71'<=4 55 7 >.6 ;,5,< .68 .<71. <
7 1 / / .<6. >. 5' / .71,?,7.8 .7 .@.1; ;';74.5
>.6 >1, 76 ?,5 7 =4.6 ?,41 4< 71 6 ? .7 7 <, / O1.
> :, / / .6% $

< ' 6,4-.<7 ?1.6.<7 >'<6 ;.77. 66. / O5.. 5'
/ '66. > 7 1 76 <'7 ,<'4@ '77';:. ' 5' =4.67 ,< ';
74.55.I ,< -,46 ' ?1.6.<7. .@ 67.<;. >. -,71. ;, / M
/ .1; .8 >. / '<4E ;741.68 > 4<. ?'17 . >. 'J1
;4:41. <7.1;66.. ;.77. =4.67 ,<8 ,< -,46 ' ?1>4->
=4. 5' ?.17. >.6 ;,5,< .6 .<71'7<.1' 7 >.6 / '4@ ?546
#1'4>6 .<;,1. =4. 5. >.6'671. =4 ,< ?1,- .<>1' 7
1.;7. / .< I =4. >4 / , / .<7 =4. -,46 < '41 .O ?'6
>. ;,5,< .68 ?1.6=4. 7,47. -,71. <'- J'7 ,< ;, /
/ .1; '5. 7, / O.1' 7I =4. > 6 5,16 -,46 < 41 .O ?546
>. / ,V.<6 >. E,1 / .1 >.6 / '7.5,76 ?,41 5' / '1<.
/ 5 7' 1.8 .7 =4.8 < 'V'<7 ?546 >. / '1<. / 5 7' 1.8
-,46 < '<1 .O ?546 >. ;, / / .1; .@7>1 .418 >. ;, / M
/ .1; / '1 7 / .8 ?'1;. =4. -,<6 < '41 .O ? <6 5.6
/ ,V.<6 <.;.66' 1.6 ?,41 5. ?1,5>J.1 .7 5. >.E.<>1.%
5 '11 -' 78 6, 7 ?'1 5' ?.17. 'O6,54.I 6, 7 ?'1 5'
?.17. ?'17 .55.8 6, 7 ?'1 4<. 5,<J4. 646?.<6 ,<

E .< E ;.6=4.'<,461.7 1,<6>.6;,7,< .6%= .'7,46'5.6'
?,176' 6.' 71,4-'66; 17'>'<6' .7'7'5.'?546'>.6'671.4@8'
=4.' .6' 71'-'4@' - <66.<7' 640 7; / .<7' '' / '<=4.1I'Q
=4 '' <67'<7' 5.6' / '<4E';741.6' 6 .<' 1.66.<7 66.<78'
;1, 7' ,<' '5,16'=4.' , ?>7'?,411' 7' ' 6. / .<7'6.'?.1'
; .- , 1Z' ;1,B ,<' =4 '5,16' 5.' ?'? .18' =4 '1.?,6.'641'
5'' ; ,<E '<; .8' <.'7, / 0.1' 7' ?'6' ' <67'<7' >'<6' 5.'
?546' J1'<>'> 6;1>> 7Z' .'>'<' >.'6' ,<' ;1, 7' =4 ' '
,16' 5.'7: '<J.' - 6 ' - 6' >.6'<'7 ,<6' >71'<J.1.6'<.'
>.- .<>1' 7' ?'6' .EE1'V'<7'?,41' 5.6' 0,<6'; 7,V.<6I'Q.'
>. / '<>.' .<E <' 6' ?546' >G4<' / 55 ,<'> : , / / .6'6'<6'
71'-' 58' 6'<6' ?' <8' '<6' .6?.1' ;.8' '4' / 5 .4'>.'5''
>,71.66.' ?405 =4.'8' 7 .'>.- .<>1' 7' ?'6' ?'1E' 7. / .<7'
5.' J.1 / .'>.'7,465.6' 71,405.6I' 6 5' .67' ?,66 05.'>.'
?1. -, 1' =4.5' 46'J.' ,<' ?,411' 7' .<' E' 1.1' '' =4.5' .@'
;E.6' ,<' ?,411' 7' 5.6' ?,17.1I' 6' '5,16' 5.' ?.,?5.8' 6.'
?5' J<'<7' .7' >. / '<>'<7' >.6' ; : '<J. / .<76' &; '1' 5.'
?.,?5.'<.'6'57' =4 4<.' ; : ,6.8'; .67' =4 5' .67' 0 .<' ,4'
=4 5' 6,4EE1.I' 6 5' .67' 0 .<8' 5' - .47' ; ,<6.1-.1I' 6 5'
6,4EE1.8' 5' - .47' ; : '<J.1'5.'1.J / .'>7'05 PI' 6 8' > 6 .8'
5.' ?.,?5.' 'J 7.' ?'1' 6.6>,4 5.4168' 6.'?5' J<'<7' >.6'
; : '<J. / .<76I' 6'>.6' / 55 ,<6'> : , / / .6'>.6,.4-1;68'
Q 1>6.<7'<7'>.6' '1 / .6' .7'>.6' <6714 / .<76' '' =4 ; ,<=4.'
- ,4>1' 7' 5.6'. / ?5,V.18' 5' <.'>.- .<>1' 7' ?'6' E'; 5.8'
?,66 05.' '<' / , <68' >.' ; : '<J.1'5'' ; ,<67 747 ,<' .7' '
5 .8' > 'O'771.%' 5.' 6V67. / .' / ,<'1; : =4.8' ,4' >.'54'
>,<<.1'4<.' .@7.<6 ,<' 55 / 7..Z' 7' 1. / '1=4.0' 0 .<'
=4.8' 7'<> 6' =4 4<.' ?, J<..'> : , / / .6' >.' ; ,45.41'
1>4< 6' '' '1 68' Q.'<.'6' 6' ?'1' =4.5' 1.66,178' ; ,4-1.<7'
5.6' 14.6'>.'5'' ; '? 7'7.'>.'5.416' 'E5 ; : .68' .7' <.' ; .66.<7'
> 'J 7;1' ; .77.' 66.1'05. .'?,41' ' - , 18' <,<' 5.6'>1, 76'
; - 56' =4.'7,47' 5.' / ,<>.'5.41' 1. ; ,<<'778' / ' 6' 5.6'
>1, 76' ?,5 7 =4.6>,<7' 1, 6' / 55 ,<6'>.'H1'< ' 6' 6,<7'
?1 - .6' >'<6' 5'' / .71,?,5.8' Q.'>. / '<>.'6' >.' ?'1. 56'
7.1.768' 6415.6=4.56' 5.6' : , / / .6'>.' ; ,45.41'6,<7'6'
E1, >6' >'<6' 5.6' ; ,5,< .68' ?. - .<7'1.6 67.1' '' <7.1>7'
/ / .<6.'>.'5'' ?'71 .Z' .?4 6' =4.'5.6'<,4-.55.6'>.'
1.EE.7' >4' >>;1.7' 6,<7 '11 - ..6' >'<6' 5.6' ?,1768' 5' < .<'
.67' ' ;4<' =4 '<.' - ,46' ' 7' E' 7' ?'1-.7 1' 5.6' ?546' ?1.6'
6'<7.6' ?.7 7 ,<6% .6' / > / .6' ?5' ; .6'>.' ; , / / .1; .'=4'
;7' .47' >.< .41. .6' / 4.77.6' 5,16=4.'5.'>. ;1.7' '' .5>'
1.<>48' . ;5' 1. .6' ?'1' 5.6' >-><. / .<768' - .<<.<7' - ,46'
64??5 .1'>.' ; : '<J.1' 4?.' 1.6,547 ,<' =4 '5.6' / .7' '4'
>.6.6?, 1% % $
% <'> 7' 6'<6' ; .66.'>'<6' ; .77.' 66. / 05>.'=4.' <7>'
1>7' >.6' ; ,5,<6' .7'>.6' ; , / / .1 '<76' .67' 4<.'?1.4-,'
= 7 56' <.' ?.4-.<7' ?'6' >71.' .<7.<>46'>'<6' 5'' =4.67 ,<8'
; , / <.'68' <7.1>7' >.6' ; , / 1' .1E'<76' >.' H1'<; .'<. '
7' 7' ?'6' >'<6' 5.' / , / .<7' ' ;74'5' <7>1>7' >.'5'' H1'<; .'
=55. / > / .% I' %
8' ' .67' 6'<6' >,4E.' >.6' =4.67 ,<6' , : ' <7>1>7' >.6'
; , / / .1; '<76' .67' > EE.1.<7>.' <7.1E 7' >4' ; , / / .1; .'
'7' >.' :7.1>7' >.'5'' <'7 ,<I' / ' 6' ; .6' =4.67 ,<6' <.'
6,47' ?'6' ; .55. ; %' 5.' ; .'< .67' ?'6' .45. / .<7' '1 / ' '
%7.41' =4 '71'<6?,17.' .7=4 ' - .<>'5'' / '1; : '<> 6.8'. .67'
; ' / '<4E';741 .1' =4 '5'' ?1.?'1.8' . .67' 5. ;457 - '7.41'
=4 ' .@71' 7' >.'5'' 7.11.8' =4 '6,<7' / / .> '7. / .<7 <'
8' 5.1.66.6' ' 5'' ; ,<6.1-'7 ,<'>.6' ; ,5,< .6% 34.55.6' 6,<7'
5.6' >.<1. .6' =4.' - ,46' V .@?,17.1Z' 34.56' 6,<7'5.6' ,0 '
Q.76' =4 ' 6,<7' ;0'<J#6'-.;'5.6' >.<1. .6; ,5,< '5.68'
=4 ' - ,46' >, <.<7' 6.456' '-'<7'J.' .7' 5'' ?1.?,<>.M
1'<; .'>4' ; , / / .1; .Z' #.' 6 <7' >.6' ,0Q.76' ?1,>4 56' .5'
/ '<4E';741.6' ; : .0' - ,46' ?1.6=4. .<'7,7'5 7.I' ; .'< .67'
>,<.' ?'6' '1 / '7.41' 6.4 ' =4 ' ?1,E 5.I' '1 / '7.41'
< .67' =4.' 'J.<7' >4' / '<4E';741 .1' .7' >.' 'J1 ;45'
'7,41% 1' 6 ' <7.1.7' >4' / '<4E';741 .18' <7.1>7' >.'
k 'J1 ;45741.8' <7.1.7' > ' ; , / / .1; .'6,<7' ; '1.<< 68'
?.47 ,<' / .771.' >'<6' 5'' O'5'<; .'& / ?'7 .<; .'64JJ.'
1. '' 4<' ?.7 7' <, / 01.'> <> - >46=4 8'Q,4 66'<7>>Q''
>.'7,<6' 5.6' >1, 76' ; - 56' & / 7' 5'' <'7 ,<' 5.41?1, / .7'
5.' / ' <7 .<' .7' <7 1 7.8' .@?,6.<75.'1,V'4 / .' '' 6''
/ <.'?,41' ; ,<=4.1 1' >.6' >1, 76' >,<78' ; , / / .'Q.' ''
> 78' Q 546 .416' / 55 ,<6'>.'H1'<; ' 6' 6,<7' ?1 - .6' ?'1' 5''
; ,<67 747 ,<Z' 'H,<' '??1,E,4> 66' 7' 5'' =4.67 ,<' ''

7'47' = .5 .'?. 7' H>51.8' ,<'71,<-.1' 7' =4 5' .67' >.'
<7.1>7' >. 5'' / >71,?,5.' =4.'Q .@.1; ; .>.6' >1, 76'
6, 70,1<>' .7' 5 / 5.' >'<6' 5.6' : , / / .6' >. ; , 5. 1I'
; '1' 5' .67' ?,5 7 =4. / .<7' -1' ' >.'> 1.' =4.' .6?1 7' >.'
1.7,41'< .@ 67.'?'6'>'<6' 5.6' : , / / .6'>.' ; ,45.41I' =4.'
5.6' 05'<; 6' 6,<7' ?546' ,4' / , 7 6' H1'<; ' 68' ?'1; .'=0.'5''
H1'<; .' .67' 5.41'?1. / .1.'?'71 .' I' =4.'5'' 6,<7' ?1.6=4.'
7,4Q,416' 5.416' E' / 5 .6I' =4 5' < .<' .67' ?1.6=4.' '4;4<'
=4 ' <.' ; ,<6.1-.' ' : ' .6?1 7' >.'1.7,41'>'<6' 5'' / .71,M
?,5.8' 7'<> 6' =4.' 5.6' : , / / .6'>.' ; ,45.41' .5' 7' <;6'
641' 5.6' 5 .4@8' < 'V'<7' '4;4<.' .6?. ; .'>.'5 ' 6,<'-. ;'
5'' / .1. ?'71 .8' 41 .'%E, 6' =4 56' '41' .<7' , :7.<4' 7,47'
; .'=< 56' >. / '<>.<7' J4Q,41> : 4 8' >.- .<>1' .: 7' -.'
'1 7'05. / .<7' ?'1' 5.41' .6?1 78' ?'1' 5.41' <67 <; 7' .7' ?'1'
5.416' 6.<7 / .<768' '06,54 / .<7' >71'<J.16' '' 5'' H1'<; .8'
>,<7' 5.6' 05'<; 6' <.' ; .66.<7Q' / ' 6' >.'6.' ; 1, 1.'5.6' .<'
E'<76% .' - ,46' ' '?1. 6.<7.'5.6' 1' 6,<6' 7: . ,1 =4.6' ?'1'
5.6=4.55.6' 5'' ; , / ?.7.<; .'>4' ; ,1?6' 5. J 65'7 E8' / . / ,'
'?1.6' 4<.' < 7 '7 - .8' .67' >.6714 ;7 - .' .7' 640- .16 - .'>4'
1.J / .' ; ,5,< '5% ' ' L'>,<<.1' '' ; .77.'=4.6M
7 ,<'7,47.' / ?,17'<; .'=< .55.' '8' <.'5'' ; ,<6 >.1.0'
?'6' 6,46' .'?, <7' >.' - 4.' ,4' ,<' '' ?1. 6.<7>.8' >.' <'
7.1.7' >.'=4.5=4.6' : , / / .6I' ; ,<6 >. 1.0 '' ?'1' 5.6' .7'
E.76' =4 .55.' - '' / / . > '7. / .<7' ' - , 1I' <.' 5.J4.0' ?'6'
'' '64; ; .66.416' 4<.' J1'<>.' J4.11.' ; .<71.'5.6' # '
5,< .6' .7' >.' J1'<>6' 71,405.6' .<' >.>'<6' I' <.' 5 -1.0'
?'6' '4@' 5.J 65'741.6' ; .6' ?, <76' .66.<7 .568' ; '1' - ,46'
<.' E.1.0' ?'6' ; .66.1' 5.6' <=4 .74>.6'>.6' ; ,5,<68' =4 '
;1, 1,<7' - , 1' 1.<'E71.' ; : '=4.' '<<. .'5.6' / . / .6=4.6M
7 ,<68' .7' ; : .0' =4 '5'' ; ,<E '<; .'<.'6 .7'05 1''Q' / ' 6%
.' - ,46' <- 7.' >,<.' '' >. ; 75.1' >.6' '' ?1.6.<7' 5''
'=4.67 ,<8' .7' ' <.' ?'6;1' <>1.'4<.' J1'<>.8' ?1,E, / .'
.7' >.; 6 -.'>. / '1; : .'?,41'6'4-.1'4<.'>.1 .1.'E, 6'
5'' ?'71 .% , ; '<,71.' ?1,Q.7'>.'>.;1.7% F& , 1' 5.'<4'
/ ;1,'> : .1%P
,?< ,<'>.' % K'1<'-.' '' .7.'?546 .416' E, 6' <7.1 '
1, / ?4.'?'1'>.6' '??5'4> 66. / .<56%
& ,V.08' ?,41'5'' E<'>.'5'' 6>'<. .8' 5'' <,7 ; .' <6.1; .'
>'<6' 5.' <4 / .1,'> : .1%P

''' ''' , ' ' A ' '

<'>. %' 5.6' 6. ;1. 7' 1.6E' 7' 5. ;741.'> 4<.' > .66.'
>.6' '> / < 671'7.416' >4' >.Q '17. / . 7' >4' ,1>8' =4 '7 '
, J<.<7' 5''Q, .' =4 56' ,47' .?1,4-. .' ; <'??1. '47'
5'' <,4- .5 .'>.' ' ; ; ?7'7 ,<'>.' ,4 6' '' %
+' %' 5.'?1. 6 >.<7' ; , / / 4< =4.' '' 66. / 05. .8' 641'
5.' / > / .' ,0Q.78' 4<.'5.771.'>.6' ,EE ; .16' .76,5>'76> G'
>,'1. J / .<78' ; >.-'<7' K, 10,<<' 6%
W# .67'>'<6' '6'<;74' 1.'>.65, 68' . .67' '4' 6. <'>.' - ,71.'
'<J467.' 66. / 07. .=4.'5.'1, ' '' ?1 6' & .<J'J. / .<7>.' / ' <'
7.< 1' .7' >.' E' 1.' .@#; 7.1' 5'' ; ,<67 547 ,<' >4' 1,V'4 / .N'
=4 B<,46' 6, 5' ?.1 / 68' / .66 .4168' >.' E' 1.' .<7.< 5 .' >'<6'
5.'1, .1,.' '< 4' 1.' & .@?1.66 ,<'>.6' 6.<7 / .<76' =4 ' <,46'
'< / .<7% 34.5' .67' 5.' 6,5>'78' .7' 7,<6' 5.6' H1'<J' 6' .6,<7'
'4Q, 1> ; 4 8' =4 ' < #?1,4-.' .<' ; ' / , / .<7' 5.6' .5'<6' >.'5''
?546' - .'6'7 6 ' ; 7 ,<' ' ; 1, 8' .<' / .75'<7' 5.' 6; .'4' ' ,4'
-1'J.' =4 .<E'<7' ' - ,71.' 6'J.66.8' ' ; / 0 .'5.6' - ,4@' > 4<'
?.4?5.' 5 01.8' .7' ; ,<E, <>4' 5.6' ?1, Q.76' ?.1E >.6' >.6' .<<. / 6'
>.'5' .- ,5 7 ,<%
$' ,4 6' '' 8' '?106' ' - , 1' 7.1 / <>'5'' J4.11.'>.'5'' 64; ; .6M
6 ,<8' > 7' N □ ' < V '' ?546' >.' V1.<. .6% Y ,4 6' '' 8' ?546'
J1'<>' =4.'6,<' '5.458' ?.<7' > 1.' / ' <7.<'<7N ' < V '' ?546'
> '1 67, ;1'7 .% & <' '??5'4> 7%P #.0, / 'E1'??>' > '<'7: # / .8'
>, 7' > 1.' .<6.-.5' >'<6' 4< , .1<.5' ,405 % '5; .41 7' ; .4@'
=4 - ,4>1' .<55.' E' 1.' 1.- -1.' ?'1 / ' <,465' <' - ' < ; .1'
; : .1' .<7 56 0' 6.' ; ,4-1 1' >4' / '<7.'4' >.'5'' 1,V'4 .'N 6,<'
, / 01.' 5.41' >.- .<>1' 7' E4<.65.8.7' 5'' / ' < 0 .<E' 6'<5.'
=4' - .<7' >.'6 J<.1' 5.41' J1' ; .'6'41' 7' '466' 71' ; .1' '11.7'
>.'5.41' , <>' / '<'7 ,<% 34'<7' 0' <,46' 8' '77' ; . .6' 11.- , ; ' '
05. / .<7' '4@ >.- , 16' >.'6,5>'76' .7>.' ; 7,V.<68' <,46' 1. ; . '
-1,<6' ' - .'0, . ; .57.'5, '=4.'<,46' / ?,6.1,<7' 5'' > Y ?5 4.'
.75 0,<<.41% $ $
- .< 55.08' / .66 .4168' 71'<6 / .571.' '<' ; : .E' 64?1. / .'>'' %
% '1 / .' .@?1;66 ,<'>.'5'' Q, .' ?41.'=4.'<,46' ' - ,<6 1.6G
6.<7 .' 0 5'' <,4- .5 .'>.6,<' '>: .6 ,<' '' ' ;7.' ; ,<67 747 ,<'
.5I' '7 5.'>#6 1' =4.'<,46' ' - ,46' >.' ?1,4-.1' '4@' .<<. / 6' >.

(9

5'' ?'71 . ; '' =4.' ?.<7 P.' 5.' >.6 ' ,5>'7'' E1'< '' 6,46 4<
J,4-;1<; / .<7 5 71.6 Y & .6 '??5'4> 66. / .<76 1.; , / / . '
; .<5%P

+' % K' / .51 ,6'1.7 ?1. 6.<7.8 ' ' <, / '>4 ; , / 7.'
>.6 >, / ' 6 ;68 5.6 4;4@'17 ;5.6 64 - '<76 N

, 66.' 55..' <'7 ,<' .8 '?176 ' -, 1 . ,7.<>4 5.'1'?M
?,17>.' 6,< ; , / 7'>.6>, / ' 6.68 > ;1 7.' ; '=4 ' 64 7N
W 17% F% ,<7.6 5.6 '5 .<'7 ,<6 >.6 >, / ' <.6 <'5 , '
<'4@8>>;5'1>.6 1>-, ;'05.6 ?'1'5'' 5, '>4 F >. ;. / 01.' (* '
641 5'' 5.J 65'7 ,< >, <'< '5.8 ' 71.6 ?'1 ; ,<6 ,=4.<7 =4.'
; .>.6 E' .6 .< - .154 >.6 >>;1.56 >.' 66. / 55..' <'5 , ' .8
6,<7 .7 >. / .41.<7 1.- ,=4..6 ?'1 5.' ?1.6.<7>. ;1.5%

55 6.1'' <; .66' / 4.<7 ?1, .>>.' ' 5'' 1.4< ,<>.6 0 .<6
; , / ?1 6 >'06 5.6>7.6 '5 .<'7 ,<6 I 5'' 1.J .' >.6 >, / ' <.6
.6 ' ; : '1J>. >.' 5'' ?,4164 -1.8 .7 ?,41 ; .7 .> ;7 .55.' ' ; ,<'
E,1 / .1'' '' ; .=4 .67 ?1.6;1 7 ; '?1.6% Y

#.6 >.4@'17 ;5.6 6 ,<7 '>,?7>6%
''6. '<; .' '' .7.' 5.- ..' '' :4 7 : .41.6%

' ' ' ?/' ''

41 5.' 1'??,17 >.' ' .J '4578 5.' >. .1.7 64 - '<7
;67 1. <>4N

W 66. / 0 . .' <'7 ,<' .' >>.1.7.' =4.' 5.' / '1; : .6 ?'66.6
?'1 5.' ; ,<6. 5 >.' 5'' J4.11.8 5.' C / '' ()*8 '<6 .41 !45'
5'4 / . 4J46 7 < K'4>,4 <8 ?,41 .<71. ?1 6.' >.6 71'<6?,176
>.6 . .76 > 0'0 57. / .<78 >d.=4 ?. / .<78 >.' ; ' / ?. / .<7.7
'451.6 >4 1.66 ,17 >4 >>?'17. / .<7 >.' 5'' J4.11.I ?,41 ; .55.'
>.6 71'<6?,176 >.6.5 .76 .7 / 4<7 ,<6 > '17 7.1 .8 6.1,<7 .7
>. / . 1.1,<7 1>6 5 .6 ' ; , / ?7.1 >4 5 'Q'<- .1 ?1, .0' <I
1.<-, .' '4 ?,4- 1 .@>;<7 1 ?,41 >.7.1 / <.1 5.' ?'17 ' 5.'
?546 ' -'<7 'J.4@ '?1.<>1.' ?,41 ; .77.' ?'1E .' >.' '> / < 6'
71'7 ,< 1' 5 7' 1.8 .7 5'' / .771.8 64 - '<7 =4 5Q4J.1'' ; ,<1.'
<'05.8 .< 1>J .' ,< .< .<71. ?1 6.%
W >;1.7.' =4.8 6, 5 =4 5 V ' 7 <<.'1>J .8 6, E =4('V' ' 7
>.6 .<71. ?1.<.4168 5.6 1>J5. <.<56 >.' 5'' 1>J .' ,< 5.6 ;5'46.6
>.' .<71. ?1 6.' 6.1,<7 #, / / 4< =4.6 '< ; ,1?6 5 65'7 E.7
/ ?1 <>6I
'34.' 6' 5.6 71'<6?,176 6,<7 >,<>6 .< .<71. ?1 6.8 76 5.'
6.1,<7 ?'1 '>Q4> ; '7 ,< ?405 =4. .7'4 1'0' 68 6'<6 =4.'
Q' / ' 6 .7 >'<6 '4;4< ; '6 >6 . 71.?1.' ;416 ?4 66,<7 1>;5 '
1, .1 <>. / < 7>68 < '>71.1.E46 ; , / ?7.1 >. ;5.1;' ' < ' 71.I
1.<-, .' '4 ?,<-, 1 .@>;47 E 5.6 1. ;5' / '7 ,<6 >.6 ; , / / 6'
6' 1.6 J><>1'4@ ; : '1J>6 >.' 71'<6?,176 / 5 7' 1.6 '' '<7 5.'
6 .41 K'4>, <8 ?,41V 71.' 67'74.' ' <65 =4 5'??'17 .<>1'%6

+ 41 4<'1'??,17 >. % # : '01,4>8 '4 < , / '>4 ; ,M
/ 7.' / 5 7' 1.8 1 66. / 05. .' 1.<-, .' '4 4J. / .<7
> 5 <. ; ,41 / '17 '5.' 5.6 1. ;5' / '7 ,<6 >.' % ,1.7,<8
'<; .< ; ,5,<.5 '4 1>J / .<7 >.' '' H 1.8 ; .<71.' 6''
>.67 747 ,< ,?.1>.' .< ()(8 .7 >>.1>7.' =4.' 5.6 / . '
/ , 1.6 >.6 , ; .16 >4 1.J / .<7 6.1,<7 1.J'1>. 6%
; , / / .' ? >. .6 >.' >><,<; '7 ,<%
+' % ' - 0'8 '4 <, / '>4 (' '! ^'
' ,71.' ; , / 7>>.6 E <'<; .6 6 .67 , ; ;4?>.8 >. ; ,<M
; .17 ' - .;' 5.6 ; , < / 66' 1.6 >.' 5'' 71>6,1>1 .8 >.' 5''
/ '0 .1.' >, <7 5.6 >.?.<6.' ?,411,<7 6 '.=4 77.1 >'<6
5.6>. ?'15. / .<76%
.67 ' - .;'1.J1.7 = 5 6 .67'067.<485,16=4 5 -,46
'' ?1. 6.<7.' ,1J'< 6'7 ,< >7 ' 71. 6,1 ?405 ;8 >.' 6,4 '
/ .771.' ' >.' <,4-.55.6 > 6;466 ,<6 5.' ?1,Q.7 > ' ; ; .? '
7.1 <.'0'<=4.' ?,41 ; ' 66.'J.<.1'7.' >.' 5''<'7 ,<8 .<
V E' 6'<7 -.16.1 5.6 1. - .<46 <>. .66' 1.6?, 1 ' ;=4 7 '
7.18 7'<7 '' '1 6 =4.' >'<6 5.6 >>?'17. / .<768 4<.'
J1'<>.' ?,17 ,< >.6 >.?.<6.6 <'7 ,<'5.6% ' 6 - ,46
' - .0 >.J'J.' 5.' 71.6,1 <'7 ,<'5 >.6 / .7: ,>.6 - ; ;4 '
6.6 =4 ' 6 V >7' .<7 .7'05 .6 ?'1 .EE.7 <'741.S >.' 6.6
; ,<5 <4.56 . / 0'11'6% # .67 >.Q'' 4< ' -'<7'J.' <'?M
?1. ; '05.' =4.' >.' 5.' 71'<6 / .751.' '' 5'' ?1, ; : ' <.' 5. '
J 65'7,1.' ,1J'< 6.' >.' / ' < >1.' '' ; .' =4 5 6, 7 E' ; 5.'
'4@ ; , / / 66' 1.6 >.' 5'' 71.6,1.17.' >.Q>, <<.1 7,<6
5.6 / ,768 7,<7.6 5.6 6. / ' <.68 7,<6 5.6 Q,4168 >5 7
>.61. ; .77.6 .7 >.6 >>?.<6.68 .7 ; .54 ' >.' 6'' 6 74'7 ,<
' .@' ;7.% ' '4Q,<1> :4 ' '4;4< 1.- .<4 < .67'<7 ; ?.8
' ;4<.' ?'15 .' >.' >>?.<6.' < .67 .< 1.7'1>8 <,46 <.'
- ,46 ' - ,<6 ?'6 > 66 / 47.' =4.' - ,46 5.' >.- .0 > / '
/ .<6.'1 ; : .66.' 7.11B ,1 '5.' >, ?75'' <'7 ,< ''1.?1 6 5'

?,66.66 ,<I ' <6 8 4< >.6 ,0Q.76 >.' 5'' 6,5a ; 74>.' >.'
5'' ?1, ; : ' <.' 5.J 65'741.' 6.1'' >.' ?1.- , 1 > ' - '< ; .5.'
/ , / .<7 ,4 7,47.6 ; .6 J1'<>.6 - ' . 16 6.1,<7 1. '5 '
6>.6 .7 . / ?5,V..68 5.' / , / .<7 .<5 < ,4 5.6 1.- .<46
'<<4.56 >.6 ; ,<71 047 ,<6 ?405 =4.6 ?,411,<7 6.< 6
' ; =4 77.1 5.6 >.?.<6.6 <'7 ,<'5.6%
7 ' ; ,<6 >.1.1'' '5,168 ; , / / .' - ,46 ' - .0 E' 78
1 / ?,17'<; .' >.' <.' ?'6 5' 66.1 '11 . 1.1 5.6 ?<V. / .<76
< ' 5.6 >.?.<6.68 .7 >.' <.' ?'6 >71.' E,1; .' >.' - .<>1.'
?'17 .55. / .<7.7?'1 >.6 ,?.1'7 ,<6 14 <.46.6 5.6 1.M
- .<46 >.6 '<4..6 64 - '<7.6% # .17' <. / .<7 5.' / ,V.<
5.' ?546 .E ; ' ; .' >.' <.' ?'6 1.7, / 0.1 >'<6 ; .5 .7'7 >. 8
6.1- 74>.' .67 >.' ?'V.1 .@' ;7. / .<7 .6 ; ,<71 047 ,<6I
/ ' 68 =4.55.' =4.' 6, 7 5'' 1. J45'1 7> >.' 5.41 1.<71..8
5.6 ?,=4.6>.' 5.416 - .16. / .<76 ?,411,<7 6,4- .<7 <.'
?'6 '77. <>1.' ; .55.6>.6 >.?.<6.6 ?405 =4.6%
.67 6,46 ; .' ?, <7 >.' -4.' =4.' 5'' ?1, ; : ' <.' 5.J 6M
5'741.8 =4 ' 6.' 71, 4- .1'' > 4<.' ; ,<- .<'05.' > 67'< ; .'
>.6 .- .<.1' .<56 =4 ' ,47Q.7.' 0. '4; ,<?'>;'<4'J.6 .7>;'
?1.- .<7 ,<6 641 5.6 1.66 ,41; .61. .55.6> 7 : .'0'<=4.' .7
5'' <'741.>.' ; .' J.<1.' > .7'05 66. / .<78 ?,411'6'<6 1.M
?4J<'<; .' 6.' 7-1.1'' 1.@' / .< >.6 ' -'<7'J.6 >.6 ,<
6.1- ; .8 ; , / <.' ; ' 66.' J. <. 1'5.>.' 5''<'7 ,<8?'1; .' =4.'
5'' ?1, ; : ' <.' 5.J 65'741.?,411'> ' 55.416.< ; , / 0 <.1
5.6 .E .76 641 5'' <,4- . 5.' ; 1;45'7 ,< >.6; '?7' @ / '
/ .<6.6 1.1<0,<16.6 ?'1 5'' ; ' 6 .' >.' 5 .@71' ,1> <' 1.8
?'17 ;45 .1. / .<7 >.' ; .4@ ?1, - .< '<7 >4 1. / 0,416; '
/ .<7%>.Z ,EE ; .6I ; '?7'<@ =4 8 >.' E ;7 E6 =4 76
.7' .<78 6,<7 7Q.- .<46 >.6 E,<>6 1. .56I .55.' 6.<7 1''
=4.' 5.' / ,4- . / .<7 <.- 7'05.' >.' ; .6 ; '?7'<@ .<'
71'7<.' <. ; .66' 1. / .<75.' ?1, ?1 .7' 1.'>'<6 4<.' ' ;7 '
- 7.' 47 5.' 7,47 '' 5'' E, 6 '' 6'' ?1,?1 >7.' .7 > 5'' ?1,6?. '
1 7.' ?405 =4.8 .7 =4 5 E'47' >.1 .7 '< 1' .1 ; .' ?1. '
; .4@ / ,4- . / .<78 ; .77.' ?1,>4;7 - .' ' ;7 - 7.%
''?1, ; : ' <.' 5.J 65'741.' .@' / <.1'' >'<6 6'' 6' '
J.66.' 6' 4<.' 0'<=4.' =4 ' ?.47 6 '0 .< 1. / ?5 1 ; .77.'
>.67 <'7 ,<8 .7 >, <7 ,< ?.47 6 ' 5'. 5. / .<7 > 1 J.1
<E5 .< ; .' >'<6 7,47.6 5.6 ,?.1'7 ,<6 > E' 1.' ?,41
'4J1<.<7.1 ,?45.< ; .' > << 7'78 <.' 6.1'' ?'6< ; .6 '
6' 1.' ?,41 ; ,<6.1- .1 ''<,6 / '<4E' ;741.68 '' 7,46 <,6
'7.5 .168 ' ;7 - 7.' .@71' ,1> <' 1.' =4.' 5.41 >, / .'
>'<6 5.' Q,41 . E.7 / ?1 -4 .7 . ; ,41'05.' >.' <,6 '6 N
J<'76%
,46 - ,V.0 =4.8 >'<6 <,71.' 7.11 7, 1.8 >'<6 7,46
<,6>. ?'17. / .<768 56 ?1 6.<7.<7 7,4Q,416 5.41:V Z
?,7: .=4.' .< 4<.' - '5.41 7.11 7,1 '5.I =4 5 ' V ,<7
0 .< ; 1..' .5E.;7 - . / .<7 4< ' ; ;1, 66. / .<71..5 >.' 1 '
; : .66.68 =4 56 6,<7 0 .< 1 .55. / .<7 4 ' <,4- .'4 <4 '
/ .1' 1.8 ?'1; .' =4.' >'<6 5'' / '66.8 <'7 ,<' .' 5 6.'
71,4 .'64; ; .66S- . / .<0>.6 <> - >46 =4 '1 '5 6.<7 5''
>.5.J'7 ,< = ' .67 >,<<. .' '4@ ?,17.416 >.' ; .6 '66 1
J<'768 5,16=4 '4 >.5> >.' <,6 E1,<7 1.6 71'<J.1
E,41< 66.41 .67 E,1; ' > 4< . ; : '<J.' ,< 1.4@8 .7 .67%
; ,<71' <7 >.' 1.<, <; .1 > ; .6 / ?,17'7 ,<6 / / .<6.68
?'1 5.6=4.5 .6 5 ' - 5 66' 7>.?4 6 - <J7 '<6 <,6 ?1, '
>7 ;7 ,<6I 5 E'47 >, <.' .< ; ,1.'?1>- , 1'>'<6 ; .77.' ?41 '
7 .' 5.' / , / .<7 ,48 7,47.6 <,6 - '5.416 7.11 7,1 '5.6
- .<>4.6 .7 , ; ;4? .68 <,6 '66 J<'76 .7. <76 .7<,6
; : '<J.6 1.7'05 6 >'<6 5.41 >=4 5 01.' ,1> <' 1.8 <,6
'7.5 .16 6.1,<7 >.' <,4% .'4 5 -1>6 > 5'' ; ,<;411.<; .'
>.6 ?1,>4;7 ,<6 >.5 <>4671 .' 71'<J>1.%
'' ?1, ; : ' <.' 5. J 65'741.' 6.' E.1'' '5,16 1.<>1.'
; , / ?7.' >.' ' ; ;1, 66. / .<7 0 .<E' 6'<7 .7 .< ; ,1.' <M
; '5;45'05.' > 4<.' &,45.' <<, / 01'05.' >.' <,4- .'4@
?1,?1 .7' 1.6.<E,<>6>.' 7.11.8 ' ; ;1, 66. / .<7 4 '41''
'?1,>4 7 '5 . <'7 ,< >.6>, / ' <.6 <'7 ,<'4@I .7 .55.'
'??1>; .1'' 47 5 7> =4.' '1J.<7 >>?,6.' >'<6 4<.'
0'<=4.8 ?1>7> ?'1 .55.' '' 0'6 ?1 @8 ?.47 ?1,>4 1.'
?,41 5.' ?.1E. ;7 ,<<. / .<7>.' 'J1 ;45741.' .75.' 6,4 '
5 .<>.' ; .77.' <'??1. ; '05.'640> - 6 ,< >.' ?1,?1 .7>6%
' 6 Q.' 1.- .<6 '4@ / ,V.<6 =4.' <,46 ?,4- ,<6
. / ?5,V.1 >'<6 .5'7 ' ;74.5 >.6 7: .6.68 ?,<1 ' ; =4 7M
7.1 >'<6 5.6 >7?'17. / .>76 5.6>.?.<6.6 > 5'' >7.0'1J '
>.' 5'' 71.6,1.1 .' <'7 ,<' .%

*9

[illegible]

641'5"6`1.5'>.6E1,<7 1.68,<7,05J>5.'>1.;7,1.'0V.<'
-,V.1>.6J'1>.6<'7, '5.6 ,46 '??1,4-`7.6;.55.' /.'
641.I /'6.7.'.<71' <">.6>.?.<6.6 I>.'>>?'17./. 7<.'
?47?'66.'>6?.<6.1>5<>. /<6.1'5.6J'1>.6<'7,<'5>6 .'
646.<;,<6.=4.<;';:'1J.'?'1'5.';, /5.'>.6E<'<;.6>.'
-,46?1.6.<7.1'5.'?1,0.7>.'>.;1.564 '<7N
7 66./0.;'<'7,<'5.'>.;1:5.'=4.'5"71.6,1.1.'<'5,'
<'5.'E.1" ?'V.18 6415,1>1.>< /<651.'>.' <7.1.418 5"
6,//.'>.'C 8U 'B1 ?,41'5" 6,5>.'>.6J'1>.6<'7,<'5.6
'<>.?'17./.<7>4 '18=4,<7.7.'.<-,V>6 641'5.' L'1
?,41?1,7.J.1;.77.'E1,<7 .1.8=4'?'1' 66' 7/.<';..Y
G'?1,0.7>.'>>;1.7.67'>,?7.
8'N "71.6,1.1.'>.' .@71',1><'1.'"E'75.6
'-'<;.6<.;.66'1.6?,41'5"E'01;'7,<>.6 '66J<'768?,41
5"6J<'741.8?441'5.'7/01.' .75.'<4/.1,7'J. #.6'-'<'
;;6>,-,<78>'?1.6-,6>.;1.768 .71.'1./0,416..6?'1'5"
71.6,1.1.'<'7,<'5.' .'; /7.'>.6E<'<;.6"-.1E>7,46
5.6 .7'76I; .67 '?1:65.6'-, 1'71,,->6.<1J5.'=4 5-,46
?1.6.<7.'5.'?1,0.7>.'>>;1.764-'<7N
W "71.6,1.1.'<'7,<'5.8 641'5.6,1>1.6>4 /<671.'>.'
147.1 .418 1./0,416.1"U .;,47.45@871.6,1.1'>.' .@'
71',1><'1.85"6,//.'>.' Q [Q U 7?,41'5.6'-'<;.6
E'7.6?'1' '?,41'5"E'01;'7,<>.6) /55,<6>'66'
J<'76>.'5"E'01;'7,<>.;1>7..5. .7;.55.'>.')(8C) '
'6 9>?,<1'-'<;.6?'1. 55./.<7E'7.6?,41'5"E'01M
;'7,<>.6 '66J<'76>.' '5-88 .7>.69 '/55,<6>>;1.7;6
5. Y
#.'?1,0.7>.'>>;1.7.67'>,?.
8 ' -'<7>.=4 57.15.6'66J<'768Q.646;:'1J.'
?'1'5.';,/7.'>.6E<'<;.6>.'-,46?1 .<7.1',<.'/.641.'
1.5'7-.' 5.41'E'01;'7,< .'?'?.1.67?1>7U>71.' /6U
/?1.66 <8.7-".71.'?,17.'4''1;:-.6 ,46'-.0?.<6#
=4 ',7'745.'>.'?1,E5.1'>.'5"0.55.'6'6,<?,41'5"E'01M
;'7,<>.';'?'?.1 .;, /7.'"?.46>=4 5'6.1'7 475.'
'466'>.' /?1/.1'-'<7 :-.18 ?'1..'=4.':'?'?.1
>7'<571>6>41 >;.'>E;5./.<7 ' 5.416 /?1/.1.'
>.' >,7.67.<;;'/, /.<7.<75.<.'';7-75I .765
.7'7,05J.'>.'5;,<;.1'5.6,4-1 .16=4',<7';=466";<'
E'<;.8 5 .< 71,4-.1'7> E;5./.<7> '471.6=4'.466.<7
5" />/,'@?.1,<;.'?,41;'71'-'5 +' ,>.<;,<6.M
=4.<;.'5.'?1,0.7>.'>>;1.7>.'-,71.>, /7.'7
$ 66./05>.'<'7,<'5.'>>;1>5.'=4.'5.'?'?.1'E'01=4>
.<.@.;47,<>4'>>;1.7>4 ?,41'>.6' 6J<'76>.' '5-8
6.1'>.'647.' /?11<>.71./6'4@'1;:-.6>.' 66./05>.8
?,41V1.67.1046=4U;.'=4 5'7.>67'74>?'15"5 65'741.'
641'6,<./66,<Y
#.'?1,0.7 '>>;1.7.67'>,?7>8
'N .6>>?.<6.6>.6,1>1.604>>'1.'.5'>/'
<651'7E>,-.<78.<-.174'>.'-,6>>;1.768>71.'';=457>.6
?'1'5.6>>?'17./.<76 #.?.<>'<7-,468U-.0>>0U6.<7'5"
<>;.667.'>.'E'1.'?1,-6,1./.<7>.6'-'<;.6?,41;.?'V.'
/.<7 '1>6457.'>4 /./,1.'=4.'-,46"'>1.66>U;.'6407
5.'/<671.'>.'1<5>1.418=4.';'71/.671.'@1J.1">.6>>'
?.<6.6?546;,<6>.1'05.6=4.'5.' ?1>;>>.<78'77;<>4J4.'
?546 .416?'V./.<76 6,<7'11>1>68 .7=4.'?546 .416>>'
?.<6.6 .@71',1><'1.6>,-,<7>1.'';=475>.6 ' /7>
>,6E<'<;.6-,46?1>6.<7.'U;.7>J'1>5.'?1,0.7>.'>>;1.7
64-'<7N
66./055.'<'7,<'5.8-,45'<7<.771.'5.6'>/<671'M
7,<6>.'>.?'17./.<7U?,17>.'>.'640-.<186'<6'4;4<1.M
7'1>8'<?'V./.,7>.'5">>?.<6.>.' ,1>1.'04>;'1.'.5
>.';.54'>'>/<671'5,<?,41'5.'71/.671.'>.'0455.7 (*8
.<'77.<>'<7=4 5671,4-.<7>'<65.'?1,>47>.66,46'>>'
7,<<.565.'/,V.<>.'?,41-,18'-.;' .416?1,?1.6E <>68
'4@>>?.<6.6 /6.6U .41;:'1J.8 .7>.'1./?5';.1'U'5"
1>6,1.1.'<'7,<'5.'5.6'V'<;.6=4'5.41'41,<7>7>E'7.68
>>;1>7.';'=4'64 7N
W 17 F .6;,/1,66'1.6 >.E" 1>6,1.1.'<'7,<'5.'
E.1,470./.771.'U5">6?,67,<>.6>1.;7,1.6>.6=4'71.'
I-<J771,6>.?'17./.<768 U571.'>'-'<;.65"6,<4<.'
'/55,<6)8) ?,41640-.<1'U5">>?.<6.'>.6&104'
<'4@?,41'5.'71 /'71.'>4045.7 (*G8 .5;,/?5.7.186 5
V "5 .485.'?'V./.<7>.6>.4@71 /'71'?1.;.>.<76
'''// ''1">.'5"71.6,1.1.'<'7,<'5.'E.1,<7
>J'5./.<71./.771.'U5">6?,67,<>.6>1.;7,1.6>.'>>'
?'17./.<78 '466'U 71.'>'-'<;.85"6,//.'>.'U/55,<6
C 8C*U5-8 '6,46?,41640-.<1'4@>>?.<6.6>'>/'
/61'7,<?,41'5.'/7/.'71/.651.'>.'0455.7 (*8 .7;,/M
?5.7.1'5.'?'V./.<7>.';.55">.6>.4@ <7'51.6?1;.'
>.4K d

'%' 4<.'.7 '451.'6,//.'6.1'<7?'17'J>".<71.'5.'
>.?'17./.<768>'?1>6 >7'7>.'>671047,<=4'.<6.1'
'11>7>?'1'5./<671.'>';,<710,7,<6?405=4.68;,<E,5
/>/.<5'4@7'05'4@>>?,6"'4;,/5>>''E<'<;.
' .'1.;.-.<1>4>671;71.<E.1/'<75.';:.E5.<>'
>.?'17./.<7E,41<1" '4@;,//66'1">.'5"71',1.1'
<'7,<'5.'4<1>;>?66.'>.' U7,7'57.'>.'5"6,//.'=4' '41'
>7>.<-,V>.'4>1.;7,1.'>4>>?'17./.<7?,41'14<.'
'471.'>>?.<6.8 .75">671047,<>.';.77.'6,//.'6.<
E'7.'.<645.'.<?1,?,17,<>.'5">>?.<6.'U E'1.'';=457.'
.<;0'=4.'>671;7
W #.'1>;>?66>6.1"-6>?'1'5.6'>/5<671'7.4'>4>'
1.;7,1.'>.'>>?'17./.<785'=4.568?'1' '11>7>/6'40"
>.';.'1>;>?66>8 ?1.<>1,<7 .<J'J./.<7>.'E'1.'1./?5"
;.1'U5"71.6,1.1.'<'7,<'5. '641'5.'?1,>47>.66,46?,<
5-1.'>>5,<<.56 /?,6>6'4/'1;5" 5-1.'>.6;,<71047,<6>.' (*8 .7 ,?>1.1,<7.<.E.7,'1./?5';./.47.'
(* 8U'E41'.7/.641.'>.61.;,4-1./.<76'
#.'?1,0.7>.'>>;1.7.67'>,?7>
!5,'?'N .1;1.>'C 8-,46' .0,1>,<<>=4 56.1''
E'7-.<>1.>'4<1'??,178'77.<>4>.?4671, 6/,686415'
;,<E.;7,<>4<.5,71.?1.66-.8=4'6,5.E ;';.'6'<6>71
'71,;.8;.<71.';.4@=4';,<7<4.<7>.'?1.<>1.'>.6571.'
?1,00>6?'1'5";,<67747,< '5.';,/0><.'-.<7?'6E'1
;.'1'??,178<,46<'-,<6=4U>>;>.1'5'=4.67,<6415.'
;:'/?
B 'N ,46/>/.6 '-,<6?1,-,=<>E'77.<
7,<>.'E 66./05>.'641'5"<>;.667>>.';.75.'5, I5<V1
>9<;'?'6>.'/' -'6.'<7.<7,<>.'5"c'17>.';,/5> ,<
'-,<6>E>1><,71.'1'??,178?'1;.'=44< /./01.'>4';'
/5>>.';,<67747,<8>,<7<,46.67/,<60.'4.>47?5.654
/>1.68 "-,454?1.<>1.'?'170..75.'1.>';7,<
'I5VU1,6/,6=4.'-,46'-.0,1>,<<>864
/,<1'??,1785.'?'V./.<7>.6.E.566,176'471'J.'>
Q'<-.1I;.4@6,<56,176'471'J.'>'-156.1,<7>;.<
'4 ;7,0E. .67'6>>.'6.<71'5"<>;.667>>';=477.'
'-.;'5"?546J1'<>.'.@';774>.8 .7UE>?,=4.'?1>;6.'>
5.416>#5>'<;.685.6?'17.61./0,416'05.6>.' ">.55.'?4
05=4. `<,/7>>.6E<'<;.6/.';;'1J.';<;,<6>=4.4;'
>.'-,46?1.6.<7.1'5.'?1,0.7>.'>>;1.764-'<7N
W ';'66.'>.'E.@71',1><'1.'4-11".<,;7,01.'?1,
>'<5.'1./0,<16./.<7>.66,//.6>4.6.<'1>6457'7>'
71'J.'E'7.<'-15>.1<.1'>.'5"5,7.1.'>,.7,01.' ()'
/,<7'<7U5"6,//.'>.'(/55,<6 8 '5-7

'6' ' 0!! ' '

';D 'I5.'>./'<>.'5"?'1,5.'?,41'4<.'/,7,'
>,1>1.
66./05>.'<"?'6,<05>=<4<>.'6.6/./01.6=<
,<77>/,J<>5.'?546>'-.16,<;.<71.'5.'>>;1.7>'5' /"
"<-,=4>641';.4@=4'.<>7'.<75.6?'176'<65"?5466.'
->1.1.6?,<6'057> ,46<.'>.-,<6?'65">>7,41<.1'>7
>.66,6<,46I/'68.<-,V'<75";,'57,<=4'.@67.'.<71.'
5.60,//.6=4'6.'6,<7,4-.17./.<7.@75=4>6;,<71.' 6
;,<67747,<.75.6?'176'<6>4>>;1.7=4,<-,46?1,?,6.
5.67 /?,6605.'>.';1,1.'=4.';.77.';,'57,<?466.'?1>
6.<5.1'4<>>;1.7475.'U5"?'71. "?1./>'/,7,<>,1'
>1.';,<667.'>,<.'U;.'=4.8?<6=4.'-,46-,46.0'1J.0>.'0
E.6?,<6'057>85.'1'??,17=4'-,46">7>E'70.1'6,7/'
?1/>'-'<7-,1.';6,<8,4>4/,<6'-'<7-,71.'6>?"
1'7,< <">>;1.7>=4.'5.6;,5,<.6<>5' .<7?'6>'<60
;,<67747,<I/'6,<'>>.1>>'<65";,<67745,<5.?1<
;?.'=4.55.6E,<7?'17.'>41,V'4/. #,//.<7?,4-.0
-,46/'<7.<'<7>>.1>71;,<67745,<<.55./.<7=4.'5.'
;,5,<.6E.1,<77,47.65.4165,68 '?1>6'-,1>>.1>7>';,<
67745,<<.55./.<7= '4;<<.'6.;7,<>4 ?.475.'<.'?.<
.@.1;.1'5"6,4-.1'<.7>E <.'6.;,<>.'=4.67,<>,1>1.'.6
;.55.'>.'6'-,16'-,46'-.05.'?,4-,1>.'1.<>1.'5.'>>;1.'
=4'-,46.67?1,?,6>E;.67U>1.'6'V,46?, -.0.<;,1
.@.1;.1'5.'?,4-,1;,<67747,<' .>6=4.86,5=4.'-,4
6,V.0.<;,1.' 66./05>.';,<674'<7.8,4<,<8-,46<'-.'
?'65.'?,4-,1>.'1.<>1.';.'>>;1.7 #.'?1,0.7.67;,<71"
>;7,1.'7>'/>71'5./.<7,??,6>'<@>>;1.76'<7>1.416
-,465.'1.J'1>.0 ,//.',<67747,<<.55.5.6>>;1.7
'<7>1.4166,<7>,<;;,67<7<<.56'4661'5.6;'<71"
>;7,1.6.<7>.'/>/.'<'741.I,10.'>6=4.8;,//.' 6
6.1,05>.';,<674'<7.8-,46<.'?,4-.01.71'7.1'4<>>;1.'
.,<67747,<<.55>0>1.0-,46641';.'?1,0.7;,/7<.' >J6
5'741.I ,46>.6'11>7>6,'1'5"5,';,<67 4 ,, .5.',4'>

[illegible]

[illegible]

! b %

D WGT cQ + =>?= V < (

,

! %

^ '' / ' . 5'<;. .<71.G
5 .<7 >. E'4@ O14 76 .7 >. E' ,66.6 '5'1 / .6 ; ,<71. 5'' <,4
-;55. ;.<67 747 ,< >. ;. 1,Q'4 / .% .,71'-4. >. 54 5O
6.< .<;,1. >. ? .@7. '4@ / 7. ,<7.<768 .7 5.41 >,<<. 4<
3 >. 7,41< .<7.1 .6?1 7 ?405 ;% #.?;<>' ,5 ,< 6'57
=4. 5. / < 6 1. >. 5'' ;,41 >. '@. '' .4 '-'<5 O .1 4<.
.,<1>1.<;. '1.; 5. 1, 8 '4 ;:'7. '4 >. 'O .<6 I .7 =4, G
=4. 5. ?405 ; .< J<,1. 5. 1>6457'78 ,< ''5 .4 >. ?1.64 / .1 %
=4. 5'' E'< .46. .<71.-4. >. 5< 7O < ''1 ;< ;:'<J. '47
>.7.1 / <'7 ,<6 '<7.1 .41.6 '4 >.?'17 >. . /?.1.41 .7 >4
1, >. 1466.8 5.6=4.55.6 .7' .<7 E'-,1'O5.6 '5,16 ''5''<,4
-.55. ;,<67 747 ,< >4 / ' 8 ,,7' / / .<7 ''1E'.1.> . >4
1><. >. ,5,J<.% < .EE.7. '-'<7 5. -,V'J. >. % %
.< '@.8 ,< ?'1' 66' 7 > ';;,1>]41 ; .7 '17 ;5.P '4=4.5
/?.1'51 ;. >. 466 . >.1' 5 .71. <- 7.. >. >,<<.1 '466
6,< ';;.66 ,<%%%%% < 64??,6. =4 '' >J'1> >. 5'' E,1; . '1\
<.. >. 5'' ,5,J<.W?,17.. '' :, / / .68 5.6 ?4 Y%
6'<; .6 -, 6 <.68 =4 - .<<.<7 ?1.O' . / .<7 > '11 7.1
.<71. .55.68 : 5< 7O8 =1.>4;7 ,< >. 5.416 71,4?.6 1.6
?.;5 -.68 >. / '<>.1,<7 '' ;.7 .J'1> >.6 .@?5 ;'7 ,<6 ''5''
1>?405 =4.8 .7 ,< ' :.6 7. ?'6 '' ;1, 1. =4. 5'<65'6
4J467. <. >,<<.8 .<%;.77. ;;'6 ,<8 4<.Q4'1=<.>. 6''
?14>.<;.8 .7 <.1.>4 6. '466 5'' E,1; '1 / .. %
! .7 .''. /?. >. 1.>4;7 ,< >'<6 5.6 71,4?.6 .7'<7 >,<<.
.< 41,?. ?'1 >.4@ ?4 66'<;.6 7.55.6 =4. <71 ;: .7 5''
1466.8 .7 >.1'<7 .71. 64 1 <.;.66' 1. / .<7 ?'1 > '471.6
63 -.1' <6 / , <6 ?4 66'<768 ?1, / .7 6'<6 >,47. 4<. ' / >G
5 ,1'7 ,< ?1,;: ' 4. >'<6 5. 6,17 >.6 <'7 ,<68 '' 5'' / . / .
.?,=4. 5. 1,V'4 / . >. 1'<; '' 6,5.<<.55. / .<7 1.G
<,<;. '' .6?1 7 >. ;,7 =4.7.N ;O'<J. / .<7 :.41.4@8 > 4;.
1.-,547 ,<8 =4 >, 7 7,41<.1 '' '-'<7'J. >.6 ?1 <;.68 .7
>,<7 5.6 O,<6 .5E.56 ?1,4-.1,<7=4.8 ?'1 4<. O .< :.<G
1.46. E'7'5 .8 5. -.1 7'O5. <7.1.7 >.6 O, / / .68 1, 6 ,4 64G
Q.768 6.'71,<-. 7,4Q,416 > ';;,1> '-. ''5'' 6' 4. / ,1'5. .7
'-,; 5.6 -1' 6 ?1 ; ?.68 .7 ?'1 ;,<6.=4.<7 * A
1 >. .7.1<.55.Q467 ;.%

L K %

'7 ,C(< 6 '77.<> . ''
,4 1 O .<5 7 ?'15.1 >.6 ?1. / .1.6 >. / '1;:.6 >4 1, >.6
H1'<=' 6 '4?1.] >. . /?.1.418 1.5'5 -. / .<7 '' ';:.?5'G
75,< >. 5'' ;,<67 747 ,< >.8H1'<;.8 ;, / / . '466 ''1.J'1>
>.6 . / J1.6 ?1 <;.68 ;7 >. .6? ; >. ?1,7.;7 ,< =4 5.41
.67 ';;,1>..8 6, .< 55. / 'J<.8 6, 7 >'<6 5.6 ?1,-<;.6O.O
J =4.6% .,?,5>8O .<5, < >. E'-,16.1 5.6 .6?.1'<;.6=4.
5.6 . / J1.6 E1'<=' 6 ?'1' 66.<7 ;,<;.-, 1 >. .<71.-4. .7
>. 5'' >.;5'1'7 ,< >. 5< 7O .<71. 5. 1, >. 1466. .7 '' '
c.67. <?.1 '5.8 '?<,<;. '<;,<71' 1. =4. 5''1.>4;7 ,<1>
; ?1,=4. / .<7 ;,<;.17.. '-. % % ?1466 .<<. >'<6 5.6
71,4?.6 1.6?.;7 -.6<. 7'1>.1'' ?, <7 ''6 .5E.;74.1% .Q''5.
;,1?6 >.6 ,EE ; .16=4 ?1.6< / .<7 >.-, 1 .71. ;, / ?1 6 >'<6
5'' 1.E,1 / . ?1, ;O' <. ,<71.?< ' -6 =4. % % %8 ?1.<'<7
.< ;,<6 >.1'7 ,< 5.416 6.1- ;.68 -,4>1' 7 6'<6 >,47. 5.41
;,<6.1-.1 .<7,7'5 5. 5.416 '??, '5. / .<76%
34'<7 '4@ 6,Q<6 ?,5 7 =4.6 .7 > '> / < 671'7 ,<=< ?.4G
-.<7 1.J'1>.15.6 'EE' 1.6 >. H1'<;. ,4 7,4;.1 '4@% <7.G
1O76 >. =4.5=4.6 ?'17 ;4B.16 >. ;.77. <'7 ,<W . /?.1.41
-.,7 >. 1.<>1. 4<. ,1>,<,'<;.8 .= >'7. >4 5 6.?7. / M
O1.8 ;,<;.1<'<7 5. 6>=4.671. >.6 O .<6 =4. 5.6 ;,4-.<76 .7
'<71;6 . 'O5 66; .<76 .;; 6 '65 =4.6 64??1 1<>6 .< H1'<;.
?,66.>. .<7 6,<65'' >, / <'7 ,< >. % % '4@ 'V6 K'68
.7 >,<7 -, >5'' 7.<.41%

7 G 1 A
1 ! ,
G 1 $
>, / <'7 ,< FA 8 3 A U A
1. (* % 8

$ '' 'Q.67.-,45''7?,41-, 1 E7 5'' ;,<6.1-'7 ,< >.6 7.1G
1.68 ;, 68 6. J<.41 .68 / ' 6,<68 1.<7.6 .7 '471.6 O .<6 .7
/ .<46 =4. 5.6 / ,<'67O1.68 'OO'V.68 ;,<-.<768 ;: '?G
71.6 .7 '471.6 .7'O5 66. / .<76 .;; .6 '67 =Q .6 64??1 / .6 .<
H1'<;. ?,66.>' .<7 6,46 6'' >, / <'7 ,< '4@ 'V6 K'68
> . '8 >. '-6 >. 6,<;,<6.5 ?1 -.8 .7 E7 ''>> O>'7 ,<

GG '+'< M.S

>.66.1>< 66 / .6 J,4-.1<.416 J.<>1'4@ >.6 'V6 K'68 ,<G
> <<. .7 ,1>,<<. N
W % .65, ;'7' 1.68 E.1 / .16 ,4 '471.68 =< 8 E7 =4.5=<.
7 71. =4. ;. 6, 78 ,;;4?.<78 >.5 .<<.<7,4 '> < < 67 .<7
>.6 7.11.68 O, 68 / ,<5 68 / ' 6,<68 >1, 76%6. J<.41 '4@8
1.<7.68 ;.<68 > / .6 , '471.6 O .<6 .7 1.-.<46 =4.5G
;,<=4.6 =4. 5.6>7 .7'O5 66. / .<76 64??1 1<>6 .< H1'<;.
?,66>>' . 7 6,46 5'' >, / <'7 ,< >. '' 'Q.67. '4@ 'V6
K'68 >.-1,<7 5.6 >.;5'1.18 ?'1 >;1 78 '4@ ;,<6.56 E 6;'4@
>.6 ?1,-<;.6 1.6?.;5-.68 >'<6 5. 7.1 / . >. =4 <O. Q,4168
E7 ;, / ?7.1 >4 Q,41 >. 5'' ?4O ;'5,? >. 5'' ?1>6.<. ,1>,<
<'<;.8 .<>>6 J<' / 5.6 >?,=4.6 .7 5.6 7.1 / .6 >. 5.416
O'4@8 ,4 '471.6 ;7.6 .< -.154 >.6=4.56 56 ,;;4?.<78
7 .<<.<7,4 '5 / < 651.<7 5.6> 6 O .<68 ' <6 =4. 5. / ,<
7'47 >4 1.<>'J. ,4 >.6 ?1,>4 6 '<<4.568 E7 ?. <. ;,<71.
7. .<71.-.<'<76 >.<;,41 1 4<. ' / .4>. >=4 -'5.47. '<
71 ?5. >.6> 76 1.<>'J.6 .5 ?1,>4 56%
% ,46 5.6 64Q.76 >. '8 'Q.67.8 =< '?,411' .47 >71.
>>O7.416 >.6> 76 .7'O5 66. / .<768 ,4 =4 '?,411' .<7 '-, 1
.< 5.41 ?,4-, 1 >. '1J.<7 ;, / ?5'<78 >.6 -1.68 7 51.68
?'? .16 ,4 '471.6 .EE.76 '??'17.<'<7 E7 ;.6 .7'O5 66. / .<768
>.-1,<7 >J'5. / .<7 5.6 >>;5'1.78 >'<65. / > / . 7.1 / . >.
=4 <O. Q,4168 '4@> 56 ;,<6. 55.16 E 6;'4@8 .< 6?.;7E '<# 5.
/ ,<5 <7>. 5'' >.57.8 5'' 6,41;.%.7 >?,=4. >.6'' ;1>'5, 8
.7 .< 1. / .57'<5 5.6 5 67.< .@';7.6 .7 >.7' 55>.6 >.6>76 .EM
E.76I E7 ?. <. ;<?71. 5.6 ,,<71.-.<'<76 > .<;,41 1 4<.
' / .<> >'' >,4O5. >. 5''-'5.41 >.6 >.77.68 '1J.<7 ,< .EG
E.56i..;# #6% %I
$ % .E.<> '' 'Q.67E7 E7 7,4 'E.1 / .168 5, ;'7' 1.6 ,4
E7451.68 =4 ;,;;4?.<7 >.7 .<<.<5,4 '> / < 671.<7 5.6> 76
O .<68 >. / E7 / =4 '' 7.<6 '471.6 >#O7.416 =4.5;,<=4.6
>. ;.6 .7'O5 66. / .<76 >. E' 1. '4,4< ?'V.<7.<7 >. ;.; %
;.;.E =4 E7 ;, '' =4 %6,<7 ,4 6.1 <7 ;, / / 6 >. 5'' ?'17 >.
'' 'Q.67.8 E7 ?. <. > .71. 7.<46 >. ?'V.1 4<. 6.;,<>.
E, 6%
'<>. .7 ,1>,<<. '' 'Q.67. E7 7?46 ;.4@ =4 5 '??'1
7 .<7 >. 6. ;,<E,1 / .1 E7 5'' ?1.6.<7. ,1>,<<'<;.% % %
WH' 7 E7 K14@.55.68 6,46 5. ;';;.76.;1.7 >. '' 'Q.67.8
5. U6.?7. / O1. (* 8
$ 7' 7 ?'1'?;. #1% -7% 6 J<# G)$ $ 5 .7 E7
#>7. .7' 7 '??,6. 5. ;';;.76.;1.7 >. % %8 / ?1 / # 641
4<. E',67 .-.1 / . 55. 8 ;,4-.17 >. ?'? .1 O5'<;% Y
(& H '+' 664. >. <,71. 1.-,54M
7,< 'V'<7 O 7 . / J1.1 = J1'<> <, / O1. >. <,6 ; / ?'
71 ,7.68 5. ?1 <; .-.=4. '' E' 7 ?405 .1 4<. >. ;5'1'7 ,<
.@; ,17'7, 1. ?,41 1' / .<.1 5.6 E4J 7 E6 >'<6 5.416 E,V.16%
#.7 ;7. .67 ;,<.4 >'<6 5'' E,1 / . =4 6'57N
W # , '65'<7 < H1'< ,68 .7;%G .7;%
E 41 ;. =4 <,46 '' .7. 1. / ,<71. = . <, / O1. >. ; ;
7,V. <68 / . / O1.6 >.6 #: ' / O1.6 .7 >. 5'' J.<.1'5 7. >. <,M
71. O ,<<. -75. .7 ; 7 >. .J. ?1,4-.1' .<7 4< 1.?.<7 1
6<;.1. >.6 E'47.6 =< 8 .< 64 7. >.6 6.<7.<; .6 >. / ?1.
.5 >.6 >#;1.56 >. 5'\; / / \]6 .< <?.1 '5.8 / .771' .7
>'<6 5. .'6 >. ;1' >1. > .71. ?1 -#6 >4 >1, 7 >. ;,?#1.1
.7 >. ?'17 ; ?.1 E7 5'' ?1, ;O' <. 1.<,-'7 ,< / 'J 671'5.I .7
641 #. =4 56 <,46 47 71.6 O4 / O5. / .<7 E' 7 64??5 .1 >.
5.41 E' 1. ,<<' 71. 6,46 =4.55. E,1 / . .7 ?'1 =4.55. 6,4
/ 66 ,< 56 ?,411' .<7 ,<46 >,<<.1 >.6 / '1=4.6 64EE 6'<
7.6 >. . 1.?.<7 1?,41 / #1 7.1 >. 1.66.<7 5.6 .EE.76 >.
<,71. ; / ; ?'17 ;45 .1 E7 ; .7 .J'1>G .7 .871. '> / 6 E7
.@.1; >4 >1, 7 .7 >.6 ?1.1,J'7 -.6 646> 7.6 I ?'1 4<.
64 7. >.5'' / '@ / <-,5'O5. =4. <,V6 <,46 6, / / .6 E' 7.
>. ;O.1; .1 .<7 ,<7.7 ?'17,47 5'' ;<-.16 ,< ?547>5 =4. 5''
?.17. >.6 ;4?'O5.68 <,46 '-,<6O .< -,4 4 ;<>.6;,<>1.
E7 >. ;5'1.18 ; / / .?'1 5.6 ?1.6.< .6<,46 >. ;5'1,<68 =4.%
7,47 ; / ?,6 '<7 >.6 #: ' / O1.6 =4 8 6'<6 .71. ;:.E8 '47.41
,4 / ,7.41 ?1 <; ?'5 >. 5'' 1.O.55 ,<8 V '41' 7 ;.?.<>'<7
?1 6 4<. ?'17 '66.O ';7 -.?,41 .71. ;, / ?1 6 >'<6 5.6 >6M
?,6 7 ,<6 >.6 6.<7.<; .6 .7 >#;1.56 646> 768 ?,411'' ,O7.< 18
?'1 J1E7 .6?#; '5.8 > .< .71. 1.5.-# .< 6. ?1#6.<7'<7 .<
;.66' / / .<7 E7 <,71. ;,6. 5 ?1 -. ?,41 V E' 1. 7O41.1 5''
6,4 / 66 ,<8 >,<7 54 6.1'' 1. / 6 '' ;7. ?,41 P4 6.1-1 >.
Q467 E ;'7 ,< -6 E7 -6 >. 6'' #O' / O1.8 E7 .EE.7 >. ?.4-, 1
;,,?.1.1 .7 ?'17 ; ?.1? 1'6'' -, ';7 -. .5 ?'66 -.8 E7 5''
1.<,-'7 ,< / 'J 671'7. 646> 7.I -,45'<5 O .<8 '?1.6 ;.5'8
2 .@;5'1. =4. ;.4@ 5'' ;, / / 66 ,< /?.1'5. '' ;, /

6 >>1>6.7 >>Q ' .< ?'17 .' >E.1>7>6 ; , / / .' ; : .E68 '47.416 ,4 / ,5.416 ?1 <; ?'4@ >.6 71,40E.6 ?'66.68 >. / . / .'=4.' ;.4@ =4 ' ,476 J.'>'<6 5.6 >.4@ / 'J 671'741.6.7; ,<6. 5 1.0.55.6 >.65 ' ' ,>7 ()* .7 (* 1> ,<<'<7=4.'5.6 ?1 ' 6.<7.6 6, .<7 / ?1 / ..68 'E ;0 .6 .7 <6 44>.6 , :' ' ; ,<' .<78 ?,41 5' ' ; ,<<' 66'<; .' >.' 7,46 ?.4@ =4 5 '??'1G 7 .<>1'

W ,<4> .< <,71.' ; ,<6. 5 ?1 ->8 5.' C 6.?7. / 01.' (* 8 d W #, H4 E 7 \ < 'E, <5 :' ; .77.' >, ;5'1'7 ,< 4< / ,>05.' >.'6,4 / 66 ,< =4.' ,<>, 7 6 J<.1 .< =4'5 7.' >.'64Q.7 E >>5.' .7 '4 ?1 <; .' > >=4.' .7 '4@ >>;1.76 >.'5 #:' / 01.' / ?>1 '5.8. '>. / '<' 7<'<>'<7 J1' ; .' :' ,< 57.66.' ; .56 66 / .

H #

' 8 ' 'CU '$+' .' >>;1.5 >.'5 1.4< ,< '-' 5 >7.' 1.Z4 5.')8 '-.;' 5 ?546 J1'<>.'Q, .8 U -M J<,<1 ; .77.' ,5.' ' > > 71,405>.' ?'1 44 >-><. / .<7 >,<7 ,< 5 .' 5'1>.1 '?'6 U >>; ,4-1 1 5 ; '46.

' 34'51.' / 55.' 0, / / .6 >.' 71,4?.6 >.' 5 J<.' 6.<7 '11 ->6 .C ' U ,1J4.68 ?.7 7 - 55'J.' ?156 > - J<,< .6 : '0 ' 7'< 6 >.' ; .' 5 .48 641?1 6 >.' '11 ->.' / ?1.-4.' >.' ; .6 71,4?.68 ,<7 7> / ,5J<> >.' <=4 >74>. < ; ,4? >.' ? 67, ' 5.78 5 1.' ?'1 : '6'1> > 4<.' ?'51,4 55.' 6 1 4< ?,65.' >.6 71,4?.6 >.'5 J<.8 ' , ; ; '6 ,<< 4<.' .6?>; .' > ' '=4.1 4< ,53; .1 / 4< ; ?'5 >. , J4. 6 '>7 74>8 ?546 .416 ?.16 ,<' <.6 ,<7 >7> 05.66>.68 > '471.6 . / ?1 6,<<>.6 '1 / ' ; .6 >.1< >1.6 6,<7 ; .>.6 =4' '-' .<7 7. / , J< 5.' ?546 >.' >>6 1 ?,41 5 1.4< ,<8 .<71<'471.6 '00> , ->1.8 E1>1.' >4 :' 7 .6 >>?47>6 > - J<,<

,46 5.6 ; 7,V.<6 > - J<,<8 6'<6 > 67 <; 7 ,< >.' ?'17 8 6.' ?1.?'1' .<78 5.' C 8 U ;> >01.1 5 E>7.' >.' 5 1>4< ,<8 5,16=4 56 ,<7 '??1 6 ; .' 71 67.'>-><. / .<7 '> 6; ,1>.' .67 < 6.' '466 7>7 .<71.' .4@1 .7 4< ; ,411 >1 .@71' ,1> <' 1.8 '11 -> 0 .1 6, 18 '<<,<; .' =4.'5.6 J'1>.6 <'7 ,<'5.6 >.6 - 5' 5.6 - , 6 <.68 =4' > ' .<7 .<?.6 ?,41 6.' Q, <>1.' U 5.416 <,4-.'4@ E1>1.6 > '1 / .68 -.45.<7 ?'17 1 ?,41 '55.1 - .4J.1 5.6 ?'71 ,7.6 ?.16>; 45>6 U ,1J4.6

/ 4< ; ?'5 7> ?1,- 6, 1.' > - J<,< .<-, .'5.' ?1, ,>6 ' -.10'5 >.' ; .7 >-><. / .<78 ?'1 5.=4.5 5 ?'1' 7 =4.' ; >7' 7 4< ; , / ?5,7 ?1,Q.7> '<7>1 .41. / .<71 < 6' 6' ?546 .416 5.551.6 >.' =4.5=4.6 ?.16,<<.6 646 .;7.68 =4' >;5' 1; 1,<7 ; .E7 78

' , ' ' ' (') ' , ' ' 'G 9 ' , ; >7> >.6 / 6 >.' 5 #,<67 745 ,<8 6>'<5 '4@ 'M ; ,0 <68 14.' '<7 B,<,1>8 ' '11>5> =4.' 5.6 Q,416 , 5 .55.' <.' 6 '66. / 05.' ?'68 6 6'55.'6.1' 7 ,4-.17.' '4@ >>?47>6 >.' 5 ?1. / >1.'5.J 65'741.' =4' - ,4>1' .<7 6 V 1>4< 1 55.'5.68 <- 7.' >,<.' U 6 V 1.<>1.' >.' ' ; <= : .41.6 >4 6, 1 U<.4E '6'55.'6.1' ,4-.17.' ? , .1 .4@ 56 V 71,4-.1,<7 4< 5, ; '5 6?' ; .4@ .7 ; , / / ,>.8 , 5 56 ?,411,<7 6.' ; ,<<'571.' .7 6 >;5' 1.1 1.; ?1,=4. / .<7 641 ; .' =4' <>1.66.' 5 ; : ,6.' ?405 =4.

" 'V'

TB*' ' ' ' 0 ' ' ' ,+*$4(' 9.+0-('4+.' +0$-/ - +4.-" ('-('$*' -(' ' ((*(/ 4($,.('-' '. $ -(' . '(' .$2' ; BW $0 7 (,' (" 4.($(.(" (4.(0('/ WF $0' ' +.$'/ 36(U +0$-/ 9.+!' K 0(./ . (' $(..(! +..+'$*/ *C BP/

L8JA

+' 3$(,-' - ')' -(" .-($(." + .+*36$,' , " (" 4+!' 5*(,"5 (('(*0 $(/ F $(U3(4 $ *' -("'$ 4 (" (,,.('7 (L (' 4.$(' (" +*,.(" 3$(,("-(' 0 $.')$(*' +9.+*36$.' -(' - (' , " (" (*0 $"+' ' *' +-.(''(/ 5 $*(' '(. *,' 4+" -(' '$ 4 (" (,,.(' V +' 3$-,-' .+,(.*(('-("-(*2'(2('/'3+*,'(*' +')$) $!' ,6(5*('-(" A+3)$*'! +$*,!@ * .(/ F +.$'/ 4.-0$(*,' 5*((' *(' .(((0.+'4 " - .(*+0+*,'+ 3 *'4+5 (,'5 $' (' ' $'+ .+*!' 36$7 +$" (" (,,.("'$ 4 ("'(. *,'.(0 ('

K

' " " '

\ ' F ' 'F ' < V

' " ' ' ' ' WF "

' ' ' ' ' ') !! ' '

66. / 05>.'E. / .'5' > 6;466 ,< 641'5 / ,7 ,< > ,1>1.

' 5 / ?1.66 ,<>41'??,17 >.' K'1<'-..67,1>,<<>. .6 '471.6 / ,7 ,<6 > ,1>1.' >.' 8 . [0.57 6 <7 1.Q.7>.6 ?'1 4<.' >.; 6 ,<>.' ?'66.1 U ,1>1.' >4 Q,41

' ' ' ; A(' -(+*-(' +' 4. 4 '(.' *' + (*-(!' / .<7 < *' . .(!' *' -(+#$-(' +!5 (',$ *' 4.-+!' +) (?

' ' ' 1 546 .416 / . / 01.6 ?1,?,6. 17 >.' E' 1.' ?'1'E71.' .< ?'1'55 .' >4 ?1,Q.7 >4 ; , / 7; > '471.6 ?1,Q.76 1 66. / 05>.' -.47 .55.'5.6 .<7.<>1.Z 6 (' ' A& ' ' ' ' ,<8 <,<SP

. ' N .' >. / '<>.' 5 ?'1,5.' ?,41 4< E' 7 .@71> / . / .<7 / ?,17'<78 .7 =4.' 66. / 0 .' >, 7 ; ,<<'571.' '-'<7 5' > 6;466 ,< #.' =4.' 1 66. / 05..' J<,1.' ?.47 71.8 . .67 =4.' 71, 6 >.6 =4'71.''17 ;5.6 =4 ,K 54 ' ?1,?,6.' >.' >>;1.7.1 6.' 71,4-.<7 >'<6 5.' ?1,Q.7 >.' >.;1.7 =4.' - ,46 '-.0 .<-,V>8 '5 71.' > < ' 6714;7 ,<88 '4@ ; ,5,< .68 .7 641 5.6=4.56 - ,46 '-.0 ; ,<64 7.' 5.6 ; ,5,< .6 ?,41 '-, 1 5.41 - , .41 .7>'<6 5.' / , / .<7 '; 74 .58 6'<6 '-, 1 ; ,<6457> 5.6 ; ,5,< .68 6'<6 ; ,<<'571.'5.41 - , .48 ,< - ,46 ?1,?,6.' >.' >.;1.' 7.1 ; ,<67 747 ,<<.55. / .<7 ; .6 / / .6 '17 ;5.6 <6 8 5,16=4.' - ,46 > 7.6 '4@ ; ,5,< .61 1,?,6.0 <,46 -,6 / > / , 1.68 -,6 <6714;7 ,<68 -,6 -4.68 -,46 >.;1.7.0 11. - , ; '05. / .<7 .7 ; ,<67 747 ,<<.55. / .<7 5.6 ,0Q.76 / / .6 641 5.6=4.56 - ,465 .6 ; ,<64 .0 # .67' <6 '=4.' # .4@=4 '<,46 ; ; 46.<7>. / '<=4.1'4@.<J'J. / .<76 ; ,<71' ; 7.6 ?'1 66. / 05>.' <'7 ,<'5.' .<-.16 5.6 ; ,M 5,< .6 >,<<.<7 .@. / ?5.' > 4< / '<=4.' >.' E, '0 .< '471. / .<7; , >' / <'05.8 .7 641 >.6 ,0Q.76 0 .< '4 ' 71. / .<7 / ?,17'<76 ' 8

,16=4.' 66. / 05>.' >>;1>7' ; .6 ?1,Q.76 > <6714; ' 7 ,<8.55.'6'-' 5 0 .< =4.8 5,16=4.'5.' - , .4 >.6 ; ,5,M < .6 ?'1- .<>1' 78 .55.'<.' 7 .<>1' 7 ?546 6.6 6.'<; .61 .55.' - ,4547 >,<.' =4.' ; .'E>7 '5 ?1, ; <' <.'5.J 65'741.' ?1,<,?; .1'>.E < 7'-. / .<71 / ' 6 ,< - .47 - ,46 E' 1.' ?1,<,<; .1 '4Q,41> : 4 8 ?'1; .' =4.' ,< ; 1, 7 '-, 1 4<.' / 'Q,1 7> > '<6 66. / 05.. ' ,< / .' ' 66' 7 ?'15.1 641 5.E,<>8 Q.'?,411' 6 ?1,4-.1 Q46=4 ' .-' >.<; .' =4.'5.' ?1,Q.7 >.' >.;1.7 =4 ,< ?1,?,6.' .67 4<.' '0641> 7> & .6 71 04<.6 '??5'4> 66.<7 P .' >. / '<>.' 8=4.' 66. / 05>.' ' 7 ' 6 .@?5 =4.1 E,1 / .55. / .<7 641 ; .' ?, <78 6'-, 18 6 .55.' .<7.<> 1.-.< 1 641 5.6 71, 6 '17 ;5.6 641 5.6=4.56 .55.' ' ; ,<64 7.' 5.6 ; ,5,< .68 ' < =4 .55.' >>;5'1.'<.77. / .<7=4.' >'<6 'EE' 1.' >.6 ; ,M 5,< .6 .55.'<.'7 .<>1' > '4;4<.' .6?.; .' >.' >>;1.568 .7 =4 .55.' -'; 55.1' 7'<7 =4 ,< 54 ' ?1>6.<7.1' >.' <,4M -.'4@ ?1,Q.76

'Q,41<>.' -' 6.' ?.1>1.' .< <; >.<76 ' 46714;7 ,< < .67 ?'6 .<-,V..' >'<6 5.6 ; ,5,< .68 7,47 ; .' =4 ' > 7 .7 ,< 7, / 0.

/ ' N 34.5=4.' >>E'-.41=4.' ,< ' 7 ; : .1; : .' 'Q.7.1 641 5.6 64EE1'J.6 >.6 ; , / / .1; '<768 Q.'< .<'41' '?'6 / , <6 5.' ; ,41'J.' >.' > 1. / ,< ,? M < ,< 641 5' =4.67 ,< / ?,17'<7.' =4 ' - ,46 , ; ; 4?.' .< ; .' / , / .<7

,6 >. ; 1.76 >4 C)' / '16 .7 >4 ' ,;7,01.' (* ' '-' .<7 ?,17> ,1>1.' .7 5 ?' @ >'<6 5.6 ; ,5,< .61 ,< V'77.<>' 7 '-. ; / ?'7 .<; .'-,6 <6714;7 ,<68 5,16=4.' 5 ; ,<<' 66'<; .' >4 >.;1.7 >4 *' / ' '>.1< .1 V '7,47 ; ,4? ?,17> '5'1 / .N >'<6 7,47.6 E76 ?'17 .6 4< 6.45 ;1'6 .67 E' 7 .<7.<>1.N W ,6 ?.16,<<.6 .7 <,6 ?1,?1 .7. 6 6,<7 ; , / ?1, / 6.6SY .7 ; .' ;1 ' >7> ; .54 ' >4 1'55 . / .<7 >.' 7,46 5.6 ?'17 6

.6 5.771.6 ,B ; .55.6 >.' K5'<; : .5'<>.8 >;1 5.6 >.'5 ?1, - <; .' >4 <,1> >.' ' <7 , / <J4.8 <,46 N '<<,<; .<7 =4.' ; .77.' 1>4< ,< < ' ?,41 047 =4.' 1'66. / 05. / .<7 > 4<.' J1'<>.'E,1; .' ?,41 1.?,466.1 .@.; 45 ,< >.' ,71.' >..1>7 #.6 > 6?,6 7 ,<6 ,<7 ?,17>'5 7.11.41 .7 5.' >. ; ,41'J. / .<7 >'<6 7,47.6 5.6 - 516 >.' ; , / / .1; .8 .7?1 <; ?'5. <.<7 ' 'K, ; : .55.81 '<7.68 K,1>.'4@8 ' 6. 55> .6 <>J, ; '<76 >.' ; .6 - 55.6 -,46 ,<7 '>1.66> 5.416 >,5.'<..68 .7 ; .6 ?>7 ' 7 ,<6 <,46 ,<7 d>7> ?1>6.<7..6 ; , / / .' > .7>.6 ?'1 ,1J4. 5.7 -'1 ; .8 ; , / / .'6,47.<4.6 ?'1 5' - ,

(9(

;<;.% % ! 1>J, 1.' - ,46' " / 7, .'> 7J4.'5.6'1.?1.M
6.<7'7 ,<6>.6; , / / .1 '<76<.'?,4-' .<7.71.'?1 6.6
1<'; ,<6 >.1'7 ,<8 ?'1..'=4 56 6.<7Q4J.6'.7?'17 .6%
.67 4<.' .71'<J.' / '< [.' > .<- 6'J.1 5.6 ; : ,6.6
=4.'>.'1.J'1>.1 ; , / < .'>.6 Q4J.6 >.6 64??5 '<76
=W'71. / OE.<7?,41 5.41 .@ 67.<;.% ' .67V1''=4.'5.6
; , / / .13'<76,<74< <7.1 7> 1.;7 " ;.'=4.'5.'>>.1.7
>4 ' / '16 6, 5 / ,> E >% '6 66. / O5. .' < '<1"
6'<6>, / .'?'6 ,405 .'=4.'5.6 .-J=4.6 ; <67 747 ,<'
<.56 ,<7 6.456 1.;5' / .%;.<71.'1. / 66 ,< E' 7.8 >'<6
5" 1.>';7 ,<>.' ';7.' ,0<65 747 ,<<.58 >.' '17 ;5.'1. '
5'7 E'4'71' 7. / .<7 >.6 .;;5.6 '67 =4.6% 5 .67 5 01.'
">.6 : , / / .6 =4 '6 ,4EE1.<7>.'6.'?5' <>1.8 5 .67 >4
>.- , 1 > 4< : , / / .'Q467.'>.'5.6 .<7.<>1.I " / , <6
;4.' % ! 1.J, 1.' <.'?.<6= =4 4< <, / 01.' / / .<6.'
' :,1' / .6 =4 ' 1.6 >.<7 .< H1'<;.'<.' ?.<7 ?'6 971.'
/ 6 .< 0'5'<;.' '-.;'4<.'?, J<. .'>.'J.<6>.';,45.41
=4 ' .@ 67.<7>'<6 5.6 ; ,5,< .68 .7 =4 5 -'47 / .4@
'55.1 .@.1;.1 6"?: 5'<7:1,? ;'>'<6 4<'471.':. / '
6?: .1.'=4.' >.' 6 'E .;7.1 >.6 / '5: .416 =4 ,< "6,46
5.6V.4@I .< 4< / ,78 =4 5 -'47 / .4@ ,?.1.1 5"
14 <.' > 4< J1'<>'<, / 01.' >.' ; 7,V.<6 E1'<;' 68 5.%
5,47 ?'1 ' / ,41 ?,41 :4 / '< 7.% 4 8 5.6 ?.7 7 ,<6
>.6 <.J, ; '<76 ,<7 .7.' > .7..6 ?'1 <7.1>78 .7?'1
<5.1.7 5.' ?546 ?1.66'<7N 6 71. / O5.<7?,41 5.416
?1,?1 . 7.6I 56 1.>,47.<7 .<7 .1'<.'<7 66. / .<7>.'
$ .41 ' '>.Q" .01'<5>'?'1 5.6 E4<.67.6 -'1 'M
7 ,<6 >4 ; :'<J.% ' 6 5 <.'-,46 .67 ?'6 ?.1 / 6>
#<,1.1 5.6 1'??,176 =4 '5 .<7 5" E,174<.'?405 =4.' '
<7.1 7 >4 ; , / / .1;.% '64EE 7>.Q.7;15.6 V.4@641
5.'1.5.-.' .@';7>4 ; , / / .1;.'>.6 ; ,5,< .6%
.6 .@?,17'7 ,<6 E' 7.6 >.' $ '?,41 5.6 5 .6%
> / .1 =4.8 ,4 '?'17 ;'> E1 =4.' =4 ' .67 4<.'>>'
?.<>'<;.'>.';.; , / / .1;.8 / ,<7.<78'<<..' / ,V.<<.8
")' / 55 ,<6% #.77.'6, / / .'>.'))' / 55 ,<6 6.' ?'1 '
5'J.8 .<71.'5.6 ; 7,V.<6E1'<;' 68 >.'5" / '< .1;'64 '
-'<7.' N UU' / 55 ,<6 '4@ / '<4E';741 .16 _&4 8 641
;.77.'-'5.418 E,<7 5" ?'17 <> 1.;7.'>.6 ;455 -'7.416
.7 -.<>.416 >.6 / '7 >1.6 0147.6I C*' / 55 ,<6 ?4@
;455 -'7.416 > 1.;768 .7CC / 55 ,<6 '4@.71'<J.16 =4 '
E,41< 66.<75.6 ?1,>4 76'J1 ; ,5.6.7 5.6 / '1.0'<> 6.6
E'01 =4..6% .6 1.7,416 >.'<,6 ; ,5,< .68 .<>.<1. .6
>.'5.41 6,58 6 >5.-.<78 ?'1 '<<>.' / ,V.<<.8" .<- 1,<
8C ' / ,<6% #.77.'6, / / .'>.' C ' / 55 ,<6 1. / '
0,476.'> '0,1>'5.6 '-'<;.6>.'<,6 'J1 ;457.416 .7>.'
<,6 / '<4E';741 .16I .55.'?' .'5.6 .71'<J.16 =4 E,41 '
< 66.<7 ;.17' <6 '17 ;5.6>.' / '1;:'<>Q6.6I .55.'>,<<.'
'4@ ?1,?1 . 5' 1.6 >, / ; 5 .6 .< H1'<;.'5" 1.<7.' >.'
5.416 ?1,?1 >7.65.11 7,1 '5.6.4 / . 1 =4.I .<E < ;.77.'
6, / / .'6'5'1 .'5" / '1 <.' / '1; :'<>.' >'<6 5" ?1,M
?,17 ,<=4.'<,46 -.11,'6 ; '?1.6% ,6 -.<7.6:'0 '
%74.5 .68 <,6 ; ,11.6?,<>'<;.6 .71' .1.68 641 5"
/ '66.'.<>.41>.6 1.=4.6 '<<4.55. / .<7>.'<,6 5 .68
6.'6.<7> .->.68 >.?4 6 ()9' " ()*' 4;546 -. / .<78
' C / 55 ,<6I ;'=4 '>,<<.8 ?,41 ' <>.' / ,V.<<.8
4<.'6, / / . >.' U)' / 55 ,<6% 06.1-,<6 ; , / 0 .<
..57.' / '66.'> .; :'<J.6 '-.;' >71'<J.1 .67 ?1>; ;46.'
>'<6 4< / , / .<7 ,4 7'<7>.'>1.,<67'<;.6; ,<;,41.<7
"<,71.'?. <41 =.< / '7 .1.6> ,1.7> '1J.< ' '<,46
< '- ,<6 ?'6 4<.'6. / O5'O5.' / '66.' "5 -1.1'4@ 4 '
1,?>.<6 =4 8 '0671';7 ,< E' 7.' >.%<,6 0.6, <6 .4
J1' <6 .7 .<6406 67'<;.68 <,46E,4 / 66.<7'<<4.55.M
/ .<7 ?, 1 .<- 1,< ' / 55 ,<6 .< / '1.0'<> 6.68 5
'11 - .1' 5 =4.'5" -'5.41 >.'<,6 .@?,17'7 ,<68 .< '1M
7 ;5.6 >4 6,5 .7 >.' <>4671 .'>.'5" H1'<;.8 <.'6 . . '
-'<7?'6 " '>.'C ' / 55 ,<68 ,1>1.' ';74.5 >.6
>; :'<J.68 640 7. / .<7'<.'<7 \'<,46'??'4-1 1' 7>.'
?546 .< ?54

('3 (.3(-(.+*3('+0(3 ('3 *$(" 3(*4g
+ ' $*" '$2 3(*," ' '-(23(*,'$*$$(
, *(+ ' ',.+* .,(.' (" +.()+*-$'("0(*+*'-(
.+*3(/(,'+.+44 .,(.' (" +.()+*-$'("- (.$5 ('
3/ (''$(.'/3 (*,' -0+ (' (') -*-$$3(- '
#.(,' ('4.$2 - '#.(,' *' --4+.,'-(' .+*3(' (','3%0+$$3

'4 ?546 0'68 .< 7. / ?6 >.'?' @8 / ,<<' .>.'H1'<;.8
" U)'5 -1.6 ?'1 7,<<.'4% 18 >.4@ ;.<7 / 55.'7,<'
<.'4@ " U)'5 -1.6 E,<7 4<.' / '66.' >.' *' / 55 ,<6
9 8 ' 5 -% .'E1.78 .< '11 -'<7 >.6 7 .68 5 @>' '<'
?546 0'6 " U)'5 -%8 >,<4.'4< 6.; ,<> 0.<.E ;.'?'1. 58
#.' < .67 ?'6 7,47N 5.' ;'0,7'J.' >'<6 5.6 ?,176 >4
1,V'4 / .'6.' / ,<7.' " 4< / 55 ,<>.'7,<<.'4@8 >,<7
5.'; , / / .1;.'> / OE =4.' . / ?,17.'5" / , 7 .8 ;.'=4 '
E' 7 ; <= ;.<7 / 55.'7,<<.'4@ =4 8 '4 ?546 0'6 ?1 @8
" '5 -% ?'1 7,<<.'48 >,<<.<7 .<;,1.' 4< 0.<.E ;.'
>.' ' / 55 ,<6% <6 ' 5.'0.<.E ;.'7,7'5 >4 E1.7 .67>.'
?1.6>.' C ' / 55 ,<6 ?,41 5" <'7 ,<% ,< 6.45. / .<7
5" 6; 66 ,< >.'<,6 ; ,5,< .6 '<.'<7 1' 7 ;.6 ?1,>4 768
/ ' 6 ;.' / '5:.41 5' 66.1'17 .<;,1.' 6'<6 3 ' '
6406 67'<;.' ?546 >.' - <J7 4 5E.' / '7.5,768 'J.<76
?1 <; ?'4@ '.'5"E,1;.'?405 =4.' / '1 7 / .I <,46 6.G
1 ,<6 '466'?1'-.6>.'7,47 .6?, 1>.'E,<>.1Q' / ' 6 4.'
; , / / .1;.'> 1.;7>'<6 5.' ,1>I <,46 ?,411 ,<6 >.'
/ > / .'1.<,<;.1 " 7,47.' ?1, / 45J'7 ,< 1' 6,<<'05.'
> 4<' ;7.' >.' <'- J'7 ,<I ;'1 <,46 '41 ,<6 ?.1>4
>'<6 5.6>.<1 .6 >.6 5 .6 5.6 / ,V.<6 5.6 ?546 #.;,<>6
> .<71.7.< 1' ';7 - 7.'>.6 71'<6?,176 / '1 7 / .6?'1 5.'
-, 741'J.' > '17 ;5.6 >.' ; , / / .1;.'> 4< 71.6 J1'<>'
.<; , / 01. / .<7I J.<1.'> <>4671 .'=4 ' .@; 7.' .,-.'
>.6 <J5' 68 >.6 B,55'<>' 6 ' >.' =4.5=4.6'47 .6
?.<?5.6%>4 ,1>% 34.56 / ,V.<6 1.65.1' .<7 " 5"
H1'<;.'>.'?'V.1 4<.' / '66.'>.'; ,<71 047 ,<6 64E G
6'<7.'?,41 5.6 E1' 6 >.' 6,4 J ,4-.1<. / .<7 .7 ?,41
<7>1.7 >.' 6"> .77.8 '?1 6 =4 ,< '41" 6,4671' 7>.'
5" E,174<.'?405 =4.' ' / 5 ,<6>.'-'5.416 =4 ' ; 1 '
;45.<7?'15.' 71'-' 5 =4 , ; ; '6 ,<<.<7 <,6 ; ,5,< .6Z
.@';7 74>.' >4 7'05.'4 =4.'Q.' - .<6 >.' / .771.'
6,46 ' V.4@ .67 Q465 E ' ?'1 .@;.55.<7 ,4-1'J.'
>. % 14,45> 641 5.6 1.5'7 ,<6 ; , / 1'.1; '5.6 E4M
741.6 >.'5" H1'<;.'-..'7,47.6 5.6 ?'17 .6>4 J5,0.8
.7 ?'1 5" 0'5'<;.'>.'<,71.' ; , / / .1;.' '-..'5.6 .71'<'
J.16% < ()*8 B -,46 " .7 '?1E..<7>'?'1 % ! ,4 '
>'1>8 > 4<.' / '< .1.' '<.57.' .7 6 ';5' 1.'=4 .55.'54 '
" / >1 7.'-,6Q467.6 '??5'4> 66. / .<76% '1 ;.'7'05.'4
Q.;1, 6 '- , 1 >X / ,<71>=4.'5 <7[X7>'< , ; '<7.67
<7 / . / .<75 > " ; .54'>.' 7'78 =4.%;.6 <7 >76 64<7
<> - 6 05.6% ,475.' / ,<>.'6' 78.7 k .@?.1 .<;.'<,46
" '??1 68 =4.8 ?,41 ?1,6?.1.> 5 E'47 '4 ; , / / .1;.'
?' @8 0.17>8 641.7>8 ?1,7.;7 ,<I =4.' 5.6 71,405. '
5" J4.11.'5.'>>; ,41'J.<7.7 E < 66.<7 ?'1 '<>'<7 1%
>'5' 66'<7 '4@ '66. / O5>.6 ; ,5,< '5.6 E" E';4EE>
>.'E' 1.'5.6 5, 6 ; ,<;.1<'<7 .7'7>.6?.16,<<.6 <, <%
E 01.6 .7 .7'7 >.6 : , / <.6 >.' ; ,45.41 .7 <>J1.6
E 01.68 -,46 ?1>-E.<>1.@ 5.6 ?546 J1'<>6 / '5: .4168
.7-,46 >,<<.1.0 '4@ ; ,5,<68>.Q" .;5' 1>6 ?'1 .6
54 / ;1.6 =4.'5" 1.-,547 ,< "1>?'<>4.68 5.6 / ,V.<6
>.'6.'1'??1, .:.1 >.6 J.<6>.' ; , ,5.771I .7.< '77.<M
>'<7 =4.' ,?< ,< 1' / ><.' <6.<6 05. / .<7 .7 6'<6
6.;,466.' "5" ?1'7 =4.'>.'-,6 ?1 <; ?.68 -,46 / '<'
7 .'>1.01:'1 / ,< ..75'?' @86 <> ;.]6' 1.6>)<67,<7
7'78 .7 ?'17 ;45 >1. / .<7>'<6 5.6 ; 1;,<67'<;.6 '
<,46 <,46 71,4-,<6% 5< .64E5 7?'6>51.'Q467.6I '
$E'47 .<;,1.' >71.'-.;'?14>.<;.% " ->1 7'05.'Q467 ;.'
<.'1.Q.77.'?'6 5.6 7. / ?.1' / .<76I .55.6' 7'77.<>1.8
6 8 ?,41 ,?>1.1'-.;'E14 78 .55.'"0.6, <>.6 6.;,<['
>4 7. / ?6N .55.';1, 1' 7 '-, 1 / '<=4>'6,< 047 6 8 .<
E' 6'<7 5.'0 .<8 .55.'< '-' 7 ?'6 >- 7> 7,475.' / '7
=4 5 .7' 7 .<6,<?,4-, 1 >>;'17.18 E1 '?1>6 ; .6 ; ,<'
>>1'7 ,<68 Q.';,<;546 " '>,?7 ,<>4 ?1,Q.7 >.'>.'
;1.7 >.6 ; , / 7>6I .78 -W 6,< / ?,17'<;.8 .7 6'<6
;1' <>1.'5" 1.6?,<6'0 5 7> >,<7 ,'-,46 " ?'17>..'
/ '7 <8 Q.'>. / '<>.'=4.' ,< '05.''4@ -,Q@ ?'1 '??.%
<, / <'58 'E < =4 ,< ? 4 ' ; ,<<' 71.' ,?< ,<>.'
#.4@ =4 ' 67 / 7 _' '7746 >.' <7>1>7 ?405 ;% & < 'Y '
?5'4> 7 5
% K,<.6? ' 7 N [6=4 ,< 6.'?1>6.<7.' " - ,71.'
1 04E5.'?, , 1>.E.<>1.' ; .54'>.'-,6>.;1.56 =, 8 '77
%&BJ. / ;<7>.'5"<'7 ,<8 "5.'?546 : , , ,1.'; .77.' 66. / '
05>.I ?,41 . / ?>.:.1 =4.'>'<6 4< / , / .<78 .7 ?1.6 %

=4.'6'<6 > 6;466 ,<8 > '?1 '>.6 E' 76 1.;4; 55 6 ?'1'
>.6 ?'17 .6=4 '<.'6,<7?'6 .<7 E.1. / .<#>.6 <5>1.66 .6
>'<6 ; .77.' 'EE' 1.8 > '?1 6 >.6>.;5' / '7 ,<6 ?546 .416
E, 6 1.?. 7. .6 .7 7,4Q,416 1.?,466. .6 ?'1' - ,46 >'<6
; .77.' 'EE' 1.8 ,< >5E.-.'%; .<71.' ;.'6V67 / .8 ; ,<E,1 / .'
'4@'>1, 76 >.'5''Q467 ; .8 >.'5''1' 6 ,<8 >.' <7.1>7 <'M
7 ,<'58 4< 6V67. / .'<,4- .'48 E,4>>641 >.6 ?1 <; ?.6
'06,54 / .<7 > EE. 1.<76I '5,16 5.' ?1. / .1 6 .<7 / .<7
=4 ,< >?1,4-.8 ; .65 1.7.<<. / .<7 >.'> 6;47.1 >.G
-'<7 -,46 <.'?'1. 55.'=4.67 ,<I ,<.67 0 .<>5,7J<>
6417,47 >.'?.<6.1=4.';.77.'=4.67 ,< 6,E7 >.Q '?1V4 '
J>.' '-'<7 > '-, 1 .7> > 6;47>.' '-..'5'' ?1,E,<>.41
=4 .5 .' .@ J.% :S E47 5 -1' '=4 ,< >E57 E' 1.'.<;,1.'
>.6 .EE,176 / ?4 66'<76 ?,41 1>;5' / .1 5.6 >1, 76 >.'
:4 / '< 7>8 ; .'6.1' E .<;,1.'4<'>.-, 1 >.'7.6 1>;5' '
/ .1I . .67 ;.'=4 ' / .<;,41'J.1'' ''-,46 ?'1 .1.<;,1?
.7 >.' <7>1>7 <'7 ,<'58 =4 '?'1' 76 ' / >; ,<<4 ?'1 .6
6.<7 / .<76 >.';]4@=4.'Q.';, / 0'768 .7 / > / .'>.'Q46M
7 ;.'.7 >.'?: 5,6,?0 .%

'' ?1. / .1.'=4.67 ,<=4.' ,<>, 76.'E' 1.8 ;.' / .'
6. / 05.8 >'<6 ; .' / , / .<78 . .67 >.'>. / '<>.16 8 ?,41'
'77'=4.1 5.6 >>;1.76 =4.'-,46 '-.0 1.<>468 7 ,<-,46
?1.6.<7.'>. '1' 6,<6 =4 ' < ' .47 .7.' < ' ?1.- .6 <'
> 6;47..6 5,16=4.'-,46 5.6 '-.0 ?,17.6% 1 Q.'- 6 ;'
5.6 < > / .6 / ,V.<6 . / ?5,V>6N > 4<.'?'178 >.6 / '4@
< < 6 =4 ,4 -,46 ?1,<,67 =4.'?,41 - 46 E' 1.'?.41I
>.' '471.8 >.6 1' 6,<<. / .<76 =4 ' <.'?,411' .<7
6,4EE1 1 5.' ?546 >J.1 .@' / .<N 1' 6,<1E. / .<76 >>'
1'.<7 6 ''5''E, 6 .7 ?'1 5.]'1' 6,<6 .7 ?'1 7.6 E' 76%

.';, / / .<;.'?'1 .@' / <.1 .< 71.6 ?.4 >.' / ,76
5.6 1' 6,<<. / .<76 / ,1'4@ .7 ?=5 7 =4.6 '55>J4>6 ?'1
5.'1'??,17.41 >4 ;, / 7> ; ,5,< '5% -,46''.@?,6.'6''
7:., .'641 4< =4.' / ,V.<8 64 -'<7 54 8 >.;,<6.1 '
-.1 5''71'<=4 55 7> .7 5''640,1> <'7 ,< >.6 .6;5'-.6
>'<6 5.6 ; ,5,< .6% 1 5 <,46 '' > 7 =4.' ;.7 ,1>1.'>.'
;:,6.6 7.<' 7 .66.<7 .55. / .<7 .7 .@;546 1. / .<7 ''
.@71> / .'> 67'<;.'=4.';.6 .6;5'-.6 '?.1?.-' .<7 .<'
71.'5.6 05'<;6.7 .4@I =4.;.77.> 67'<;.'> 6?'1' 71' 7
''5. 16 V.4@8 6 '5.]' :, / / .6 >.';,45.41 Q,4 66' .<7
>.6 / > / .6>1, 76 =4.'5.60 '<;6%

,5' '< 1' 6,4<. / .<7 =4 ' .67 '06,54 / .<7 >.M
/ .<7 '?'1 5.6 E' 76 .7 ?'1 5.6 1' 6,<6> '<'5,J .% '<.'
E'47 ?'6 ?.1>1.'>.' -4.' =4 '-'<7 -,71.'>>;1.7 5.6
5 , / / .6 5 01.6 >.';,45.41 Q,4 66' .<7 >.6 >1, 76 >.'
; 7,V.<8 =4U56 <.'Q,4 ' .=7 ?'6 >.6>1, 76?,5 7 =4.6
?'1;.'=4 '5,16 <45 ; 7,V.<< '-' 7 >.6>1, 76 ?,B7 '
=7 .6I / ' 6 56 >7' .<7 >'<6 5'' ;5'66.'>.6 07'<;6 6,46
5.'1'??,17 >.6 >1, 76 ; - 56 >,<7 5.6 ; 7,V.<6Q, 6 '
6' .<7 6.'56 '5,16I ' <6 '5,16 5.6 .6;5'-.6 -,V' .<7
>.6 :, / / .6>.';,45.41 ''4<.'> 67'<;.' <E < .'> .4@8
.7 ;.77.'> 67'<;.'.7' 7;.55.>.5 .6;5'-'J.''5'' 0.17.8
>4 < '<7 '' .@ 67.<;.';-5.N ,1 Q.'>. / '<>.'6 ; .6
<,4-.'4@>1, 76 =4.'-,46 '-.0 ';;,1>>6 '4@:, / M
/ .6 5 01.6 >.';,45.41 / .771' .<7 .<71.' .4@ .7 5.6
'471.6 4<.'> 67'<;.'?546 J1'<>.'=4.'<.' / .77' .<7'
.<71.' .4@ .7 5.6 .6;5'-.6 ';=4 6 7 ,<>.'5'' 5 0.17V .7
>.' .@ 67.<;.';-5.% 1 6 ';.77.'> 67'<;.'< ''1 .<> '
/ <4.'>.'5'' 640,1> <'7 ,<>.6 .6;5'-.68 6 5 .67 E'40
=4.';.6 >..6 ?'1- .<<.<7Q46=4 ''5.41 .6?1 78 < .67 '
S ?'6 ->.<7 =4.'5.'1' 6,<1 . / .<7 =< ,<-,46 E' 7
?,41 .J'1.1 -,71.'Q467 ;.'.67 4<.'?41.' 5546 ,<.7 5.'
1.6455'7 >.' / 'J 4'7 ,<>.6?'17 6'<6 >4 ?14Q,7 =4.'
Q.';, / 0'76% <'< '' ?'6 / '<=4.'> '??4V.1 ;.'6V6 '
7. / .'.@71'-'J'<7 > 4< E' 7 71E. .@71',1> <' 1;N ,<
-,46 '' > 7 =4.'5'' >.;5'1'7 ,<>.6>1, 76 =4.'-,46
'-.0 1.;,<<46 >'<6 5.6 :, / / .6 >.';,45.41''-' 7 .@'
; 7> 44.' <6411.;7 ,< ?'1 / '5.6 .6;5'-.6I ,< ,46 ''
; 7.' ' #1, @>.6 K,4=4.76I Q 'E7 1 / .'=4.';.'E' 7 .67
E'4@&,< / 41 / 41.P8 .7 '77.67.'7,47:, / / .'1' 6,<'
<'05.'=4 ' -, >1'' 1.E5.;: 1 .7 641 5.6 E' 76 .7 641 5''
<'741.' / 1'.'>.6 ;:,6.68 =4.'=4.5=4.6 5.7 1.6 =4.'
,< ?.47 E' 1.' .;1 1.'6,< J1 '< '41,<7Q' / ' 6'4'
7'<7 >.'?, >6 641 5.6 ?.16,<<.6 1' 6,<<'05.6 =4.';.'
E' 78 ;,<<4 >.'7,47 5.' / ,<>.8 =4.'>'<6 5.``;,5,< .6

<455.'5.771. ' >.?4 6 ,1 J <.'>.6 ;,<7.67'7 ,<6 =4.'
5''1.-,547 ,< ''E' 7 <'571.' .<71.'5.6 05'<;6 .7 5.6 :, / M
/ .6 5 01.6 >.';,45.418 <.' ?.47 ?'1-.< 1 '4@:, / M
/ .6 >.';,45.41 6'<6 '-, 1 .7.'>.;';:.7..I . .67 '<
E' 7 <,7, 1.8 #,<<4 >.'7,47 5.' / ,<>.8 .7 =4 ' .67 0.'4 '
;,4? ?54]';.17' < =4.'5.6 E'05.6 =4.' ,<>.0 7.'?,47
'??4V.1 5.' 6V67# / .'>4 ;, / 7.% & < '??5'4> 7 >'<0
1.@71. / 7# J'4;:.%P <<.'?.164'>.1''Q' / ' 6 5 ?.1 '
6,<<.8 Q.'<.'> 6 ?'6 6.45. / .<7 =4.'5.6 >.;1.56 >.'
66. / ?5..'<'7 ,<' 18 / ' 6 / X / .'5.6 1.5'7 ,<6 >.'
;.6 >.;1.76 '-.;'5.6>1, 76 >.';7,V.<68 ?4 66.<7 >,<'
<.1 >.6 >..6 '66;0 <.77.6 '' >.6 :, / / .6 '0147 6 ?'1
.6;5'-'J.8 =4 ' ,<7 71.6 ?.4 > >..6 ,4 =4 '< ,<7
=4.'>.6 > .6 '06,54 / .<7 .71'<J.1.6 2 ;.55.6>,<7 5
6 'J 7 . ';.' / , / .<78 ?,415.6 .<J'J.1''1, / ?1.'7,47
U 5''E, 6 .7 5.416 '<. .<<.6 :'0 74>.6.7 ;416 ;:';. .6%
.6 ;,5,<6 6 <7 <> J<>68 > 7 ,<8 >.';.'=4.'-,46
'-.0 - ,5.'5''E, '=7 .'-,46 5.41 '-.0 >,<< .' %%% ' 6
=4.5 :, / / .'>.'0,<<.'E,'?.47 6,47.< 1 ;'=4.8 ?'1
'4;4< >.'-,6 >. .1.768 -,46 '-.0 ?1 6 '-.;'5.6 ;,5,<6
.<J'J. / .<7 >.'>.?,4 55.1 5.6 <, / / .6 5 01.6 >.'
;,45.41 >.'5'' =4'5 7# >.' ; 7,V.< ';7 EI =4.'-,46
'V.0 ?1, / 6 >.'<.'1 .<>#; .7.1 U ;.7 . J'1>6'<6 5.'
;,<6.<7. / .<7 .7 < 7 '7 -.'>.6 ;,5,<6 05'<;6Z 3< ,<
/ .'5.';7.';.'>>;1.7N .67 ;.';.54 '>4 C)' / '16Z .''
;. 5 ;.54 ' =4.'Q <-,=4.'?,41 1.;5' / .1 5'' E,'=4 '
'-' 7 >7.'>,<<>.'U7,46 5.6 / . / 01.6 >.';.77.' 66. / '
05..%

.'1'??.55.'U 66. / 05..'=4 '5,168 .< .EE.78 =4.5M
=4.6 ?.16,<<.6 .41.<7 >.6 <=4 .74>.68 <,< ?'6 641
5.'E,<> >.'5'' ;:,6.8 =4 '<.'?,4-' 7 ?1.6.<7.1 '4;4<.'
> E ;457.8 / ' 6 641 5.6 <7.<7 ,<6 >.';.4@=4 ''41' .<7
4 >; 6 1.1 E'-,1 6.1 5.6 ;,5,<6 05'<;6 '4@>>?.<6>.6
, / / .6 5 01.6>.';,45.41% 56 / '< E.65>1.<7 ;.6 <M
=4 .74>.68 .7 >. / '<>>1.<7 =4.' 66. / 05..'>.;5' '
1 7 =4.';. ' / ,76 <.'1.<E.1 / ' .<7 =4.'5.6 .6;5'-.6%
< 1>?,<> 7NW #.5'' < .67 ?, <7 <.;.66' 1.I 5 .65
0 .< .<7.<>4 =4.'5.6 :, / / .6 5 01.6 >.';,45.41 < V
6, ,7 ?, <7 ;, / ?1 6 IY .7 . .67 641 5''E, '>.';.77.' .@ '
?5 ;'7 ,<8 =4 '< .7' 7 ?'6 / > / .'<.;.66' 1.8 = .'7 46
5.6 / . / 01.6 ';=4 .6.>1.<7 '4 >.;1.7 =4 ' -,46 E47
?1. 6.<7>'?'1 5.' / > / .'1'??,17.41 =4 ' -,46 ?1.6.'7.'
;.54 # %

'N #.'E'77.67 '06,54 / .<7E' @%
'3 ' 'I .'>. / '<>.'5'' ?'1,5.% .'<;'#,<M
7, 6 ?'6 ;, / / .<7 % K'1<'-.' ,6.'< .1 ;.'E' 7% .'
C)' / '168 ;.'E47 / ,'=4 '>. / '<>' '=4.'<, / <'7 -. '
/ .<7 5.6 J.46 >.';,45.41 E46 . 7>.<, / / >6 >'<6;.'
>. ,1.7% '.67>.'E' 7 =4.' %K'1<'-.' / .> 7 54 / / .'
=4 S <.'5.6.?''-' 5 ?'6 .@;5,6I .7 5 .67>.'E' 7 =4 '4
/ , 6 >.' / ''>.1< .18 '?1.6 0 .<>.]' <7.1?.55'7 ,<68
% K'1<'-.''' .7.',05 J.'> .< E' 1.' '-.4 54 / . / .%

9 A4, =4.5.'E' 7>,<7 5 6 'J 7 4 <7. '
1.66.'?'6 5'' >.5 0.1'7 ,<';74.55.8 '57.<>4 =4.'. .67
4< E' 7?41. / .<7 ?'17 ;45 .18 .7=4 %< <7.1.6].'?'6
66. / 05..8 Q.' , 6 > 1.;.'=4 ' .67 -.1 7'05.'.7 ?,41 '
=4,'Q '' <7.11, / ?4 ,? <'<7% ' .67 >.4@;1;,<'
67'<;.6=4 5 E'47 '7 ,5< / .<7 > 67 <J4.1% ' .67 -1''
=7E.8 641 <7.1?.55'5 ><>.' %!1.J, 1.8 =4 '1,.'>. '
/ '<>'' 6 '17 ;5.'.@;54' 7 5.6 :, / / .6 >.';,45.418
Q.'54 '> 6.<'?'17 ;45 .18;, / / .'Q.'5.'> 1' 6.<;,1. '
=4.' '17 ;5.'< .<7.<>' 7 .7'05 1 '4;4<.' .6? ;.'> . '
?1.04J.'?,41 ,4 ;,<71.8 < .EE.7 <,46 < '-,<6 .4 '
,V.' 4< <1,>.' >.';,<-,;'7 ,<8 >.;5'1.'?1,-6, 1.'
?'1 <,71.'>.;1.78 =4.'>'<6 5.';'6,<5.6 '66. / 05 .6
;,5,< '5.6 ';74.55. / .<7 .@ 67'<7E6 <.'6.1' .<7 ?'6
/ ' <7.<4.6% '1 5.' / / .'>.;1.7 <,46 '-,<6 > 7 =4,'
5.' / ,>.'>.';,<-,;'7 ,<?1 6 >.';.54 '>.'5'' '17 < M
=4.' 7' 7 =4.'?1,-6, 1.8 .7 ?,41 ;.77.'?1. / .1.'
/ 68 >'<6 5.' ;'6 ,: E'66. / 05..'?.' 6.1' 7 ?'6
/ ' <7.<4.8 .7 =4.8 ?,41 5.'> >< 7 E .7 ?,41 '-., 18
;.6 / / .6 '66.<4EE .6 E.1' .<7 5.416 ?1,?,6 7 ,<6
641 5'' 7,7'5 7 '>.'5'';,<67 747 ,<8 .7 <,7'7< E7<7 641
5.6>1, 76 >.';7,V.<';7 E;7 > 5 J 0 5 7 %

[illegible]

.7>.<1,V.1'>'<6 '=4.';,5,<;'>>6.,/,/ 66'1.6;,<;'
5'7.4168 1.- 746>.'7,47?,4 ,1<7..66'1.'?,41 7.1/'<.1
7.6>E >1.<> '?'6.15.6>66.<6,<68 .7 1>7'05 1>'<6;.6
;,<1.6 7,1>1.'.7 "71'<=455 5> <>6?.<6'05.6 05.'16
71'1'4@.7 07.'1'?1,6?>15>%

$ "% 34.'7,.7.6 5.6?.;,6. 67[7'<;,/7>;,5,<'5
6.1,<71./6.68 641'<7 .'1<'74 .G?'1&;45S01.8 ',6;,'
/5>6>.' /'1<.8>.';,//.1;'.7>'J1;<5741.8=4'.<
E.1,<7 ,6'J.'<.;.66'1.?,41 5.416 ,?.1'7,<68 ,<7.'>G
\?97;, .<'07.'>'06 6'>-.16'>.?'17./.<76>4 /<6G
71.%Y

F'1 'N <<.'?.<7?'1-.<1 0>7'05 15"?'@=4.<
6'7 6E'6'458 '45'<7=< 5.67?,66 05.8 7,<65.6?'17 6f 0.>.'
/'<>.'>,<.'=, 56,5'0,47.05'17% 558?'1'/. >./.<7N
" '<6<>'</,<6=4.'7,<65.6:,//.6<>6 5 01.6?4 66.<7
.71.'?1-.6%>.6>1,76 >.';7,V.<6';7 E68 6556 1>4<66.<7
>'55.416 5.6;,<>7,<6;,//4<.6%G '15.6#,<>7,<6
>.5J05 7.8 5.6 '66./05>.6;,5,<'5.6/'47.<>1,<7 <'
7.1/.>'1.'=4.' ,<>7 .71.'<>..66'1.' '<6V67>/.'>.'
;.'?'V6% $

% 4?,<7?1>6.<7.'4<?1,E.77.<>'<7 0 01.'>>.1>7.1%
=<.'7,46 5.6?,176 >.6;,5,<.6 6.1' .<5,4-.176'4@1'56'
6.'4@ .6?'J<,56.7>.6 7'76 <68;0' >6>.';,/.67 05.68%
>. '1<.68>.'0.65 '4@ .7>.'/'7>1.6 0 005 18 /,V.<<'<7
<=.'1.71 047,4=4.;,<=4.%
"?1,17.' .67 ';;,1>>.'4 ?1=0.7>.'>>.1.7>.';,G
7< >6% $
.6>.4@?1./ .16'17;5.68'';;.66-./.<7/6',@71,@8
'>,?7>6%

$ 17% F% 66./05>.<'7,<'5.'5.J 65'7-.'6'54.1" A
>46-./.,78 '-.'5"6'<;7,<>41,8 641'5.'1.J/.'.@5>G
1.<1>.6;,5,<.6% <#,<6.=4.<;.8 .55.E.1"N G5.65,76
=4'1>J5.<75.6 1.5'7,<6;,//.1;'5.6>.6;,5,<.68;.55.6
=4'.<'6641.?75.'/'<7.<?'1 1>5'05 66./.<7>.6/,V.<6
>.'641-.55'<;.8 5"?,4164 7.8 5.04J./.<7.75" ?4<7,<
>.6;,<71'-.<7,<68 .7;.5.6=4'J'1'<5 66.<7 .@>;775,<
>.6.<J'J./.<76 .<71.'5.';,//.1;'.7 5.6:'0 7'<76>.6
;,5,<.6f Cp 5.65,6=4';,<#.1<.<75">.E.<6.>.6;,5,<.68
.75.6?'17.6/57'1.'.7'>/<671'7-.'>.'5"&?.11.' .7>.'
5"/'1<.% '

W '3 ,'66./05>.6;,5,<'5.6?,411,<7 0 1.8 6<1'5.6
,00.768 7,47.6>.74' >.6.71.?1.6.<7'7,<6f /'6
.55.6<.'6.1,<7;<6>>1>.6=4.;,//'.>.'6/75.6?>7G
5,<68.7<.'?,<11,<5>71.';,<- 17 .6>4<6 5.6;,5,<.6.<
1>J5./.<76 ?1,-6,1.68 6'4E<.'</,<6 5.6.@;.?7,<6.@'
E1',1><'1.6.7/,/.<7'<>.68 1.5'7-.6 0 <71,>4;7,
>.6 6406 67'<;.68 5.6=4.55.6?,411,<7'-,1 5.4 0 1'6,<
>4< 0.6,<?1.66'<75 '5./.,5;,<67'7.8.7>'?1>6 4<
'11>7.'>.6'66./05>.6;,5,?'5.68 '??1,<->?'1 5.6 J,'-.1G
<.416%Y
% '1<'-.E'75.;7<1.>.5'1a;5.55
W % .65,6;,<..1<'<714 '7>.6?.16,<<.6<,< %
01.6.7 >7'7?,57=4.'>.6 0,//.6>.';,45.41.7<>J1.6 5G
01.68 '<6'=4.'5.6 1.J5./.,76 1.5'7 E6 0 .@>;47,<>.';.6
/><.6 5,68 6.1,<7 E'7.6?'1 5.6 '66./05>.6;,5,<'5.68
6.@>;47.1,<7?1,-6,1./.<7'-.;' '??1,0'7,<>.6J,4'
-.1<.416>.6;,5,<.68 .7 6.1,<7?,17>.6>1..7>/.<70 5"
'<;7,<>,'1 8 6'<6=4'<;44>.;1.7'<7>1 .41 ?4 66.'?,10
7.1,07';5.'' 75.< .J.1;.'>4'>1,7;<6.1-.'?'1 5.'?1.M
6.<7'17;5.'4@'66./05>.6;,5,<'5.6%Y
<>./'<>.'0J1'<>6;1 65" =4.67,<?1>'5'05.'641;.7
'17;5.'>'<6>-.16.6?'17.6%>.'5" 6'55.%
% '1,;0.E,4;'45> <667.'641 '/.<>./.<7>.' %H.1'
/, %

B N#.'6.1'7?.1>1.'7,46 5.6'-'<7'J.6=4.'
,46 '77.<>,<6>,'>>.1.76,4/6 '-.71.'>6;466,<8=4.'
>.'?1.<>1.'641 <,46 5">.;6,<>.'5"=4.67,<?1.04J>.'
?'1 '/.<>./.<7>.'B%H.1/,4% '>./' >.=4.8?,,1
<.'5'66.1 '4;4< >,47.'641<,6 <7.<7,<68 56,5'0,47.'
0 '17,5.' 8 '?1>6#.6/,76 6W'66./05>.6;,5,<'5.688
#.4@;'6$';74.55./.<7.@67'<7.6%;7=4'5.41 64.;>>.1,<7%Y
<>./'<>.'5"=4.67,<?1>'5'05.'641 '/.<>./.<7>.'
%H.1/,<% % %

% .1-'<G -'<7>.'>>550>1.1 6<1' '77.<>./.<7>.'
B8 H.1/,<8 5E'47/.771.''4@-,@5"=4.67,<?1>'5'05.8
V>;5'/>.'641 '17;5.'>4';,/7>%
''( ),-(-(35-(5 $,8 $(')'-(@)(.(.' . +.$/$*!'
-('3 $,-'/ !
'$'(,& ' '% -'4&-'$B' , !'(&%$%B$',

>?1.4-.'?'1'7>,,7.46.'1 6./<..'.67>'<65"
?546--.'J7'7,<f4<=4'17>:.41.'6.'?'66.'>'<65.'54'
/457.%

<>./'<>.' '??.5<,/<'56<15"=4.67,<?1>'5'05.%
% K '0'6N ,41,11-.1'4 047>4<.'/'<>1.' 1'<G
;0.'.75,V'5.8 5E'47?,6.1<.75./.<75"=4.67,<8.7E'1.'
.<6,17.'=4.'7,475.'/,<>.'?4 66.'?<.18 '/.,>./.<7
>.' %H#1/,<?,17.'6/?5./.<7N W5.6?.16,<<.6<>.6 %
01.6%Y ,16=<.';.57.'=4.67,<">>'J7>.' >'<6;.57.'
66./05>.8,<">./'<>=4 5 E07>7N '<>.6>.'?>1.'.7
/>1.'5 01.6% ' .'>./'<>.'=4.'>'0,1> ,<'55.''4@-,@
641';.57.'?1,?,67,<8

'1 'N '>,?7.' '/.<>./.<7>.' %K'101.8 .70.'
1>>J.''<6'/,<'/.<>./.<7N W '<6=4'4;4<;,//.'
<>>.'?>1.'.7/>1.'5 01.%6?4 66.'>71.'?1->>.6>1,76>.';'
7,V.<';7#86 51>4<7>'55.4165.6=4'57>6 1.=4 6.6%Y
46 J?16 /./01.6>.' .@71>/7>>.'5" ?'17.'J'4;.;
>./'<>'<7=4,<?1,.>>.0 '??.5<,/<'58<,<?'6641
5"=4.67,<>.'6'-,1 6 5V"5 .4 0 >>5 0>1.18 /'6641'5.'
E,<>>.' '/.<>./.<7>.' %H.1/,<8
% '<>1>8 #0'?.5 .1 .7 ?546 .416 0471.6 /./01.6
,??,6.,70;.57.'?1,?,67,<%
<E5<8 '?1>6>.'71>6 5,<J6 >>0'768 '??.5<,/<'5.67
;,//.<;.'641'5" =4.67,<>.'6'-,1 6 5V'5.<0>>5 0>1.1
641 '/.<>./.<7>.' %H.1/,<%
41 99 '-,5'<768 (9-,@6,<7?,,1 'EE1/'7-.8.7)*
?,41 5"<>J'71.%
66./05>.'>>;>.8 0 4<.'='E,1 >>.'5 0'-,@8=,B
<V "?'65.4 0 >>5 0>1.1'41 '/.<>./.<7>.' %H.1\
/,<%

% > ,@N " /'0,17> >.' 66./05>.' .<7>.'?1,G
<,<;.1 6 1<<?,<7 /?,17'<7 8 0.'54',0>1''f/'6 5.67
.<;,1.'4<.'=4.67,<' /?,17'<7.'=4'<"?,<7>>0<J>.N
..67;.55.'>.'6'-,1 6'5.6 5,6=4'?,411,<7>71.'E'7.6?'1
1'66./05.;,5, '5.'641 >7'7>.6?.16,<<.68?'66'<7 0
5"6'<;7,<>41,8 <.'6.1,<7?'6 6,4/6.6 '466 '4@7>J 6G
'541.6f 5/.'6./05.'=4.8 6'-,46<.'-,45.0?'6'57.1?546
5,<=4.'<.'5.'>./'<>.<75.6'66./05>.6;,5,<'5.6 .55.6G
/>/.68 .7>>;5'1.1 5.41 <>>?.<>'<;.8-,46<.'?,4V.0
?'65.6 6,4656'1.'0 5" 64?1>/'7.'>4';,1?6<'7,4'5% %

% ,? '' '17;5.' '?,15.''77.<7.'<@>>;1.76=07'
;,<65'5.<71'<7>8>,'1,V'4/.'>.' H1'<;.' .7'0,5 66.4'
7,,7.'>67<;7,<>.'<'66'<;.%

B% '7K K1' '-,465'66.@'4@'66./05>.6;,5,<'5.6=
K0.17>'06,54.'>.'67'74.1 6415>7'7>.6?.16=,<.68 7.67
?,66 05.'=4 .55.6 >7'05 66.<7 5.671,6 ,1>1.68 .7=4.'5.6
?1>04J>6 '55.<769 1.71'<.:.1'>'<65.6;,5,<.6%

'N G'> 0>78 .70.'1>?>7.'.<;,1.8='08 6'
<7'5-.8>./'<>.8?'75.6 '66./05>.6;,5,<'5.68?,4'
-'7>71.'V/17>.'.<647.'4';,1?67 65'7E8 0'/'6.55.6<.'
?1,?,6.1' .<71.<6<15>7'7>.6?.16,<<.68 .>./''>.=4,<
/.77.' '4@-,@5"=4.67,<?1>'5'05.'641 "?1,?,67,<>.'
% >7,<8.7=4,<7;1/'<..<E<>.6>6;466,<6.,<71'G
1.6 05" >>'1'7,<>.6 1,768=4',?7>>007a=1';'<6>>.

' 66./05>,'>>;>.'=0G5<V"?' '5 .4 0 >>5 0>1.1 641 0
?1,?,67,<>.' % >5,<%
8 K'1<'-.'E'7 4<.'6.;,<>.5.;74 '>.' '17,5.'B 8
% 0 '7 .'>./',>.=4'4'/,,68?,,1 =4.'5"
6'<;7,<>4'1,'<.'6,7?' 5546,1.8 .<E@.'4<>>5''
.@>;47,?1,- ,1.'>.65,6E'7.6?'1 5.6'66./05>.6;,G
5,<'5.6%

% K K 7-'N '>,?7.';.7'/.<>./.<78 .7 0.'1>>J.'
'<6' '17;5.'f W .65,688%6.@>;47.1,<7?1,-6,1./.<7
?.<>'<74<'<>'<65.6;,5,<.6'/>1;'<.68 .7?.<>'<7
>.4@'<6>'<65.6;,5,<.6'6'7=4.6%G
'17;5.' '.67'>,?7>'-.;';.7'/.<>./.<78
% K'1<'-.'E'55.;741.'>.' '17;5.' % $
' - % 34'<7'4@E,1/.6 0 64-1.'?,415";,<E..7.<>;"
5,6>41.J/.' />1.418=4'<.';,<;.1<.<7?'6 >7'7>.6
?.16,<<.6>>6J<>.6>'<6 '17;5.'; >.66468 .55.66.1,<7>>\
5.1/<>.6?'15.'?,<-,1 >J65'7E8 '<6'=4.'5.641?546>?
1,1J'<6'7,<>.6;,5,<.68 '?1>6'-,11.=45.-;,4=4.'5.6
'66./05>.6;,5,<'5.6,<7>7>'47,16>.6 0.@?1/.1 64.'5"
;,<67747,<8
5;67'>,?7>%
"6>'<;.'.675.->.'0 6";.'1.)'<'/5.<>J6-,5;,76
/<1/41.6>.6 71 04<.6% $ $%

HHW

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[illegible]

[illegible]

[illegible]

'! (' ' ' ' C 4 ' +' 5 .67
c\'6694<6<J45 .1' <; >.<7 .<71.'5"E5,77.'>4' ; : . - '5 .1' / ,'
.7 4< <' - 1.' E1'<E' 6' =4 .55.' 1.<; ,<71'8 ?,17'<7 5.' ?'-B'
5,<>;'5"<'7 ,<8 ' ; : . - '5 .1'E 77 1.1'71, 6' ; ,4?6 >.' ; '<,<
?,41' .<J'J.1' ' ' / .<. 8 .'<' - 1.'E1'< ' 61.<> 75.671, 6'
8 ; ,4?6 >.' ; '<,<8 / ' 6'<' / .<"?'6 .' ; : . - '5 .1'7 1" 71, 6'
'471.6' ; ,4?6 5.' H1'<E' 6' 1 ?,<> 7 ?'1'>,40.' '471.6.7
<.' ?'147 ?, <7 ,<; ,1, ' : . - '5 .1'7 1" 4< >.1< .1'; 4?
?,41' ' - .15 1' 5' =43' 5.' ; '?7' <.'E1'<J' 6'<.'>,<<"?,' <7
>.' 1#?><6.8 4 ' 6 5 - <7 .: '0,1> >4' - ' 66. '4' ' / '5 . ; 0.G
'55.1' / ,'54'>. / '<>" ? 41=4,' 5'< ' - ' 7 ?'6 ,0 '> 6 >
?1. / .1' 6'5471' 5.' H1'< ' 6 1#?,<> 7 N W , 1.' @; .55.<; '
'41' 7 >#7; ,<<' 71.8 ?'1'5.6'5, 7 =4.' Q ' 1.<>48 .?' - 5\'
,< >.'5"<'7 ,<E1'<E' 6. +' .'<.' ; ,<<' 68 1>?5 =4.' ' '
< 1'58 ?'1 / '5.6 <' - .6 E1'<?' 68 >'451.' ?' - 5 ,< =4.'
; .54'>4' 1, " >>.6646 5.' ; '?7' <.'E1'<?' 6 6.' 1.7 1" '
6,< 0,1>8 .7 ; 66" 5.' ?' - 5 ,< >4' 1,4' 5,16 5.' ; : . - '5 .1'
1.<> 7 5.' 6'547 >.'>,40.' ; ,4?6 >.' ; '<,<8 . ' 66"5.'<' - 1.'
1'< ' 6 ?,4164 -1.' 6,< - ,V'J.

'8 ' ' C9 ' +' B .1' > / '<; : . ' ,< "
; : '<7>'>'<6 >J5 6.' / >71,? ,5 7' <.'4< ' ' ' < ' ; 7 ,<
>.' J1' ; .6 >.' 1' ; : 0 - . / .<7 >.'5" ; ,<67 747 ,< .5>.' ' ; : .?'
7'5 ,< >4' 1, 5'<.'>.?47'7 ,< >.' 66. / 05' .'<'7 ,<'5.8
5.6 > .; 7.4168 5.' >>?'17. / .<78 5" / 4< ; ?'5 5>8 5.6 04J.6 >.6
71 04<'4@ >.' '1 6 3' ,<7 '66 67>I' >->=4.' ' ,EE5; >
#:'15.6 B.1- .1' &; >.-'<7 1.5 J .4@ '4J=67 <P " ?1, '
<,<.> 4< > 6; ,416 =4' " >7> 71> '??5'4> 8 .5 >'<6 5.=4.5
,< 1.71,4- ' ; '7 ,< > ,1 J <'5 7> =4' > 67 <J4.'7 ,<6 5. ' ,4
-1'J.6>. ' B.1- .1 .6 6.<7 / .<76 ?'71 ,7 =4.6#@?1 '
>6 >'<6 ; '> 6; ,<16 ,<7 >7> 6' 6 6 ' - .' <5:<46 '6 / . ?'1'
5.6 '4> 5.4168 .5' ,<7 6.456 1, / ?< 5.'6 5.<; .' 1.5 J .4@ =4' "
>7> ,06.1->?.<>'<7 ; 7.' ; >1> / ,< ,
6, 1' 5' V " .4' 554 / <'7 ,< '<@ 4 .1 .6 .7 '4@
#:' / ?6 5V6>.6I' ; .=4.'5.'7. / ?6< ' - ' 7 ?'6 ?.1 / 6 >' ; . .
- .1'?,41'5.'> / '<; ; '>'4?' ; ' - '<7 ' - ' 5' >7> : .1 5' .67
/ ?,66 05.' >.' Q ,4 1' > 4< ?546 0. '4 6?.; 7' ; 5.' =4.' ; .54'
=< ,EE1' .<7 ; .6 >.4@ ?1, / .<'>.6 "?5' ; ' ,4 6 " ' >7' 7
>; 5' 1>.' ?'1'4< 71>6 J1'<>'<, / 01.'>.'?V1' / >.6 ; : '1J>.6
>.'5' / ? ,<6I 5"67'74.' / >77..<>5' 7 J'1 >.'7 ,45.6 '176
.' ; : '7. '4 >.6 4 .1 .6 >7' 7 >>; 1>'- .' 5.' / . 55.41'
J,7 7 .6 54671.6 J'1< 66' .<7 5.6 '1; '>.6 >.6>. @ J' .7 .6
5'7.1'5.6 >4' ?>1 65V5.' Q 5.6 7.11'66.6 '>; 6 H.4 55'<56 .7>.'5"
1 - >1.'>7' .<7 ; ,4- .17.6 >.' ?V1' / >.6 .< E,1 / .'>.'5V1.8
.7 1>4< .6 ?'1'>.6 0k4 15'<>.6 >.'5'<5.1<.68 ; '=4' >5'E7 >4'
?546 ; .41.4@ .EE.E
.6 #:' / ?6 5V6>.6 >7' .<7 .<5 >1. / .<7 554 / 5<>6 #0' '
=4. '101.>.5 <5>1 .41?,17' 74< 5' / ? ,<I >.6 ?V1' / >.6
1>6 >5.->.6 >.5' 1' .<5' ; .77.' - '65.' ?'15 .'>.' .<; . <7.'>'<6
5'=4.55.' '<V' " ?, <7 >'101.6 .6 ?1; : .671.6 <, / 01.4@
>7' .<7 > 6?,6>6 ?,41'5.6 ?.16,<<.6 =4' - ,45' .<7 >'<6.1
4 / 5 .48 4<.' ; 5,<<.'>.'E,1 / .' ; ,11>.8 7,47.'>.'E.48 6>'
5.-'5 " 4<.' ; '47.41' ?1,> J .46. .6V / 0,5.' >.' <, 1.'5 '
0.15>' ; ,41,<<' 7 5" ; / . #>5' 7 '47,41'>.' ; .77.' ; 5,<<.'
=4.' 5.6 1,<>.6 ; - =4.6 >7' .<7 5.6 ?546 <, / 01.46 ; 6 .7 5.6
?546 '< / ..6 ' 1'<'7 ,<'5 ' +' >7' 7 6,4- .<7 1>?>7>
.@71> / 7> >.'5" 1,47.' =4' ; .<>4 7 0 .4 5V8 '4 5 .4
> 7 5, 5.8 ,< ' - ' 5> .->4<.' ?V1' / >.' '4 0'6 >.'5'=<.55.'
5 V ' - ' 5' 4< 71'<6?'1.<7 ?,17'<7 5.' / ,7 ; ,<67 747 ,<8 641'
/ ,<7>> 4< >1'?. '4 '4@ ; ,45.416 <'5 ,<'5.6
1, .7 6" E' / 75.'6,<7 - .<46 - .16 >@ : .41.6 0,4 1' >4'
0.'4 6?.; 7' ; 5.' =4 ,EE1' .<7 ; .77.' 64?.10.' 554 / <'7 ,< .7 .'
; ,<; ,416 <, / 01.4@ >.6 ; 7,V.<6I ; ; ;4< 6.' ?1.66' 7 '4 '
7,41'>.'5" - ,741. .6 ; 1 6 >.' ' +' / >>6 0 ; ,4@ >.'
; ,<67 747 ,<R 6.'6,<7 E' 7 .<7 .<>1.
641'7,45.'5"1,47.' =4.'5.' ,15>J.' " ?'1; ,414. .' ; .5>7' 7
6.1.< .5 ; ,<71 04' 7 0 '4J / .<5.1' 5" 0. '47>' >.' ; .77.' E.7.
; - =4.8 ,'5 11J<' .<7 5" ?546 J1'<>.'>J'5 7> .7 ; .77.' J' 5.'
E1'<; : .' .7 ?' 6 05.' =4' .67 >J'5. / .<7 >5, J4>.' >.' -1.66.'
.7 >.' <> 5E.1.<; .

'/ ' ' ' ' '8
.'C9 '.?7. / 01.' *
H' ' - ,4 <8 / ,<6 .418 / '1=4.1' / , / > / .' ?'1' 4<.'
E>7.' ?405 =4.' >?'=4.'>.' ; : >- . / .45 >.'5" ; ,<67 747 ,<Q
/ ' 65" 1. <.' .7 / ,' <,46 <,46 6J / / .6 ; ; 4?>6 .<
7. / ?6 >.' <5>1>7 >; 6 ?'4-1.68 =4'<.' ; .66.1"Q' / ' 6 >>'
71.' ?1>6.<7 0 <,71.' ; / 41 ,46 ' - ,<6 >.67 <> ' ,<.' 6,1, / .'
>; 8 '5 - 0 5.41'6,45'J. / .<78 .7Q ' ; 1=>.-3 1'E 46

; : ' <.1' > .<E' 1.'5" > 671 047 , ' .<71.'5.6 >5 >1.<7.6 6.;M
7 ,<68 '1' 6,< >.'5.416 0.6, <6I Q .' 64 6 ?.164' >>=, .' - ,46
- ,46 ' ; =4 77.1.b >.' ; .'6,5" >.'5" / '< >1.' 5" ?546 ?1,?1.' 0
1. / ?5 1' / .6 <5.<7 ,<61' & ' ,?6 S
K 'B B B "K0 5>']' ' 5 '
9 K
' '8
'CU8 .01V +' 'C9 +' 8 #,<>,1; .7
$ '0
E .5 / '68 ?1, ; 41.41' J><>1'5 6V<> ; '>4' >.?'15.'
/ .< I'K'65 >.8 ,40. 1'<8 ' <7 1 @8 ' ; 0.18 / . / 01.6 >4'
> 1. ; 7, 1.I' '5'> .18 H1.66.<.58 : , / / .6 >.'5, I' .0,458
- ; . ?1>6 >.<5 >4' >>?'17. / .<7
! ' / ,<8 ; , / / .' >.'5, I' 0 5: ,< '8
1 0.8 04J.' >.' ?' @ .7 <,7' 1.I' K,6; 55.<.4- .8 ; >.-'<7
#,<6. 55.1' '4 0' 55 'J.'>4' 0,=1J> 1J.<7'5
8 ' <,' ' <7 '17 <8 >>'
?47.' 0 66. / 05>.'<'7 ,<'5.' ; ,<65 74'<7.8
5' '1', ,
% !! 5' #:' - .'48 / . / 01.'>4' > 1. ; 7, 1.
'0'7 .18 0, / / .' >.'5, I' / '4>'
#,67.8 'J1 ; 4 7.41
8 '& A & ' ' K, 66V > <J5'68 >>?45>
0 66. / 05>.'<'7 ,<'5.' ; ,<65 74'<7.

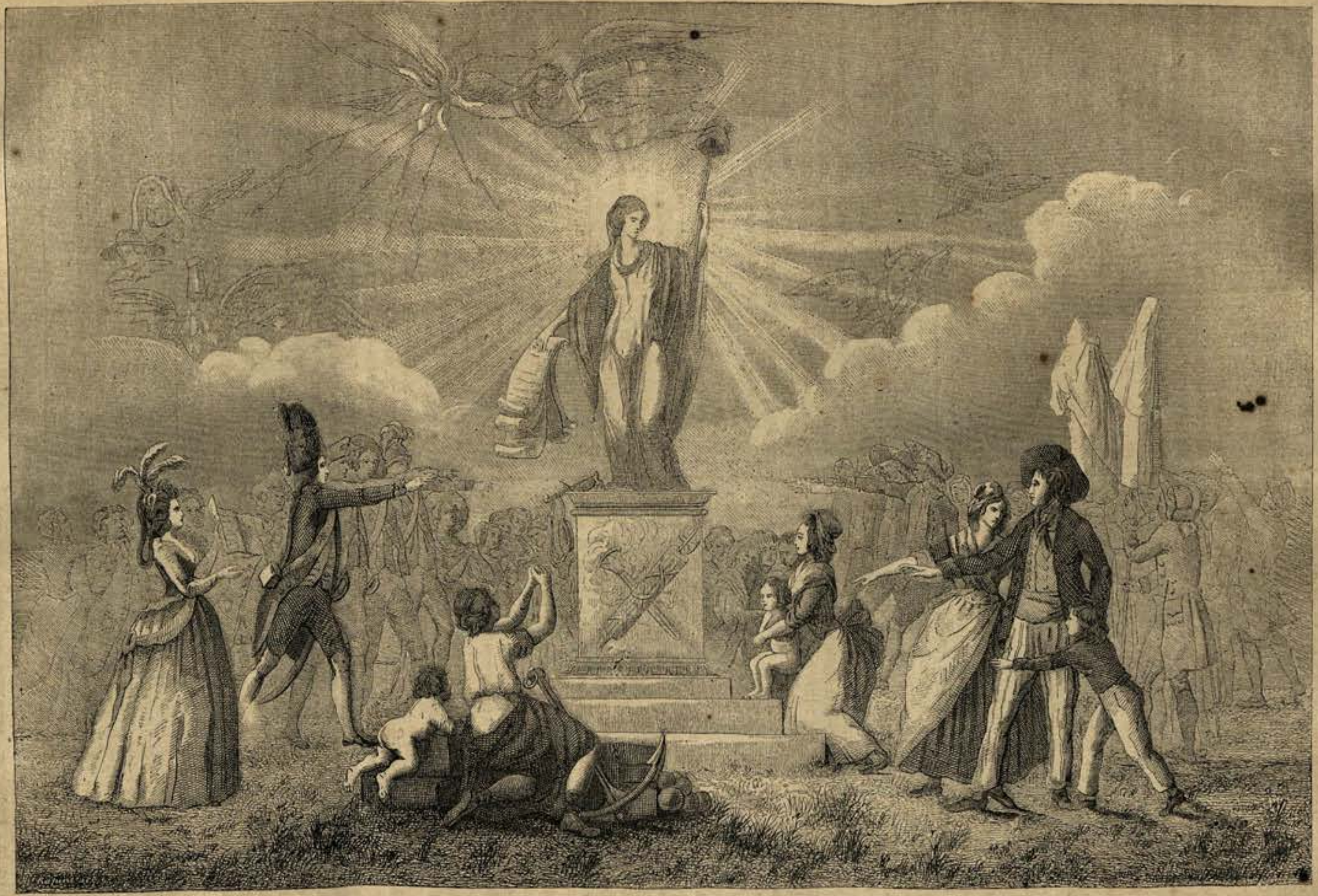
' b
' ' ' ' '64 - > - / ?1, 0.7 >.'5,' .5 >4<7'M
05.'4 >.6 46'J.6 >.'7,<65.6 ?'V6 >.'5"7.11.' 641'5.' / '1 'J.8
' - .' ; .77.' .? J1'?: .' S
" 5, ' *(' .(3 **+, ' ?546 - ('03' 2 1.5 J .4@ <' '7 ; <<+ , .('
.7J'J.< .<7 =4' 6.1' 7 3 *, .+$.(' '4@ - . $," *+,$$.(" ,4
" 5" 3 *' ,$, ,$ *' d 6G ! & E
34 .67 ; .' =4 << - ,4Z < .<J'J. / .<7 11.- ; '05.I .7
5 (' , ('=<0 5.' 5 ,< - '<, '1 'J.8 6 <,< *' ,<J'J, / .<7
11>- ; '05.Z # .67 - *(' '466'4< - ..4 & 'J.')' >.' ,48
-1'J. P
'71,4- ' ; ; ,0 >< 78 14. 6, ?5\ / W\' .7 ; ; .@
7.6 / '1.' '<>6 >.'<,<- .'47>68 ' $
+' : '0 '1 ' ' ')
' '), ' 5 6. ; ,<>.' >> 7 ,< 1 @ N K 6,4' '
'1 68 ; ; .0 B . ; 5.1; 8 5 01' 1.8 14.' ' <7 '17 <8 ?1.6
#.55.' '4@ 4168 <,' * UI' .7 H1,455.8 / ?1 1, .41 01' 1.8 =<' '
>.6 4J467 <68 *

'
8 '4 ' ' '! ' 'G (38 ,1<>
> 4< ?5'< .7 >.' - <J7 .67' / ?.6 =4' .< 1.?1.6.<7.<7 5.6
?1 <; ?'5.6 -4.68 >.66 ,>.6 .7 QJ1' - ..6 ?'1' B >1 J,7
1 @ N 7 '5 - 8 1.5 > .< - .'4 ' '1 68 ; : =@ ; 6.<<.8
'5 01' 1.8 '4 '5'6 ,V'58 < 4 ' .7 *I' ! '77.V8 5 01' 1.8 '4
'5'6 ,V'58 < G .7 UI' ! 4V,78 J1' - .41' .7 / '1; : '<>
> .67' / ?.6Q 14.' ' <7 5' ; =4.68 4G I' .7 0 #0'?7 55V8 ; : .0
B>>,4 <
' '8 & ' ! .7 7 <>1' 1.' .67 >'<6 5.'
?>< .'J.<1.8 >' '65. / . / .' E,1 / '7=4.' ; .54'> 1 / .<, <1 55.8
=4.' <,46 ' - ,<6 >>< " / 6 '4 0,418 .7 =4.'5.' ?405 ,' ' '< ' 0 .<
' ; 4. 55 .6 6, <6 =4.'<,46 ' - ,<6 = ?, 17>6 0 5" ?.1E. ; 7 ,<
>.' .54 ; ' 54' ?1,4-.1 ,<7 . , / 0 .< <,46 6,4<<.6 Q'5,4@ >.'
/ >1 7.1'5" . ,<7 <4'7 ,< >.' ' .6 645E1' .6 " ?'17 .'7V?,J1' '
?: =4.' .67 71.6 6, J<>.I' ,< .< "7 1.' =4.5=4.6 . . / ?5' 1.6
641' ?'? .1' ->5 <8 ?941'5." ?1. / .1.6 .?1.4- .68 >,<7 7.' ?1 6
.'7 >.' *U 5 - 8 1.5 > .< ; '17,<8
.6 ?.16,<<.6 =4' >>6 1.1,<7 6.' ?1, ; 41.1'5.6>.66 <6 .4 .6'
7'7<?.6 ; ,5,1 >6 >.' ; .7 ,4-1'J.' ,4 >.' ; .54'> 1 / .< ,4 5.8'
6 '>1.66.1,<7 " B .5,4?8 ?1>65.' ; 'E> >.' ?>1'8 0,45.- '1>
' <7 '17 <

" ; .7 '>.6 / 6>.' " ! ,<67 747 ,<8 >.' <7 - V8 69 '<'
; : 1" 7,'<5.6 5.6 5.771.6 =4 .55.' ' , J 1'8 .7 =.' 1.7 1.1" >.' 5"
?,67.' ; .55.6 =4' 54'6>H,<7 '>1.66.6 =4 '<7'<7 =4 .55.6 6 ; 1,<7
E1'<; .6 >.' ?,178 . " ; .?7> >.' 5" ,; >7> / .1.8 6>'<7 '4@ 'M
; ,0 <6 >.' '1 6

K#
' / .++ (' '
\ (' U' F '<
) ! 7 $(' ' L') ! 7 $ (' 1N') (. (/ (
.41 5" ?1, ?,67 ,<>.' #' / 468 5.' >.; 1.764 - '<7
.671.<>4I

ALLÉGORIE DU TEMPS.



Typ. Henri Plon.

Réimpression de l'Ancien Moniteur. — T. IX. page 774.

Acceptation de la Constitution (1791).

G 66. /O .<'7 ,<'5.> .1 .=4.8 5. G ,;7,OE. ?1,G
; : <8 5.6 ; ,V.<6 > ?45 6 2 5" ?1. < 1, 5.J 65'741.
1 4< 1,<7 >'<6 5" 6'5 . >. 66. /O5 . <'7 ,<'5.8 <.4E
O. '1.6 >, / '7 <8 .7 =4 7 6.1" ?1, .>>> '??.58 '77" 7.1G
/ .6> " > ;1.7> " / , 6> .Q' < >.1< .18 W

+ % 5. / < 671. > . 5 ' J4 . 11. 5 7 / > / , 1. 641
.7 ' 7 ' ;74 . 5 > .6 <5'V. <6 > . > . 7 . 46 . . 7 'O5 6 641 5 . 6
E1 , 47 1 . 6I . < - , ; 5 " 64O67 ' < ; . N 8

" 5 . ;1, 6 > . - , 1 1. <>1. ; , / ?7. 1 6' . /O5> . <'7 ,G
6'5.8 ' - '<7 6" 6.?'1'7 ,<8 > . .@.;47 ,< >.6 5, 6 = ' ; ,<
; .1<.<7 < ,< '> / < 671'7 ,<%
W .6 ,=4 .7'>.6 <6.?'1'O5.6 >.6 'J 7'7 ,<6 > '<. 1.M
- ,547 ,< 6 .7.<>' .<7 641 5.6 E1, '5 O1.6 >4 1,V'< / .% .
?1.<' 6 >.6 / .6,1.6 ? ,41 5.6 E' 1. ; .66.18 5,16=4. - ,46
'-.OQ,J. ; , , - .<'O5. > .<- ,V.1 >'<6 7,47.6 5.6 ?'17 .6>.
. / ? 1. >.6 ; , / / 66' 1.6 ; : ' J 6> . - ,46 1'?? ,17.1 . '7
>.6 ?5' ; .6 .7 5" ?,6 7 ,< >.6 71,4?.6% ,6 ; , / / 66' 1. <7
6. ; ,<>. / .6 .> ,176I 56 ,<7 ?5. <. / .<7 Q467 5 . - , 1. ; ,<
E '<; .% .6 ; 7,V.<6 ,47 ; , <; ,41, >. 7,47.6 5.416 E,1; .6 .7
>. 7,47. 7. '1 ' ;7 - . '4@ 1.?'1'7 ,<6 >.6 ?5' ; .6 >. J4.11.8
.7 >.6 71' - '4@ =478 >'<6 4< '471. 7. / ?68 < .466.<7 .7.
E' 56 =4 .< ?546 .416 ; ' / ?'J<.68 ,<7 7. ' ;5 .- 6 .< ?.4
>. 6. / ' <.6% "445. "E1,<7 .1. > 55. / 'J<. .67 7'7>.
>.E.<6.I 5.6 1. / ?'176 6,<7 1>?'1.68 ; ,4- .176 > '15 55.1 .8
E,17 E .6 >. 1.51'<; : . / .<768 >. ?'5 66'>.6I 5.67, ,<>' '6
6 ,<7 ?1.?'1. .68 .7;% .<<. / 6.1' 7 ?'17,47 '11.7. >'<6
6" / '1.E'.I '<. ?,411' 7 ?. .71;1 >'<6 5. 1,V'4 / . =4 '
?1 6 >.6 6 J.6 ,<J6 .7 ? <O5.68 >.6 6 J.6=4 .@ J.1' .<7
,<. 1.4< ,< >. / ,V.<6 =4 <. 6,<7 ?'6 .<71. 5.6 / ' <6 >.
; .4@ =4. 5" - , @ ?4O5 =4. > 6 J<. ; , / / . < ,6 .<<. / 6%
.6 / / .6 / .641. ,<7 ?1 6.6 ?,41 ; ,4-1 1 5.6 E1,<
75 1.6 >. 5" ' - , . .7 >.6 V1 <>.6Q .7 =4, =4 .55.6 < ' .<7
1 .< ;1' <>1.8 ?< 6=4. ' - '<7 71, 6 ,4 =4'71. 6. / ' <.6
; .6 / , 7'J, .6 - ,<7 7. ,4- .176 > . <. J.8 5.6 71' - '4@ 6.
E,<7 ' - . 5" / / . ' ;7 - 7 ' =4. 6 .55.6 7' .<7 / .< ' ; .6
> "<. <- '6 ,< ?1, .O' <.8 .< .65> . / / . >.6 ;>5.6 / ' '
1 7 / .6% .6 / 'J'6 <6 >. - -1.6 .7>. E,411'J.6 6,<7 .< O,<
7'78 .7 ?546 .416 <'1;5 6 ,47 5 E'76 >'<65 51'4J.1?, 1
; , / ?5.7.1 5.41 '?1, - 6 ,4 . / .47%
7 .6 E,41< 541.6 > '1 / .6 6. E,<7 ' - . . > 5 J .< ; .I PS' '
'11.7. 7,47.6 5.6 .@?. >7 ,<6 > '1 / .6 =4. <,6 E'O1 =4.6 E' '
6' .<7 .51'<J.18 .7 5. J.4- . / . / .<7 ' ; ; ,1>. ; .6 / '\
<4E' ; 41.6 >.6 ?1 / .6 ?,41 ' ; ; 5 ; .15.6 -1'6, 6=4 .55.6
,<7 E' 1.%
E .1. ;1,7, / .<7 =4 >, 7 ?,17.1 5.6 1 / . <76 '4 ; / '
?5.7 >. J4.11. " 7 / , / .<7 '4 / .<7 1.7'1> ?'1 5" E'>.
57 =4 ,<7 .4. 5.6 Q.4<.6 ; 7,V.O6>. ?1.<>1. ?'17 >'<6
5.6 ; ,1?6 >. J'1>.6 4'5 ,<'4@ - ,5 ,7' 1.6% 'V " >. ?4 6
K.1JQ46=4 " K E,17 ; .<7 - <J7 :4 7 O'7' 55, ,6 > <E'<7.1 .
>5 ; .=7=4'1'<5. :4 7 .6; '>1,<]>. #' - '5.1 .I> '6, @'<7.
O'7' 55, ,6 >. J'1>.6 <'5 ,<'5.66. 6,<7 1.<>46 5.41 >.67 M
<'7 ,<% ,47.6 5.6 > 6?,6 7 ,<6 < ; .66'1.6 ? ,41 ; , / ?5 7.1
.@ ;47 ,< >4 >. ;1.7>4 U' , 7 ,<7 7 ?1 6. 'I .7 6 =4
?. / .<7 >. 7,46 5.6 O'7' 55, ,6 >. - ,5,<7' 1.6 O .67 ?'6
7' 58 ; .6 5 J.16 1.7'1>6 >, - .<7 71. '71 O4 6 '4@ >E #41
7 6=4 ,<7 .4.6 5.6 EO41< 66.416 6. ?1, ; 41.1 5.6 / '7 1.6
?1. / 1.6%
" 34'<7 . / ?5, >.6 E,1; .6 641 7." ,<7 1.68 5.6 J \
< 1'4 6. 6, ,7 ; ,<; .15 6 .<71. .4@8 .7 5 < .67 ?'6 < / '
6' 1. >. > 1. =4. 7,47.6 5.6 ; , / O <' 6,<6 > ' '=4. .<7
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5.6 ?1 ?'1'7 E6 ,<7 7 E' 56 ; .7 J'1>8 .7 56 6.1,<7 E,1W
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<- ,46 " ?'15 >. <64O,1> <'7 ,< > 4<. ?'17 . >.6 6, 5 ,
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>E ; 5. ,? 1'5 ,4 >. 5" 5.- >. ; .<7 / 55. J'1>.6 <'5 ,
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7.418 ?'1; =4. 5. <, / O1. >.6 '6? 1'<76 .67 ?546 J1'<>8 .7
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66. / 05 .'<'5 ,<'5.8 '?17.' '- , 1.<7.<>4 5.'1'??,17 >.'] ' ; , / 7> > ' ; '5741. .5> . ; , / / .1; .8 '> .;1. . N
W34. .@?,17'7 , >71'<J.1 > .6 6'01.6 .?>.6 ; ,4\' 7.'4@ >. . : '66. .7? 67,5.76 > . ? , ; . 8 '?546 =4. > .6 E46 56 > . . : '66 .8 > .6 ? .11.6 . E46 58 > . '5 "?, 4>1. > . ; . '66. .7 >4 6'5? 7.8 4< =4. / .<7 > .67 <.6 '4 ; / / .1. ' '- . .71'<J.18 .7 .@?.> >68 6? 5?'1 7.11 .8 6, 5 ?'1 / .18 ; . .57. >.65 <'7 , 8 < . 6.<7 ? , <7 ; , / ?1 6 >'<6 5 "?1, : 0 7 , < ?,1\' 7. >'<6 5.6 >>.1.76 >.6 C 8CU8C)'Q4 < .7)'Q4 55.7 >.1< .16
6,17 . > . ; .6 > EE.1.<76 ,00.76 .67 .7 > . / .41. .<7 01.G / . '7 5 01.8 ' <6 =4. #.55. > .6 .6?> .6 / ,<<'V>.6 '4 1.6 =4. ; .55.6 '4 . , < > . H1'<. .8 .7 >. %7,47.6 6,17.6 > ,4-1'J.6 > , 1 .7 > '1J.<78 .7 0 0,4@ < . , <6.=4.<. 66; / 05. . <'70,<'5. E' 7 > .E.<6. ' ,@ ,1?6 '> / < 671'7 E6 .7 / 4< ; ?'4@8 U?. 4. > . < > . / .41.1 ?.16 ,<<.55. / .<7 1.6?,<6'05.68 > ;@.1; .1 '4.4< . ?.1=4 6 7 ,< ,4 - 6 7 . .<-.16 5.6 - ,0' J.416 .7 < , ; '<768 5.6 > .;5'1'7 ,<6 .7 - #1 : ; '7 ,<6 <. >.-' 7 > .6,1 / ' 6 #71.6 E'7.6 =4. > '<6 5.6 041. '4@ > .6 >,4'<.6 <'7 ,<'5.6 > ,<<. / ' <5.- . ; > .6 / '7 #1.6 > ,1 .7 > '1J.<78 '4 1.6 =4. > .6 .6?#; .6 / ,<<'V>.6 '4 ; , <>4 1,V'4 / .8 1.7.<4.6 .< - .174 > .6 ?1. , ; > .<76 > .;1.76 ; 1, 6.1" ?1 > > . > ,<<.18 5. ?546 ?1, / ?7. / .<7 ?,66 05.8 5.6 ,1>1.6 <.;.66'1.6 ?,41 1.@> ;<7 ,< >4 ?1>6.<7 >>#1.7 Y

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66. / 05 > . " 'J1>> ; .7 : , / / 'J.8 .7 " ,1>,4<> =4. .@. / ?5' 1. > .?,6> ?'1 (,5<.V 641 041. '4 1 " >>?,6> '4@ '1; : -.6

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#B / 'N . .67 '- . ; ?546 J1'<> 1.J1,7 =4. Q ' -4 66. / 05 > .<'7 ,<'5. 1.E46.1 > . E,< > .1 5.6 0'6.6 > . 5" 1.J.<.1'7 , < > . >>4; '7 , < 1 5 > . / '< > . =4. >4 / , <6 .55. 7> / , J<. < .67 / . ?,41 5.?1.> .4@ 71'- ' 5 =4 54 " > > ?1>6.<7> ?'1 '55.V1'<> .< A >, :<'<7 =4 5 6.1" ?1 1<> .7 > 671 04> '4@ / .4701.6 > . 5" ?1, ; : ' < . 5.J 65'741.
"?1,?,6 7 , < > . #: '?.5 .1 .67 '> ,?7> .
6 , ' .N 4 6=4. < ,46 1.< - ,V,<6 U <,6 64; ; .66.<16 5.'6, 5 > . >>4; '7 , < ?40 =4.8 0. > . / '<> . =4. < ,46 >> .1>7 ,<6 >>6 U ?1>6.<7 =4.'5.6 <67 747.416 ';74.55. / .<7 .< .@.1. ; . < .6.1,<7 ?, <7 >>?5';>6 '- .<7 5" < ,4-.55. ,1J'M < 6'7 , < > .6 >; .5.6 '<6 ; .77. '6641'<; . > . 5.41 .7'78 56 ?1.<>1,<7 ?'17 ' 55.4168 .7 5.6 ; ,75 .68 =4 ,<7>7> > .6.176 ?.<>'<7 > .4@ '<68 5. 6.1,<7 4< . 1, 6 > / . ' / > .I .7 ; '5 ;45.0=4.55.'5';4<.'71, 6 '<6 > .'?'1. 6.'E,<7 >'<6 <6714; 7 , < > . '5" 0.4<.66.5
8 F : ' 6 ! E - '> . / '<>. =4.'?1, - 6, 1. / .<78 .705>6 U ?1>6.<78 .6E';457>6 > . >1, 7 ; : '1J. : 7 4< > . 5.416 ? ,E.66.>16 > .<6. J<.1 " ; ,<67 747 ,<
'N " / 4< ; ?'5 7> > . V, < " ?1,0.7> > .
; : '<J.1 4> / < 671'7 ,< > . 5" 0 05 ,7:>=4.'=4 >7' 76,46 5" > 1.;7 ,<> . ' ; '>> / > . V, < #. > .?,7 5 7>1' 1.'1.< E.1 / .8 '- . > .67 -1.6 ?1>; .4@8 > .6 ; .55. ;7 ,<6 > . > .66 <6 71>6 47 5.6 '4@ > .66 <'7.416 > .6 / '<4E' ;741.6 > . ; .57. ; 5> .> / / .1, '<7. " / 4< ; ?'5 7> -.47 E.1 / .1 ; .77. 0 05 ,70> =4. '4@ J.<6 > . 5.571.6 .7 '4@ '17 67.6 I .55. .<5>-. U ; '>> < .8 .7.55. / >7.'5" ?5' ; > .0 05 ,5 :>; ' 1. =45 / >5' 7 >.E,1> . .0> .55. > 6?,6. >4 5,J. / .<7 =4 / >7' 7 > ,<<>8 .7 5 <. 7 .<7?'6 U .55. =4.8 5,16=4.0. - ' 61.7,41<.1>'<6 / " ?'71 .8 0. < V' . < '6 5.8 < 5 .4 ,4 1.?,6.1 >5.
< . / .56 >'<6 ; .75. 'EE' 1. '4.4<. ' J1.41I / ' 6 \. ?.<6. =4.8 0 46=4 U1, J'< 6'7 ,< > . <671<;7 ,< ?40 =4.8 5 <. > , 7 1. 1 .< ; : '<J>8 6, 7 U >J'E> > .6 '; '> . / .68 6, 7 .< ; . =4 ; , < ; .1< . 5.6 0 05 ,7:>=4.6
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66. / 05 > .<'7 ,<'5. >..1>7. =4 U ; , / ?7.1 >4 / , 6 > , .7,01.'?1, ;5 ' <7,45.65.6E' ;457>6> . >1, 7 6.1,<7 7.<4.6 > . ; : '1J.1 4< > . 5.416 <. / 01.68 .7 5.6 ?1,5066.416 >'<6 5.6 << -.16 7>68 > .<]. J'.1 '4@0.4<.6 >74> '< 6 5" ; ,<67S 745 *<E1'<]*].W'

+ 66. / 05 > .<'7 ,<'5. >>.1>7. ; . =< 64 7
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+ 41 5.'1'??,17 > . 14J<,<8 5. >>;1.7 64 -'<7.6 1.<>4N
! 66. / 05 > .<'7 ,<'5.8 '?1>6 '- , 1 ,4 '5.'1'??,17 > 6,< ; , / 5> > . / ?5' ; . / .<78 >> ;1>7 . ; . =4 '64 7N
< h . / ?5' . < .<7 > . '> / < 671'7 ,< > " >> ?'17. / ,<7> . 6 . 6.1" U 5" ; : '1J. > . 7,46 5.6 '> / < 6 71>6 > . ; >>?'17. / .<7 < ; ,<6>=4.< .8 5" 1>=4 6 7 , E' 7. ?'1 5" / 4< ; ?'5 7. , < > . 5" / ' 6,< ; ,<-.4 74.55. > . 5" ; > .-'<7 '00'V. > . ' <7 . '< .67 >>;5'1>I <455. .7 ; , / / . < ,< ' - .<4.
W < > 51. ;7, 1. >4 >>?'17. / .<7 > . 6<.'0467 E .1. < ;.66' / / .<7 > . .@> ;<7 ,< > .6 >>;1.76 ?1> .>>. / / .< 1.<>468 . 6. ?,41-,V'<7 >'<6 5.6 E,1 / .6 =4 6 ?1. ;1 -.<7 ?,41 >71. '45,1 6> U ' ;=4>1 1 ,4 U 5,4.1 5.6 ?'17 . >> > ; 4>; .66'51.6 ?,41 1;7'05 66. / .5 7> . '> / < 671" 7 0< .7 > . 6.6 041. '4@8 U ?. <.8 ?'1 5.6 / . / 01.6 >4 > 1. ;5, 1.8 > .< > . / .41.1 ?.16 ,<<.55. / .<7 1.6?,<6'05.6
W < 6 , ; 4?.1" >J'5. / .<7 > .6 / ,V.<6 > . 1>4< 1 '47'<7 =4 5 6.1" ?,66 05.8 > '<65. / > / .5 , ; '58 '> / < 6 71'7 , < > 7 > 671 ;7> . ' , < .76.6 041. ' ,@
U . / . / 01.6 > " >51. ;7, 1.8 ?1, ;41.41 J><>1'5 6V<> ; .76.;1.7' 1. >57 >>?'17. / .<7 6.1,<7 7.<46 > . -5>.18 6,<6 =4 <0' <.8 5.6 '??'17. / .<76 =< 56 , ; ;4?.< > '<6 5 / ' 6, < ;=4 6.?'1 5" / 4< ; ?'5 7> ?,41 . / ?5' ; . / .<7 > '> / < 671'5 ,<8 .7 > . ?'V.1 5. 5,V.1 ?,41 5. 7. / ?6 5.41 , ; ;4?'7 ,< .<51. 5.6 / ' <6 >4 1. ; . - .41 > . 5"1 . >= >. / ' <.68 " >01. > .@?.176 <, / / >6 > ,E5 ; . ?'1 5. ; , / / 66' 1. > . 5" ; ?66. > . .@71',1> <' 1.8 = =67 > .'1J' 6?> ; 'E. / .<7 > . 1. 55.1 U .@> ;47 ,< >4 ?1>1,<7 '17 ;5.8 . > .< 1.<>1. ; , / ?5. '< ?,4- , 1 .@> .47 E8 Y
$.?1, 66. / 05 > . / .771. . 7 >1. >4 0,41 ?,41 > . / ' < 5. ?1,0.7 > . 7 , 641 '66 67'<; I ?40 =4.8 =4 '54 .67 ?1>6.<7> ?'1 / 7 > . / .<> ; 7> .6 0>?5'4@ 6,<78 ?'1 5" 64??1.66 , < > .6 , ; 71, 68 ?1 -> > . 5.416 1.-.<46I '4;4< 6. ; ,416 > . 0 .<E'6'< . < " >7' -.16. >'<6 5. 6. < > .6 ; '/ '?'J.<.6 .67 ,<< . ?.<7 ?'6? < ?1.66'<7 =4. ; -,46 -,46 , ; ;4? .1 > . ; .6 / ?,17'<76 ,5 .76
'N 66. / 05 > . " 71,? > . 71'- '4@ U7.1 / <. ?,41 ?,4-,1 ; , / / .<;.1 > . < , -. '4@ 0. > .1''< > 1' ?41<.1, .<7 > . ; .54 ; U 5" ?1, ; : ' < . > J 6 '541.
'N '5 V ?'6 > ' / ,41 ?1, ?1. > . 5" ?'17 >& ; , / 7>I / ' 6 66. / 05 > . 6 .77 1.1' 78 0 ,6. . > 1.8 >7 0467.6 1.?1, ; : .6 6 .55.'6 .< '55' 7 .< 7. 66'<7 5.6 0>? 7'74 '- . ' / 55 ,<6 > . 1. - .<4 > . / , <6 =4 6 < ; < ' -' .< '4?'1'-'<7
'00 66. / 05 > . >>, > . =4.'7.'71'- ' 5> . ' <; ,417 ?'17 , > . ,1>1. >4 0,41 > . > . / ' 4 .
'N ?1,0.7> . >>;1.7 =4.'0.64 6;. ; ' > . -,46 6,4 / .771. '?,41 ,00.7 > '0,5 1 5" > 6 ' ;7 , >7'05 . > '<6 5" >> ; ,1'7 ,< / 5 7' 1. .<71. 5.6 ; '70, =4.6 .7 ; .4@ =4 < . 5. 6,<7 ?'688 .7 6417,47 '< ; .<< E,1 / . > . '1> . .?7 ,< .7 5" E,1 / 45. >4 6.1 / .<7 .@ J> 046 =4 U ; .0,41 > .6 ; '<> >'76 >4 ; > .-'<7 ,1>1. 1,V'5 > '<7 4 68 ; .75.'E,1 / . > .'1>..?7 ,< .7 ; .6.1 / .<7 < >7'< ?546 ; , / ?'7 05.6 '- . ,4< . ; ,<67 747 ,< =4 '<. ,<<'77 ?54 > , 1>1.'< > . #: . - '5.1 . < ?1>7' 7 6.1 / .<7 > . / ' <7. / 5.6 67'7=76 > . ,1>1. >6,1 / '68 5.6 ,EE ; .16=<'1. ; . -1,< 5" >> ; ,1'7 ,< / 5 7' 1. E" 1. ; .-1,<7 ; , / / . 4< . 6 / ?I 1> ; , / ?.<6. ; .<,1 E5=4.8 6'<6 ; ,<71' ; .7.1 '4.4<. ,05 J'5 , <,4-.55.8 '4.4< .E,< ;7 ,< .@J. 5'5 .< >4 6.1 / .<7 ; , / 7> / 5 7' 1. - ,46 ?1>6. '7. < ; ,<6>=>.<; .5. ?1,0.7> >>;1.7 64 -'<7I + 66. / 05 > .<'7 ,<'5. >>;1>7.N
W G 34 5 <. 6.1" ?546 .@ J> > . 6.1 / .<7 > . ; .4@ =4 ,07 .4>1,<7 5" >> ; ,1'7 ,< / 5 7' 1.8 .7 =4.'5.6 E,1 / .6 46 7>.6 ?,41 5" ; ,<E>1.1 ,EE ; .16 U =4 .55. .67 >4.8 ' / 7.1 / .6 > . 5" 5, 8 6,<7 '0,5 .68
WCG " => ; , 1' ,< / 5 ' 1. .7 5.6 5.771,6?< -.174 > .6 =4.55.6 4< / 5 7' 1. 6.1" '47,1 6> U 5" ?,17.1 6.1,<7 5. / > / .6 ?,41 7,46 5.6,5 ; .168 =4.55. =4.'6, 7 5.41 1.5 J ,<I 5.6 5.771.6 6.1,<7 ; ,<E4.6 > '<6 5 "E,1 / . > . ; .55.6 '<<.@>6 '4 ?1>6.<7 >> ;1.7
'W p .6 ,EE ; .16=4 '6.'E,<7?'6?1,E.66 ?< 5" 1.5 J7 P

; ' =4.8' '?,B,57=4.'.7 . / ' <.% .7 =, 8 '<1' .<7 =4 5 '
;'6.1- ; .8 6.1,<7 ?'1. 55. / .<5 646; .?7 05.6 >.'5" > .1 '7 , <'
/ 5 ' 1.8 ?,41-4 =4 56 ' .<7 6.1- ' 5.' <, / 01.' > '<<7.6
E@.'?'1'5" , %Y

'1 'N ,46 ' ' - .'=4.' ,1>1.'>.' '77.' "7 ,<0,416
; : '1J '>.'>.4@ .6?0; .6 >.'6.1- ; .68 4< 1.5'7 E " .<,'
71.5 .< >.'] ,< K 7747 / 5 ' 1.' .7 ; ,6? 7'5 .1N ; .54 5>6.'
' 6' 7 : ,16 >.' H1'<; .I / ' 6 5V ' - ' 5'4< 6.1- ; .'5, ; '5 >,<7
; .5 ,1>1.' 7' 7 ; : '1J# .< H1'<; .N 5 #7' 7 ?,66.66.41 >.'
E,<>' ,<6 >.65 <#.6 '4 ;455.8 0 : ,6? 7'5 7.8 / # / .' . >.6
> 651 045 ,<6 > '4 / > .6 ,1.' ; , / 5> > ?5, / '7 =4.8 >.'
; , <; .17 'V.' - ,71.' ; , / '> '5 #<'7 , 8 / " : : '1J.'>' - ,46
?1.6.<5.1 4< ?1,0.7 ?,41 =4.' ,1>1.>.' '55.'<.6, 7 '47, \
1 6.' '4 1. / ?5, >.6 ; '? '4@?1, - .< '<7>4 1. / 0,416. / .<7
=4.' >.>4;7 ,< E' 7.' '4 ?1,E 7 >.' 5" <'5 ,< > ,<.' - '7.41
.J'5.' '4 'E1' 6>.6 6.1- ; .6 ?405 ;6'4@=4.56 5. ' 7 6,4;>6%

% # o 'N .'71, , - .'67 1?1.<'<5 =4.8 5,16=4.'<,46
' - ,<6 7 '47 > '471.6 ;0,6.6 5 E' 1.8 ,< < ,46 ?1,?,6.'4<
?1,0.7 >.'>.;1.5 =4 '?1#04J.5.'?1 <; ?.>.5'< ?1,?1 .7>
>.' ,1>1.' >.' '57.8 .5 =4 '5.' ?1.04J.' ?,41 5.' - ,5.< .'
;1, 6 =4.' ,1>1.'>.' '55.' 0.'>, 7 ?'6 ?546 ; ,<6.1- .1 >.'
?1,?1 .7.6 =4.' <,;< ,47 ; ,<6.1- .' 5.6 ,1>1.6 1.5 J .4@ 6<85
?1 / .68 .7 =4.' <,46 >. - ,<6 <,46 >.7.1 / <.1 > '? 6
.@. / ?5.'>.' <J5.7.11.8 =4 8 'V'<7 64??1 / # ,1>1.'>.'
'57.8 < " ?'6 ;14 >. - , 1 54 5' 66.1 5. 0 .<6 >, <7% 5'-' 5
5" 0,4 66'<; .%

% K 7<N < - ,46 ?1,?,6.'4<.' <>J, ; '7 ,< .'E' 1.'
. 1.'5.'1, ' .5 ,1>1.' >.' '55.8 <#J, ; '5 ,< =4 ' 6.1" 6'
; ,< ?5 =4#.' =4.'0.'>#E.'=4.'5.'?, - , 1 .@ ,;47 E8 =4 ' < .67
?'6 .<; ,1.' ' ';5 E8 ?4 66.'5" E' 1.' ' - ' 15 >?,=4.' , '5"
?1, ; ' <.' 5.J 65'741.' '41" ?1 6 4< ?'17 ' >>E <7 E 641 5"
=4.67 ,< >.'5" ?1,?1 #7.'>.' ; .7 ,1>1.% '.>. / '<>.' .<; ,<M
6.=4.<; .' '0,41<. / .<7>4 ?1,0.7>.' >#;1.7>. % H1.7.'4I
66. / 05.' 1>,<<.' '0,41<.? .,7%
+' % .?.55.7 .1 7.1 / <.'5" 1.54.'>.6> ;1.76 641 5.' ; ,>.
(%$
% .6 / .<< .16?1,?,6.'>> 5 ,<<.55.1' .<75.6'17 ; .6 8
64 - '<56 8 =4 ' 6.<7 >7.1. >6%
p '>.6 ; ,<6. 56 ,< >.6 > 1. .7, 1.6 >.' > 671 ;7 ,< >.'
>.?'1 . / .<7 >,<<.<7 64 7.' " >.6 ' ;7.6 ' < / .68 6, 5 ?'1
'>/ : 671'7 ,< >.'>.?'17. / .<78 6, 5 ?'1 5.'1, 8 ; .54 '=4'
'41" ?1.6 >.'5" >.5 0.1'7 ,<8 ' <6 '=4.' .?1, ;41.41 J.<.M
1'5 6V<> ,' ,4 5.' ?1, ;41.41 6V<> ,' =4 ' .< '41" 1.=4 6 ,4
,1>,<<> 1.@.;4 ,<8.<; ,411, ,75" ?. <.'>.'5">.J1'>' ,4
; - =4 .%
W G 5 K / > / .' ?. <.'6.1" ?1,<,<.>.' ; .<71.' ; .54 '=4'
'41" ?1.6 >.' 44.' '66. / 05.' >, ; .16 / 4< ; ?'4@8 .7
; .<71.'5.' ?1, ;41.41 >.'5" ; , / / 4<.'=4 ' '41" & ! '64 7.'
" >.6 ' ;5.6 >.'5'1.6 <456%
W6.' '44.' '66. / 05.' . ;7,1'5.'6.' ?.1 / .7 >.' ?1.<>1.'
>.6 >. 0.1'5 ,< '641 >.6 ,00.76 .71'<J.16 '4@ .5 .;7 ,<6 ,4
'6" ?,5 ; <7.1 .41.8 ; .4@ =4 ' ,1 ,<5 ?1.6 >.'5" & $ B K
1'7 ,<8 ,< E' 7 E,<;7 ,<6 >.'6. ;1.7' 1.8 6.1,47 ?4< 6>.'5"
1<> / .' ?.' <.% \
% ,7 / '7N ,>6 ' - .G >. ;1> ' =4.'5.6 <,4- .55.6 5, 6
;1 / <.55.68 =4.' <65 747 ,< >.6 041>6 <.' 6.1' .<7 / 6.6
.<' ; - 7.'=4.'5.' 0'<- .1I ; .67 71, 6 ,00.76
=4 ?'1' 66. 7 > - , 1 >71.' .@;.?>6 >.' ; .77.' ?1,1,J'7 ,<7
; .'6.<7 '0,5 ,< >.' 5" / '1=4.8 =4 ' .67 <<.' .71 6641.'
> .11 .55. I '0,5 7 ,< >.'7,47 64??5 ; .' '<71.' =4.'5" / ,17
6 / ?5.'7 5" - ,5.>.' 5" ; '66 '66 ,< ' ; ,1>>.' '4 #,<>' / <>%
- ,46 ?1,?,6.' .<; ,<6.=4.<; .'5.'?1,0.7>.' >>.1.7 64 - '<7N
6 66. / 05. .<'5 ,<'5.' >>.1>7.' ; =4 '64 7N
W 17% F% >6%'?1.6.<7 5" ?. <.'>.' / ,17 <.'6.1" ?546
=4.'5" 6 / ?5.'?1 - '7 ,< >.'5" - .%
W % .'5,4.7 .75" / '1=4.'6,<7 '>.' ; .'0,41%
% W % ' ;46 >'41" 71, 6 ,416 ?,41 E' 1.'6" >.;5'1'7 ,<
=4 5 6.' ?,<1- , 7 .< ; '66 '7 ,<I ?.<> '<7 ; ' 7. / ?6 1.@>.;<'
7 ,< 6.1" 646?.<> .% $ +' #.' ?1,0.7 >.' >>.1.7 .67 '>,?5>%
+$ 41 5" ?1,?,6 7 ,< >.' % #' / 46 8 5.' >>.1.7 64 - '<7
.67 1.<>4S
W 17% G% 5.6 05.<6 >.?.<> '<7 >.6 E,<> '7 ,<6 E' 7.6 .<
E' - .41 >,1>1.68 >.' ; ,1?6 .7 ; ,1?,1'7 ,<6 =4 ' < .@ 67.<7
?546 >'<6 5" ; ,<67 7<7 ,< E1'<= ' 6.8 6, 5 =4.'5.6 > 7.6 E,<>'M
7 ,<6 .466.<7 ? ,41 ,00.75.6> 76 ,1>1.68 ; ,1?68 ; ,1?,1'7 ,<6
.< ; , / / ,<8 ,4 5.6 <> - >46 =4 ?,4- ' .<7.< E' 1.'?'17 .8
; ,<6 , .1>6 ; , / / .' / . / 01.6 >.6> 5" ,1>1.68 ; ,1?6 .7 . 1'
1'7 ,<68 E,<7 ?'17 .'>.6 0 .<6 <'7 ,4 '4@8 .7 6,<7 ; , / / .'
6 " 5" > 6?,6 7 ,< >.'5" <'71,<%
" % .6 0 .<6 >.?.<> '<76 >.6> 7.6 E,<> '7 ,<6 6.1,<7 .<

; ,<6.=4.<; .'> / < 671>6 .7 - .<><6 ; , / / .'5.6 '7171.6 0 .<6
<'7 , '4@8 <,<,067 '<7 7,47.' ;5'46.8 / > / .'>.'1.- .16 ,<8
=4 '6.1' 7 ?,17>.' '<@ ' ;7.6 >.'E,<> '7 ,<%
W % 66. / 05>.'1>6.1- .' '5" 5.J 65'741.' > >7'05 1 5.6
10J5.6 > '?1>6 5.6=4. 6 5 6.1" 67'74> 641 5.6 >. / '<>.6 ?'1'
7 ;45 >1.6 =4 ' ?,411' .<7 >71.'E,1 / >.6 .< ; ,46.=<.<; .'>.6
;5'46.6 >;1 7.6 >'<6 5.6 ' ;7.6 >.'E,<> '7 ,<%
% 7 <>' < / , <65.6 <> - >46 =4 '0,4 1' .<7 >.'=<.5'
=4 ' ?'17 ' >.6>7.6 E,<> '7 ,<6 4< =4. / .<7 ' 5 71.' >.'6.'
; ,416 8 ?, ,1 640- .<1 ' 5.416 0.6, ,68 ; ,<7 <<.1,<7 > .<
E,< 1 ?.16,<<. 7. / .<78 '=@ 7.1? .6 >.6> 7.6 E,<>'7 ,<6%
W .6 E,<>' ,<6 E' 7.6 > '<6 5.6 ?'1, 66.6 6.1,478 '4 641M
?546 8 .< ; ,<E,1 / 7.'>.6 ?1. ; .>.<76 >>;1.76%6

% #6a ;6 6 ,<6 ' - .' ; : '1J.' - ,71.' ; , / 7 >.0 ?.<6 ,<6
>.' - ,46 ?1.6.<7.1 1>7'7>.6J1'7 E ; '7 ,<6 =4 '6 ,<7 >4.6 '4@
> 1.1.<76 ; , / / 6 >. - ,6 041.'4@% 56 6,<7 '< <, / 0 .'>.'
; ,<7 =4'71. - <J 68 .7 ; .'<, / 01.' - ,46 E,1; .' / '50.41.46.'
/ .<7 ' / ,>>1.1 0.'4; ,4? ; .6 1. ; , / ?.<6.6% ,71.' ; , / 5>
- ,46 ?1,?,6.'> ' ; , ,1>.14<.6, / / .>.' % %=4'6.1">6'
71 04>. .< ?.<6 ,<6>.58 '%8) %8 9 %8 > 5%8C 5%
% 8 C % .7 ' % ' - ,46 ?1,?,6.'> ' ; , ,1>.1 4< / , '
>.' 71' 7. / .<7 >.' ?546 ' ; .4@ =4 '4 .'6.1,<7 ?'6 1. / ?5' ; .68
4< / ,76 >.'71' 7. / .<7 ' - ,6 :4 66 .168 .7 4< / , 6>.'71' 7.'
/ .<7 ' - ,6 J '1?,<6 >.' 041.'4@%

' B ' ' ! ' ;1, 6 =4.'8'>'<6 ; .77.' , ; ; '6 ,<8 ' .67 >.'
5"> J< 7>>.' 66. / 05>.'<'5 ,<'5.>.>.<<.1 '6.6 :4 66 .16
4< 7> / , J<'J.' '450.<5 =4.'>.'5" 6'7 6E' ;7 ,< > " 05.' .7>.'
; ,<<.7.7>' - .'5.6=4. 6 56,<501. / ?5' ' - .' .@' ;7 74>.'5.416
>. - , 16% .416 E,<;7 ,<6 ,<7 > > 6,4- .<7 71>6 ?.<05.68 .5
76 ,<78 ; , / / .'5.6 / , / 01.6 >.' 66. / 05>.'<'5 ,<'5.8
?'15'J>5.6 >'<J.16 = ' ' ,<7 ?546 > 4<.'E, 6 / .<'.>.% <
; ,<6.=4.<; .80.'?1,?,6.'?'1' / .<>. / .<7 =4 5 6, 5' ; ; ,1>>
'4@0< 66 .16I Y 4< ; .17 E ; '7 =4 ' ; , 67'7.1" 5.416 6.1- ; .6
'4?1>6 >4 ; ,1?6 ; ,<65 54'<7I 0W <<.' J1'7 E ; '7 ,<8 ; ' '
;4<8 >.'5" 6, / / .'>.'9 '5 -% & < '??5'4> 7%P
' / .<>. / .<5 >.' % K40,7 .67 4< '< / . / .<7 '>,?5>%
%) ! " % '6 ' A- A 0, & E5 - ' >. / '<>.'
=4 5 6, 5 E' 7 / .<7 ,< >'<65.'?1, ;>6 - .10'5>4 7> / , J<'J.'
; ,<,1'05.'=4.' - .47 >' ; ' ,1>.1 66. / 05>.'<'5 ,<'5.' '6.6
:4 66 .168 .7 =4 " ; .7 .EE.7 5.416 <, / 6 6, .<E <6 ;1 56 '4
?1, ;>6 - .10'58 >,<7 5 6.1" >>5 -1.'4<.' .@?>> ,4 ; ; ' ;4<
> .4@% + " ?1,?,6 7 ,< >.' % K.J<'<55 .67 '>,?5>%
?1,0.7 >.' >>.1.7>.' % #' / 46 .67 >>.1>7.' ' - .' 5.6
' / .<>. / .<76%
% #@4 ;6N % #4 55,7'E' 78 >.?, 6 , - .1741.'>. - ,6
6>'<; .68 5.6 E,<;7 ,<6 > :< 66 .1 '4?1>6 >.' 1 66. / 05>.'
<'5 ,<'5.8 6'<6 - ,45, 1 1. ; , - , 1 '4;4< 71' 7. / .<7 0.'>.M
/ '<>.'=4. 66. / 05>.' < 7>EE5, J<.'6" 6'7 6E' ;7 ,<8 .754'
E'66.'>>5 -1.1 4< .@. / ?5' 1.'>, ?1, ;>6 - .10'5%
% E5 # # N 66. / 05.' <.'>, 7 ?, <7 1.; . - , 1 >.'
6.1- ; .6 J1'74 76% .'>. / '<>.' =4.'B% ! 4 55,7 1. - ,5- .'6.6
; ,<,1' 1.68 6'4E " .< E' 1.' .<64 7.' ; .'=4 5 04J.1" ; ,<- .1
5 '05.% +' " ?1,?,6 7 ,< >.' % .J<'<57 .67 '>,?7>.%
j 41 5" ?1,?,6 7 ,< >.' ' .014<8 5.'>>.1.7 64 - '<7
.67 - .<>G 7 % 8
66. / 05>.'<'5 ,<'5.8 ,45 5.'1'??,17 >.'6,< ; , / 5>
>.5E <'<; .68 >>;1>7.' ; =4 '6< N d
17% G% .6 .E1.416 >.'<, / =4 '6.'6.1' .<7 J5 66>.6
>'<6 5.6 ; ,< 1'76 >.'1.<7.'?.1?>54.55.'?,<11,<7 >7 .1. ;7 '
E5>.6 .< - ,174 > 4<.'>.5 0.1'7 ,< >.6 ; , / / 66' 1.6 >.'5"
71>6 ,1.1 .8 .7 641 5.41 1.6?,46'05 7>%
$ % .6 .11.<16 > ; <, / =4 '6.'6.1' .<7 J7 66>.6 <6'5.'
=4 77'<; .6 >.' E <'<; .' ?,41 1.<7.6 - 'J>1.68 ,4 >'<6 5.6
; ,<71'56 >.6> 7.6 1.<7.68 <.'?,<11,<7 .71# 1. ;7 E >.6 =4 .<
- .174 > 4< >>.1.7 >4 ; ,1?6 5.J 65'7 E8 1.<>4 641 5. '?1,?,'
6 7 ,<6 >.6 #, / / 66' 1.6 >.'5" 71>6 ,1.1 .%Y
+' % '4.0V ?1>6.<7.'4< ?1,0.7>.' >>.1.7 641 5" ?.1M
; .?7 ,< .7 5. - .16. / .<7 >'<6 5.6 ; ' 66.6 >.' > 671 ;7 >.6
. ,<71 0<7 ,<6 E,<; >1.' .7 / ,0 5 >1.%8 ,46 '1'??,15.1,<6
>'<6 5.'?1, ;5 ' < 4 / >1.%P %
< >. %5.6 6. ;1>5K 1.6E' 55. .7<1.'>.>.4@5.771.68
4<.'>4 / < 6 1.'>.5" J4.11.8 =4 '1.<> , , / ?7.'>.' >7'7
>.6 6, / / .6 <>. .66' 1.6 '5" ' ' '1 / . / .<7 .7 '5" '
6,5>.' >.6 J '1>.6 <'7 , 7'5.6 >.67 <>.6 '5" >.E.<6.'>.6
E1,< >1.68 '471.'>.' % ,6.?.'#,1'55 8 >51'<J.1 >.'<'M
7 ,<8 =4 ' '<<, <; .'=4 5 " ?1 6 >.6 / .641.6 ?,41 ?5' ; .1 5.'
6 >J.'>.' 6" E,174<.'>'<6 4< 1,V'4 / .' 1.J.<>1.' ?'1 4<.'
; ,<67 747 ,<E 01.8 .7>. / '<>.' .< ; ,<6.=4.<; .' '0,< 1 >. '
>1, 76 >.' ; 5,V.<6 E1' ,=' 6% %
" 6>'<; .' .67 5. - >.' ' 71, 6 0.=1.68

! b ʿ ʿ ,< ʿ Dʿ EE5 5%

F ʿ C)ʿ + ʿ (* % +ʿ < ʿ H ʿ ʿ ʿ E7.1 %

37< %

ʿG 9 ʿ&ʿ)ʿ 4 ʿ +ʿ .6&5,77.6 ,75, / '<.ʿ .71<66.ʿ 6;ʿ6,<7 5 -1ʿ 4<ʿ; , / 0'7 E,17 6'<J5'<78 5.ʿ ʿ >.ʿ ;ʿ <. , 68 >'<6 5" / .1ʿ , 1.8 . 71.ʿ '1<" .7 #'- .1<'% .<\ J'J. / .<7 " >41>ʿ ?546>.ʿ : 4 7 : .41.6ʿ .75.6>.4@E5, .6 ,<7 .664V>ʿ >0ʿ >, / / 'J.6 ; ,<6 >.1'05.6% <- 1 ,< 71.<7.ʿ - 5.6 6,465.6 ,1>1.6 >, ʿ - ; . ' / 1'5 b. > 5 8 =4 ʿ .67 5.ʿ ; , /M / '<>'<7 >>6% 5J>1 .<68 J.71>4- .<7 >>0>ʿ >'<6 5.ʿ >>71, 7 >.ʿ5" / .1ʿ , 1.ʿ ? , ,1ʿ 6 V 1>?'1.1% 546 .416 >.ʿ ; .6 <'- 1.6 6,<7 >> / 7>6 .7 >'<6 4< >7'7 E,17 >>5'01.% 34'<7 '4 ; '? ʿ 7'< ?' . : '8 7.<'<7 .< ; ,1.ʿ5" / .1ʿ ' - .ʿ 5.ʿ 1.67.ʿ >.ʿ6,< .6; ' ʿ >1 .8 5 6 '??1, ; : .ʿ >.ʿ ?546 .< ?546>4 ; '<'58 .7 .< '75.<> ;ʿ 07,47 / , / .<7% .6 ' - 6 1;E46 '4 64V.7>.ʿ ; .57.ʿ 'EE' 1.ʿ 6,<7 6ʿ ?'17 '4@8 6ʿ ; ,<71'> ;7, 1.6 5.6 4<6'4@ '471.68 =4 5 >.- ,<7 / ?,66 05.ʿ > .< >1.66.1ʿ 4<.ʿ 1.5'7 ,< '475 .47 =4.% " <,4-.55.ʿ >4ʿ 1' 7.ʿ >.ʿ ?'E@; .< ;54 .<71.ʿ . / ?.1.41ʿ .7 5" ,17.ʿ " >7>ʿ '??,17>.ʿ '4ʿ > - '<5.ʿ * >.ʿ ;.ʿ / , 6N .50.ʿ V " ;'46.ʿ ,<.ʿ 0 ,ʿ .@71. / .% ! .7 0 .41.4@ >->< . / .<7 .67 1.ʿ J'1>.ʿ ; , / / " '- '<7 ; ,41.41ʿ >.ʿ 5"?' @ '- .ʿ; 5.6 K466.6% . / ? 1.ʿ ,77, / '< .67 .< ?1, ,ʿ '7'47 >.ʿ ; '5' / 7>6 =77.ʿ 5" ?1. / .1.ʿ <,4- .55.ʿ >.ʿ 5" ?' @ '- .ʿ ;5" ; ,4@>.ʿ 466 .ʿ ; '4 ʿ 6'1" 4<.ʿ ' 1.66.ʿ 4< - '16.55.%

5 %

ʿ 22 ʿ ʿ)ʿ ! H > ʿ 1, ʿ '6,4671' 7 ?54M 6 .416 01'<; : .6 >.ʿ 041 > ;5 ,< '4 J,4- .1<. / .<7 >. ; .77.ʿ - 55.8 .7 5.6 ' '7 1 04>.6 '4 / 'J 671'7I .6 <,4- .55.6 >.ʿ 5" H <5'<>.ʿ ?,17.<7 7,40,416 =4 5 V " 4<; ,1?6 >.ʿ K466.6 6<1ʿ 5.6 E1,<5 1.68 =4 ʿ 71' - ' 55.ʿ ' V >5.ʿ - .1>ʿ <,4- .55.6 E,17 E ;'7 ,<6% <<.ʿ ?'15.ʿ ?546>4- ,V'J.ʿ ?1,0.7>ʿ >.ʿ %8 % .ʿ .7.160, 1J% ʿ >4.ʿ >.ʿ 4>.1 / '< .ʿ .67 ?'17ʿ > ; 8 =4.5=4.6 4<6 > 6.<7 ?, 41ʿ #'156;1,<'8 , ;ʿ ,< ; ,<7 <4.ʿ : >?'1.1ʿ 5" E5,77.% <'6641.ʿ =4.ʿ 5.ʿ ; , /7.ʿ >.ʿ K.- .<75, [8 .<- ,V>ʿ >.ʿ % %>'<, 6.8 =4ʿ >7' 7 ?'17ʿ > ;ʿ '- .ʿ ; .<J>ʿ >.ʿ 6" ; ,418 <.'1.- .<>1" ?, <78 .7=4.ʿ 5.ʿ 0.4<.ʿ ; , / 7.ʿ >.ʿ K.1<67,1EE 5.ʿ 1. / ?5' . .1'8 % / '<; : .ʿ ?'66>8 '?1>6 5.ʿ 6.1- ; .ʿ > - <8 =4.5=4.6 >>?4ʿ 7>6 >4ʿ / 'J 671'7 .7 >.ʿ 5" 0,41J. , 6 .ʿ >.ʿ ; .77.ʿ - 55.8 .ʿ 5" 7>7.ʿ >.6=4.56 .7' 75.ʿ >1,67 .7 - ; . 67'70'57.1ʿ : / '<?8 ,<7 40ʿ 7.<4 '4> .< ,.ʿ >. % % .ʿ ?546 '<; ;< >.6 0,41J / .671.68 % 1 .1 / '=8 " ?1>6.<7>ʿ '< / ,<'1=4.ʿ 4<.ʿ / >>'55.ʿ > ,1ʿ =4.ʿ 5" 0,41J. , 6 .ʿ " E' 7 E1'??.1ʿ .< / > / , 1.ʿ >4 / .66'J.ʿ =4.ʿ % % 54 E 7 '>1.66.1ʿ ?.4'?1>6%6,< >>?'17 ?, 41ʿ 5" ; ' / ?'J<.ʿ >.ʿ H <0'<>.8 ?, 41ʿ 5" 1. / .1; .1ʿ >4 6.1- ; .ʿ 0>ʿ =4 .75.ʿ ' - ' 51,<>4 .ʿ5" J'1>.ʿ >4 ; : > . '4?.<>'<75" J4.11.8 #.77.ʿ / >>' 55.ʿ ?,17.ʿ > 4< .>7>ʿ / 'J.ʿ >4 ?1 <; .ʿ 1,V'5 ' - .ʿ ; .77.ʿ <6;1 ?7 ,<N% */ 2 ʿ Aʿ & A ʿ 41ʿ 5.ʿ 1.- .16.674< .1;41.=, ʿ ?'1'77 ?,17.1ʿ << / .66'J.ʿ :ʿ 4<.ʿ E. / / .ʿ >>. ,1>.ʿ > 4<.ʿ ; ,41,<<.ʿ / ,1'5.8 >>6 J<'<7 5" - 55.ʿ >.ʿ 7 , ; : ,5 / 8 >,<7. 5.ʿ 7 .<7 >;466<<>ʿ 5" / ' <% " >J.<>.ʿ ?,17.ʿ ; .6 / ,76 - - Aʿ & ʿ 41ʿ .@,1J4.ʿ ,<5 7 ; .4 7 ; N 8 ʿ ! C*ʿ ʿ (* %G ʿ 2ʿ < ?1>6.<7" .<ʿ 64 7.ʿ >.ʿ 6. / 05'05.6 / >>' 55.6 '4@ > - .16.6 ?.16,<<.6 =4ʿ >, / ?,6.<7 5" E' / 55.ʿ >.ʿ % %

ʿ ! %

ʿ8) (ʿ ʿ*ʿ ʿ +$ .1, ʿ " 1.=4 '40,41ʿ > : 4 8 >'<6 6,< .0>7.ʿ 4 >.ʿ '0 .<; 8 >.ʿ 5" ?'17 >.6 ?.1ʿ ,<<.6 >.ʿ > 67 <; 7 ,< .7 >.6 / < 671.6 >71'<J.168 5.6 ; , /M ?5 / .<76 > 46'J.ʿ ; : ; ; '6 , ʿ >.ʿ '<< - .16' 1.>.ʿ 6,< .5.;M 7 ,< '471><.ʿ >.ʿ 5" ,5, J<.I 5 V '41" ; ; 6, 18 >ʿ ; .77.ʿ , ; ; 'M 6 ,<8 4<6, ,<.1 6?5.<> >.ʿ .7 ,< E.4 > '17 E ; .% % ʿ ! ʿ8 & ʿ ʿ ʿ ʿ + 77 - '<7 5.6 <,4- .55.6>.ʿ .160,41J8 5.ʿ 5 47.<' ,7 J><>1" ʿ ,0.5 ,7. / <8 E1>1.>4 J><>1' 8 " ,07.<4ʿ >.ʿ / ?>1'71 ; ʿ 5" ?,1 / 66 ,< >.ʿ -,V'J.1 ?.<>'<7>.4@ '<6% <6,< '06.<; .ʿ 5.ʿ J><>1" ,415; : .< < ,[6 ' ; =4 77.1" > .6 ,<; 7 ><6 >,ʿ ; , / / 66'1 '7>.5 '1 / >.8 =4ʿ .67 6,< >>?'17. / .<7% .6 466.6V .< .<7>. [1.> / J1.1> <'?' .7 >.6 > .I

>1 .8 +ʿ / .ʿ ' .

71 ;76 ; 1; ,<- , 6 <6 =4'5,10.ʿ / 55.ʿ <> - >46 / '5.6 .7 6@ / 55.ʿ E. / / .6 ,4 E 55.68 >'<6 5.ʿ >.66. , ʿ >.ʿ ?.4?5.1ʿ 4<.ʿ ?'17 .ʿ >.ʿ 5" #1 / . .%

ʿ< ʿ ʿ(ʿ + < / '<>.ʿ >.ʿ >5.160,41J ʿ =4.ʿ .6; '>1.ʿ >.ʿ ! 1,<67'>7 .67 .< >>6'1 / . / .<78 .7 =4.ʿ ; .5 .ʿ >.ʿ - .5 V1.7 ,41 .1" ?, 41ʿ >71.ʿ >>6'1 / . ʿ >J'5. / .<7% ʿ ?1 <; .ʿ ,7. / < >, 7 ' ; 0.- .1ʿ > '66V5" ?' ; 5 ; '7 ,< '- . ʿ 5" ,17. 77, / '<.I 5 " ,1>1. >.ʿ 6" ; ,41ʿ >.ʿ - . 55.1ʿ '4@ <7.1>76 >.6 ?1, - <; .6 >.ʿ '5' ; : ʿ .7 >.ʿ ' ,5>'- .8 '?'8 ?'E. / / .<7 ?,41ʿ 5.6 ; ,46.1- .1ʿ :ʿ 4 54.<; .ʿ >.ʿ 6" ; ,41%

) $. + + (

ʿ ʿ (ʿ (ʿ +ʿ .ʿ ?1 <; .ʿ ,4 6 >.ʿ H1466.ʿ .67 >.ʿ V.7 ,41ʿ >.ʿ 5>6 .8 .7 % >.ʿ B.1700.1J >.ʿ 1.5 ,41ʿ >.ʿ 6.6 7.11.6.< , / .1'< .% ; '>. / .> '17 55.1 .ʿ .67 / ' <ʿ 7.<'<7 .< ? .>I ?5.ʿ .67>- 6>.ʿ .< >.4@ ;5'66.6N >'<6 5" ?1. / .1.ʿ ;5'66.8 .ʿ 5'=4.55.ʿ '??'17 .<<.<7 5.6 ,EE ; .168 5 V " =4'71.ʿ ?1,E.66.4168 6' - ? 1ʿ N 4< ?1,E.66.41?,41ʿ 5" 6; .< ; .ʿ / 5 5' 1.8 5.=4.5 < .67 ?'6 .< ; ,1.ʿ > 4I 4< ?1,E.66.41ʿ >.ʿ / '55 . / '7 =4.6 .7 > .% ?: V6 =4.I 4< ?1,7.66.41.< 0 67, 1.ʿ .7 .< J>, J1'?: .8 .7 4< =4' 1 > / .ʿ ?,41ʿ 5" ?.1E. ; 7 ,< >4 67V5.ʿ >.ʿ 5" 5'<J, . '55. / '<>.% '<6 5" 6. ; ,<> . ; 7'6 ; 8 ʿ 5' ʿ =4. 5.ʿ '??'17 .<<.<7 5.6 0'6 ,E5 ; .168 5 V " 4< / ' 1.ʿ >.ʿ 5'<J4.ʿ '55. / '<>.ʿ .5 71, 6 / '571.6 >.ʿ 5'<J4.ʿ E1' ,?' 6.I ,< ; , / ?7.ʿ =4.ʿ 7,47 6.1" .< .@.1;5; .ʿ 5.ʿ F ; ; ,01.%% %

" 67'74.ʿ = .5.6 > '56>.ʿ 5" , / >1'< .ʿ E.1, 7 >1 J.1ʿ '< E.4 1, 8 ʿ 7.< <8 6.1" >.ʿ / '101.ʿ 05'<; >.ʿ # '11'1.I ,< ?1.<>1" .< 5>6 .ʿ 5.ʿ / '101.ʿ =4ʿ 6.1- 1" >.ʿ ? >>.65'5% " 0'45.41ʿ >.ʿ 5" 67'74.ʿ 6.1" >.ʿ 6.?7 ? .>6I ,< 1.?1>6.<7.1" 5.ʿ 1, ʿ >'<66 ,< ; ,674 / .ʿ / 5 7' 1.ʿ ,1> <' 1.8 .< V '0,45'<75.ʿ / '<7.ʿ 4 1,V'5% #.77.ʿ 67'74.ʿ >, 7 >71.ʿ < .ʿ '< / , 6 >.ʿ 6.?ʿ 5. / 01.ʿ >.ʿ '< >.?1, ;0' <.%

H # %

8 ʿ ʿ +ʿ % 1. 550 '1>' 5'< " >7>ʿ <, / / >ʿ >>?4 >ʿ ʿ 5" ?1. / >1.ʿ 5>JI 65'541.%

: ʿ & ʿ +ʿ ʿ ʿ (* 8 ʿ ʿ & ʿ , ʿ ʿ ʿ , ʿ ʿ G ʿU

" ʿ 0,<<.41ʿ >.ʿ - ,<6 1.<>1.ʿ ; , / ?7.8 <.665 168 >.6 64 7.6 >.6 E>7.6 =4.ʿ < ,46 ' - ,<6 ; .5>01>.6 >'<6 5.ʿ ?'V6 >.ʿ '=@8 5.ʿ C) 04 < .7 5.ʿ U 04 55.7% ,46 ' - .7 >ʿ J<> V '?ʿ ?5'4> 1I - ,46 <,46 ' - .0 / '1'4>ʿ - ,71.ʿ 6,<6 0 5>I - ,46 <,46 " - .0 0,<,1>ʿ >.6 , , / 6 >.ʿ E1>1.6 .7> ' / 68 .7 ʿ ?'1ʿ ; .6 5 71.6 J5,15.<@8 <; ,1?,1>6 ʿ 5" <'7 ,< E1'<=' 6.8 <,46 - .46 >. ,<6 6'<6 >,47.ʿ ʿ 1>; 7 >.ʿ <,6 / '5: .416I 56 ,@; 5.1,<5 - ,71.ʿ '57.<7 8 .7 - ,46 6.1.@E1'??>6 >, ʿ ; ,<671'70=4.ʿ 1>ʿ 6,<7.<7>.4@ <'7 ,<6 - , 6 <,6% % ʿ " 1 .< ; .ʿ >.ʿ K.1<.ʿ < " ?'6 -4 ; .6 >5.6 >4 / > / .ʿ ,5 =4.ʿ - ,468 / .66 .416% >6=4 .55.ʿ .< .47 5" <,4- .55.8 .5.ʿ ?405 " 4<.ʿ >. ;5'1'7 ,< >.ʿ J4.11.ʿ ; ,<71.ʿ 5.6 0'0 5'< 6 >4 ?'V6 >.ʿ '4>I% .5.ʿ '<<, <; " =4 <> J<>.ʿ >.6 <6,5.<; .6 ; , / / 6.65.ʿ '04 55.7 . 5.ʿ ' - ʿ 5'?1 6 >.6 / .641.6 / 5 7' 1.68 =4 .55.E' 6 5' - '<; .1 >.6 71,4?.6 ?,41 ?4< 1 7,46; .4@ =EE ' - ' .<7'66 67> ,4?'15 ; ?> ʿ ; .6 E>7.6I #.77.ʿ >> ;5'1'ʿ 7 , ʿ ; '46" '4;4, ʿ '5'1 / .I < ;147=4.ʿ 5" 1.E5.@ ,<1' ʿ / >< .1' 7 ; .77.ʿ 1>J.<; .ʿ >.6 6.47 / .<76 ?546 1' 6,<<'05.68 .7=4.ʿ >.6 E>7.ʿ ʿ ʿ 5'<.ʿ 6 >7' 7 ; , / / 6 '4;4<.ʿ <>. . <; .8 , '5.ʿ ?.4?5.ʿ ' - '5 / ,<71>5" ?546 J1'<>.ʿ / ,>>1'7 ,<8 <.ʿ ?,4 ' ,<7> 1.ʿ 1.J'1>>.6 ; ,1' / .ʿ ; /5<. 5.6% < ;147=4.ʿ 5" 0 , .ʿ =4 <6? 1' 7 5.ʿ 0,<0.41ʿ > 4<.ʿ <'7 ,< ,56 <.ʿ 8 6'<ʿ 5'=4.55.ʿ <,46 <.ʿ ?,4- ,<6 6406 67.18 .7 >,<7 5 .67 / ?,1M 7'<7 >.#457 V.1ʿ 5" 0 .<- . 55'<; .8 <.ʿ ?,4- ' 7 '77 1.1ʿ 641ʿ 4< ?. ,?5.ʿ 6.<6 05.ʿ .7 0 .<E' 6'<7 5.6 0,11.416 >.6 ?1,6; ? ʿ 7 ,<6% #.77.ʿ 5546 ,< < " ?'6 >41>ʿ 5,<J7. / ?6% 1, 6 ; , / ʿ / 66' 1.6 0.1<, 6 ,<7 > >ʿ .<- ,V>6 ?'15" '1>J.<; .I 56 6.ʿ 6,<7 >7'05 6 '4 / 5 .4 >4ʿ ?'V6I 76 ,<7 '> / 6 7 ,45.6 5.6>>5' ' 7 ,<6 6. .1>7.6I 56 ,<7 ?1, / 76 >.6 1>; , / ?.<6.6 ʿ ; . ,@=4ʿ - .<>1' . / ' ; ;46.1ʿ 5. ,16 ?'1.<768 5.416 ' / 6.7 5.416. ,<ʿ ; 7,V.<6% #.?.<>'<7 5.6 71,4?.6 6 '- '<E' / .<7I .50.6 6,<7 '11 - >.6I .55.6 ; ' / ?.<7 ' / ' ?,17.6 >.6 - 55.6 >" ! ʿ >W

'4>8ʹ .7ʹ5. "?1, : .>41.6ʹ ,47ʹ ; , / / .<; .% # .ʹ < .ʹ6, , 7ʹ?'6ʹ5.6ʹ 1 04<'4@ =4ʹ 5.6ʹ <6714 6.<7ʹ 5)3ʹ " '77.4<.ʹ ' ; '46'7 ,< ?405 =4.1ʹ 71, 6; , / / 66' 1.6 ,E,1 / .<78ʹ '??.55.<78ʹ04J.<7 .7ʹE,<7 .<5.-.1ʹ5.416ʹ ; ,<; 7,V.<68ʹ 6'<6ʹ5.6ʹ ; ,<E1,<7.1'1. ;ʹ 5.416ʹ>. '7.4168ʹ 6'<65.41ʹ>,<<.1'4;4< / ,V.<ʹ>.ʹ>>5.<6.7ʹ 6'<6ʹ5.6ʹ .<7.<>1.%

546 .416ʹ ; 5,V.<6ʹ>.ʹ '46'<<.ʹ6,<7ʹ>'<6ʹ5.6ʹE.16Iʹ ,<ʹ5.6ʹ "71'<6?,1 .6ʹ >.ʹ <4 78ʹ ?'1ʹ5.ʹ5' ; 8ʹ #0 55,<8ʹ =<.ʹ5" 1 J.<; , " ;0, 6ʹ?,41ʹ0'67 55.% ʹJ1'<>ʹ<, / 01.ʹ>.6; 7,V. ,6ʹ >.6ʹ '471.6ʹ - 55.6ʹ " '0'<>,<<.ʹ5.ʹ ?'V6ʹN 6ʹ6,<S E4JB E6% 34.5ʹ .67ʹ5.41ʹ ;1 / .Z # . 7ʹ> ' - , 1ʹ ?1 6ʹ ?'17ʹU 1,71.ʹ0,<ʹ E'.<1Iʹ> ' - , 18ʹ>'<64<1.?'6%. . ->5.ʹ0,<<.7ʹ>.ʹ!4 55'4 / .ʹ .55Iʹ> ' - , 1ʹE' 7ʹ>.6ʹ -,.4@?,41ʹ5" ; ,<67 747 ,< =4.ʹ - ,46ʹ - ,46ʹ.7.6ʹ>,<<. . Iʹ> ' - , 18ʹ5.ʹ0,41ʹ>.ʹ5" E.>.1'7 ,<8ʹ?,17.ʹ - ,71.ʹ ; ; 'I>.% .416%E. / / .6ʹ6,<7ʹ ; ,4?'05.6ʹ >.6ʹ / . / .6ʹ >. 76Iʹ .55.6ʹ6.ʹ 6,<7?'1. .68ʹ ; .6ʹ / . / .6ʹ0 ,4168ʹ > .> '1?66ʹ '4@71, 6ʹ ; ,45.416Iʹ . 5.6ʹ6.1,<7ʹ ?4< .6ʹ>'<6ʹ5.416ʹ .?,4@% .7ʹ >'<6ʹ 5.416ʹ .<E'<76% " ; ,<67.1<'7 ,< .67ʹJ.<.1'7.8ʹ .7ʹ ; .4@ =4.ʹ - ,46ʹ '- ." 0,<,1.6ʹ>.6ʹ<, / ' >.ʹE1.1.6ʹ .7ʹ > '7 46ʹ - ,<7ʹ?.1 1ʹ>'<6ʹ5.6ʹ64??5 ; .6% ,46ʹ<.ʹ - ,46ʹ6, / / .6ʹ?, <7ʹ .71'<J.16Iʹ<,46ʹ'-,<6ʹE' 7ʹ ?'17ʹ.ʹ>%4 6. ; ,<>ʹ V'4 / .ʹ>.ʹ K,41J,J<.% ,46ʹ - ,46ʹ ' - ,<6ʹ .7.ʹ 4< 6Iʹ '<,6ʹ / >'4168ʹ<,6ʹ 5, 68ʹ<,71.5'<J'J.ʹ6,<7ʹ5.6ʹ / . / .6Iʹ<,46ʹ - ,46ʹ6, / / .6ʹ'7ʹ 8ʹ7ʹ ;0.6ʹ?'1ʹ5"1. ; ,<<' 66'<; .8ʹ .7ʹ5.ʹ>.6?,76 / .ʹ<.ʹ?,17.1" 0' / ' 6ʹ '4;44.'77. <7.ʹ"<,6ʹ6.<7 / .<76%

$!T ' .(ʹ & % &

ʹ ʹ*

ʹ ,<<. 468ʹ5.ʹ ' ' .07ʹ (* %

ʹ / / ,17.5ʹ . ,<8ʹ

& 1,->. ; - ,<7ʹ>. / .ʹE' 1.?.1.?,415'77.<- 0 / .ʹ E, 6ʹ>.?4 6ʹ / ,< / '<'J.% ʹ .67ʹ<.ʹ 4<ʹ ; 7,V.<ʹ>'<6ʹ5 . / j ?'1.I 5.ʹ?'1.ʹ=4ʹ <' "?1, ; 41.ʹ .@ 67.<; .ʹ - ,4>1' 7ʹ=4 5ʹ<.ʹ E07ʹ.<71.ʹ 641ʹ5" 6;0<.ʹ >77ʹ / ,<>.ʹ=4.ʹ6,46ʹ4<.ʹ : .41.46.ʹ ; ,<67.55'7 ,<8ʹ >,<7ʹ5.6ʹ <E54.<; .6ʹ0.< J<.6ʹ .7.<> 66.<7ʹ0 7,777.6ʹ5.6ʹ ' ; 7 ,<6ʹ,7ʹ0ʹ7,465.6ʹ , - .< . / .<76ʹ>.ʹ 6" - .% ,41ʹ 1. / ?5 1ʹ5.ʹ - ; .4>.ʹ ; ?01.8ʹ =4ʹ - "1.>,405.1ʹ>.ʹ6, <6ʹ.7ʹ>.ʹ 71' - ' 5ʹ?,41ʹ>,<<.1ʹ0ʹ / '<J.1ʹ0ʹ7 46ʹ ; .4@ =4ʹ ; , / ?,6.<7ʹ 6"?.7 7,1.?4 :5 =4.8ʹ'E<=4 .55.ʹ<.6, 7ʹ0' / ' 6ʹU ; : '1J.ʹ05" 6, ; .7.8ʹ74ʹ>.-1' 68ʹ <; ,114?7 05.ʹ .7ʹ ,<8ʹ54ʹ ' ; : ,1>.1 " J1' ; .ʹ <.67 / '05.ʹ>.ʹ545ʹ5' 66.1ʹ ?,17.1ʹ7,< , , / I ; .ʹ<, / ' =4.ʹ 5.6ʹ -1' 6ʹ ' / 6ʹ >.ʹ<,71.ʹ6' <7.ʹ ; ,<67 747 ,< 10-01.<7ʹ ?1.6=4.ʹ05 .J'5ʹ>. ; .54ʹ>.ʹ5" - < 7.8ʹ ; .ʹ<, / ' =4 5671'<6ʹ / .7 1,<7ʹ0ʹ5.416ʹ>.6; .<>'<76ʹ ; ,1, / .ʹ 4< ?1.6.1-'7 Eʹ?1.G ; .4@ ; ,<5 .ʹ5" ; '?7'7 ,<8ʹ5" 640,1<'7 ,<8ʹ 1 <71 J4.85.6ʹ E' ; 7 ,<6% ' 66.?,17.1ʹ7,<<, / '04<ʹ .<E'<78ʹ<,71.ʹ1.6?. ; 7'M 05.ʹ ' / 8ʹ=4ʹ<.ʹ5.ʹ?1,<,<; .1"=4 ' - .ʹ4<.ʹ6' <7.ʹ - .< .1'7 ,<% ' ; ; ,1>.1'6 74ʹ ; .77.ʹJ10; .8ʹ> ' / ʹ>.6ʹ : , / / .6Z .ʹ71. / M 05.ʹ>.71.ʹ1.E46.ʹ' >'< / ,<67"0,<7>ʹ / .ʹ1'6641.Iʹ .7ʹ0 ,6.ʹ 7.ʹ>1.ʹ=4.ʹ 6ʹ 0 .7' 6ʹ .7ʹ,< .7ʹ =4.ʹ74ʹ E466.6ʹ ,7 '<8ʹ 6ʹ ,4'< / ,ʹ>. / <,>'7 ,<.ʹJ10; .ʹ=4.5; ,<= , .8ʹ0.ʹ5" 54ʹ ' ; .ʹ ; , >.1' 6ʹ5,47ʹ>.ʹ64 7.% > .48ʹ < ,114?7 05.ʹ5.J 65'7.<1ʹ ' >.48ʹ ' / ʹ>.6ʹ ' ; ,0 <6 %%% '> .48ʹ5"7.11.41ʹ>.6ʹH.4 5ʹ 5'<765%%% .ʹ7 ' / .ʹ>.ʹ7,47. / ,<ʹ0 / .8ʹ .7ʹ0.ʹ7 . / 01'66.>.ʹ 7,47ʹ / ,< 7. ,15

&ʹ & ʹ ,4'<ʹ5.ʹ0.4<.8G

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'1 68ʹ5.ʹ)*' ,07ʹ (* 8

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& ,71.ʹ5.571.ʹ / " ?1,E,<>. / .<7ʹ . / 4% .ʹ6456?01.8ʹ .7ʹ '4>,4@ <, / ' > .<E'<7ʹ / ,< 0 / .ʹ 1.66' 55.ʹ 7,40,416 0.ʹ ?.<6ʹ0 ; .54ʹ =4.ʹ < ; .5 / " >,<>8ʹ .7ʹ=4.ʹ0.ʹ ; : .1 6ʹ?546ʹ =4.ʹ / "- .% ,46ʹ - ,45.0ʹ=4.ʹ0 .< '>,?7.ʹ 4<ʹ 6. ; ,<>Iʹ ; .ʹ 6.<7 / .<7 / .ʹ7,4; : .ʹ7 / 0 ,<,1.8ʹ0.ʹ<.ʹ?4 6ʹV 106ʹ67.1% #.ʹ < .67ʹ?'68ʹ ; / / .ʹ - ,46ʹc.ʹ>7.68ʹ 4<.ʹJ10; .ʹ=4.ʹ0.ʹ - ,46ʹE.M 1'58ʹ / ' 6ʹ 4<.ʹJ10; .ʹ=4.ʹ0.ʹ 1. ; . -1' ʹ>.ʹ - ,46% 4 6ʹ .ʹ5.ʹ <,4- .'4 <0ʹ / 0 .1ʹ=4.5=4.E, 6 / ,<<, / '4ʹ ->71.5%%ʹ?4 66.ʹ 7 5ʹ ' / .1ʹ5"?'71 .ʹ .7ʹ5" - .174ʹ ' ,46ʹ54ʹ6.1- 1.0ʹ>.ʹ / ,M >45.ʹ.7ʹ>.ʹJ4 >.8ʹ .70 .6?01.ʹ=4 5ʹ<.ʹ6.1" ?' ʹ <> J<.ʹ>.ʹ <,46ʹ>.4@% .5 . / 01'66.ʹ7.<>1. / .<7%

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.6ʹ 6V<> ; 6ʹ>.ʹ 4< ,<ʹ>.6ʹ ?,17. 16ʹ>.ʹ5.771.6ʹ>.ʹ. : '<J.8ʹ 7 / 01>.6ʹ 8ʹ641ʹE.4ʹ %K'4>'1>ʹ>.ʹ '<7. ' / .68ʹ <ʹ - 7.<78ʹ ?,41ʹ5" >.1< 01.ʹ ,68ʹ. .4@ʹ>.6ʹ?,17.416ʹ=4ʹ<, Bʹ?'6ʹ .<; ,1.ʹ6 J<>ʹ5" >05 001'7 ,<ʹ>4ʹ Fʹ>4ʹ ?1>6.<7ʹ / , 6ʹ>.ʹ6.?ʹ 7. / 01.ʹ (* 8ʹ , "=4ʹ<>'7ʹ ?'6ʹ .< ; ,1.ʹ> ?,6ʹ5.416ʹ5 71.68ʹ 5.ʹ - ,45, 1ʹ0 .<ʹ1. / ?5 1ʹ ; .6ʹE,1 / '5 7>6ʹ <> 6?.<6'05.68ʹ .78ʹ?,41ʹ . .5ʹ.E .58ʹ6.ʹ1. < .ʹ <5 >74>.ʹ>.ʹ G # : '<>,78ʹ<,7' 1.8ʹ14.ʹ 8ʹ %ʹ ,466.'48ʹ' - '<75.5 ʹ>4ʹ / , 6ʹ> , ; 7,01.ʹ?1, ; : ' <8ʹ?'66" 5.=4.5ʹ7.1 / .ʹ 56ʹ6.1,<7ʹ ; .<606ʹ< ' - , 1ʹ?'6ʹ <7.<7 ,<ʹ>'>: .ʹ 1.1ʹ ʹ 4< , : % H;aK " 01.6%

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&ʹ 6<.8ʹ) 8 %5 -1.6ʹ?,41ʹ ; , / / 4< ; '7 ,<6ʹ - ; <'5.68ʹ >.66. .0. / .47ʹ>.6ʹ / '1' 68ʹ0ʹ# : 07.'4 0 .11V8ʹ ; '<'5ʹ>.ʹ5" , / / .%

" 5a.18ʹ(8 ʹ5 -1.6ʹ?,41ʹ ; 41. / .<7ʹ>4ʹ5ʹ7ʹ>.6ʹ1 - 01.6ʹ > 58ʹ>.ʹ34.4<.8ʹ>.ʹ '<7.4 ʹ .7ʹ>4ʹ# : .18ʹ>.660. : . / .47ʹ >.ʹ / '1' 6I

&ʹB'47.6 5?.68ʹ(8 ʹ5 -1.6ʹ?,41ʹ ; ,<6714 ; 7 ,<6ʹ>.ʹ>M J4.6ʹ ; ,<71.ʹ .61 - 01.6ʹ .7ʹ7,11.<768ʹ 6417,47ʹ ; ,<71.ʹ5" 4M 1'<; .8ʹ5.ʹK4. 5ʹ .75. 1 ; I

&ʹK'66.6 ?.68ʹ(8 5 -1.6ʹ?,41ʹ71' - '4@ ; ,<71.ʹ5.67Sʹ - 01.6ʹ .7ʹ7,11.4768ʹ<,7'% / / .<7 ; ,<71.ʹ5" 41ʹ< ; .I

&ʹ >0 ; : .8ʹ 8 ʹ5 -1.6ʹ?,41ʹ71' '4@ 1.5'7 E6% '4@ ; , / / 4< ; '7 ,<6ʹ?1 < ; ?ʹ5.6ʹ .7ʹ - ; , 'ʹ5.6I

&ʹ 1>.<<.68ʹ 8 ʹ5 -1.6ʹ?,41ʹ5.ʹ ; '<'5ʹ>.ʹ # : ' / ?'M J<.ʹ8ʹ< ' - J'7 ,<ʹ>.ʹ5"1 - 01.ʹ> 6<.8ʹ>.ʹE0.4E0007.50ʹ ,4ʹ 0 .16Iʹ 8

&ʹ 1 >J.8ʹ(8 -1.6ʹ?,41ʹ71' - '4@0ʹ5" 1,47.ʹ>.ʹ ,4ʹ 5 < 0K'1 ; .5,<.8ʹ0ʹ ; .55.>. '1'6 ; ,< '4@ 0' <6ʹ> 66'78ʹ > J4.ʹ?,41ʹ ; ,<7.< 1ʹ5ʹ7 1 - 01.ʹ>4ʹ .76I

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&ʹ 4>.8ʹC 8 ʹ5 -1.6ʹ?,41ʹ ; : . / <6ʹ- ; <'4@ ?106ʹ#'1M ; '66,<<.N

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W #'<7'58ʹ 8 ʹ5 -1.6ʹ?,41ʹ ; , / 74<< ; '7 ,46ʹ - ; <'ʹ 5ʹâ

&ʹ ! : '1.<7.8ʹ9 8 ʹ5 -1.6ʹ?,41ʹ>.660. : . / .<7ʹ>.6ʹ?1'M 1 .68ʹ .< ; ,41'J. / .<7ʹ >.ʹ5" / '<4E' ; 741.ʹ>.ʹ ; ,7.<> <ʹ J,450 / .I

" # : .18ʹ) 8 ʹ5 -% ?,41ʹ ; , / / 4< ; '7 ,<6ʹ- ; 0 '5.6I %

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8ʹW # ,16.8ʹ) 83 ʹ5 -1.6ʹ?,41ʹ5.ʹ>.660. : . / .<7ʹ>.6ʹ / '1' 6ʹ >.ʹ '<7 H5,1.<7ʹ .7ʹ> 5.<'I

&ʹ#>5.6 >4 ,1>8ʹ(8 ʹ5 -1.6ʹ?,4Eʹ ; ,<7 <4'7 ,< >.6ʹ 71' - '4@ >.6ʹ?,176ʹ>.ʹ / 5ʹ 7ʹ>.ʹK ?4<8ʹ ; .4@ >.6ʹ .0.ʹ / <6ʹ>.ʹ '<< ,<ʹ0 ! ,55'68ʹ .7 ; .4@ >4ʹ J<0I

& ! 1 .46.8ʹ(8 ʹ5 -1.6ʹ?,41ʹ ; : . / <6ʹ- ; <'4@8ʹ?'17ʹ ; 45 01. / .<7ʹ ; .4@ =4ʹ 6,<7ʹ'4@ ʹ0,1>6ʹ> 404 6,< .7ʹ>.ʹ H. 5.7 <Iʹ

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, %A &% ,) % $! %$ & ! * &2
*! , , & % (&% & $% A % ! , % 2! 4
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& ! 2 , (%, *! (& R ! ,
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%) %B$ % & &2 -(, C , 4% 2%4% %A
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$, ! % , ! (% 2% $ & !&X
& /+ /1 , (B /1++ VB & & P
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,2 - , $, (% , % * $$, (! !
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4 , & $, (!& ! , , , ! $ 2% (
$!$ VB& & & P
K % ! ! $ $, (% , % $$, ! , J
E , % (% ! , !) % $% 4% ($ 2% % $
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$! , ! E% % , % $% ( ) B
, % (%, & !$ & VB& & & P
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, ,) & %A , % $ & (% %((! % - (% ,
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! , $,) %B % , , ! $ & % %(&, $% &#
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X 2 & &% ! , , , B$& % ! %$
(&E & (% % $ (& && % - & ! ,
$, ! % &, EC % %4! $% (!.
(& & & , A% , & , & , (% , &! $$,
, % & % & E , $ (% & , , 4%$%B$, b
2 * & ! $, !$* , (% - & , (% ! , #
, , , ! , &T , $ & $% & , - ! , % ! ! (
\ **

[illegible]

[illegible]

! b ʿ ʿ ,, ʿ ʿ B 55ʿ %

K#ʿ WHW 3 ʿ S`ʿ '$" " "ʿ BHTB ʿ VD "

ʿ< & ʿ A Aʿ .ʿ6, -.1' <>.ʿ ; .ʿ?'V6ʿ 7 5"
1. 55.ʿ>.ʿ1,1'?1.ʿ'-.ʿ 6?'E<.ʿ " >E.5'1 ʿ =4 5 ; ,<5 <7 .G
1' 5 >.ʿ ʿ ʿ ?' @ '-.;ʿ5.6 '471.6 ?4 66'<;.6 >.ʿ 4G
??.% ʿ " 6,17<47 1.<,4-.5> ;.55.ʿ =4.ʿ 6,< ?1 > ;.66.41
'-' 5E' 7.ʿ '-.;ʿ5.ʿ '<. / '1 8 .7 5 . ʿ " 1.E4 5.ʿ?1 @% ' >.ʿ
>.ʿ:' / ? >.ʿ " '0,6 > >'4, 6.8 % >.ʿ , [.<: ,1<8 =<ʿ
>5' 7-.<4 ;S 7 ;.55.ʿ , ; '6 ,< '-.;ʿ5" E1>J'5.ʿ % ʿ
.< .67 ?'1 ʿ 5.ʿ C>ʿ>4 7 , 6 >. / .18 '?1>6 '-, 11. / ?5'6"
/ 66 ,<% ʿ \

$

@ ʿ $ ʿ ʿ ʿ 8 & ʿ ʿ ' ʿ +ʿ
.6 > '56 >.ʿ ; .ʿ1,V'4 / .ʿ'V'<5 ?1>7>8 5.ʿ>8 E,ʿ .75 , / / 'J.ʿ
>ʿ % `E% % .7 %8ʿ5" ;>1> / ,< .ʿ >4 ; ,<1, ,<. / .<7 .47 5 .4
: .1'98 '-.;ʿ5" ?, / ?.ʿ .7 5" / 'J< E ; .<; .ʿ5.6 ? <6 .@71'=1ʿ
> <' 1.6%
< > 1' 7 =4.ʿ 5.6 6. J<.3 6 5.6 ? <6 1 ;0.6 .75.6 ?546
/ 'J< E =4. ʿ >.ʿ <1,?.ʿ6.ʿ6,<7 >,<<>1.<>.0 -=46 > 1'M
J4.% ' / ' 6 5" ;,41 >.ʿ .16' 55.68 >'<6 6,< ?546 0.'<
7. / ?68 <.ʿE,7 ?546 01 55'< .ʿ<' ?546 <, / 01.46.8 .7< ,EE1 7
'< ?546 J1'<> E'07.% >->=4.ʿ >.ʿ 1'J4.8 =4ʿ " =4'71.G
- <J7 =4'51.ʿ '<68 .7 ;.57 ʿ > 5 / 4708 '466ʿ E,17 >J>8 ,<7
1. / ?5ʿ 5.6 >>1> / ,< .6 1.5 J .46.6 >4 ; ,<1, <<. / .<7% #.ʿ
6,<7 5.6 6.456 / . / 01.6 >.6 >7'76 >.ʿK, :> / .ʿ .7 5.6 6.45.6
?.16 ,<<.6 =4ʿ ' .<ʿ .4 0 ,<<.41 >.ʿ > <.1 #.0 ,<1 5>ʿ '-.ʿ
% % % 'V'-'5 >'<6 5" / > / .ʿ6'55> > @ ,4 > 47.ʿ '471.6
%7'05.68 .7 ; .ʿ6,<7 5.6 > '76 =4ʿ ,<7 E' 7 >6E1' ʿ >.ʿ ; .ʿ1.?'6%
" -' 66.55.ʿ >.ʿ 5" 7'05.ʿ >.ʿ . / ?.1.41 >7' 7 7>47.ʿ .< ,11 5
.67 / ?,66 05.ʿ >.ʿ -, 1 4< ?546 0.'4 6.1- ; .% .ʿ ;>5>E1.ʿ
! .1 / ' < < .< "0' / ' 6E' 7 >.ʿ ? <6 >5>J=<7< >.ʿ?546 1 ;0.%
.ʿ6, 18 5'V' " .4 >'<6 7,47.ʿ5" - 5 .ʿ<<.ʿ 554 / <'7 ,<
>.6% ?546 1. ;0.1;0>.6N ?'17,47 >6 5' / ? ,<6 >7' .<7 >.ʿ
.11.I >'<6 4<.ʿ <E <7.ʿ> .<>1, 76 56E,1 / ' .<7 >.6 ;0EG
E1.68 > .6,1>1.6 >>1;E' 7. ;741.8 >.6- <,E ., ?,5>-6B >.6
'1;6 >.ʿ71 , / ?0.ʿ '-.;ʿ5.ʿ ?,171' 7 >.ʿ 8 % .< 71'<6?'M
1. <7I .7 ,< " 1, / '1=<> ?546 > 4< 0>7.5 ,> ,< '-' 5 . / ʿ
?5,V> '<>.50>.ʿ - <J7 / 55.ʿ>.ʿ ; .6 5' / ? ,<6 >.ʿ - .11.8 E' 56
.@?1>6 ?,41 ; .7 46'J.% #.77.ʿ 5 < / <'5 ,< 6.1" 1>?>7>.ʿ
54<>ʿ CI 0,41 >4 ;,41,<<. / .<7 >.ʿ1 / ?.1'71 ; .%
,46 < '-,<6 ,ʿ >> / J1>6 >.ʿ H1'<;.ʿ =4.ʿ 5.ʿ >4.ʿ >.ʿ
,5 J<';8 5.ʿ / '1=4 6 >.ʿK,4 5 > .7 6,< E568 .7 '00> '0'ʿ
70 .1 >.ʿ#'671.6% " 1>?47'7 ,< >.ʿ ; .7 >;1 -' < E1'<E' 6
'-' 7 ?1>;>>> > 5" ; ,41 >.ʿ .<<.8 E 5 '> >1.=4 '-.ʿ
5" > 67 <;7 ,<5" ?546 E5'77.46. ?'17,46 5.6 J1'<>6 .7 ?'15.6
J.<6 .< ?5 ; .% . / ?.1.<18 =4 6' 5 '??1>; .1 5.ʿ / >1 5..7
1. ; <<'751.ʿ5.ʿ@#5.ʿ .7 5.6 6.1- ; .68 " ?'17 ;45 >1. / .<7 > 6ʿ
7 7J4>ʿ '00> '0'5:.18 >,<7 ,< ; ,<<'77 '66.@5.6 ?1,>4;M
7 ,<6 5 77>1' 1.6 .< E'-.41 >> ' '45,1 5>1,V'5.ʿ>41'<7 5.6
71,405.6 >.6 'V K'6 .7 >.?4 6 ;#4@ >.ʿ6 " ? '71 .8 =4 ʿ "
> > ,05 J> > '0'<>,<<.1 ?,416.6,46771' 1.ʿ '4@ E41.416
>.6 >> / ,;1'7.6 .,1'J>68R < "1. / '1=4> =4.ʿ; .ʿ5 77.1'7.41
;>5>01.ʿ '-' 5 .4 4< 71>6 5,<J .<71.5 .< ?'15 ;45 .1 '-.ʿ
% N ,< " -77?5'; ʿ "7'05.ʿ '4 ?1. / .1 1'<0I >.6 6.M
J<.416 =4ʿ '66 67' .<7 '<> <.1 >4 ; ,41,<<. / .<78 .7 5 .67
<- 5> > 7,47.6 5.6 >5.68 " 7,47.6 5.6 ;>1# / ,< .68 =4ʿ6.ʿ1>ʿ
?:7.<70,4 / .5 . / .<7% & >ʿ>77G ʿ ʿ A: F E

ʿ F 8 5.ʿW ʿ ʿ .6 : ,67 57>55 '-.;ʿ5.6
'1,;' <6 ,<7>>0ʿ; , / / .<;> ?'1 '77'=4.ʿ>.ʿ#.47'8 / '6
6,46 >. " '46? ; .60.41.4@?,41 5.6 '1 / .6 .6?'J<,5.6% .6
'1,; 46 ,<7 ;' ,<<> 5" ?5' ; .ʿ .7 .< ,<7 .<> , / / 'J>
=4.5=<.6<4 1'J.6I / '56 5.6 '66 E.ʿ ,<70 7 4<.ʿ6,17 .ʿ.7
.<;5,4>5.6 ; '<,<6 >.ʿE.<<. / % .4@E1 '7.6 .7 =4'7,10.ʿ
;0'5,4?.6 7@ 0'1>>1.6 6,<7 '11 -.5>; ʿ?,17 5.ʿCU8 >.?4 6 ; <=
0'5.ʿ>.ʿ '<J.18 ,<70 , / 0'1>> ; ʿ?,175.ʿCU8 >.?4 6 ; <=
0.<1.6 >4 / '7 <046=4 071, 6 : .<1.6 >.ʿ '?1>6 / >ʿ-'5,16
5. .<77,41<'8 .7, J.'5. 6?'J<,5U 06>1.7 1.16, ,65.

* ^< -.

;'? ?'17.58 046=4 '4 ?1. / .1 .0'<J. / .<7E'-,1'05.% '%
/ 1'5 K'1; .55,%6,17 1" 0 .< >7 '-.ʿ 4<.ʿ .6; '>1.ʿ >.ʿ - 6ʿ
6.'4@ >.ʿ 5 J, .8 ;0.0; ;6 .7 / , <>1.6 0'7 / .<768 ?,4ʿ
?1,7>J.1 5" <'- J'7 ,< .6?'J<,5.ʿ 641 5" ;>7.ʿ > E1 =4.ʿ
' / 0'66'>.41 / '41.ʿ " =4 77> 5" ; ,41I / ' 68 6,< 6,4-.ʿ
1' < ' ; ;46'<7 >.ʿ ?'15 '5 7> ?,41 <, 1.ʿ<'7 ,<8 5 ;1' <
> '55.1 5.ʿ1.0, <>1.8 .7 5 6.ʿ7 .<7 .<; ,1.ʿ .< ; ʿ1,V'4 / .8 ,ʿ
5.ʿJ,4-.1<. / .<754 E' 7ʿ?'V.1 4<.ʿ?.7 7.ʿ?.<6 / ʿ?'10, [ʿ
?,41 6"6406 67'<; .%

/ʿ

ʿ '46'<<.8 ʿ * & ʿ j ʿ #.6 0,41" >. / 5.168
% ,15,178 ; , / / 66' 1.ʿ .<-,V> >.ʿ K.1<.ʿ > ' 6'<<.ʿ
'11 -' 7I 0.'4 ;,4? >.ʿ / ,<>.>7' 7641 6,<?'66'J.8 5.ʿ .0"
?.'4 0'6 f 4< 6.'5 ?'15 ;45 .1 '-' 7 641 5" >5.% %34.5 .6
; .7 0, / / .8 " > 7 % ,15,178 =4ʿ < " ? , <7 6,< ; ; ' 7. ' ʿ
0'6Z + ʿ ʿ - .<7 5.ʿ 6'-, 18 1>?,<> >51'<J.18 =4 ,7
' 55.ʿ5.ʿ>. / '<>.1 '4 ʿ 07 '$! < .EE .7 ,< 647 0 .<7>5
=4.ʿ ; .7 <; ,<<4 >7'07 ' / 0'66'>.41 > <J5.7.11.8 =4ʿ'5
5' 7U 41 <8 .7 => 5 >. / '<>' 7 4<.ʿ1.?'1'7 ,< .< ?5. /ʿ
14.% ,47 ; ʿ=4.ʿ % ,15,17 " ?4 ,05.< 1 " >7> > '55.1E' <
>.6 .@;46.6 0 % ' / 0'66'>.418 >'<6 ,< '40. J.ʿ>,ʿ
5,< > 1%

ʿ8 ʿ +ʿ .ʿ71 04<'5 >.ʿ;'66'7 ,< 6 .67 ? >6.< > :ʿ
C ʿ>.ʿ; .ʿ / , 6 ; : .0 61, 8 ?,41 5.ʿE> ; 7.1641 ʿ; .?5'7 ,<
>.ʿ5" ; ,<67 747 ,<% ,46 1'??,15,<6 5.ʿ> 6; ,416 >4 71 0 /ʿ
<'5 .7 5"1>?,<6.ʿ>4 1, %

ʿ ʿ ʿ ʿ ʿ F ʿ % ʿ ʿ G ʿ

1.8
< ' ; ; .?7'<7 5" ; ,<67 747 ,< E1'<=' 6.8 -,<6 -.<.0 >.ʿʿ
-,46 1>4< 1 11#-,;'05. / .<7 U c" J1'<>.ʿE' / 55.> ,<7 -,46
> .6 5.ʿ;0.E% '7, -?46 ?5'; .'4 >.6646 >.ʿ<,46 ?,41<,71.ʿ
47 5 7.ʿ ; , / / 4<.% H,<># 641 5.ʿ -, .4 >4 ?.4?5.8 >'<6 5.
?'V6 5.ʿ?546 >;5' 1#>.ʿ5" 5.11.8 -, 1.ʿ'47,1 7#1.?,6.ʿ>#6,1%
/ ' 6 641 ; .77.ʿ 0'6.ʿ <#01'<5'05.8 5" 6.45.=4.ʿ5'0465 ; ʿ
?4 66.ʿ'-,4.1% .6 '?? '4> 66. / .<76>.<,61.?1.6.<7'<768
; .4@ >4 ? .4?5.ʿ =4ʿ 5.6 .47,41' 78 ; .6 '??5'4> 66. / .<5 ʿ
=4ʿ <, <7>.ʿ?1 @ =4.ʿ5,16=4 56 6,<7 >,<<#6 ?'1 >.6 / ' <6
5 01#68 -,<6 ,<7 ' ,<,<;#5" E, ʿ<< -.16.55.ʿ.75.6 ?546 7,4ʿ
.0' ,7.6 .6?#1'<..6% .6 E>7.6 <'7 ,<'5.6 -,<7 / ' < E.67.1
5.6 / # / .66.<7 / .<76 >'<6 5,47 . / ?1.8 .7; .<@ =4ʿ ,<7
.4 5.ʿ / '50.41 >.ʿ< .ʿ?'66.<7 1 5.6 '-'<7'J.6 >.ʿ; .77.ʿ1#-,G
<5 ,< ; .<,1'05.ʿ?, 1 .6?#.ʿ:4 / ' <.% ,<=4ʿ' 1'5. 7
; ,4E4 5.ʿ?1,0.7 >.ʿ5" >;714 1.8 ?,411,<7 U '-, 1 .<?'1%
7'J.1 5.6 E14 76 5.6 ?546 >, '@% <6 8 >'< ; .55.ʿ 6' <7.ʿ'5W
E '<; .8 -,71.ʿ0,<: .41 -" 6.ʿ; ,<E,<>1.ʿ>'<65.ʿ0,<: .41 >=
7,468 ; / / .ʿ-, 1.ʿ -,5,<7> >'<6 5" -,5,<7> J><>1'5.1 >,<7
5.6 5, 66,<7 .<E< .@?1.67 ,<% ,46I =4.ʿ5" ; ,<67 747 ,< "
;1#>6 ? ,41 '=<45.1 5.6 ; ,<71'-.<7 ,<6 E 7 5.6 U ; .6 5, 68
<,46 <,46 E#5 ; 7.1,<6 '466ʿ>.ʿ ; ,<71 04.1 '4 0 ,<0.41 >.ʿ
,71.ʿ =0.67.8 .<; ,<6'; 1'<7 7,46<,6 / ,V.<60 / ' 07.< 1
5.41 / / ,17.5 . / ?1.%

: ʿ ʿ

- '1.=, 6 '-.;ʿ?5' 6 1 .@?1.66 ,< >.ʿ -,6 6.<7 / .<768 .7
5.6-7K4@ 4.ʿ ,46E,1 / .0 ?,41 5.ʿ0,<0.41 >4 1,V'4 / .ʿ.7
?,41 5.ʿ / \
ʿ8 (*$.$) (, (U (#(3,$0((*,ʿ4+.ʿ0 , ((2+3,$, -(F
.(4$.ʿ0 " -(0 $. / (,ʿ +#(. ($-ʿ+0(3 +5 ((0 " +$*!
,$(*-,(U + $
A(0 " ,$(*-,+$ -(, ʿ *4 0
; ,<<' 6 -,71.ʿ0U .8 -,71.ʿ '??5 ;'7 ,< .75" 6>->1 5>>.ʿ
-,6 ?1 <; ?.6% #,<7 <4.08 .7 -,46 ' ;=4.11.0 >.0,65.6>1, 7
0 5"1. ; ,<<' 66'<; .ʿ>.ʿ-,6 ; ,<; 7,V. 6 .70 / , ʿ.6 / .%

" ' ' D

1 4'<'5 - .<7 7 .'1.<>1.'4< E<JN. / .<7 #k45 .<0,7<7 '
% 1'J4.8 .7 '7,46'471.'8 >.'?,17.1':,<<.41'.71>1>G
1.<;.''4'.;, /<566'1. '>.'' .;7 ,<6.<1,<;7 ,<68 .78 ?,41'
3' '-, 1' / '<=4>8 7.';,<>' /<..< C '5 -1."> ' / .<>.1'5,5'
E' 7 >>E.<6." >.'1>; > -.18 6,46 7.55.6 ?. <.6 =4 5 '??'1'
7 .4>1'I ,1>,<<.' /?1.66 , ' .7 'EE5;.:' '6. 'E1' 6G

80 ' S/ S' !

' '">7>1.<>48 775 :>7.5 >. 155.'>.' '1 68 5.6 *8 C 8C 8 '
C ' .7 CU 6.?7. / 01.' (* 8 ?,41'5"6, / / .'>.')(89 '5 11.6'
>.' >,? ' <.6 <'5 , , '4@8 ;,<6 67'<7 .< =4'7,1'.' / ' 6,=68
?546 .416 7.11' <6 .7 4<0'1> <8 5.'7,47 6 74>' >'<6 <7>'
1 .41>.' 5" ;'? 7'7.I 5.6 .67 / '7 ,<6 '-' .<7 >7>' ?,17>.6 U
C U8 * '5 -%')'6%

#75 K K / M- .8; %, .%;

5.4>P C*' 6.?7. / 01.' (* 8 U 4<.':.41.8 5 6.1"01 >' '
: 7.5 >.' 5" ;' 66.' >.' .@71',1> <' 1.%14.' - .<<.8 5"
6, / / .'>.')' / 55 ,<6 .<'66 J<'768 5'=4.55.8 0, <7.''4@ C('
>.0 '0105>68 E.1"#.55.'>.'C)U / 55 ,<6%
'8 & '^' '> / < 671'7 ,<'>.6 V1>>.6 1 .<G
7'5.6 " 1. 4 4< / .66'J.'> 4<'>.61>J / .<76 .6?'J<,56 >4
;,1>,< E,1 / >' 641'5.6 E1,<7 E.1.6% #.' 1>J / .<7 6 '??.55.' '
G '5 ' .67 .< J' / 6,< 0 4V; .1>'% .' / .66'J.P?,17' 7
=4.'5.'1>J / .<7 '-' 7 <7.<7 ,<'>.'?'66.1' .<'H1'<;.8 .7
.6?>1'<;.'>V U71.'1.I4' .7 ;,<6.1V>' 41'5.'? .>'>.6 '471.6
;,1?6 / 5 7' 1.6 >71'<J.16% ' ' ;.77.'>. / '<>.' ' >>?'17.'
/ .<7 " E' 7 5" 1>?,<6.' =4.'5.' >1, 7 >.6 '?.<6 .7 '55 ' ,;.
.<71.'5.6 >.4@ 1,V'4 / .6>#-' .<7 <'741.55. / .<7 64JJ>1.1%
>'< / ,<6 5.'1>J / .<7 >. ! '5 ;'"1.<-,V>' '4?1>6 >4 >>'
?'17. / .<7 E1'<.' 6 >. / '<>.1'6 8 ; , / / .' <> - >46 8 5.6 6,5'
>' 6 <.' ?,411' .<7 ?, <7 6.' ?1>6.<7.1% '> / < 671'7 ,<
< 'V'<7 <7 1>?,<> 8 ,< ;1,V' 7 'EE' 1.'7.1 / <>.8 .7 5.68
6,5>'76 .6?'J<,56 1.<71>6 >'<65.41' >.-, 18 5,1 =4.>.4@'
;.<76 > .<71.' .4@ 6,<7 '11 ->68 .7 ,<7 ?'66>' 641'5.67.11.6 >.'
H1'<;.8 5.67' / 0,416 >4 1>J / .,7 '5.41' >5.%

64 76 K ' 75 ' ' > 5' ' ' KK 50KK
9 K%

' ' ' '$

'K,0'<8 04J.>4 71 04<'5 >4 > 671 ;7 >.'#0>7.'45 < '
'5'66 68 / ?1 / .418 ,3 ; .1 / 4< ; ?'5 >.' K1.6
' ' % K .<-.<48 0, / / .'>.' 5, 8 E<' 1.>.'
34 / ?.15>I '1.;8 6.;1.7' 1.' J><>1'5 >4 >>?'17. / .<7I
B,1-'<8 04J.' 64?? >'<7 >4 71 04<'5 >.' ;'66'7 ,<8 '> / G
< 651'7.41 >4 >>?'17. / .<7%
9 - ' % .50,48 ;, / / .'>.'5,'?1>6 E.'71 04%
77'5 >.' 34 / ?.1I .01,<6,178 6.;1.7' 1.'J1.EK.1 >.'5" / 4 '
< ; ?'5 5>'>.' K1.67c

" R
' " ' $ j j

\ ' ' ' F ' <

KB ' K ' # ' ' B ' C(' BK K%

' 4 '2 '+0(U + .*-' . .9+*$'+,$ *'
- ') .(+ '3(*,.+' -(' 3 *' ,+,$ *'4 ' ('+.,"(,'
(%,$(.'/ 4 .'3 *# . (.'3(,,('$*',$, ,$ *' + 2)+'('
- '8',- ('9-*-.+'-(' $*',. 3,$ *'4) $5 (' 5/
'+0(U .(*. 8(3(' ,.+0+$' +' +'4. 36+$*(' -9$' +!'
; .(/$' (',$*-$'4(*'+) ('-('4.(*-.(' *'4-.,$4. 0$!'
' $.(' 4 .' (') .(+ ' -(' 3 *' ,+,$ * ' A(' ' $" (*'
3 *'-5 (*3(' 36+.9-' 4+.' (" 3 ,*$,-" - +9.$3 , .(',('
-('3 (.3(/ (,' -(' 3 *',$, ,$ */-(' . "4.-'(*,('.
('4. (,' -(' -- .(,' $0+*,/ 5 $ #+$,' 4+.,$(' -(' +' $'
' ' ('' .-3 4(*'(" -(',$*-(" + 2 (*3 .+9((*,"
-(" +.,';

W 66. / 05>.'<'7 ,<'5.'>>;107.'N G =4.8 ?,41' ; .77.'
'<<>.'6.45. / .<78 5.'041.'4 >.' ; ,<6457'7 ,< >.6 '176 .7 / .G
7 .16 .1" ; , / ?,6.' > 4<.'6.;7 ,< > .' =4 ,6.' / . / 01.6 >.'
.'>>/ ' > .6 ' .<;.68 4;0, @ >.' .77.' .; >7>8 .7>.'
?'1. 5 <, / 01.> 0, / / .6 <6714 76' .7.0, 6 68 >'<6 5.6>E%
E>1.<7.6 '471.6 ,; >5>6 6'-'<7.68 ?'1'5.' / < 671.'>.' <5>'
1 .41%
WCG .6 E,77;75,<6 >.6 / .<701. '>.' ;.'041.'4 <>=4>.6
>'<6 5.'7 71.'?1.;.>.<7 6.1,<7 '06,54 / .<7 J1'74 7.68 /'6
5.' / < 671.'>.'1 <7.15.41'>. / .41.''47,1 6.' 'V . / ?5,V.1'
, , / 01.>.' ; , / / 6 <.;.66' 1.68 >,<7 5 ?1.6.<7.1" 54;.6'
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O5.6 .5 >16 > 66.<6 ,<6 =4 V ,<7 .4 5 .48 .7 ,?>1.1 .<51.
5.416 : 'O 7'<76 4<. 1>; ,<; 5 '7 ,< J><>1'5.8 5. > ;1.7>4
>. ; . / , 68 6'<;5 , ,<> 5.%%%%%% ?,17'?7 'O,5 7 ,< >.
7,47.6 ?,4164 7.6 .7 ?1, ;.>41.6 641 5.6 E' 56 1.5'7 E6 O 5"
1> ,545 P8 .7' / < 67 . J>4>1'5. .< E' - .41 >.6 : , / / .6 >.
J4 .11.8 6.1" .7.<>4. '4@> 7.6 ; ,5,< .6% <G; .4] .=4.< ..8
5.6; , / / 66' 1.6; - 56=4 V ,<7>7> .<- ,V>6 ; .66.1,<7 7,47.
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#. ?1,Q.7 >. >>;1.7 .67 '>,?7>%
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>.1< O1. E'O1 ;'7 ,< 6.1' .<7 / 6 .< ; 1;45'7 ,< O / .641.
>. 5" 1.<710. >.6 '<. .<68 / ' 6 ; : '=4. E, 6 ?'1 4< >>;1.7
>4 ; ,1?6 >J 65'7 E% .6 O.6, <6 >4 71>6,1 ?405 ; <0; .66 5.
1,<7 O .<7>7 4<. . / 66 ,<8 '-'<7 ?.47 O51. =4. 5" 5.J 65'M
741. ?1, ;5 ' <. 6, 5 ; ,<65 740.% ,46 '- .O ?1,1; O 5" / 6M
6 ,<>.- ,6; , / 66' 1.6Q46=4 O ; . = 56 6, .<71. / ?5' ;O6
?'1; .4@ >.5" 5.J 65'741. 64 -'<5.% .67 / ?,17'<7 =4 56
6, .<7 '47,1 6O6 O E' 1. ; .55. . / 66 ,<%
. .< ; ,<6.=4.<; . 5. ?1,Q.7 >. >0;1.7 =4.5. #3 / 7O
>.6 E <'<; .6 / . ; : '1J. >. - ,46 ?1, ?,6.1 N
" 66. / O5O. <'7 ,<'5. >0;1O7. =4 5 6.1'8 6 5. ;'6
.@ J.8 / 6 .< O / 66 ,< 7 / 55 ,<6 > '66 J<'76 641 ?
E'O1 ;'7 ,< >0;1O7O.5. *Q4 < >.1< .18 '4 >.5O>. " =4'<
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% f. <. 5. E' 7% ,46 '- .O >>;1.7. =4 5 6.1' 7
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5 -1.68 .7;% #, / / . ; .77. E'O1 ;'7 ,< '55' 7 71, ? 5.<7. / .<7
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?,17'<7 .< ; 1;45'7 ,< 6'<6 1.7 1.1 5.6 ?1, / .66.68 " E' 7 4<
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?546 =4 5 <.>. - ' 7 V '- ,1% 6.1' 7 <>; .66' 1. >. 1>?'<
'1. 4<?.<>. 54 / >1.6 641 7,<7.6 ; .6 ,?.1'7 ,<6 5" <'7 ,<
+6'<6 >,47. 5. >1, 7 >. ; ,<<' 71. . / ?5, =4 ,< " E. 7 >.6
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K 1 N .<.6'6 6 6 ,< " <7.<7 ,< >. < 46
1.<>1. 4< ; , / ?7. & 5 =4'<7 O 1' , 8 Q '- ,4. =4 5 <.
/ . , ,<- .<>1' 7 ?'6% E' 47 <,46 >1. .@ ;7. / .<7 O7'7
,O <,46 ' 66 ,<6 5.6 '66 J<'76 >. C8 5 -%8 O =4.5 <4 / O1,
.< .67 5.41 O / 66 ,<1 5 E' 47 >. ?'1. 55.6 .@?5 ;'7 ,<6 641
5.6 '451.6 .6?O; .6 > '66 J<'76% & .6 71 O4<.6 '?5'4> 66#47%
6 A- >), & &E N < 6' 5 > ,O
- .<<.<7 ; .6 >0;5' / '7 ,46 ,< ; ,<<' 7 5.6 '47.416 > ; .6
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5.6 >.14 .16 .EE,176 >.6 .<<. / 6 >. 5" , <67 747 ,<% >.
/ '<>. =4. 66. / O5O. 5.41 7O / , J<. 5. / O?1O6 =77 56 / O
1 7.<5 .< ?'66'<7 O ,1>1. >4 Q,41%
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7 ,<6 '4@=4.55.6 <,46 '- ,<6 / 6 4< 5.1 / .8 =4. ,<71,4
- .1" 5.6 '1 65, ;1'7.6 =4. <,46 '- ,<6 . / ?O;OO6 >. ? 55.1 5.6
E <'<; .6 N - , 5O 7,47 5. ; , / ?7. =4. ,46 '- ,<6 O 1.<>1.%
. >. / '<>. =4 ,< ?'66. O ,1>1. >4 Q,41%
66. / O5. ?'66. O ,1>1. >4 Q,41% 6 E

'1 68 ; .)6 .?5. / O1.%
#, / / . " O7O 'EE ;O. ?546 .416 ?5' ;'1>6 >.?4 6 =4 <O.
Q,416 ?,41 .@; 7.1 5.6 ; ,V.<6 O .@ J.1 >.6 ; / ?7.6 >.
66. / O5O. <'7 ,<'5.8 ; , / / . 6 .55. '-' 5 .4 5. / '< .
4.<7 >.6 >.<E.16 ?405 ;6 .7 > '471.6 ,O5 J'7 ,<6 =4. >.

1. ; .- , 1 .7 > .@' / <.18 ; , / / . . .5 " E' 78 5.6 ; , / ?7.6
>.6,1>,<<'7.416 .7 >.6 >0?,6 7' 1.6 >.6 >. .16 ?405 ;68
Q. ;1= 6 >. , 1?405 .1=4.8 ; . / '7 <8 Q ' .<7.<>4 % 'OOO
'41V >1. >. 5" 71 O4<.8 O >.6 >0?47O6 =4 O7' .<7
? ,17O. >. 54 8 =4. W '47.41 >. ; .6 ?5' ;'1>6 O7' 7 - .<4 5.
- , 18 .7 =4. . O7' 7 < ; , / / . >. 5" ; , / / 4<.% Y
. ?.4?5. %6'41" ; . =4 >, 7 ?.<6.1 >. ; .6 / O / .6 ?5'M
; '1>6 8 =4'<> 5 '41" '??1 6 =4. '47. 1 " >.6 .<71.>.<6
'-O# % 'OOO '41V 641 5. 64Q.7 =4 V .67 71' 5O%
J<O 5'6 KKK8 ,

85 #, O, 1 (K K K4 K, >,<<.1,K7
,Q% E.71, <4 / 7.8 ; ? / O> . .< ' ;7.68 64 - . >. & 1'M
;5.8 ; , / O> . .< 4< ' ;7.%
BO 5 K % + 4Q% 1 ?1.4 - .7> '?.,56.8 .7 5"
G1.?1O6.<5'7 ,<>. 2 ,4 <
BO K HK # 68 14. >; ;O ;5 .4% + 4Q% 5" C1.
?1.6.<7'7 ,< >. G' & ; , / O> . <,4- .75.8
?1O; .>O. >. & '< <.8 ; , / O> . .< ' ;7.6%
4O K 1 * 8 ; > .- '<7 >. ,<6 .41%
+ 4Q% 5")O 1.?1.6.<7'7 ,< >. 2 ,?O1" E1'<E' 6
.<71, 6 ' ;7.6%
BO K , 7 KK8 '4 '5' 6
K,V'5% 4Q% 5" G1.?1.6.<7'7 ,<) &
??O1" <,4- / 4 .< ' ;7.6%
E4 K KK !6 6 K K, % + 4Q,41> :4
9 8 '5. > V.17 66. / .<7 >.6 6'47.416 I % A
G 5 7 ; , / / .<; .1" ?'1
% .7 F ? '<7, / / . ; , / =4.%
K; , #, B =, 8 '4 O,45.-'1> >4 . / ?5.% + 4Q% (
F ? '<7, / / . .< ' ;7.68 ?1O; O> >.6
.7>. ,?O1' ; , / =4.%
4Q% $ $%&
,4 ! 1 ?'1 5. ; ,4M
6 < ' ;=4.6%
- . , OK 8 14. '<7 '17 K% + 4Q% &
, $ & <3 5 ; *
8 .7 %
, ,-, 6% + 4Q%
8 , & ; , / O> . .< 4< ' ;5.8 ?1O;O>#. >. G@
E' ,?O1' O,4EE, < .< ' ;7.6%
<O < , '14. #45741. ' <5. # '5 : .1 <.% +
5" G 1.?1.6.<7'7 ,< > %%E17. / 7_&,1.8 ,4 3
71'JO> . <,4- .55.8 64 - . , &
; , / O> . .< ' ;7.6%
+ 5 / . >4 ' 58 <G *% + .65,4
- .177,46 5.6 Q,4168 Q46=4 O 7.55. : .41. =4 5 ?5' 7O %5.6
'O,<<; 6 > V 7.67.1%

.@ , -+ # B> % K 58 K %
6 ?1. / .16 / , 6 (* 8 + %5.6 ?'V.416 6,<7 '5'5.771. %
- & & 9
/ 67.1>' / %%%%%%%%%%%%%%%%%%%% OO15# '> @ % W % % %) % *1%
B' / O,41J %%%%%%%%%%%%%%%% C !O<.6%%%%%%%%%%%%%%%%%%%% (
,<>1.6 %%%%%%%%%%%%%%%%%%%% C 5%Q - ,4 / . %%%%%%%%%%%%%%%%%%%%%% C(
'>1 > %%%%%%%%%%%%%%%%%%%% * % k V,<8 , % % % '4?' 1%

;7 ,<6 >#' <>.6>. C '5 -G CC(8 ((8 (
/ ?14<7 > , .7,O1. >. '5 - %%%%%%%%%%%%%%%%%%%% U9)8 %
+ >. >. ; % ()C8 =4 74 >. E < %%%%%%%%%%%%%%%%%%%% -G $Y
+ >. C / 55 ,<68 >. ; % ()U % % % % % % 8 % Q O
> .) / 55 ,<6 '- . .O455.7 <6 % % % % 8 Q8 O
+ 6,178 .< - 'J.1 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%% O
K455.7 ,6% % % % %%%%%%%%%%%%%%%%%%%%%%%% %%%% %%%%%%%% 8 □
;7% <,4- % >.65,>.6 % %%%%%%%%%%%%%%%%%%%% % CC)8 C(8 C
#6 66.> .6; , / ?7.%%))8 8)
. / #' 66.%%%%%%%%%%%%%%%% % % % % % % % % % % % 8*C)8 C(
34 578 >.6 '4@>. '1 6%%%%%%%%%%%%%%%%%%%%%%) 8 C8
/ ?14<7>. <, -% ()(8 O U ? % c % % % $ % $ $ $ % % *
/ ?1% >.) / 55 ,<68 > ' O7 ()* % % % % % % 8 O
6641% ; ,<71.5.6 <;% *U8 * 8 *C8 *
+ O - .% %%%%%%%%%%%%%%%%%%%%%%%%%%%% %%%% (*8 8 *
;7 ,<6 >.5" #' 66. ?'71 ,7 =4.% %%%%%%%%%%%%%%%%%%%%% 9)
% h ;5'66.8 %%%%%%%%%%%%%%%%%%%%%%%%%%% * 8* U
+ CG >. / 8 O ?% UG64Q% '4 G% % % % % % % % 8
8+ G O ?% Q8 6< % '4 G%%%%%%%%%%%%%%%%%%%%) 8) U8)
+ UG >. / %O ?% I6 64Q% '4 5 .7 C 6% ?% 5 - % 8 % 8 Q

! b ʼ ʼ ʼ ʼ ʼ ! 55 %
,,
+ ! ʼ) ʼ) "&3& 4564ʼ V K <

5

ʼ ʼ W ʼ ^ʼ "5 0.17V >.ʼ5" ?1.66.ʼ
ʼ?'1' 7E' 1.7,46 5.60,416W>'<6 ..ʼ?'V68 >.<?4 .'4@?1,ʼ
J1 6% < -.<7 > /?1 / .1 ; 8 '-.ʼ?.1/ 66 ,<8 4< ,4ʼ
-1'J.ʼ=4.8 >'<6 >'451.6 &\'V68 ,<ʼ?1,6;1 1' 7 0 5" 6.45.ʼ
<6?. ;7 ,<>4 5 71.8 =4ʼ.67 .ʼ6 >-'<7 d 7 ʼ ʼ >
1 ʼ 9 ʼ) +) (& ʼ ! ʼ ʼ
& ʼ ʼ ʼ ʼ * ʼ ʼ ʼ ʼ
ʼ') ʼ '47.41 >.ʼ; .7 ,4-1'J.ʼ6 > .-.ʼ'-.ʼE,1;.ʼ
;,<71.ʼ5.6.,1?6 ?1 - 5E.J >6=4ʼ0 ,< 66.<7> .@. / ?7 ,<68 ; .65ʼ
0 > 1.ʼ; ,<71.ʼ5.ʼ;5.1J.ʼ .5 5" <,05.66.8 .7 ; ,<71.ʼ 46'J.ʼ>.ʼ
>,<<.1 2 5" <,05.66.ʼ>.ʼ?1.E.1.<; ʼ5.6 . / ?5, 6 .6 ?546 >6G
5 J, .6 .5 5.6 ?546 54;1'7 #6% ʼ6 .@?1 / .ʼ.< ; .1.ʼ'- .ʼE1'<ʼ
.056.ʼ6<1 >.6 ,00.76 > 4<.ʼ.J'5.ʼ / ?,17'<; .N 641 5.6 ;0'6.ʼ
6.68 =4 5 1 '1>.ʼ; , / / .>.6714;7 -.6 >.ʼ& 'J1 ;45741.8 .7
5" 6.1- 74>.ʼ?.16, K. 5.8=W'1>4<57 .< 6,57,465.6 J.<1.6
>.ʼ>.6714;7 ,<% $
4 % +% .6 .7'76 > 451 ;0>8 >.ʼ #'1 ,70 .%.7>.ʼ
71 1 .8 6.ʼ6,<7 ʼ>1.66>6>.ʼ<, -.'4 0 . /?.1,<1 ?,4R54ʼ
>. / '<>.1 4<.ʼ?'17 ?546 / .> '7.ʼ.7 ?546 ';7 -.ʼ>'<68 # ʼEM
E' 1.6 >'> / < 671'7 ,<% < ?1.64 / .ʼ=4.ʼ % % 8 V E.1"
>1, 71 5V " <> / .ʼ5 .4 >.ʼ;1, 1.ʼ=4.ʼ; .77.ʼ?'17 .ʼ6.1".<\
7 >1. / .<7; :'<J. .1 ,< ; 6457.ʼ>.0>5.6 ;'?7 ?.6 1,- 1
; '4@ .7 > '471.6 J.<6 .;5' 1>6 1.5'7 -. / ;<7 '4@ J1 .E6=4ʼ
,<7 .7.ʼ?1>6.<7.6 '4 / < 67>1.8 >'<6 <7.<5 ,<> 46.1> ʼ
/ ,V.<6 5.6 ?546 .E ; ';.6 >V ?,17.1 1. / >>.%
#.77.ʼ>> / '1; : ..7 ;ʼ71' - ʼ5 <,46 1'??.55.<7 >ʼ5.6<,7' ʼ
0 .6 >.ʼH1'<;.% . / ?.1.41 ?'1' 7>.; >.ʼ>1>7'05 1 5" 1'<ʼ
=4 55 .ʼ>'<6 <,6 ?1,- <; .68 > '?1>6 >.6 ?5'<6 6'J. / .<7.7
0'0 5. / .<7 ; ,<;.17>6%
.6?1 7 >.ʼ7,5.1'<;.ʼJ .ʼ <6.<6 05. / .<7 ?'77 ,471 5.ʼ
; / 7.ʼ>.ʼ ,>1,<8 ?,66 / <<>ʼ>'<6 5" #'1 <7: .8 "ʼ>'<6
6.6 7.11.6 >.6 -'66'4@?1,7.67'<76I 5 - .<7>.ʼ <1 >,<<#1
4< E,<>6>.ʼ)8 'E5,1 <6 ?,41 5";,<6714;7 ,<> 4<.ʼ>J5 6.ʼ
.7 > 4<.ʼ>; ,5.8 .ʼ ,1<0' ;0%
"<'7 ,< 55V1 .<<.'41" '466ʼ4<.ʼ4< - .16 7.1 .55.ʼ6.1"
. '05 .ʼ " ! '15, [70N 5.6 >7'76 ,<7 '66 J<.ʼ?,41 ; .5,00.7 43
E, ,>6 >.ʼ 8 'E5,1 <6
7 ʼ8 & ʼ5.ʼ U 6.?7. / >1.% % .ʼ >.ʼ;ʼ/ ,68 <G
?>1'71 ; ʼ"(,(ʼ;,41,<<>.ʼ6,5.<<.55. / .<71. <.ʼ>.ʼK; :> / .ʼʼ
'1;0 >4;0.66.ʼ '1 . <<.8 6" .8 '00.66,>4 ; :'?71.ʼ
>.6 ' / .6 >.ʼB1'>6; : <8 "?,6.ʼ5";,41,<<.ʼ1,V'5.ʼ641 5"
,(,(ʼ>.6" <>1.%%%8
.ʼ>,< =4.ʼ5.6 . '76 ,<7 E' 7 0 . / ?.1.<1 / ,<7.ʼU
8 ʼ E5,1 <6I % % %8 .< ';;.?7'<78 " <- 7.ʼ .6 .7'56
U .<E' 1.ʼ. / ?5,ʼ?,41 5.6 ?'4-1.6%
471.ʼ5.ʼ71' 7.ʼ>' / 7.ʼ .7 >.J'1'<7 .ʼ;.;<;54 .<71.ʼ5.ʼ
71, 66,4-.1' <6 U 5 08 ,471.ʼ5.ʼ?1,0.7 >.ʼ> / <4.15.6
'1 / . 6 1.6?.;5 -.68 ,471.ʼ '11'<J. / .<7 ?1 6 ?,41> -.1 ʼ
.;.ʼ'<J.68 5 >, 7 .<; 1.ʼV '-, 1 .7.ʼ=4.67 ,<>.ʼ . . .<
>.ʼ '1; ;>4,H1'<;,ʼ6 ?,41 1.< >.6 . / ' <68 5'=4.55..67
'11 7.ʼ?,1 (* %
">' <47 ,<>.ʼ=4'1'<7.ʼ; , / / .6?'1 ; , / ?'1' .ʼ>'<6
5.ʼ / <7' 1.ʼ'471 .0 .<>, 7>.0"971.ʼ1>6,5<.ʼ?'1 / 5.6 1.J M
/ .<76 '55. / '<>6I / ' 6 ,< <.ʼ>,<<.1" >.ʼ ;,<J.ʼ=4 '4@
6,5>' 6 =4ʼ?,411, ,7 E' 1.ʼ-, 1 =4 56 ?.4-.<7 6 .< 1.7.< 1
?'1 .4@ / > / .6%
ʼ] ʼ ʼ U ^ 1 <, / 01.ʼ>.6 . / J1.6
'4J7<.<7.ʼ; :'=4.ʼ0 418 ;.?.<>'<7 ; :'=4.ʼ0,41 5.41 .6?, 1
6 '#E' 05 7% ʼE'47 =4.ʼ;ʼ6, 5 4< ?, <7 > E; <<. 1 ?'1 / ʼ
7,46. 4@ =4 6 '??.5' .<7J.<7 56: / / .6>.ʼ: 15.41 ?'71 .
.7>.ʼ5" =4 77.1% 4 > 7 ;ʼ=4.8 6 '< 6.4ʼ>.6 ; >.-'<7
J'1>.6 >4 1,'1.65' 7 =? H1'<; .8 5 V 6.1' 7 '66'66 <.%
"71,4?.ʼ=4ʼ6.ʼ>.67 <.ʼU ; , / / .<; .1 4<.ʼ'1 / .ʼ" .7>
> - 6>.ʼ?'1 , / ?'J< .6N .55.ʼ " ?1>7.ʼ 6.1 / .<7 .<71.ʼ 5.6
/ ' <6 >.ʼ % ! ,>.% < ?.164'>.ʼ '4@ . / J1.6 E1'<;ʼ6ʼ
=4.ʼ ./?.1.<1 "?.1 / 6 >.ʼ1. .1<7.1 ?,41 '1 / .ʼ>.6?1 <M
.68 .7 / . / .ʼ> .< >5.1 >'<6 ; .77.ʼ ,;'6 ,< >.6 : / / .6
ʼ'4 >.66,46>.ʼ5"7' 55.ʼ,1> <' 1.% , 5.8 5.41 > 7 ,<8 ?,41ʼ
=4,ʼ 471 > .ʼ.75" 1466.ʼ6,<7 36<-.<4."U 5 >70 >.ʼ \
; ; . .1 ,<.ʼ?'17 .ʼ>.5.416 71,4?.68
! ^< '.

L K %%
ʼ ʼ ʼ g ʼ+ʼ ʼ<.ʼ6.ʼE' 7 ?'6 ,<ʼ
/ ,4-.< .<7 >.ʼ 71,4?.6 =4ʼ?4 66.ʼ1.J'1>.1 5" H1'<;.%
,47 ; .ʼ?1.7.<>4 '??'1. ʼ>.6 ?4 66'<; .6 .67 4< >>5 1.ʼ>.6
. / J1.6 E1'<;' 6% .4@6.456 1' / .<76 '471 .0 .<6 6,<7 . ʼ
/ '1;0.ʼ?,41 5.6 'V6 K'6% 34'<7 U 5" 1466.8 6.6 71,4?.6
-,<ʼ.71.641 .7'7 >.ʼ?' @5.ʼ/ , 6 ?1, ; :' <8 '4 ; , / / .<M
; . / .<7 >4=4.5 6.1" ;> .01.ʼU K.15 <5.ʼ>.405.ʼ / '1 'J.ʼ>.6
?1 <; .66.6 >.ʼ 1466.8 >.ʼ <<.ʼ'-.ʼ5.ʼ>4.ʼ> L ,1 8 .7>.ʼ
'471.ʼ '-.ʼ5.ʼ?1 <; .ʼ ; .1>> 7' 1.ʼ> 1'<J.% .6 E.7.68 5.6
0'56%8 5.6 ,?>1'6 >41.1,<7 .<64 7.ʼ046=4 '4 g ,;5,01.%
.6 . / J1.6 ,<7 71,4-. .ʼ / ,V.<>.ʼE' 1.ʼ?'66.1046=4 U
'1 6 5.6 E'4@ 014 76 .75.6 E, .6 .6?.1'<; .6 >,<7 56 6.ʼ0.1ʼ
; .<78?'14<; , / .> ,<>.K14@.55.6=4ʼ;675. ; ,11.6?,<>'<7
> 4<0,41<'5'??.5ʼ ʼ ! ʼ 8 ʼ .67 ?1,0'M
05.ʼ=4.ʼ5.ʼ; ,11.6?,<>'<7 >.ʼ K14@.55.6 .7 5.ʼ1.>';5.41 >.ʼ
'1 6 6.<7>'<6 5" 0,<<.ʼE, % , >ʼ5.6 >.1< >1.6 <,4-.55.6
=4.ʼ ,< >, 7 .<-,V.1 U '1 6 ?'1 5.ʼ / ,V.< =4"<,46 -.ʼ
77,<6 >.ʼ> 1 .N W .ʼ?1 <; .ʼ> .ʼ , / '<@, [ʼ" .7.ʼ.<-,V> .<
' / 0'66'>.ʼ%U #,05.< 8 '4?1.6>.ʼ F ʼ>.5'?'17>.ʼ
/ ?.1'71 ; .ʼ>.ʼ ,66 .8 =4 8 'V'<7 .4 ,E ; .55. / .<7 ; ,<ʼ
<' 66'<; .ʼ>.ʼ . 71.14.ʼ>.ʼ 5< 508 6.ʼ0, <7 '4@ ?4 66'<;.6
; , '5 6>.6% < ; ,<6.=4.<; .ʼ % F ʼ % .<- , .ʼ'466ʼ / 55 ,<6
?,41 5.60.6, <6 41J.<76 >.6 ?1 <; .68 .7;% < ,471.8 F A
.67 .?<67 74.ʼ1.J.<7 >4 1,V'4 / .ʼ>.ʼH1'<; .8 .7 5.6 ʼ
?4 66'<; .6 <.ʼ- .45.<7 ?'46 71' 7.1 =4 '- .ʼ54 8 .7;%8 .7;%$
%>.ʼ ' / 0.6;8 >.0U J.<.1'5 / '0,1 '?6.1- ; .ʼ>.ʼ . / ʼ
?.1.418 - .<7 > .71.ʼ<, / / .ʼ01 J'> .1 >4 ; ,1?6 >.6 77: ʼ
5'=6 .7 >.6>1'J,<6>.ʼ 41700,4 J8 1.?'17 6 >'<6 5.6 'V6ʼ
K'6%

H # %
ʼ8 ʼ+ʼ 40,41> 077ʼ % .5' ;'V.8 1,ʼ> '1 / .6>.6
H1'<;' 68 .7=4'71.ʼ0.1'476 > '1 / .6 ?1, ;5' / .1><78 >.?'1
5.ʼ1, 8 5" ; ,<67 747 ,<>'<6 '1 6%
Kʼ Kʼ = K 7 <.? ʼ ʼ'<.?' ' bB ʼ<"
ʼ<" a ;<' '" .,6 -'08
ʼG ʼ ʼ ʼ
% ! '1'<>.ʼ#,45,<W I ' .>?.>.8 I '67,1.78 ?1,ʼ
;41.41 6V > .>4 >.?'17. / .<78 I #.1477 8 '> / < 671'7.418
UN K.'4-' 6 >. 1#'4@80<J.>.ʼ?' @8 I K J,7 1.' / .<.48
ʼ ! ,4- ,<8 / '0,1 J.<.1'5 >.ʼ5'8J'1>.ʼ<'7 ,<'5.ʼ?'1 6 .<ʼ
<.8 (I K1,466,<<.78 6. ;1.7' 1.ʼ>.5" ; .7.ʼ> J1 ;45741.8
)I% ! 1.77.ʼ> .ʼ '55<.58 '> / < 671'7.418 *I ! ,1J4.1.'48
; , / / .ʼ>.ʼ5 ,8 9I ; ,1 55,<I I % % K1 66,58 '47. 1
>4 8 $ & ʼ I H 5'66 .1 ;457 -'7.418 I BUʼ
1'457>.ʼ #; .55.68 UI 45;78 ; , / / 66' 1.ʼ / .> '7.41 ?.<M
>'<7 5.6 71,405.6%>4 #,1'7'78 N ! ,>'1>8 0, / / .ʼ>.ʼ5,78
9I 34'51. / E.1.>.34 <;V8 (IK,6; '1 8 <.J, ; '<78)I
K' / ,<>8 *I . ,<'1> ,0 <8 I .01V I I #,<>,1ʼ
; .78 I 1. 0 '1>' 55'<8 / . / 01.>,ʼ>.?'17. / .<78 I
4J467.ʼ ,<<.1,<8 U%

ʼ /

- ʼ< '"0' / ' 6 .4 .70.ʼ< '41'ʼ0' / ' 6 5.ʼ?1,0.7 >.ʼ1.?.<ʼ
>1.ʼ"7,47#6 5.6 ;'5, / < .6 >.<7 ,< .67 6 ?1 > J4.ʼ.<-.165."
E,<;7 ,<<' 1.6 ?405 ;68 =4.55ʼ=4.ʼ6, 5 5.41 ; ,<>4 7.I / ' 6
0 ʼ / ʼ >.<<.1 U . / / .ʼ>.ʼ 0 ,<<.ʼE, 8 71, / ?.ʼ ,4 6.>4 78 8
.6 .@5 ;'7 ,<6 >.<7 5 ?.47 '- ʼ 1 0.6, <%
.6 <<68 77 '66, '<7 "4<. ?< .< ; ,<<4.ʼ?,41 ; >51.ʼ?'6
5" / .<<.8 / <7 ?1#7.8 5 V "?546 .4160,4168 >.6 '0641>7.6
=4ʼ / .ʼ6,<7 .71'<J#1.68 6, 5 .< ?1.6.<7'7 >.6=4.67 ,<6 =4ʼ
< .<7 ?'6 >.ʼ E' 5.68 6, 5 .< / .ʼ6<??,6'<7 <-.<7;41 >.ʼ
; .55.6 =4ʼ '??'17 .<<.<7 '4@ '471.6% ' / .67 >E ; 5.ʼ>.ʼ5.14
;1, 1.ʼ0 .< 6 <; .1.6I ; '1 0.ʼ ?.4@ ?.<6.1 6'<6 ,1J4. 5 =4 5
.67 4< >.J1>> <.?7 .ʼ=4 ,<<.ʼ / # 64??,6.1"0' / ' 68 .7 .
5.41 '66.7 1.?,<>4 ,<E' 6'<7 5.6 5, 6 ?#<'5.68
.6 '471.6 '5E. ;7.<7>.ʼ1.?'<>1.ʼ=4.ʼ0.ʼ1'66. / 05.ʼ;0.ʼ
/ .ʼ5.6 <,4-.'4@>.?47.6I -, ʼ5.6 E' 56 "ʼ.7 >J'1>% ʼV"
:4 7 " >@0,416 =4.ʼ=4.5=4.6 4<6 >.<71.ʼ.4@6 '>1.66.1.<7
U / , 8; , / / .?1,;41.41 J.<.1'5 6V4> ;8 ?,41 6-, 14< 5 .4

/

-(' . *$-@ ' ,,' *+$)*$$$$7' #(-'4. -'$8+-$
4+. '4.('(*,(.'5 (5 ("$*3 *0(*$(*,':' *((*0$*,'-('(' .&'!'
'( ) (.' (*' 4 "9.+,$-' #$($,$) .) ( )*-)* $$# /' -i' '- !'
3 ,(.'+0(3'4 "- ,(*- (' " ('-(+*-(.(*,'-(' ("#((!'
0 $.'36($' $7 D8 (*'(*,$+/ (,' 8'$*0$,+$' , " (" * 0(+ "
-(4 ,("-(' +.$"5 (' (,. 0+$&-+*" +' +,$*((/+'.+"(!D
) ((' ((3, .+ (' % 4$*$ *' +' 4 " 9(*(.+ (' # ,' -(' '(' 0 $.'
K'5 (5 (# $'(*' ' 3$- (/ +$" -(' *('4+" '(' ,. (.' (.$*$ ''('
A('-(($.+$+ ."+' %+''( ) ((',# (' ('*('4 0+ " ,(# .$.4 "
' *9 '.*4" +' +$' *'3 ('3(*,.('-('.(*$ * '5 ' ('4+ '
.+$''+$,'4('3 *0(*+) ('5 (, "0$*''($ ' 36((' *' '- $' (,'
5 ((-(0+$" (0$,(.' ((' +33 '+,$ *' +'# *-(('-(' 0G*=
$.'(23$ 3(.'+ 3 *('$*# (*3(/ $+'3('5 ($' -$,//0 , +'3('
5 (' +$' +$,' _(*+,,('(', "3(U' 5$$$'& *,'0(* "(6(' ' $&'
A%+ ,('((36,'5 (/3(' .!$+' ((' -' +.-$' #'
@) " * b$5$$" 4+" 4 "-(' Q $$U('A$' 5 + .U('4(.' **('7/5 *'
^?$$"$$' 6D8 +'4 " ($$' + 3$$6(' .($$-$ *'7 -,$'$* $*'/' ('*%+L'+'!'
'$',('$' -$$3$$6 7 (, ('. #$,('5$$-/ * *='(?((*,' ' ,$(' .-% +$"
4+$'4.) ,L (G7 $6 $"(@)-. 'A" *$(' #%(. '(' +' +'.(((0 $.'
4 "$-)9, @4
I % '+$3 C ' %$! $,C' *&(% & ' 9'C4,
$,@' 4 .#$-('+ . ,$,(/ ('*(', , +)+$"'3?D+$'4 $*,'+' #(4 *-6('
A(' 4 , '4- .'$$$0# 3+$,6, +$( ) ' -(0+.$$'$(' ',$ $)$$D
-+ $,7 %+$,*('$ $$(,$,' (" +)+*- *,)' ' (, 4" $ @$-#- 7
A%+$6, '+0 ('4+''$ *' ',$)(, -7' $' 8' ,' @ ($)' --' '
3(6+,'4 $# ' (('%7 ,'(@('3(' @D '4+' +.$- ('4(,$4 ('
D+'36 $'$'4 .' +' --#(*-. '5-" '6$(' @$$-.+$'$*-$ *(-%$ $('
3 *# +*3('5$$$'#(,' +'9)$.('(,' $$') *6(. * '? (E7E57I

G

' <

$ ('4 $3'(',' +0(.,$'5 (' (" 3+$''(" -(' +' ,.-' .(@" *+,$ %%
+$(' *(' #(. *,'+ 3$ '4+8((,'0(6-.(-$' PI' '(4,( ).(/3('
% .'(,+*,'-(',$*('4 $$.' +'8(.$ 3+,$ *'-('-$,(" 3+$''("4+.' (+'
3 6$6$$''+$.("-('. ' ( )$(('*+,$ *+ (/ (*' 3G6R?. $,(' -('("
-(3.(,'

B*' U44 9 '
\ * '(, & '&' '] '
, C' BZ' 3 '@ C 0B ' @ B ' C
@ ' R' ! ,'%4 T' # & '%4% #) ' '&&#'
'($% '$,' ! , ,% ,'& '$%' , ! ' '
(B$?#*%$ 'C '& $$$ 'VE 2& %' % & % ('&'
*(' A ,$% *') F' 9' E $' ' &' 4! ' %'
', '& '&* -)($ 'E '(!& %,' ' ! '% C'
(, ')'& % & '% E! &) '$%' 4! % ! '& '& .'
& $'&) T' %,'E' ' ' (4% & %' (%,'&' '
- ($ '(% ' 2! '(! %' ! ! '& X'
% '$ '& ' ! ' && % '% E! &)
8 '((, %'&! ' ')! * ' && % E' @'
! ' '!! & $ %'$%' ,%A , , '&' , , B & ' %#'
& %$ '&2%4% #$ *'%4 '$%' ,%A , , '&*' 2 , ,% B$& '
% $)%$ '& % %) '?* '$' B%*'&' ' $$ '
%4% $'& & '$%' $ $ R' ' & ' ,'&' ,&((B'
& '(! ,#4 B%$' ' '%'% '*%) ' ' ' '%'% b'
% '%4% # '%*' '$%' , ! ' , ' % '(! '
',! , '%'$%'& , &)'& '$%'$ A ,$% '(!)% #'
'V' ' P' '4& ,'%'*% ' ! ! & ' 2%&#'
, % ! '&' $%' ,! ' % ! %$ '%4 ' 2%& .'
, % ! & ' , " 2%& , % ! & ,& ,'
(B$,'%4 '$,'* !) '& '(& ! B' - *" '
! ' ' ,'& ' Q ,, *'& '$%' & % '&'(! 4& '
4! ', ,' , * , ' !)')' %' ! $' *'$,'
! , ,% ,'& '$%' ,! '&! 4 ' ' 4! %#'
B$,' (%'$' ! ' 2 ,'$%' ' (, ' ,#A %4 '
3 2%& , % ! '& ,'& ,'(B$,' ,'(%,' '
! ! ' ! %$ j' 2 ,'%' ! % #E' &' '!) ! '
, ' '&, 4' '$,' % ,&2 '%& , % ! '
(% $ * ',& ' 2 ,(! ' & % '&' ! (,'
$ A ,$% *' C'
3 ,'& ,'(B$,'%((% '% -'& (, ,'
- $$, $,',! '& , ,"$,',! ' '& (&' '
P' % ,'& ,'%& , % ,'& '$%' &,! ' ! CC

,.(' (" ($$,$(43$'(" - '4- $.'(2 3$$,$#7 (,'0)"+0(U'
'5 (' (("+- $*$',.+,(."# ''(*,* ("4+.'
(') \$70-,, ',$%+0(U' #+$,'(* (+'5 $('3 *',$, (.' (. $'
-(3,(.' +' 0 $.(' 4 +3(7 0 " +0(U' #+$,' Y A '
+$"4+.3('5 ('0 " +0(U'0 ' ('5 ('0 " +0(U'3. '
5 $' (,+$,' 4 ''$) (' -+$$, #$'(.' (' 3 .4" (%9$' +,$#
+'#+$.(' $! (('3(" ((3,$ *" ,'4+.3('5 ('0 " +0(U'
.+$*,' 5 (' +' (9$' +, .(/ +9$3(%(' 4+.' -(" #+3,$ *'/
(' '('-0'(' ('*4+.,$'/+ '9.('-("+)$,$ *"4+.,$3 .'
$(.(''
% ,'& ' e ' ' ' ' , ' (%e' & ,'%A ,'& '
(B 4!$' ,& $ *' ' (C! 4 '$,'& ,'(B$ E'
& ' * ' ' 2 , '(%,' '%& , B% $&' ! $ '
% ,') %& B , B% B '$$% %$ '&! ' '%4! '
$ '& (&'' (('#'(! ' %' ' (" ! , ,% ,'& '$%'
, ! ' & ' ' ' 4! ' B, (!? K
& % '3 ,'%A ,'&!' (' C *') ' , ! ,#
' ' ! ' & %)' '(! '$%' ,(! ,%B #
M$, 7 3('$2!3$ / + '3 *,.+$.(/ .(' ' .,$''(*,'+'0 "4 '
+'3 4,+)$$$,(7 0 " +0(U' *('$*'4(3,$ *'/ *('+ !=
, .$,('$ (-$+,(' .'(2$', "*(' *,'* ("4+.' ('
. $'5 ('*' 0 ,.('* / (,'(('(,' $' 4 0 $.'4 4 +$.('
5 $'- $,' " .$.'+' (.' .(0 3+,$ *'7 8 $$+' ('4.$$$!'
($4(
% '% >' !)4 ,'*$' '$%')!, '9 ' $$ #h'
* ' ! '$ '! ! & ' ,% $' $,'%B ,'// ,'(!, , B$ '
& ' !) '%4 $')' (! '& ' 2% A) " ! '
% '$%'& , (!)'& '& ,'(B$,'!)'(' ! #'
! (* ' '$ ' $ (! '&2% ,% ' $,C' % ! ,'
!), ,' 2 ' ,' ' , (! ,%B $ ' ' ,! $' E$ #'
,! ' 2 ,' $$ ' 2! '($ &' - ' ' % '
& '* % ,R' $ ' '%', '& %(& '$,'& ,'(K
B$,',% ' & $%' ,(! ,%B $ ' ' ! ! ('$,'
% ,% ,'$,'E A ,"! ' ! ! ('E2!, %'$ '& '
' 2 - ($ '&' 2 A$ ' 2 '% (, ' ' ! #C'
('$%'$ A ,$% " %$! ,' '& 4 '$%' ,(! K
,%B $ T' // *% '&! 'B ' ,'A% & '&' '$,'
$ (!, % ,'& ,'$)$,'(B$,'&% ,'$%'& (&% '
%B,!$ '&$$'* ,$*
'A('#$*$" 4+.' *(' .(#(2$ *' ' 6+4($(.' ' (',' #+$,'
$,(.' *( ) (3,$ *'5 $' $'+'4+. ' '(%.$('(/ +$"5 $'
*%(',5 $$*('4 .('$ '$ *'& (. $'('.+' - *(/ +!,!$'
-$,/) $9(' -4 4 +$-(. -(0+*,' (' 3 .4" (9$' +,$#cD'
(%(',' - 4*(.' +'# .3('- *( ) (3,$ *''4(3$('(' +'35
5 $'(',' . (*(3(''$,(/+' *('*(3(''$,(' +' +5 ((' (. $'
+', . ',(3' $'/ (' -+*" +*3$(*' .(9$ ('
,.(# $', ,(" (" +33 '+,$ *" $,+$(*,'4 .,(('/ +,,
@ .* -' '. $/ 4+.' -(" +9(*,"5 *' +44(+$,'4. 3 !'
.(.'-' '. $+ 4. "-(",.)$,*+ 2"
% +$*,(*+*' *' .(3 .$*+#,'.$, @9 (' +4. ' #(-(=
#(,'5* *'+' (*$(0('$*(./ *' + .+'4+"#$(' 4($*(/ (*'
-3',$, +*,' " "+-.,$*$' .+$(.'6 *6 (/ ' ,. !'
0(.''$2',.$4 6" (6,.(' (" *,+$*' -('5 $ 6' .(,6(,,(' ('
--4G' -(" -(,$$(. '4) $3'/ 4 .' #$! 4.(!+' *+,$ *'
$$'5 (' -+* ' '(" ((%$*(*,'
A(' -(+*-('- *('5$ (' (' -(%(.(,' - +0+*,!6$.(,' ('
,$(%(.(,'5 $' +' .(0 5 (' ' $(*,' (%9+ ((*,' ' 44.$ -"
- '4. 3("!'0(.)+$/ +#$*'5 (' .$(' *(' ' $,'4.(9(',$./
+'5 ,(',$ */
' B' * 8 +'4 $*,' -(' -$'3 .-+*3(' (*,. '
$ +-(.(.'(,' ($/ (/5 $5,,(' +$(' -(+*--' +' .(1
0 3+,$ *' - ' --3.(' - +0+*,!)$(./ (' 3. $"5 ('
' , $,$(" - ' $6- (' +0$" ' ' +'5 (',$ *'+3, ($(' $'
+'-,('-$,')$(.'- (' (' - #(,'5,$'+-.*(,' $.$,(.,%(*,$5,,'
- '3 .4" (%9$' +,$#!4 # +' .(8 -+,$4$$' -(" 3 .,$$'!
'+$.(",$(' +' ,.(' .(.$(+8+$$'(,-'$A '$(*. "# $"+$' .!
$$-/(,' ' "+44 8(' ('3)+,, '4+.' -(,.('!#4.,("
.+$' *'/ $' -,+$,' +' . 9.($,(.'5 $' (#$,' -,' +- 4,(
M'+*" -$'3 ''$ *? ''( ) ($(' +'(##((,$0((*,' .(0 !'
5 -' (--3.(,7 +$" ((' *'+'4+"-(3. ,-' (' 4.$*3$4('
3 *,.+$.(' +'5 (',$ *' .(,(' - *(' (,,!' *' (*,$(./ (,'
* ' +$'' *" +' +' (9$' +, .(' ' $0+*,3' $3' ' $*' -('
4. 3(.

% ' (V'N .'>.7<'<>.'>';3 / 2P'771.' % '6>.1.1'
.7 % '<>1>I'Q ' '5'' ?'1,5.%
' ' 'N 7.' k1E,. 6 -.10'5' > : .1' < .@ '
?1 / .'?'6'=4.'Q.>.;1.7>.'5'' V. 55.' ' 7' 97>' - -,=4.8'
'6 6.=5. / .<7 4.' 66. / O5>.' '' 64??1 7 .'>4' >> '
;1.7 1.<>4' ?.' Q?41 5'' 'E7 .5.' =4 ' >5'57 1.5'7 E' '4fI'
., / < 66' 1.6'>.'5''71>6,1.1 .%O'' =4.67 ,<'6.'71,4-.'
>,<.'< 971.' '4;4<. / .<7 ?1>Q4J>.%
' 'N .' >. / '<>.' '' ?1,4-.1' = 5.' 5.' >>; 1.7
>, 7 >71.'1.7'O5 8
' ; 'N ,46 6, / / .6' > ';;,1>% V 66. 7 '
O5..' ''-,454' : .1'=4.'5''=4.67 ,<'<.'EE57 ?'6 ?1.Q J..8'
Q.'>. / '<>.'=4 . .'<.'5.'6, 5'?'6''4Q,4;> :4 8' .7=4.'
66. / O5>.'?'66.' '' ,1>.'>4'Q,41%
% 5.' ?1.6 >.<7 / .7 '4@'-, @'5'' ?,7 ,<'>.' ,1>1?'
>4'Q,41%
66. / O5 .'>>; >.'>.'?'66.1>' ,1>1.'>4' ,41% %
' ' ' 3 ((\!' ! ! (% # ' , !!Y '
')' ' !' , ! ' ' !'L!' !& '+#!' !' !'
! ! ' - % '* '$ ' ! : '(! '% # '&, %!9') # '
' !' !*' &! ' #N'% ' ' !' '- !'
'C # '& ' !'$ '# ' =' # &# ! \
8' 1 .41' <6 67.' ?,<V' '-, E' 5'' ?'1,5.8' .7 .<E <
=4 57.'5''71 O4<.% 8
% ! ,# ?I' .'>. / '<>.'2' 66. / O5>.'4<' / , / .<7
> '77.<7 ,<%' .'.1, 6'=4 .55.'>, 7 >.; >.18'&?'<.' / ' '
< .1.' ,<' > 4<.' '471.8'6' .75.' .<7.<>'<. / / .1'4<'J,4% '
-.1<.41'4' '4?0 <% & <' / 41 / 41.%P
' 5 66. / O5..'?'66.' '' ,1>1.'>4'Q,41%
+d % 'OO>' '41V'>. / '<>.'5'' ?'1,5.%% ' ''?'1 '
7 .'>V, 7.8'71.6 <, / O1.46.' .7 71.6 'c 7..8' 6.'5.-.' .<'
6 J<.'> '>:. 6 ,<'2'6''>. / '<>.%
$ % J ('N ,1>1.'>4' ,41' '??.55.'4<' ?'?'
?,17 7156 .,417 641' '> / 66 .<' '4'6.1- ;.' / 7' 1.%
% 'OO>' '41V >. / '<>.'5'' ?'1,5.'641';.7 ?1>1.'> '
Q,418'Q.'<.';1, 6' ?'6' ?,4-, 1' 5''54 '1.E46.1%
8' + && ' 'N ' '>. / '<>.'5''?'1,5.' ' % 5.'
?1.6 >.<7 641'4<.'=4.67 ,<'> ,1>1.'=4 ' .67>.'5'' ?546'
.@71. / .' / ?,17'<..% 5' 6.V'' 71.6 E', 5.8=4'<>'Q .<'
'41'5' <> = .' ,OQ.78'>.' / >O'17.1' ?'1' ,1>1.' >4'
Q,41I' / ' 6';.'= .'Q ''2'> 1.' .67 71.6 .,4178'71 6>1' '
?,17'<78' .7 6' 1 66. / O5. .' -.47 / .<7.<>1.' '-..'4<.'
'77.<7 ,<'E'-,1'O5.8'Q.'5'' / .751' ' O .<7>7 ' / > / .'
> .<'Q4J.18' &8 ! ' ' '5'' '& I'
4'E' 7<' .'5''64??5 .'>.'-,45, 1'O .4'<.'?'6'6.'?1. '
-.< 1';.<71.' ..' =4.'Q ' ' ' > 1.8' / ' 6'>.' / >;,47.1'
'-..'=77.5=4.' '77.<7 ,<%
% 8 (' 1 ' !- ' ' 8' 5.' ?1>6 >.<78'
7<4' '466 'Q.'>. / '<>.' '' E' 1.'4<.' / ,7 ,<'> ,1>1.' I'
. .67=4.' ,?<'<7 ?,17.'6'' / ,7 ,<' '4';, / 7>' ; : '1M
J.'>.' ?1.6.<7.1' ,1>1.'>4Q,41%' =$ 9 ' ' '
' 9 '& 5' ,? 5'E'47 -?1' , 5' 5' .<' -.47
-.< 1%P
% KK>' *' ' ,OQ.5'>,<7Q.'-' 6' V,46'.<71.q'
7.< 1'< .67 ?'6'<,4-.'4'?,41'-,468 5'<.' .67 ?'6'641'
7,47 ?, 1'1<, I' Q ' ' .4' :,<<.41'>.' -,46'.<' ?'1c;1'
?546 .416'E, 68' .'>. / '<>.' .@.;47 ,<'> 4<'>.;1.7
>4' U'E. -1 .18'?'1'5.=4.5' -,46' '-.O'>.;5'1>'=4.% -,46'
<.'-,46'6>?'1.1 .O'?, <7 6'<6' '-, 1'?1.6.<5.' '' 5''<'M
7 ,<'7.'., / ?7.'>.'6.6'B<'<;.6% & '6 >5.-.'>.' - ,5. 5 '
7.6'14 / .416%P' #, / / .'?.16,<<.'< .67 <5.1.66>'>'<6'
;.57.' 66. / O5.' '' 6 ,??,6.V'2'1.@..47 , '>.' ;.'>> '
;1.58'Q.'>. / '<>.' 5'' ?.1 / 66 ,<' >.' ?1,4-.1' .<'>.4@'
/ ,76'>.4@' -.1 7 6' Z 5'' ?1. / .1.8' =4.' 66. / O5..'
<'7 , '5.'>,57 4<' .' / ? .I'5''6.;,<>.8'=4.'5.'., / ?7.'
>.' % ,<7#6=4 ,4' < .67 =4 4<' 1, / '<' 1. / ?5' >.'
/ 66.7>J .7 > 5 / ?,6741.' % &' .6' / 41 / 41.6' 1.>,4 '
O5.<7%P
' 4 "#$' ('-(+*-('2'$*,(.. % 4.(' ', +66-'
+ .8
' / .' *' ' ' '5'' ?'1,5.'=4.' % 5.' ?1.6 M
>.<7 / '' >,< ..% #.' =4.'Q ' ' '' ?1.6.<7.1' ?65' 6'
;,4178' .7 ' / ,<'6.<6'6'>- >.?78' =4.' ,<' '41''O. '4

;,4?' ?546' > '-'<7'J.' ?' ?.' 1>?,<>E=' J16=<.'Q ' 1J'
?'17.% A $ %
' ' 'E' 5'Q .466.'6='641'= , ' %%5 'c5O '
'41V'>. / '<>' 7' 5'' ?'1,5.8'Q.'<.' 5'' 74 ' '41' 6'?'N
';;,1>..8' 6417,47 > '?1.6'5'' / ,7 ,<' E. 7.' ;.' '7 <'
.7 .;'17..'?'1'5 <.'>>. 6 ,<'>.' 66. / O5>.8
% '5,4.78' H,5c.V 5c.' .7 #1,78' ?5'=>6' .?' 7;7'
>.'5'' ?'17 .'>1, 7. '6 'J .<7 'V.;'- ,5.<;.'?,41'?O'
7.< 1'5'' ?'1,5.%
% 8 ' 'N 4?,17'>. / ' >>'5'' ?'1,5'
?,41' E. .' 4<.' / ,7 ,<' > ,1>1.' 641' ;.' =4.' -'' > 1'
% 'OO.' '41V'I'Q.'-' 6';,<64 7.1' 66; ?O5.E6' ?,4'
6'-, 1'6 5'>, 7 ?'15.1%
' / ' *'N ' 6'-,?6'< '-.Z'?'6'5.'>1, 7 >'
;,<64 7.1' 66. / O5. .'7'<> 6' =4.'Q.' ?'15.8' ,46 / '
?,4-,<6'?'6' ,? <.1'>.4@' '5''!
Q=8' O 'N .' >. ?'<>.' =4.' J ' 1'??? .' '
7 ?1>1.' 8' Q 'OO>' '41V8' =4 ' -.47 Q.5.1' f?' 7 ,4OO'
>'<6' 66. / O5..%
% ? 'E N' 66. / O5>.' '' ?<5.<>4' , : .'
>.'5'' / ,7 ,<'>.' % 'OO.' '41VI ? 5.' '' .<7.<>4'?54'
6 ?416' / .4 O1.6'>. / '<>'<7 c'' ?'1,5.'=,451.' .?=4 '
> 7 .7 6;'=4.'>, 7 > 1? % 'OO.' '41V8%8'&7E4' J1' / '
' ' '>.' >'?'1EE.' ! 'Q' g' 66JO 57?>,<'
?'15.1SP
% H,55.- 55.8' .7 E,4;'4578' ;1Q'<5 ' E5Q 6'44?1 '
>.'5''71 O4<.'>.' .@71> / 7.' =1J 7.8' EJ<7 > EE>1?< .'
<7.1?.55'7 ,<6' '' 8' # :'O1,4>%%
'1 ' 'I' % 'OO.' '41V 1 .67 ?? 4 7 / ,<O'
2' 5''71 O4<.'?,41'71,4O5.18';, / / Z ,<' ''> 78' ,1><'
>'<6' 66. / O5..% .'?4O5 ;8'Z7 <,46';,<<'Q66,46'6.'
>1, 768'5.'6.4E.7' .'?546'J1'<>'>.'6.6'>1, 768' .7 ;.54'
=4.' / , ' ?'17 ;45 .1. / .<7Q.%54 ' ' ' 7,4Q,416' 1.;,< / '
.67 >.'>. / '<>.1' ., / ?7.' 2' 7,46'Q.6' E,<;7 ,<<' 1.'
?4O5 ;6'>.' 5.41J.65 ,<I' 5.' ?4O5 ;G'<,46?<7;4>% '
<,46' '' ';;46.6' >?' <.' ?' ' 1.4>1.' >.6' ;,< ?7.6'
% ,<7.6=4 ,4' .<' '' 1.<>4' 4<'=4 ' .678E'4@888'7% ';'
;46'7 ,<'64O6 67.%%%' % 7 ' :O.' '41V'>.7<'< ;' '' .@'
?5 =4.1' '' 66. / O5..'5.' / ,V.<'>.'1.?>1.'4<'?J / ?7
?546' ''5'' ?,17?.'>4' ?4O5 ;' =='5.'1.;5' / .8'Z7 =7 ' '' c'
>1, 7 >.' 5.' 1.;5'? .18'Q.' / .'Q, <6' '' 5'' >. / '<>.' >'
% 'OO>' '41V8' .7 =4?' 8' #O'O1J4>' ??' ?4 66?' ?c4'
<7.11, / ?1.8
% ' 'S' .' >. Q '<>?' ' ?1,4-.1'=4.' 66. 4'
O >.' >, 7 ?'66.1' c' 1J1>1.' >4'QJ 1' J'<Z% ;<7?4><'
% 'OO>' '41V%%%
' 9 ' '2' # Z%?1.6 >.<78'E' 766'74 1.'5,4'
..6' 'OJV.416 5 8
8' .<, E' I' 66. / O5.?' 'V'?7 >,?45' c'' ?'1,57'
' % 'OO>' '41V8' 'E.47 'OZ,c4 / 6Y7 =4 .55.' ?K'
7.<>.%
' / ' 'I'Q?'>. / '<>Z'2' 1>E47.' .5' V.'
/ .<7.7 <- <; O5. / .<7 % ,<7.6=4 ,48' %
66, / O5>.'>.; >.'=>.' 8' <?,17'6.1'' .<5.<>7I%
% 'OO>' '? <'?1Q.' 8' 'OO>' '41V' >Z>>6;.<>1N'
>.'5''71 O4<.%
' / ' K W' Q.'V,46'?1 .8' '5.' ?1.6 >?<5'
>.%1'??.5.1' '' '1>1?'?.7?;;5.6 '6c <4. 5 8=4 ' '' / '
?4>. ;.'>.' / '??.5.1'=<' <6,5.<7I'??I6' '' 8' ,='
7.6=4 =4'=4.'Q.'>.;5'1.'Q'' J4.11.%
' ' 'I' 8' 'OO>' '41V8'Q.'-,46'1'?'
?. .' '' =1>1.' ' B'V' ''4<'>.;1.7 =4 '>,<<.%5'' ?'1,5'
'' <?,178' 8
F '7 #.' =4 ' - .<7>.' 6.'?'66.1'>'<6' 6'
6. / O5>.8'..'=4.'- .<7>.'> 1.'=<' / . / O1.'>.' 66. <'
O >.'641'5''1.;,<<' '<, .8' 4<'?.4'7'1> -.8'>.6'>1, 76'
>4' ?.4?5.8' < '' ?'6' O.6, <'> 4<'7,<J> 6,,41J' ?,4<'
-,46'?1,4-.1' ,<'7'47 , .5''5.<>% ' % %
' / ' ' ' '4<'., / ?7.'Q'QZ'c ' '>. < 7 >>'
>.?4 6'- <J7 / , 6%
% 4?, N' .'1>?>7.'=4,';.'=47 VQ.47>.6.'?'6i'
6.18' =4.' =' 1>4<QJ'' /)' 4GW 7 > / OE>4';8'=4'

>.'; ,474 / .8' .7'5.'; ,<; .17'>.'; .4@'=4 8'>.?4 6'5,<J 8'
7. / ?68'>.-1' .<7' 6 '067.< 1'>.'1,6'67'<; .68%%' I '
%1 ' 'N' ,46'6, / / .6' -.<46'?,41'>. / '< 8'
>.1'4<' ; , / ?7.%' 8
%3 'N' ,46' '-.0'?1,7.676I'-,46'< -.0'?'6'
5.'>1, 7'>.'?'15.1%
%' 'N' ,47.65.6' <7.114?7 ,<6'>.'; .'J.<1.'
=4.' .?1,4-.'>.'5'' ?'17'>.'; .4''=4 ' < ,<7'?'6' / 6'
5'' 5 0.17.''4'<, / 01.'>.6'>1, 76'5.6'?546'?1>; .4@'>4'
?.4?5.%%%' & 5'6 >5.-.'>.' J1'<>6' / 41 / 41.6'>'<6'5''
?'17 .'>1, 7.P'<.' / .EH1' .<7' J4.1.%
%' / ' 'N' '' / .7'?:Q6 =4.'.67'E < .I' 5'
E'47=4 ;'5, / < .%
%' 'N' ' 6Q.'> 6%%
%' / ' 'N'K.<>.0'1,6'; , / ?7.68' 7' <.'> '
7.6'1 .<%%
%8 2 'N% .?< 6=< <0.'Q,416' %' '00>' '4M
1V'<.' - .<7'?, <7' '' -,6'67'<; .6I' 5'>7' 7'0 .<' <5 7 5.'
=4 5'V'-7<7''4Q,41> :4 8
%' 'N' .'>. / '<>.'=4.' %' '00>' '41V'
6, 5'1'??.5.'' ,1>1.' .7' ,05 J.'>.'6.'7' 1.%
%' / ' 'N'34'>.'<,46' ''5.' / .4@'>.E.<>4'
5'' 5 0.17.'>4'?.4?5.Z%%%' & <' 1 7%P' ,46'>7.6>.6'; ' '
5, <4 '7.416S' & <' / 41 / 41.%P' .'< ' / .'?'6'5.6'J.<6'
=4 ' <.'1.<>.<7'?'6'>.'; , / ?7.%
%' ,(' . >' %' 4?,17'+' 5'' ?'1,5.'?'1'4<'
>>;1.7I'-,46'<.'?,4-.08' / ,<6 .418'5.'71,405.1'>'<6'
' ,? < ,<%
' / ' 'I ,41=4 ' / ' 7 5' <7.11, / ?4Z
%' ' 'N .'-,46'1'??.55.'' ,1>1.%
8 ' ' ' ' ! ' ' .<>.0'-,6'
; , / ?7;6S
' -' '' ';'1' ' !&$! !' ! # ('C!'
$! ' ! ' (', :: ' # >' '!')! %! :
%' & 'N' .'>. / '<>.'=4.' %' '00>' '41V'
6, 5'7.<4'> .-';4.1'5''71 04<.%' & <' '??5'4> 7%P
%' '00.' '41V'E' 7'=4.5=4.6'> E>;457.6I' .4K<' 5'
; >.'5''?5'; .'' %' 4?,17%
%' 'N' 4<'>.6'?1.,? <'<76''>E7=4.'5.'>1, 7'
=4 5' 1>;5'< ' 7' .7' 7' ?1>; 6. / .<7' 5.'>1, 7' =4 5'1.'
; ,<4' 66' 7' '4' ?.4?5.%' ¢' / .' ; / 05.'=4.'Q ' '?4'>1.'
=4.'; .77.'1.; ,<<' 66'<; .' 7' 7'4<'?.<7'1'> -.%' & 54 '
' ' ' ' ' ' .' ;'5, / < .0'?'6SP' 5'
>7' 7'<.; .66' 1.' > 'Q,47.1' =4.5=4.6'?1.4-.6' '' ; .55.6'
=4 ' ?.4-.<7'1. 6457.1'> 4<.' / '< E.1.' 717. 6.<6 05.'>.'
5'' / '1; : .'=4 ''?1 6.'; .77.' 'EE' 1.8'Q.'>1' 6'=4.8'>.M
?4 6'=4.5=4.6'Q ,4168' 5.6'71,405.6' =4 ,<' ; : .1; : .' ''
.@; 7.1',47' .7>'?1.?'1. 6'?'1'>.6'?5'; '1>6'<,<' 6 J,>68'
'EE ; :>6' '-.;' 4<.' >7,<<'<7.' ?1,E46 ,<%' , 5'' QQ6'
E' 76'=4 8'1'??1, ; :>68'?.4-.<7'7' 1.'; ,<<'E71.'5.'047'
>.'; .77.'>. / '1; : .%
8' 'N' # .67'>.?4 6' '; ; .?7'7 ,<' >4'1, '=4.'
; .6' / .66 .416'6.<7' .<1'J.6%
%' 'N' ' <7.<'478' '5 .<6'E1'<; : . / .<7' ''5''
=4.67 ,<%' 66. / 05. .' <'7 ,<'5.8'=4 8' >>6' 5.' ?1.M
/ .1'Q,41'>.' 6 .6'71'-'4@8' ''>. / '<>.' =4.'5.'?405 ;'
'66 67 7' '' 6.6'6>'<; .68'=4 ' ''7,4Q,416'>>5 0.1>'>.-'<7'
54 8'=4 ' '' ?1 6'5'' ?546'J1'<>.'?405 ; 7>'?,41'7,46'6.6'
>.;1.768'; , / / .'>7'<75.'?546'6>1' / ,V.<'>.'5.41',0 '
7.< 1' '??1,0'7 ,<' J.<>1'5.8' 66. / 05>.'<'7 ,<'5.'
<.'?.<7' .71.' ' ; ;46>.'>.' -,45, 1' .7.1'4<' -, 5.'641'
'4;4<.'?'17 .'>.'6'' ; ,<>4 7.%' ' .67'0 .<' -1' ' =4.'5.'
?.4?5.' '' 5.'>1, 7'>.'>. / '<>.1'>.6' ; , / ?7.6' '' 6.6'
/ '<>'7' 1.68' .7'; .67'?,41'; .5''=4 5'<, / / .'>.6'1. '
?1.6.<7'<76I'; '1' 5'<.'?,411' 7'?'68'>'<6'6.6'6.;7 ,<6'
?'17 ;45 >1.68' ,0' 5.6' 54 / .1.6' J.<.1'7.6' < .@ 67.<7'
?'6' .<' / '66.8' .@' / <.1' >.68'>.7' 56' '466 ' ; , / '
? =4>6%' ' <, / / .'>.6'1.?1>6.<7'<76'?,41; .7,0Q.7'
6?.; '58'>.'E' 1.'1.<>1.'; , / ?7.' ''7,46'5.]' / '<>'7' '
1.68' ''7,46'5.6'E,<;7 ,<<' 1.6'?405 ;68'6, 7'641'5.' / ' '
< . / .<7' >.' '1J.<7' =4 ' 5.41' .67' ; ,<5 >8' 6, 7' 641'
.@.1; ; .'>.'5.41''47,1 7>%' @.1J'<7'; .'>1, 7''4'<, /'
>.'5'' <'7 ,<8' -,46' '-.0'>. / '<>>' '' ; .4@' =4 ' '04

6' .<7'>.6'J1 ; .6'>.'5'' ; ,41'4<' ; , / ?7.'>.'5.416'6.1M
- ; .6I' -,46' '-.0' ?,17>' >'<6' 7,47.6' 5.6' ?'17 .6'>.'
'> / < 671'>,<' 4<' ,.5'6>->1.8' .7' -,71.' - J5'<; .' ''
1>E,1 / >'5.6''046%' ! >7' 7'5'' -,71.' / 66 ,<' 6?.; '5.8'
.7' -,46' '-.0'J5,1 .46. / .<7'1. / ?5 .%' '6' 66. / '
05>.'<'7 ,<'5.8''?1>6' '-, 1'1.67 74>' '' 5'' <'7 ,<'5.N
0 .<6'>.67<.6''4';4 .8' '' -,454'<,< 6.45. / .<7'>>'
714 1.'5.6' '<; .<6' '0468' / ' 6' 5 =4 >.1'5.6'>.77.6'>;'
5'78' .78'.<'64??1 / '<7'5'' -><'5 7>8'1. / 0, 16.1'5.6'
; : '1J.6'=4 '>.-' .<7'>71.'1. / 0,416. .6%' ,41'V'?'1'
-.< 18' .5E.' '' .1>>'4<.' / ,<<' .'1.?1.6.<7'7 -.' '-.'
5'=4.55.'; .6' > -.16.6' >>?.< .6' ,<7' .7>'E' 7.6%' 34.'
.67'5.'; , / ?7.'=4 .75. '' ''1.<>1.'1.5'7 -. / .<7' '' ./'
?5, ' >.' ; .' ?'? .1'Z #.'; , / ?7.8'5.'?405 ;'5.'; ,<<' '
>>Q N' 5'1>6457.'>.6'>>;1.76' =4 ' ,<7' ,1>,<<>'5.6'> '
-.16.6' . / 66 ,<6'> '66 J<'768'=4 ' ,<7' ,1>,<<.'64;'
; .66 -. =.<7' '??5 ;'7 ,<'>.'; .6''66 J<'76''4@'>-.1'
6.6'>.?.<6.6' .7'5 =4 >'7 ,<6'>>;1>7>.6%
' ''<'7 ,<' 1.J1.57.1'' 6'<6'>,47.'=4.'6.6' .<<. / '
' .<7' ,05 J.>' '' 4<'>.?5, . / .<7'>.'?4 66'<; .'=4 ' '
, ; ; '6 ,<<>' >.6' >>?.<6.6' ; ,<6 >>1'05.6%' & .6' 14'
/ .416'6 > >-.<7'>'<6' 5'' ?'17 .'>1, 7.%Q5' ' 6' ; .6'>>M
?.<6.68'=4.56'=4.' 6, .<7' 5.6' / ,7 E6'=4 '5.6' .<7, ; '
; '6 ,<<>.68' ,<7'>7>' '; ; ,1>>. ' ?'1'-,6'>.;1.768'.7'5.'
6, / / .6'=4 ' ,777'>E5'V' 640-.< 1'V' ,<7' .7>' '??5 =4..'
?'1'-,6' >>;1.76%' ? 5'' >,<.' =4.55.' '' >7>' >'<6' ; .77'
?'17 .'5''?'17'=4.' 66. / 05..'<'7 ,<'5.' ''?1 6.'N1.'
. <`'571.'5.6'0.6, <68'>7'05 1'.7' ,1>,<<.1'5.6'>>?.<M
6.68' .7' '??5 =<.1'5.6'6, / / .6%' #.'< .67'>,<.''4;4<'
. >.'>.'; , / ?7.'E <'<; .18'7.5'=4 ,<' .<7.4>' / ' 5'
; .46. / .<78'=4.' 66. / 05.' ' ''1.<>1.N' .55.'< ''>'
'4;4<.'J.67 ,<%
' H,55.- 55.' -,46' '' > 7I' ,41=4, ' %' ,<7.6'
=4 ,4' ' 7 5'1#<>4'4<'; , / ?7.Z' %' ,<7.6=4 ,4'< 6'
?'6'1.<>4'>.'; , / ?7.%' & ,5.<7.6'14 / .416' ''>1, 7.%'
#.6' <7.114?7 ,<6' <.'?.4-.<7'?1,4-.1'=4.' J<, '
1'<; .' ,4'5'' / '4-' 6.'E, %' .'<.' >>; >.'?, <7' .<71'
5.6'>.4@8' / ' 6'Q.'1>?.7.'=4.' ' ,<7.6=4 ,4'< ''?''
1.<>48'=4 5'<.'>.-' 7?, <7'1.<>1.8' .7'=4.' 66. / '
05.' < '41' 7'?'6'6,4EE.17'=4 5'1.<> 7'>.'; , <?7.'
,16=4 ,<'%<''?'6'7,4; :>'>.'>.< .168'7,16=4 ,<' <'
. ' '4;4<.' J.67 ,<' >.'>.< .168' ,<'<.'>, 7' '4;4'
; , / ?7.%' 1'7.'; , / 7>' >.6' E <'<; .6' <' 66. / 05>'
<'7 ,<'5.' < ,<7'Q' / ' 6' .4' '> / < 671'7 ,<'>.6'>.'
< .1 ' ?405 ;6%' ' ,<7.6=4 ,4' < '' >,<.'E' 7'=4 7'
>7'7' ?405 ;'>.6'1.; ;77.6' .7' >.6' >>?.<6.6' >.' (*'
, 5 7; .'=4.' 66. / 05..'<'7 ,<'5.'6.'>.-' E' '.55.'
1<> / .'?,41'.;7' 1.1'5.'?405 ;8' .7'?,4164 -1.'5.'?1<'
; ?.8'=4 .55.' '' <71,>4 7'>'<6'1'> / < 671'7 ,<8'>.'5''
?405 J 7>'.<' / '7 .1.6'>.'E <'<; .6%' 55.''>>6 .>'=4 ''
-'<7' >.' 6.'6.?'1.1' 5' 54 'E>7' / 6' 6,46'5.6'V.4@8' .'
6,46'; .4@>4'?405 ;8' '<'>7'7'>.6'> EE>1.<7.6'>>?.<6.'
=4 .55.' '' ,1>,<<..6' .7' >.6'1.; .77.6%' , 5''5''6.45'
; : ,6.'=4 .55.'>.-' 7'E' 1.' .7' '' 5'=4.55.' .55.'>7' 7''6'
64Q.77 .'.<-.16' ,? < ,<'?405 =4.%
<' -.47'?.164'>.1'=4.' 66. / 05>.'<'7 ,<'5.8'=4'
< ''Q' / ' 6''J '=4 .<'?405 ;8'=4 ' < ''>,<<>' ''6.6'; , '
/ 7>6'=4.'5.'>1, 7'>.' ?1>?'1.1'6.6'71'-'4@8' ,<' -.4'
?.164'>.18'> 6 .8'=4.' 66. / 05>.' '' .4' <.'J.67 ,<'
>.'>.< .168'=4 .5 .'' .4' 5.6' '66 J<'76' '']'' > 6?,6 M
7 ,<8' .7=4.'?'1'; ,<6>=4.<7' .55.' .67'6,7 / 6.8'; , / / .'
5.6''471.6''J.<768 ''1.<>1.'; , / ?7.''4' ?405 ;8' ; .67'
' > 1.' '' ?1,4-.1'=4 .55.' ''1.;4' 7'<78'=4 .55.' '' >>'
?.<6>'7'<7%' 1' ; .77.' '66.17 J<' <6 > .46.8' ?'1'5''M
=4.55.' ,<' -.47' '1.1'5'' / 457 74>.8'<.' -'<7'?'6'
1<> / .' 4<.'1.?,<6.' '4@'V.4@'>.'7,47' : , / / .'>;'
0,<<.'E, %' 66. / 05>.'>, 7'4<' .7'7>.'6 74'7 ,<'>.N
E <'<; .6 I' ; .7'>7'7'>.'6 74'7 ,<' .67' / ?1 / >%
'1 ' 'N' '.]7'E'4@%
%' / (' 'N' '< V''=4.'=4'71.'Q,416'=< 5'
?'1' 7%
%' 'N' ' <7.<'<7' ,<' -.47' ,4-1 1' ,<.'>6M
;466 ,<' 641'; .'71'-' 5I' 5' .67';5' 1'=4.8' -,71.'6.66 ,<

, !

E < 66'<7 5] .1" 0 ' 5G > 5.1.1 >, " >5 5E ;77 >6 >. . : ``
1.6 =4 > . / '<>.1 ,<7 4< . '5;45 .7 ?546 > . 7. / ?6
=4 5 <. - ,46 .< '.67. ?,41 71. 1. 6 ,74.6 ,< - ,4
>1' 7 >,<. =4 '?1E. - ,71. 6.?'1'7 ,< 5 1.6757 ; .<71.
.7'7 >. 6 74'7 ,< >.6 E <'<; .6 =4. - ,46 >,<<.0 '=
?405 ; >.6 ,0Q. ;7 ,<6 / 'Q E,<>. .68 5 .67 -1' 8 / '76
=4. 5. 7. / ?6 <. V=46 '41' 7 ?'6 ?.1 / 6 >. 1 6 ,4>1.N
.7 5, 6=4 ,< " c H ?'1 ' ; ; .?7'7 ,< >4 1, 8 >7= ,45
>'<6 7%3 7.I] P.6 .6?. 1'=; .6 =4 << ?,41' 7 '- , 1 >.
; : '<J.1 5" ; ,<67 7 / 7 ,? ,< V,4>1' 7 '4 / , <6 ?'11
%V;7P ? 'EE'RO5Q1 5. ; 1 7 ?405 ;% ' 6 ; , / / . ?.1
6?<<. ?. 4 .1" =4. 5" ?405 . 7. >.6 ,?.1'7 ,<6 >.
1 66. / 07. . <'7 ,4 '5. 6, 7 5. 6.45 / ,V.< >. 5" 6,4
/ .771. " 5" 1.6?,<6'0 5 >. ,? < ,< ?405 =4.8 .7
=4 5 < .0 67. '4 ;4<. .6?. . . >. ?,4V, 1 455.1 .41 =4
' 7 &. >1, 7 >.7' 1. 1.<>1.>.6 ; , / ?7.6 '7 66. / 0 . .
<'7 ,<'5.8 . >. / '?>. =4. ?,?6 ?8,46 , ; .4?Q,<6
> '471.6 ,0Q.76 ?546 ??,17'<768 ?'1 .@? / ?5?8 >.6
? ,V.<6 > '6641.1 Q" 1.?71. . >.6 ; ,<71 0,7 <" ?405
=4.68 .7 =<8. ?,?6 ?'66 ,<6 " f ,?>1. Q KHE
% '00. '41V " 5" ?'1,5.%
Q " ?'17 . ' , '7 '&;' ' Q,418
< <) , A)98 !. ' , !, !! # $ # <
71' 1. '7,465.6?1 B ; ?.68 " .7> .<7' / . .%Q.?.<6.
=4 .55. >, 7 71. ; ,45. ` " E.<>8 .7Q. >. / '<>.%=4.
7 &/ '41V 6, 7 .<7.<>4%
>8 ? [?K? N . >, 6 1.<>1. ; , / ?7. > 4< E' 7 =4
?.47 E' 1. ; ,<<'771. 5.6 / ,7 E6 >. ; .77. > 6;466 ,<% .
? . / ; Q,?1 , 2" ?.7 7 ,< >,<7 ' ' J 7 " m6. ?5' ; '1>>.
' '1 68 .55. .7' 7 . ,<<46 " ; .<7 - <J7 : .4.6I .7
m.4@ =4 8 >'<' ?" 1 55.8 6. 6?<7 . ,=65' / / . '7 / ,<
71=6 <6 '>" 5" 1 - ,547 ,<8 '6.11' .<7 >. ; .
?1.7.@7. ?,41 > 1. =4 5 V '41' 7 >4 014 7 ?,41 . /
? .1 66. / 05. '6. 6.?'1.1%
>% 'S . >. / '<>. 5" ?'1,Q. ?,41 / ,??,
6.1" 5" >. / '<>.E' 7. ?'1 ,<5.6=4 ,<8
!% 'N Q ' 1. ;4 4?. 5.771. >. % a .55.1 / '<<
>'7. . >4 □□8 =4 / '<<?<; . 1 '5.6 01 J'<>6 ?1.?'M
1.<7 >4 7'?'J. ?,41 5. C)8
% I .6 > - .16 ; , / / .<7' 1.6 =4 ,<7
>7 '7' 56 641 '>. / '<>. >.6 ; , / ?7.6 >. ; .77. 66. /
05. . '<'41' .<7?'6 .< 5 .4 ' ' - ' 5 '>,?7. 5. >.
;1.7 =4. Q ' ?1,?,6. 5 V " '@ 6. / ' <.6% . <. ?.<6.
?'6 =4. 66. / 05>. <'7 ,<'5. >, - . >. %; , / ?7.
>. J.67 ,< Z / ' 6 Q. <. ;1, 6 ?'6 <,< ?546 =4 .55.
B%.E7 ?'6 0 .< E' 7 >. ?1.6.<7.1 4< ; , / ?7. >. 6.6
,?.1'7 ,<6% = (0 E '&)
$(?1, . .6 - .10'5 < .67 5 ?'6 5.?, / ?7. >.6 ,?.1'1
5 ,<6 >. 66. 405. .ZP ' ; 0' .<R>. %; .77.%> 6;466 ,<
6 '>1.66. ?'17 ;45 .1. / .?7 '4@ ; , / ?7.6 .< ><'<; .6%
<'41' 7 ?4 .V 7.1 6 8 5,16=4. Q ' '0 7 5" / ,7 ,<>.
6,4<1.771. '5" > 6;466 ,< 5.6 . , / ?7.6%>.6 71.6,1 .16
.7 >.6 ,1>,<<'7.4168 ,< '- ' 7 '<,? . .8 '4 5 .4 >.
1. ; '17.1 ?'1 >.6 >. ;5' / '7 ,<68 ?'1 >.6 ' ; ;46'7 ,<6
; 7,V. ,68 =4 ; : '<J.1,<7 > '>1.66.% & <
/ 41 / 41. >'<6 5" ?'17 . J'4; : .%P ,<8 / .66 .4168
Q. #; , ('4;4<. >. = .6 ' ; ;46'7 ,<6I .7 B< V "
?.16,<<. ; >,7: Q .<- . J , 1.% ,46 '41 .0
' <6 . , / / 4< =4 '5.6 ? . .?6 , 0, / / .6 1.6?,<6'
05;68 .7 ,< < " ?'6 'Q451. ; : ,6. J - ,46 >. / '<>.1% <
E5 . > 7 =4 ;5 .6 6,?7 '4J '1; : - .6I 5 &'55' 7 5.6 6,4
/ .771. " < > 6;466 ,<%8 .7 5. ?405 ; < '41' 7 ?'6 .4
%> <=4 .74>.% T %.67 # ^4<?, < 641 5.=4.5 5
% '4>1' 7 67'74.1 N; .67. .54 '>. 6' - / 1 6 66. / 05. .
?>,?7. 5. 1'??,17 >. 5 ,47.6=4 ,4 . , / / . 4<.
? . ; .470.<5 =4. ,4 " 5.J 65'741. ?,411" 71,4 - .1
?1. ; 6. / .<55 .7'7 >. 5" E,174<. ?405 =4.% % 4?,17
" .4 1' 6,<>. > J. =77. 66. ' 05 , >. - ' 7 '6 4<
; , / ?7. >. J.67 ,< >. E <'<; .6%
% (8 / ,<6 .41I 5. ; , / 7> >.6 E
RV'<; .6 ' . > / < 671 1< / / .> ; . .7. / .?7%
'I K< 64??,6'<7 =4 > ? 7'> / K 671>
54 E5 .8 Q V ? < Q 6 > ' '71.6 ?.16, '<.6 1.Q1

?,<6'05.6% E. 1>6 / " / " ?1,?,6 7 ,<% B% '0:>
'41V - .<7 '77'=4.1 5. ; , / ?7. >.6 ; , / / 66' 1.6>.
5" 71.6,1.1 . .7 >.6 ,1>,<<'7.4168 6.45 ; , / ?7. =4.
- ,46 >. - .0 ?1,>4 1. " 5" ?'7 .<8 66. / 05. . >, 7
.<7.<>1.I 6 5 - .47 '77'=4.1 5. / . / , 1.>. % ,<
5.6=4 ,48 66. / 05. . >,Q J=?'V?-?<7
.55. .< '>,?7. 5. ; ,<7.<>%
' N % 5. ?1 ,? <'<P ?? 6 >;<17. ?'6
0. '>.>4? >.6 - .1 7'05.Z ?1 <; ?.68 .7 Q. / . ?5' 6%"
54 1.<>1. : , / / 'J. '4Q,5 1> 4 % ; ,<- .<7=4. 5=
; , / ?7'0 5 7> 1.6?,<6'05. <. ?.47 ?'6 1.J'1>.E 6
6. / 05. .% 3 4'<7 '4 ; , / ?7. >. . 7'7>. <,6 E <'<; .68
5 .67 .@' ;7. / .<7 >'<6 - ,6 >. .1.768 .7 - ,<6 > .6
; , / ?7'05.6 .< ; . 6.<6 ; , / / . 641 7,47 5. 1.67.% # .67
' <6 =4. - ,46 > .6 ; , / ?7'05.6 " 5" <'7 ,< > '- , 1
>.714 7 7,<6 5.6 '0468 > '- , 1 E' 7 > 6?'1'E71. 5.6 '<
; .<<.6 > 5'? >'7 ,<68 > '- , 1 1.<>4 '4 ?.4?7. 5"
0.17> .7 >J'5 7.8 > '- , 1 >7'05 4< / ,>. >. &
- .1<. / .<7?'1 5.=4.5 5.6 ; 7,V.<6 =4 ,<7>.67'5.<76
.7 >.6 V.1746 ?J4 - .?7 '6? 1.1 'Q'@ ?5' ; .6% 6 < K
?5'=> 7 >'<6 5" ?'17 . J'4.0>%P .V' 6 1.?>1. ; , > ? <
>. 1 ! ' / .<m 44Q,41> :4 E,<7.6 ;8>6 1>>' / '-
7 ,?68 #W 1,Q " ' ; ; .>. 5" ?,?6Q 747Q,=8 .7 P P "
; .?7.m 5 ' ! ?1.<V.Z >.
; .77. 5 0.17> . 7 ! & '7?4" ;6 ,<16% %'<716
?'178 ,? 'V4=>.7.> > EE,176'4?1;6>= ?4 66'<V
; .6 >7E'4J>1. 'Jm ?1,>4 6' .<7 V .<7 =4J 66. / I
: >.8 5.1EE ; >'?6 6.6 ?1 ?. ?.68%/.6m Q' 66' 7 >:1'461
5.1 ?'1 'EQ;4?. / .<' ; .8 Q5 'P>. ? E' 5= ?5,?6 ;<>E; : . '7
%". 7>1 >.6 7?, , 0 .68 Q 6'V.? <,46 > V 6.?8.Y71g
4?<" .7 U >.714QV. : J1. > 7 ?405 ;8 ,Q =4 G>.>
; , / / .77'<76 ; ?R< / '& ! 8 (!] 6 / 6 %1.?1>'1
6.<7'<7 >. 5" <'7 ,<8 Q. >. ;5'1. >< 6,< '=4. ; .6
/ ,4 - . / .<7. < VQ1'?Q.1,<7?'6 5.6 ' / 6>. 5" :0. .E,
=4. ,?46 >.E.<>V,<6 5' . / ,67 747 ,4 ; ,<5 6.6.4 -
%<.Q< 6 <7>1 .416 .7 .@7.1 .4168 & < '??5' / 7 >' [
5" ?'17 . J'4; : . >E >><65.6 71 0<4. .8P < ; : .V . U
E5,46 E' 1. ?.1>1. >.4@ Q?416 =4 <,?6 1.67.<7
; ,1. ?,41 >>E.<>1. .E 5.6 >1, 76 >4 ?. ,?5.% . >.1
/ '<>. >,<. =4.5 66. / 05>.8 6'<6 6 '11>7;1 "7,47.>
1. ;5' / '7 ,<6 <6 > .46.68 ?>66. > ,1 1.>4 Q [1%
U6WEE\05.> >>. >. =? .55. ?'6 ` .1G U ,1>E; >4 $
Q,41%
8c8 '?U - '?. '?'6 '1 0
; : .1; : > " % <7.1?1>7.1 / .6 / ,7 E, '< 5 .< 5. 1.?,771
>1. U / .6 4 ,V.<6% E " ?'17 . J'4; : . 1. ;5 / . ,16
>1. >4 Q,41%P . <. > 6;47. 1 .W8 ?'16. =4. Q. 4 'Q
! > ,??,6.1 ! Q / ' 6 Q. >>.5'10 =4. ^ <
7.<7 ,4 44 H >1, 78 =4 - ,46 ?'17. ?'1 <" 0,4; : .8
.67 >. 1.<>1. >.6 ; , / ?7.6% k8 (
6 4 8 ,4 '78 ,46 '- ,<6
>.6 ; , / ?7.6%%% ,?6 - ,45,<6 ?6 1.<>1.888% , ;
" - ,<6 >.6 ' ; ;46'7 ,<6 " ,7.<7.1888 QE77 e 7 ??4E% >? 1
1.1 ; , / / . <,46 'V,<6 V%. ;<8 F 8
% '00. '41V >.6; .<> >. > 71 04<. '< / QE .7
%>.6 '??5'<> 66. / . ,76 >. 5" ? / 7 . %>; ,Q 7,8U. 5:G7, .6%
%>. 5" ?'1 . J'4; : . .7 >.6 :44.68
'JQ7'7 ,<1.J<.%>'<6 7,47.65.6 ?'17 .6>.5'6'55.%
% . +/ ' ' ' >. / '<>. =4. 66. / 05>. >.M
;5'1. 6 .5 . '>,?7. ,< <,< 5. 1'??,17 >. % ??7.6
=4 ,4%
% &' % K 6VQ 66.7<05g ' " ?'66. U >1.
>4 Q,41 641 7,47.64.6
d % K NoJ K ,<8 / ,<6 .41%
'J 7'7 ,< 1.>,405. >'<6 5. ; 7> >1, E%
3!@ Z f / . " .6>>
?47.6 ' 5" 5.J8 65'8541. - ,5.47 : #; : '47 , : >. J
E,<>Q 5. =4. V,46 'V.J 7.<4. ?; >'47 >.4@ '46 6
4,46 V?46 VJ; ? / / 6<> 1,46 >'<?) >>?'17.1
? .<7 I
546 .416 / . / 01.6 >. 5" ?'17 . >1. 7.
/ .4' ' 7 >4 & % '- .%

F ' (@ 8 @ ' < , 46' ' . / ' < ' , <6'Q467 ; . ' ' . ' ; ;' =4 . - . <7> . ' >E1.' % ' - . %

' 3 'N 467 ; . ' > . % ' - . ' S

8 467 ; . 8'Q46M 7 ; . ' S

% 4 N 467 ; . ' > . '1 <E' / . ' ?1 , ? , 6' > . ' % ' - . '

' ' < V ' " > <E> / . 6' > '46' ; . 77 . ' 66 . / 05 . . ' =4 . ' ; . 4@' =4 ' / . ' ? ' 15 . <7%

' 3 'N 34 . 67 ; . ' =4 4< J4 . 4@' ; , / / . ' ; . 5 " Z

'J 7 '7 , <8' 5 . 6' ; 1 6' . 7' 5 . 6' / . < ' ; . 6' > . ' 5 " ? ' 17 . ' >1 , 7 . ' 646? . <> ; <7 ? . <> ' <7 ?546 . 416' / <47 . 6' 5 " > . M 5 0 . 1 ' 7 , <%

% GGG8 ?5 , ; > ' . ' 1 . ; 5 ' / . ' 5 " Q467 ; . ' 5 " ?546' 6 . - . 1 . ' > . ' 66 . / 05 . . ' ; , <71 . ' % 'M - . 8' =4 ' < , 46' " 71 ' 7 . 6' > <1> / . 6' . 7' > . ' 6 ; >5>1 '76%

'N < / , / . <7 > ' 77 . <7 , <% , 16=4 . ' Q . ' 6< 6' . <71 . ' > ' <65 66 . / 05 . . ' Q ' - 4' =4 . 55 . ' 5 ' 7 > ' <6' 4<' . 7 ' 7' <> J< . ' > . ' 6 " / ' Q . 67> ' f Q ' ' - 4' =4 . ' 5 . ' 71 , 4M 05 . ' V >7 ' 7 . @ . 7 . ' ? ' 1' 5 . ' ; >7 . ' >1 , 78' ' ; : ' 1<> ' > . ?4 6' > . 4@' ' <6 " ? . 16 . ; 47 , 1' 5 . 60 , <6' ; 7 , V . <6% & < ' ' ??5 ' 4 ' > 7' > ' <6' 5 " ? ' 17 . ' J ' 4 ; : . ' . 7' > ' <6' 5 . 6' 71 04< . 6%P ' ' 6 ' 6 ' ; . 77 . ' , ; ; ' 6 , < ? , 41' - . 17 1' < , 6' 64 ; ; . 66 . 416' ; , / 0 . < 56' > . - ' . <7 6 . ' 7 . < 1' . < J ' 1> . ' ; , <71 . ' ; . 4@' =4 ' . 7 ' . <7 1 . >4 76' ' 4' > . 6 . 6? , 1' > . ' < . ' ? , 4- , 1' ?546' =??1 / . 1' 5 . ' ? . 4?5 . I' Q ' ' > . 6 J< . 8' < , < ' ? ' 6' 5 . ' ; 7> ' >1 , 78' / ' 6' =4 . 5=4 . 6' ? . E7 , << . 6' >4' ; >7> ' >1 , 7I' ; ' 1' 5' V' . < " > <E < / . <7 1 . 6? . ; 7 ' 5 5 . 6% & . ; #7 . ' >1 , 7' / 41 ' / 41 . %P ' . ' 5 . 41' ' ' > 7N , 46' - , 46' 1 . ; , / / ' <> . 1 , <6' > ' <6' < , 6' >>? ' 17 . / . <768' ; . 67 ' > 1 . N , 46' 1 . ; , / ' / ' <> . 1 , <6' " < , 6' . 5 . ; 7 . 416' > . ' < . ' ?546' . < - , V . 1' ? , 41' >>E . <>1 . ' 5 . 6' >1 , 76' >4' ? . 4?5 . ' > . ' ? ' 1 . 55 . 6' J . <6% #. 5' ' - . 17 66 . / . <7 ' " . 7 . %71 ' 7 . ' > <E / . ' ? ' 1' % . 6?1> ' / >< 5% ' ' 1 . ? , <>4' " ; . 7 ' < ; . < / . / 01 . ' >4' ? ' 15 . ' / . <78' 7 , 40 , 416' ' ; ; =474 / > ' " > . ? , 4 55 . 18' " , ??1 / . 1' 5 . ' ? . 4?5 . 8' =4 . ' ; . 4@' =4 ' ? ' 15 ' . <7 ' <6 ' >7 ' . <7 > . 6' <E> / . 6' . 7' > . 6' 01 J ' <>6%

66 . / 05 . . ' ? ' 66 . ' > . ' < , 4- . ' 4' " , 1>1 . ' >4' Q , 41% + % ; 7 , 1' K1 , J5 . ' ?1 . 6 . <7 . 8' ' 1' < , / ' >4' ; , / 7 . ' / 5 7 ' 1 . 8' 5 . ' ?1 , Q . 7 > . ' > . ; 1 . 7' 64 - ' <7N

' 17% F% ' . / , > . ' ?1 , - 6 , 1 . ' > . ' < , / < ' 7 , < ' 4@ . / ' ?5 , 6' > . ' 6 , 46 5 . 47 . < ' <7 > ' <6' ' 1 / . 8' =4 ' " >7 ' E@> ? ' 1' 5 . ' > . ; 1 . 7' >4' S$ ' ' , 5' (* 8' < ' 41 " 6 , < . EE . 5' =4 . ' ? , 41' 5 . 6' ?5' ' ; . 6' ' ; 74 . 55 . / . , 7 - ' ; ' 47 . 6' . 7' ? , 41' ; . > . 6' =4' - . <> 1 , <7 " - ' =4 . 1' > . ' ' 4' ' ; 7 , 01 . ' ?1 , ; : ' <% ' : . > . ' >? , =4 , 8' 5 . 6' 5 , 66411 ' - ' < ; . / . <7 ' / 5 7 ' 1 . 8' ' <@=4 . 55 . 6' 5' ' - ' 5' > . ' / , ' / . <7 ' <> / . <7> . 1 , J . 8' 1 . ?1 . <>1 , <7' 5 . 416' ; , 416%

' 55% < ; , <6 . =4 . < ; . 8' > ' 7 . 1>4' ' ; 7 , 01 . ' ?1 , ; : ' <8' <45' < . ' ? , 411 " 1' ' > / 6' ' 4@ . / ?5 , 6' > . ' 6 , 46 5 . 47 . < ' <7 > ' <6' ' 1 / #. ' =4 ' ?1 6' ' - , 1' Q467 5 . ' > 4< . ' <6714 ; 7 , < . 7 > 4< . ' ; ' ? ' ; 7 . ' 64EE 6' ' <7 . 68' . < 6 . ' 6 , 4 / . 77 ' < ' ' > . 6 ; , < ' ; , 416' . 7' . ' ' / . <6' ?1 , - 6 , 1 . 68' ' <6' ' =4 5' 6 . 1 " > 7' ; ' ' ?1 6%

" % 46=< ' ; ' =4 . ' 5 . ' ; , 1?6' >J 67 ' 7 E' ' 7' 67 ' 74 . ' 641' 5 " ? ' 17 . ' > <671' ; 7 , < ?405 =4 . ' / 5 7 ' 1 . ' . 7' 641' 5 " E , 1 / . ' - (! E <> - . ' > . 6' . @ ' / . <6' =4 ' . < 6 . 1 , <7' 5 . ' 1 . 6457 ' 78' 5' 6 . 1 " E' 78' ; , / / . < ; . 1' >4' F ' Q ' < - . 1' ?1 , . E ' ' <8' ? ' 1' 5 . 6' . @ ' / . < ' ' 7 . 416' > . 6' ; , 1?6' > ' 17 55 . < . ' . 7' >4' J . < . 8' > ' <6' 5 . ' ; : . E5 . 4' > . ' ; : ' ; 4< . ' > . 6' > - 6 , <6' / 5 7 ' 1 . 68' . < ?1 . 6 . < ; . ' > . 6' , 55' ; . 16' J . , 1 ' 4@ . / ?5 , V . 6' > ' <6' 5 " > - 6 , <8' > . 6' , EE ; . 16' 64? ' 1 , 416' > . ' 5' J ' 1< 6 , <8' . 7' > . ' 71 , 6' ; , / / 66 ' 1 . 6' ; : , 6 6' ? ' 1' 5 . ' >1 . ; 7 , 1 . ' >4' > ' ? ' 17 . / . <78' > . 6' . @ ' / . <6' ?1 , - 6 , 1 . 6 . 7' ?405 ; 6' =4 ' ' 41 , <7' ? , 41' , Q0 . 7' 5 . 6' ?1 < ; ? . 6' > . ' 5 " ; , <67 E4 ' 7' , <8' 5 . 6' . 5 . / . <76' > . ' ' 17 : / 7' =4 . ' . 7' > . ' 5 " J ' , / 71 . 8' ' <6' =4 . ' > . ' 5 " E , 17 E ; ' 7 , <%

" 8' , 46' 5 . 6' ; 7 , V . <6' E1 ' <= ' 68' > . ?4 6' J . ' > . ' 6 . Q . ' ' <6Q46=4 ; . 54 ' > . ' - <J7 ; <= ' <6' ' ; : , / ?5 68' ? , 411 , <76 . ' ?1 . 6 . <7 . 1' ' 4@ . @ ' / . <68' ? , 41 - 4=4 56' 6 , . <7> 4< . ' 0 , << . ' ; , <E , 1 / ' 7 , < . 7' =4 56' ?4 66 . <7' E , 41< 1' > . 6' ; . 17 E ; ' 76' > . ' ; - 6 / . 8' > . ' 0 , << . 6' / / 416' . 7' > . ' 0 , << . ' ; , <>4 7 . 8' > . ' 5 " ? ' 17' > . ' 5 . 41' / 4< ; ? ' 5 7 ' 1 . 6? . ; 7 - . %

" % . ' < , / 01 . ' > . 6% ' 6? 1 ' <76' =4 ' ? , / 1 , <7' E 71 . ' ' > / 6

; : ' =4 . ' ' << . ' ' . @ ' / . < 6 . 1 " & ' ? ' 1' 5 . ' < , / 01 . > . 6' . / ?5 , 6' - ' . ' <76' > ' <6' ' 1 / . %

$. ' / < 671 . ' > . ' 5 " J4 . 11 . ' . < ' > , << . 1 " ' - 68' 4< ' <' > ' \ - ' < ; . 8' ' 4@ ; , / / ' <> ' <76' . < ' ; : . E > . 6' > - 6 , <6' / 5 7 ' 1 . 68' 5 . 6=4 . 56' 6 . 1 , <7' 7 . <46' > . ' 54 ' E ' 1 . ' ? ' 1 - . < 1' > 1 . ; 7 . / . <7' 5 ' 8' 5 67 . ' < , / < ' 7 - . ' > . 6' 640 . 76' ' > / 6' ? , 41' . @ ' / . < . 7' 5 . ' ?1 , ' ; 6 - ; 10 ' 5' > . ' . @ ' / . <8' 6 J< ' ? ' 1' 5 . 6' , E5 ; . 16' ; - 56' . 7' / 5 M 7' ' 1 . 68' ? ' 1' 5 . ' / < 671 . ' > . ' <7 < . 41' . 7' ? ' 1' 5 . 6' . @ ' / . < ' ' 7 . 416%

W % . ' / < 671 . ' > . ' 5 " J4 . 11 . 8' > ' ' 1 ' 66 . / 05 . / . <7 > . ' ; . 6' 5 67 . 6' ? ' 15 . 55 . 68' E , 1 / . 16' 4< . ' 5 67 . ' J < 1' ' =4 ' 6 . 1 " 1 . <>4 . ' ?405 =4 . ' ? ' 1' 5 " - , ' > . ' / ?1 . 66 , <8' . 7' 641' 5' =4 . 55 . ' 6 . 1 , <7' > . 5 < 7 - . / . <7 ; : . ' 6 6' 7 , 46' 5 . 6' 640 . ' > . 67 < 6' ' 1 . 7' ' ?5 1' 5 . 6' ?5' ' ; . 6' > . ' 6 , 46 5 . 47 . < ' <78' - ' ; ' 47 . 6' > ' <6' ' 1 / . 8' ' 471 . 6' =4 . ' ; . 55 . 6' > . 67 < . 6' ' 4@ 6 , 46 , EE ; . 16%

$ % . 6' ; . 5 , < . 56' 6 , <7' ' 45 , 1 6' 6' ' ?1 . <>1 . 8' 641' ; . 77 . ' 5 67 . 8' 5 . 6' 640 . 76' =< 56' > ' 6 1 . 1 , <7' ?1 , ? , 6 . 1' ' 4' 1 , ? , 411 . / ' ?5 1' 5 . 6' . / ?5 , 6' - ' . ' <76' > ' <6' 5 . 41' 1 J / . <7' / ' 68' > ' <6' %7 , 46' 5 . 6' ; ' 68' 5 " 5 67 . ' > . ' 5 " > ' 7 . ' 5 " ?546' ' < ; . << . ' > . - 1 " 71 . ' ?4 6' ' - ' <7=4 , < ?4 66 . ' . < . <7' / . <6' =4 . ' ' =4 - . 5 . %

$' % . 6' ; . < ; , 416' . 7' . @ ' / . <6' ? , 41' ' 17 55 . 1 . ' . 7' 5 . ' J . ' ; , <5 <4 . 1 , <7 > ' - , 1' 5 . 4' > ' <6' 5 . 6' E , 1 / . 6' . 7' ' 4@ ? . ' =4 . 6' ' ; , 474 / . 6% . 6' 640 . 76' =4 ' 6 . ' ?1 6 . , 7 . 1 , <7' ? , 41' 5 " ?1 / 1 . E , 6' ; . 7 . @ ' / . < 6 , <7' < . ' < / . <67 . <46' > 71 . ' / 4< 6' > . 6' ; . 17 E ; ' 76' . @ J 6' ; > . 66468' ? , 41' 5 . 6' . @ ' / . <6' > . 6' 6 , 46 5 . 47 . < ' <768' . 7' 56' 6 . 1 , <7' ' 5 . / . <7' <7 . 11 , J 6' 641' 5 . 6' ?1 < ; ? . 6' > . ' 5 " ; , <67 747 , <% ' %

. ' > . ; 1 . 7' . 65' ' > , ?7>%

+ ' 41' . ' 1 ' ?? , 17' > . ' % : > < . 68' 5 . ' >> ; 1 . 7' 64 M - ' <7' " . 7 . ' 1 . <>4N

W 66 . / 05 . ' <' 7 , < ' 5 . 8' 641' 5 . ' 1 ' ?? , 17' > . ' 6 , < ; , / 7> / 5 7 ' 1 . 8' - 045' <7 1 . <>1 . ' 6 , <> ; 1 . 7' >4') ' , 7' (* ' ?546' 7 . <>4' . 7' ?546' . @?5 ; ' 7 E' ? , 41' ; : ' =4 . ' ' 1 / . 8' " ' > , ?7 ' 5 . 6' ; ; ' <J . / . <76' ?1 , ? , 6 . 6' ? ' 1' 5 . ' / < 671 . ' > . ' 5 " J4 . 11 . 8' ' <6' =4 5' 64 7N

W 17% F8' ' 1 / . 6 . 1 " ; , / ? , 6 . 8' > ' 7 . 1>4' F ' Q ' < - . 1' (* 8' 7 ' <7' . < , 5E ; . 16' =4 . ' 6 , 5> ' 768' > . ; . <7> @ / 5' ; <= ; . <7' =4 ' 71 . - <J > @ ; , / / . 6' <E ' <5 . 1 . ' . 7' > . 71 . <7 . ' / 5' =4 ' 1 ' <7 . ' > . ' 71 , 4? . 6' ' ; : . - 58' < . ' ; , / ?1 6' ' 17 55 . 1 . ' . 7' 5 . ' J . < . 8' 641' 5 . 6=4 . 56' 66 . / 05 . ' < ' 7 , < ' 5 . ' 6 . ' 1 6 . 1 - . ' > . ' 67 ' 74 . 18' . 7 ; %8' . 7 ; %$% & . ' 1 . 67 . ' > . ' ' 17 ; 5 . 8' 5 . ' / / . %P

' 4 ; 4< ; : ' <J . / . <7> ' <6' 5 . ' 6 . ; , <> ' 17 ; 5 . %

$ % ' < , / 01 . ' > . 6' <> - >46' > . ' ; : ' =4 . ' J1 ' > . ' . 7 > ' <6' ; : ' =4 . ' ' 1 / . ' 6 . 1 " > 7 . 1 / < ' ' <6' =4 5' . 67' . @?5 =4 . ' ? ' 1' 7 ' 7 ; ' << . @ 8' 6' 4E5 . 6' ; ; ' <J . / . <76' =4 . ' 5 . 6' ; 1 ; , <67 ' ; , ; . 6' ? , 411 ' . <7 . @ J . 1' > ' <6' 5 . 6' > EE . 1 . <7 . 6' ' 1 / . 6%%%%%%$

4 ; 4< ; : ' <J . / . <7 ' 17 ; 5 . %

&' % . 6' ?? , <7 . / . <76' . 7' 6 , 5> . 6' 6 . 1 , <7' E@ 6' ? , 41' . 0 ' =4 . ' J1 ' > . 8' ; , / ?7 . 1 . 1>4' G Q ' < - . 1' (* 8' ' <6' =4 5' . 67' > 7 . 7' ' << . @ 8' %Y

. 6' ' 17 ; 5 . 6' 8' . 7 8' < . ' 6 , 4EE1 . , 7' 4 ; 4< ; : ' <J . G / . <4' G

W " % . 6' ?? , <7 . / . <76' . 7' 6 , 5> . 6' 1 J5 6' ? ' 1' ' 17 ; 5 . ' 6 . 1 , <7' ? ' V 68' ? ' 1' 5 . ' 71 6' 6 , 1?405 ; 8' 641' > . 61 . - 4 . 68' 6' - , 11' 5 . 6' ' ?? , <7 . / . <76' ' 1' 6 , <> . 4' 4 , / 01 . ' > . 6' Q , 416' > . , <7> ' =4 . ' / , 6' . 67' ; , / ? , 6 . S

' 17 ; 5 . ' " ' 6' ' <6' ; : ' <J . / . <7%

$ " % ' 6 . 1 " E , 41< > . 6' 1 ' 7 , <6' > . ' E , 411 ' J . ' ' 4@' ; : . - ' 4@ > . 6' , 5E ; . 16' 64 - ' <7 . ' > . ' 7' 5' ' ?1 6N

' : ' =4 . ' ; , 5 , < . 5' ' 1 J / <7 , 4' 5 . 47 . ' <' 47 ; , 5 , < . 5' ; / / ' <> ' <7 5 . 6' 0 ' 7 ' 55 , <6' > / : < 7 . 1 . ' 5 J 1 . 8' > . 4@' 1 ' 7 , <6' ' ; : ' =4 . ' 5 . 47 . < ' <7 ; , 5 , < . 58' 4< . ' 1 ' 7 , <%S

' 1 . 67 . ' > . ' ' 17 ; 5 . 8' 5 . ' / / . %

. 6' ' 17 ; 5 . 6' " . 7' " 6406 67 . <7> . ' / / . %

' 17 ; 5 . ' " 8' ?1 6' ; . 6' / , 76' & . < ? ' 15 ' <7> . 6' / ' 66 . 62N

\ 45' , > - >4' < " >1 , 7' > V ?1 5 . <>1 . 8' Y 5 6 . 0N

W . 6' ; , 1?6' 1 . <>1 , B7' ; , / ?7 . ' 7 , 46' 5 . 6' ' <6' ' 4' / < 671 . ' > . ' 5 " J4 . 11 . ' > . ' 5 " ? ' 17 . ' > . 6> 7 . 6' / ' 66 . 6' > , <7 ' > / < 671 ' ' 5 , < 5 . 41' . 67' , <E . 8' . 7' 5 . ' / < 671 . ' 1 . <>1 " ; , / ?7 . ' > . ' 5 " 5 , 7 ' 5 7 . ' > . 6> 7 . 6' / ' 66 . 6' ' 41? . 16 , << . 6' =4 ' . < ' ' 41 , <7 ' 7 ' ; 0 ' 1J . 6' ? ' 1' 5 . ' ; , 1?6' 5 . J 65' 7 E% G

" 6> ' < ; . ' . 67' 5 . - . ' " 71 , 6'

#K ' B K ' ' a%

'N < ' - ' 7' 1>? ' <>4' ' - . ; ' 0 . ' 4 ; , <7 \ ' > ' EE . ; 7 ' 7 , < =4 . ' 5 " 71 , 4? . ' > . ' 5 J< . ' ; , / ? , 6' <75 " J ' 1< 6 , < ' > . ' 71 ' 60 , 41J' 7' 7' > ' <6' 4< . 7 ' 7' > . ' 1> - , 57 .

.7> '640,1> <'7 , % , >'>.] .771.6>4'> 1.;7, 1.' >.'> 671 ;78'>.' 5'' / 4< ; ?'5 7V'.7 >4'J><>1'5' 4; ' , .18 =4 ' '77.67.<7'5.' . ,<71' 7.%

% ' % ' ' ' ' =

&

'7.6'> / < 671'7.<16>4' > 1.;7, 1.'>'' K'6\ : <8 <' E,1/#6=4.'?546 .416E., 5 .6 ,<7 '<<,'; >'=4.'5.671,4?.6 >.'5 J<.';, /?,6'<7 5''J'1< 6,<>.' 71'60,41J6,<7>'<64'' >7'7 > <> 6; ?5 ,.' .7 > ,6411.;7 8 .7 =4 5 .6 6.' -1.<7% ''>.6>.6,1>1.6 =4'710405.<7 5''71'<=' 55 7.'?405 =4.8 ..1\ 7 5 . /'=4.';.6 ',4-.55.6 6.<7 E'466 ' .7 ;'5, /< .46.68 =4.' 5.6>7..71,4?.6 >.' 5 J<.'5,47 .@';7. / .<7 5.41' 6.1- ;.8 .7 =4 .55.6 - -.,7.<?'1E' 7.' <7.55 J.<;.''-.#5.6. 7,V.<6% .' > 1.;7, 1.' >4' > 671 ;7 .7 5.6 / 4< >?'5 7>6 , .15 E .<7 5.7 /7/.6E' 56%Y

' ' 5 5 ' :

7' '' , ; >7>'>.6 / 6>.'5''#,<65 747 ,48>.' 71'60,41J8 'V'<7 -48 >'<6>.6 ?'? .16 ?405 ;68 =4.' / ,<<, /'>7' 7 ; 7.'?,41' '-, 1'';;46.'5''J'1< 6,<>. 1'60,4 '> .71.'> <6 4<'>5'7>.'1.0.55 ,< ?1.6=4.' ,4-.17.8 .55.''' ;14'>.-, 18 .< 5. /, J<'J.'>.5'' 0,<<.';,<>4 7.'.7>.' 4< ,,'>.66,5>'76 >.6 1.J / .<76 ?1.6.<7. .<7 .< ; .77.' - 55.''1.';7,<6 6.6 ;' 7,V.<68 / .<-,V.1'4<.'>.?47'7 ,<?,41'5.6>;5' 1; 1641' ;.' E' 78 ' ' .4 : ,<<.41'>.' <6641.1'=4.%>.?4 6 / ,< '11 -..' '' 71'60,41J8 Q.'< ' ' ?'6 .4'5.' / , <>1.'64f.7>.'1,>;,<' 7.<7. / .<7 >.6 71,4?.6 =4' ;, /?,6.<7 ;.77.' J'1< 6,<8 .7 =4 5'<. / .67 />/ .'?'1-.<4'>.6?5' <7.6;0 <6' ,;4< J.<1.% G) '4<.' -.1 7> =4.'Q.' / .'E.1'7 4< >.-, 1' > '77.67.1' '4 ' 7:.<7 =4. / .<7?,41'>.714 1.1,? < ,<>>E'-,1'07.'=4.5 ,< 'Q.7..' 641'5.' ;, /?7.'>.' ;.6 1.J / .<768 .< 6.'6.1-'<7>.' 5 ,<<, /% < E, ' >.' =4,S Q ' '>,<<>' 5'' ?1>6.<7.' '77.6M 7'7 ,<%'

'N .<.'5 6?'65.6'471.65.771.6IQ.'>.?,6.' 641'5.'041.'4';.55.6>.6>1.;7, 1.6'>.'> 671 ;7 .7'>.' '' ,; .7>'>.6 / 6>.'5'' #,<67 747 ,<%

' ' 'N .'>. / '<>.'> ,E';.6'5.771.6 - .<<.<7%

' 'N ,47.6 5.6 5.771.6 6,<7 6 J<>.6 >.6 > EE.1.<76;,1?6%

' 'I' # .= .67?'65'5''=4.67 ,<I'Q.'>. / '<>.' ?'1'=4.5 ,1J'<.';.6'5.771.6 -,46 6,<7 ?'1-.<4.6%

' 'N 5 .6 ,<7 .7.'.<-,V..6 ?'1'5.'> 1.;' 7, 1.8'5'' / 4< ; ?' 7>8 '' 5'' ,; >7.'>.6 / 6>.'5'' #,<67 747 ,<'>.' '1 68 =4 '5.6 ''1.=4.6%

' 'I' .'>. / '<>.'; , / / .<7 5.6 ;,1?6 '> / ' < 671'7 E6 6 '>1.66.<7 .<;,1.' :'>.6 ,; .7V6 ?'17 ;4 ' 5 .1.6I' ;G.67'4@'8/ < 671.6 .7'4'1, '=4.' '>, 7 6 '>1.66.1% ,46< '1,<6'?'60.6, <'>.';,1?6 <7.1/X' > ' 1.6 .<71.'5.'?,4-, 1'.@.;47 E .7 66. / 05.'<' ' 7 ,<'5.I' ' <6'Q.'>. / '<>.' =4 5 < .< 6, 7 ?'6 E' 7 / .<7 ,<8 .7 =4.' ,< ?'66.'' ,1>1.'> 'Q,41% ,46 <.' -,45,3 '<'<, 16 <'05'<;68 <' '1 67,;1'7 .'< '>>' / ,;1'7 .I'<,46 -,45,<6>.6; ,V.<6E1'<=' 68 .7 4< 1, '1.6?.;7.%& <'??5'4> 7%P

<>. / '<>.'>'<6> -.16.6 ?'17 .6>.5''6'55.' ,1 ' >1.'>4'Q,41%

66.EE505 .'?'66.':' ,1>1.'>4'Q,41%

' . 0 ' 'N .';1, 6>.-, 1'> 1.'=4.8 5,16=4 5 '' .7.'=4.67 ,<'>.6 71,405.6>.' '1/>.8 .7 =4.' % 4. <.1' ''%.7.' ; 7>>'<6;.77.' 6 . / 05..8 5 < '' .7 <455. / .<7 ?'1 >'>.'5''J'1< 6,<'>.' 71'60,41J% '-' 6; 7 ' %K, .0' / 0.'4' 641'>.6 71,405.6 1.5'746 ''5''J'1< 6,< > 11'6% % ,' 55. ' '' 'Q,47.'N $' < ?.47 .J'5. / .<7; 7.1' % 4. <.18 =4 '6.'?56 <7>.'5'' J'1< 6,<>.' : ' 60,41J%\ ' < ''?'6 X7 '=4.67 ,<'>.' ;.55.'>.' 71'60,41JI' .7 ; , / / .' .55.' '' .4 4<.'71.6 ' 0,7/ .';,<>4 7.8 Q.'>, 6 1.7'05 1'5.'E' 7 ; 8 .7 1'??. ' 5.1'=4.'; .67 5.'1.J / .<7> 4-.1J<.8=4' .67 .<'J'1M < 6,<'' : ' 60,41J8>,<7 5'' .7>'=4.67 ,<%

+' % 55.1V ?1.6.<7.8 '4'<, /'>4';, / 7>'>.'5'' / '1<.8 5.'?1,Q.7>.'>. .1.7 64 -'<7N

$ 66.1,0 ..<'7 ,<'5.8 ,<S 6,<;, / 70>.'5'' / '1<.8 >.;1..'=4 5 6/>?'V ?'1'5.'71>6,1'<'7 ,<'5'5'W / / .'>.' E '5 -% ' % '<7, , / <J,'8?,41'5.'60Q,41'=? 5''E, 5 B 6?'1',1>1.'>.' 66. /05>.'<'7 ,<'5.%

('4 .;1. .6 ' ' ,? .%

$+'B% '7< / .11 5.'?1>6.<7.'=<.5=4.6 '17 ;5.6 '> ' > 7 ,<<.56'4'; ,>.'?><'5'141'58'5566,<7 '> ,?76' <6' =< 5664 - .<7N

, (' ' '9 ' GGY +'&' ''?,4164 7.'>.6 >#5 7 ' 6.1''E' 5.'>'<6 5.'>#5''>.'0' 7Q,416 '4 ?546 7'1>8 6, 7 ?'1' 5.6?'17 .65.6#.686, 7?'1'5.'?1, .'1.41'>.' '' ;, / / 4<.' ,4 6.6 64067 74768 6 5 V .<' '8 6, 7?'1'>.6 0, / / .6 >.'5, ' ;, / / 6 '' ;.7 .EE.7 ?'1'5''1,<< ; ?' 7>I' E.777.>.' =4,S 5 < V '41'' ?546 5 .4 +5'' ?,4164 7.%

B' 6' %

W 17% G8 '?,5 ;.'>.6 ;' /?'J<.6 .676?>; '5. / .<7 6,46 5''J'1>.'>.6Q4J.6 >.'?' @ .7 >.6,EE ; .16 / 4< ; ?'4@8 .7 6,46 5'' 41-. 55'<;.'>.6 J'1>.6G; :' /? 71.6.7>. 'J.,>'1' / .1 .'<'7 ,<'5.%

$' % ,46 5.6 >. 76 ; \'? '6 1' 75, ,<.6 6,<78 64 -'<7 5.41'<'741.8'>.'5'';, /?>7.<#.'>.6 Q4J.6 >.'?' @ ,<>.'5'' /4K ;?'5 7>'>4'5 .4 , ' 56 '41,<7 ' ;, / / 6%

W % ,47>. 7 141'5 ; '?1 6 / .<7 ,<<.'6.1'' ?4< 6G 6'05.'>4<.' ' / .4>.' ,4 > 4<.'>.7.<7 ,<8 6, 7 / 44 ; ?'5.8 6, 7;,11.;7 ,<<.55.8 4>.'>.7.<7 ,< .7 > ' / .<>.'1.4< .68 4 -'<7 5.6>1.,<67'<;.6 .77'' J1'- 7.'>4'>. 78 6'<6 ?1.Q4M > ;' >.' <>. /< .'=4 '?,411'' 71.'>4.' ' ; .54'=4' '41'' 6,<7 .17 5.'>, / / 'J.% '<67,46 5.6 ;'6;.77.' <>. / < 7.'6.1'' ?'V'05.'?'1'?1.E.1.<;' ' ' / .<>.%

W % <>. / < 7.% .7 ' / .<>.6,<7 >4.6 ?'1' .'>. <' =4'<7I / ' 6 ';7 ,< .< 6.1'' ?1.6;1 5.' ' .55.'< .67 <5.<7..' >'<6 5.' / , 6 0 ;, / ?7.1'>4'Q,41'>4'>, / / 'J.8

' % .6 ,EE ; .16 / 4< ; ?'4@ -. 55.1, ,7 J.<.1'5. / <7 ' ''71'<=4 55 7.8 0 5''605401 7.'.70 ''6 1.7.'>.6 ;' /?'J<.6% 56 6.1,<7 7.<46 ?'17 ;45 01. / .<7>.' E' 1.' '4 ' , <64<.' E, 6 ?'1' '<5'' - 6 5.'>.6 E,416 .E ;:. / <..6>.'7,47. / 0 6,<8 .7 >.'7,46 0E77 / .<76 >57 4>6>.' / , <6>.';.<7 7, 6.6 >.6 '471.6 :'0 7'7 ,<6%

' ?06 5'' - 6 7.8 56 ,1>,<<.1,<7 5''1.?'1'7 ,< ,<'5''>.M / ,57 ,<>.6 E,416 .7>.6;:. / <..6 =4 '6.'71,4-.1,47>'<6 4< .7'7 >.'>. '01. / .<7 =4' ?,411' 7 ;.'6 ,<,.1' '< <G ;.4> . ,4 > '471.6 ' ; >.<76I 5 ?,411''V '-, 1'5 .4 0 4<.' ' / .<>.' '4 / , <6>.'9 7 1E.68 .7 '4 ?546>.' U5 -1.6%

$' % .6 0.65 '4@ / ,1766.1?<7 .<E,4 6 >0?6 50Q,41<..8 0=4' 1.'? .>6>.'?1,E,<>.<18 ?'1'5.'?1,?1 .7' 1.' .7>'<6 6,<7.11' <8 ,4 -, 541.6 0 .<>1, 7>.6 J<0?'1'5'' / 5<, ' ?'B7.8 ?,41'V .71.' .J'5. / .<7 .<E,4 68 6,46 ?. <.'?'1'5.' >.5 <=4'<7>.'?'V.1'?<.' ' / .<>.'>.'5'' -'5.41'>4<.'Q,41' <..'>.'71'-'5 .7 5.6 E1' 6>.'71'<6?,17 .7> .<E,4 66. / .<7%

W % .6 ;,<>4;7.416>.6 0.65 '4@ 1.-.<'<7>.6 E, E.68 ,4 1.-.<'<7>4< 5 .4 0 4<'471.8 / 0 / .'>'<6 5.6?'V6>.' ?'1;,416 ,4>.'-' <.?0741.8 <.'?,411,<7 5.6 ' 66.1'?'66.1' 641'5.6 5.11.6>.6 ?'17 ;45 .16 <' 641'5.6; , / / 4<'4@8 6,46 ?. <.'>4<.' ' / .<>.'>.'5'' -'5.41'>.'>.=@Q,41<#.6 >.'71'M -' 58 .< ,471.'>4 >0>, / / 'J. / .<78 6'5.'>, / / 'J.' .67E' 7 641' '7.11' < .<6.?. ;U ,4'=4'< ''?'6 >7>'>>?,4 55>'>.' 6'' 10; ,57.8 ,4 641'4< .<;5,6 141'5%

' 55% ' >#E'4'>.'?'V. / .<78 5.6 0.67 '4@ ?,411,<7 071.'6' 6 6 .7-.<>46 046=4 0 ;,<;411.<;.'>.';.'=4'?,411'' .71.' >0 ?,41' <>. / ' ; ' / .<>.' ,4 '471.6 E1' 6 1.5' ' 7 E6 5 ?,411'' / 0 / # V '-, 1'5 .4 ;.<71.' 5.6 ;,<>4;7.416 0 5''>>7., ,< >.'?,5 ;.' / 4< >?'5.8 64 -'<7 5.6 >1.,<' 67'<;.6%

'' ''% #.74'=4 8 6'<6 5'' ?.1 / 66 ,< >4 ?1,?1 >7' 1.,4 E.1 / .18 .<50-.1''>.674 / .168>.'5'' / '1<.8 ,4 7,46 '471.6 .<J1' 6?,17>6641'5.6 5.11.68 6.1'' ;,<>' /<# 0 4<.' ' / .<>.' =4 '< .@;#>.1'' ?'6 5'' -'5.41'>.' 6 @Q,41?#.6>.'71'-' 58 .< ,471.'>4 >#>, / / 'J. / .<78 .7 ?,41E'' U71.'0 5''>.7.<7 ,< >.'?,5 ;.' / 4< >?'5.% ' / .<>.'6.1'' >.'>,40.'Q,4 / #.6 8 .7 7''>.7.<7 ,< ?,411''971.'>.'71, 6 / , 68 6'5.'>.5 <=4'<7 ''E' 77,41<.1'0 6,< ?1,E 7 5.6>76 .<J1' 6%

W ''% #,<E,1 / 0 / .<7 '4'>.;1.7 641' 5.6 E,<;5 ,<6 >.'5'' J.<>'<,.1 .'<'7 ,<'5.8 7,47>.-'67'7.41'>.10;,57.68 >. ' 0, 68 ,4 ;:'66.41'?1 6 641'5.' E' 78 ?,411''071.'6' 6' ?'1' 7,47 J.<>'1 / .'<'7 ,<'58 6'<6 '4;4<.'10=4 6 7 ,<> , K; .1' ; - 5%

W '' ' .6?. <.6 .7' / .<>.6 >07.1 / <0.6 ?'1'7.'?106.<7 >0;1.7<.'6.1,<7?<.,414.6=4.'>4'Q,41'>.'5''?405 ;'7 ,<%G

+' % #: '?.7 .1'?1.6.<7.'5'' 64 7.'>.6 '17 ;5.6 641' ,1J'<6'7 ,<>.6<,7' 1.6%

$' 17% % .6 > 6?,6 7 ,<6>.6 5, 6 >0;1070.6 >'<6 5.6 / , 6>.'6.?7. / 01.' .7>.'>0;. / 01.' 1>'7 -. / .<7 '<@

#.+$" -(' .(3(4,$ *' -(" ##3(."$-$,$$' 4,' ,$$2' -,,,("% -(&'& G$4+9*$(,'4. ,'Q2 ,,(" ,+*,'4 .',(+' * ,+$.("+*' ($!-(0+*,' 6 ,+('-(' +,$+'5*(4 ,,.',(D' +$.("-("+ .(" -(4+.,($ (* '

%' & ' ("$+,+.f," -(" $5 $-+,$ *"*(' '(. *,'3 4, ' 4 ,' ,$, +$.("5*(' --' .'5 ('3 $+3 *' - (2' .(($,.+' + ') .(+ '9(*(.+' -(' $5 $-+,$ *' (" $,.("4 .'4+.0(*$.'F' *' .(*$) .'((*

& $' (" # *-" -(' .('4 *'+)$$$,-'F' # .*$.' 4+.' (" ,+$.(". 8+ 2'5 ,'-(0$(*-. *,'* ,+$.("4) $3"-((.(!' . *,'3 4(*'(" '5 %+' - (' 3 *3 ..(*3(' +0(3' (' .(!') .'((*,"5 $' (.'$(. *,'- '4 .'$(." 3("(+3!' 3('' $.('Q

& ' ("* ,+$.("- ',' ('.( ) .'((+," ( ).(.+' + '-( )' - '# *-"-(' .('4 *'+)$$,-'-(,(. $*(' *('.(((0. *,'3(' .(!') .'(($$,'5*%(*' -(3+.+*,' '$ "f(# *,'$*'3.$.(' ' (' ,+1) (+ ' -("* ,+$.("4) $3"± *' ' $$". (* *3(*,')'(2..3(.'3(,' .7'5% +*" ('4.($(.'3+ ? ('# -" -('#('4 *'+)$$,(' (. '(.+' .(,(* ' ' .' +' '(,*('5 $')' .' .(0$(*-.+'L' -+*",('('(= 3 *-/' , (' +' ' (' (.' '(.+' .( ) *(($

+' ' (*2' -("* ,+$.("- *' ' " .( )$$ $'((*,' (.+' #,' (.$(.' +,'# *-"-(' .(&4 *'+)$$,(' .(3(# *,' $'3(.,$$ (+,' - ' *,+*' -(' (#' $5 $-+,$ *&(,'(. *,',(* " -('3 1 4 (,(./' *' $'+4.(' (* .(' (' +$*" - ' .((.(.' - ' -$' ' ,.$3,'-(' (#' .('$-(*3(7' (-$,'# *-" -" .('4 *'+)$@$($' #+ ,.' -('5 Z $ "3(''(. *,' , ,("# *),, *'"F' 4($*(' -('#+ 2'(,' -('* $$(+

' .-' ' ' *,+$.("+44(-"(*' ,. $'$" (.-.(')' 33 4(./ -+*"e('4. 3)+$*' (,+) $'' ((*,/-("4 +3(" -('* 1 ,+$.("4) $3'7 (,'5 $'* +,,.+$(,' + 3 *' .( ) .'($*(*,')' .(3(0 $..''(. *,7 -" +' " ('4($*(7 ,(* " -(.((,,#(7' -+*" *' $" +4.)" (-.'$*'3.$4,$ *'' .' (' ,+) (+ ' -("* ' ,+$.("4) $3'/ (. '#3 -" -(' .('4 *'+)$$-/

& 7' *" ("* ,+$.("4) $3"). ,' ($$ $'-((*',+,((' +*' 3 $''+$#(' - '. $'- ' ,.$) *+' -(' (..('O (*(('5)" ,'(2(3 ,(' (" -$'4 '$,$ *"3 ,(* (+' -+)" (,'+.,$3 (" ' (,' ' 3$!-('" '$A

#.6' '17 ;5.6'6,E 5' 'E5>777>6%

\' %5.'k 1>6 >.7 7'E' 7'5.;7 1 '>>5''5.E71>' U4 -'47.' >4' /' ' .'>.' '1 6' 7

W % ('4.('$-(*,8' +' *$3 4+$$,-' -(' '1 68' + '+' -(' 4.('(*,(.'F' # ''( ) -('*+ $ *+ (' ' *') +9(' +0+*,' +' *' -(' '+' '('$ *' D+ 36+.9(' - +0 $.' 6 **(.' -('' " (3.$.('4 .'0 " 4.$(.' -(' ('#+,.('+0 $.''$'($('0(,')$(*' $'+33 .-(.'3(,,('#+0(.'

66. / 05..' >.; >.' =4.'5" / 477 ; ?'5 7>' 6.1" '> ' / 6.' -.<>1.> ' / '7 <%

+G 41' 5.' 1'??,17'E' 5' ?'E' %HE5; ,78' 5.6' '17 ;5.6' 64 1'<76'6,<7' '>,?7.6I

' 17% 5GE% 66.7<05..' 0'7 ,<'5.' ';#.?7.'5"1.655 '7 ,<8' ,EE.<.' ?'E' % ,456 ' . 501.<;.' 7P4; :U7.5.78' >4' 0' 5' .7<?0V7., =4K' U 54 ' ?'66.' ?'1' '11U7 >4' ;,<6. 5' >4' 'Q4 < ((CI' >.;1# .' .< ;,<6.=4.,;.'=4.' ?% 1.J .' >.6'>, / ' .6' <'7 ><'4@ .47E.1" .< ?,66.66 ,<'>.6' 0 .<6' <'7 ,<'4@ ;, / ' ?1 6' '4> 7' 0' 58' .5' =4" 5" 6, / 4 .'=<.'U % 4;0' .5.7' c467 ' E5.1" '@, 1' ?'V..' '4' 7 .6,1' ?405 ;' 545' 6.1"1. <0,416..' ?'1' 5" #' 6 .'>.' .@51' ,1>5<' E.8' '?1.6=4 .5 .'41" .7.5 =4 >..' >' :6' 5.6' E,1 / .6' ?1.6;15 .6' ?'1' 5.6' >.;1.768' 6,46'5"1.6.1-.' >.'5">.>4;7 ,<'?,1 ..' ?'1'1'15 ;5.'64 -'<7%

5' % .>57 I 4;0' .5.7 1.<>1" ; , / <7.8' ?'1\>.-'<7'5.' >.?'B.4 .<7' >.'5" .46.8' >. '1.-.<46'.6><' / ' <.6; , / ' ?1 6' >'<6' 5.> 7' 0'558' >4' G '<-5.1' ((C'Q46=4 U 6" > ?,6' 6.66 ,<N >.; .7.' = .' ;@;.>'<78' '?1K6'>.>4;7 ,< ,1> <' 1.' >.6' <7.1K76' U *' ?,41' '>.'5" 647< / .' -.16..' '4' 71.6,1' ?4\' 05 ;8' 6.1" / ?47.' 641' 5.'1. / 0,416. / .<7' >.'5'> 7.'6, / / .%

% ' @ ' % ! ' $ & ' ' B% $ ' % 4 '% ' ,% % & '* % ' ' % (!4 J ,! *$'$ & ' ! ! ' .' % $ $ '///& '&& ' & '/0'8 $$ '& '

% Q4K 8% 77' ' ' (' & ' .' ?'V6' >.' , / 0.6' " .5>' 4<' ' " 5" H1'<; .' .< (C% #.77.' ';=4 6 7 ,<8' =4.' 6" ?,6 7 ,< 7,?,J1'?0 =4.' ?,4-' 7' E' 1.'1.J'1>.1; , / / .' <> 6?.<6'05.8' "#,45>' "5" <'7 ,< ?1.6' >.' 9' / 55 ,<6' 8 % ' 5 71.6% .6' >, / ' <.6' ?41. / .<7' 47 5.6' =4 ' .< >.?.<>' .:7 ,<7' .7;' ;.>.6' .< ()9' " %>.'K, :'< ! 4. / .<.'8' U 5 71.' > >; :'<J.8' .7' 56' ,<7' E,1 / .'5' '-.,' 4<.' 6, / / .' >.

BW' $ # $$" XI##/I I<.' *0 '#('4.$2' (,#(3 $#--" +*3$(*!$ *()' '($9*(.$(" -(' .$($$,/') -,(/ +. +*' (,' (0' ;, 50.+*((/ (,' -(' .(2,$*3,Y ' - .,$('$*-($,-'4-(!' *$+$.(' .(3 + ((4+.' +' +$' *'-(' 6+*/

' ; .<71'5'> .;:'<J.' .< - .174' >4=4.5' 5" , / 0.6' " >7.'4< .' ' . / ? 1.'E1'<;' 6' .67' >4C*' / '16' (9C% '1' ; .7' ' ;7.8' % 5.' ; , / 7.' > 4' ; .>.' '4'1, '5"?1 ' ; ?'47.' .5'6,4-.1' <.7>'>.' , / 0.68' '-.;'7,47.6' 6.6' >.?.<>' , ;6I' ?,41' .< Q,4 1' E5' ; , / / # ..1'> 'Q, 1' =4 '>.1' 5'>71.'7 >'?'1'5.6' 5.771.6 ?'7.<7.6'>.'1'7 E@' .'7 ,<8

>1'5<'7 ,<' >.' ..77;' ?1 <; ?'4E>' 6, EE.1E' >.6' >755 ;7557.6I' ";:'1'01.>.6' # / ?7. I'6'< '1, 1'>J'1>' E 4' >.< .1' 9 ' 34' >7' 7' 67 ?45>' ?'1' 5.' #,<71%I77 > .M ; :'<J.8' ,1>,<<" =4 5' 6.1' 7' ?1, ;.>>' ' @' .-'54'M 7 ,<6' >'<6' 5" E,c / .%,1> <' 1.8' 6'4E' .'< / , <6' " 8' 5.' .,< 7.'3 ,I' '?1>6' 5.6' Q4J. / .<7E'> >-'54'7 ,<8' 'E,1 / .1' ?,41' .@>.47 ,<> > 7' ; ,<71'78' .7' .4' >J'1>' .4' 5 71.' .7' ''5" > J< 7>' >.'5'> 7.'?1 <; ?'47.8' 7.55.'>. ' / '7 >.' =4 5' '- 6.1' 7' 0,<'>71.%

' ('3 -$,(' - ' ' ' +# +.(' *Y 4+" -,-' , . $ -(' " ,(..('3' ,. 0(' + .- 6 $' . 71.'5,6' ,$$+$,$'-(' ' -(' *,6 (0.(/) -.$ $(.'$$$' ',$, (-((' 3 ,(- ' (',-+*"3(,' -,+,'5 ('* "0 "4. D 4 ' *" ('4. (,'-('--3.(' $0+*,;

% 7 66. / 05K.' <'5 ,<'5.8' '?1#6' '-, 1' .<7.<>4' 6,< ;,% < 7.'>.6'>, / ' <.68' ">K;5'1#=4.'5.'?'R6>.' , / 0.68' '-;' 6.6' >#?.<>'<;.68' .67' 4<' U . / ? 1.'E1'4E' 68' .78' .< ; , /' 6 =4. / .8' >#;1>7.' ;.'=4'64 7N

G 17% p1% .6' .-'54'7 ,<6' ; , / / .<;K.6' .< .@.;<5 ,<>4' ; ,<71'7 >4' (' 7<'16' (9C' 6.1,<7' 1.?1 6.68' ;,<7 <4K.6' .7 ?'1';:.->.6'> '?1>6' 5.6' 1KJ5.6' .7 5.6' E,1 / .6' =4 ' 6.1,<7' >>' 7.1 / <>.6' ?'1' <>>;1.7' ?'17 ;45 .1%

W % .77 > <K' >>;1.7' >> .1 / <. " 5.6' 71 0 <' @;:'1J.6' >.'E4J.1' 5.6> 7.6' >-'54'75, 6' .7' >.' 1>J5.1' 5.6' > 6 1' .7 ,45' .7' E>E01<7.6' >,?7 > .6' ?,411,47. 1.' 646;.? 05.6% _

#,'>>;1.7' . 7' '>,?7>8

& &,' A=$' + ''$ Y0 "4.('(*,(.' *' 4. (,' -('--3.(,'+)' (*,'3+ 5 -' .'33 $'5 ('0 "0(!' *(U' , (.(*-.(

,4 6' " ' "E' 7' -.;' % K.7:7 <. 455V' ? 1.'4<' >; :'<J.'>.'> -.16'>, / ' <.6'>.'5" ; ,41,<<.' ;.<71.' 5" ?1 <; ?'47.' > B.<1 ; :. / ,<7' .7' K> 60.55.6I' ;.7' ; ; : ',J.'< "?, <7' >7>' #,7 6> / / >I' 5' ">,<.'>>'>71.' 6,4 / 6' ' .@ / .<'>.' 66. 05..' '7 ,< .%

$-' (" #+$ " 5$$ $' ',' ,$ 3(''+$.(' -(' 3 *$$+#,.(' 4 .' 9(.' Y0+ $-$,8' -3' (3,'36+*9(

' "(,6 *(! 8' $''Y$,/F $,.('-(' ,$0(.+$6(b/ -(' +' 4.$*3$4+ ,(' - @(*.$(6(*,' (' ' " $') (3'/ '$,$$((-+6" +' 3 b (+$,4. 0$*3(' -("(..8' ('4+D ,.$*$ $*(' - ' '(" +*(,.('+0+$, ' 4 ''(%-(' 4+.' *')$'+$(" (' $$$* ',.(' -(@(*@ /4+.' 8/ 5 $'#$,' 3 *',. $.(' + ''($*' -(' 3(' 4(,$,' +,/ +' '("#.+$"(,' ' . *' 4 +*' .(%9 $3.7 $+' 0$ (')9 ' ('* .+' - *' $' !-(3 .+' 3(,,(' 0$ (' (' ,' *') +9(' -(' 3(' 9.+*-'6 ('Y$' . $- *,' ,+$,' + $/ (,'5 %$' '(.!' 0$,' +0(3' ,$ ' U(' (' '$ 3 *',+*,' (,,(' #+ $*(/ - *,' 8'Y3, (((*,'(2$',+*,' (,' *$5 (.((, *' + (/ +0+$' -(, ,(4" $' -(, *" ('+,,.$) ,' -(' +' 0(.+$,$(, -+*" ,(*- (' -(' +/4@*3$4+,$, ' -(' " $')(('/ ('4.$*3(' 8' (2(. +$,' ,- " (" -. $," . 9+ $(*'7 +' ',$3(' ' 8 .($$-+$,(*' ** '7 3 -,+$,' .$(4 $ '+*3(+)' ,* *,$*-(4(*-+*,(-(+ .+*3(/ (' " (' .+44 ., " -(' +' U(.+$*(,

,7 6" 8.7' (98' -> 57 7' 1#4<E1' U' 5" ; ,41,<<.' ;.77.' ?1 <; ?'47.8' =4 8' 6.71, -'<7' 7' ;.<71.' >.' 5" H1'<;.8' >.-,<' 7' ?,41' 5" <'7 ,< 4<.'?1,?1 .7.' ?1> ' ; .46.% " -, .'>.' #;:'<J.' E 7' ;5 = 65.' ?,41' ,?>1.1' ;.77.' 1.4< ,<% .6' ; , / / 66' 1.6' >4' 1, ' 71' 7.1.<7' '-.;' 'K.7:4<. 455V' 4$.(/ '5,16' ?,66E.66.418' .7' 5.' ; ,<71'7'> .:'<J,'E47' ?'66#5.' CU' 6.?7. / 01.' (99%

+' 4.$*3$4+ ,(% -(' " $')(('+' (,Y - + (/' ' $!' !0+*,' ('3 *,.+,'- (%36+*9(/' .' ('4$(-' - ' -(*$(.'GI/ (,' (",(..(" - * -("(*' -36+ 9(" - $0(*,' ,.(' ' .

'& '& '69\' \' $$ '! % *' % E! &2) '
2! ' 2 '%(A! 4 ' '$, ' %(%B$ '& '*% ' !'
4! '$ ' ! %
%,' '4! ,, B$ # # $'(%,& E*' '$%' ! * %K
! '&' ')% A ',' '!(#%$! '& A '& A' #'
(, % ,'& ' % ! ' '&% A' $ '(' ! B '
& ,'B! ,' , AX' ! ('$ 'A % &' $$ 'T 2 %& '
,! '(% ! P' 2 ,' '$%'*! ' '&' ,! '
'& , &% ' ' ! ,'4 ! '4! ,' #'
$ ')'B ' ,, ,' ,' ')! ' !? $' '
, '4 -&2 ' !'(!($% '(% % ,,% % C'
E &2) '%' $ '&' %,, B$,2 $' ! ,& #'
% &% '&' 4& '& '4! '% ! '& '% ,'(%,, ,'
& 'B! *! '(%' ,! '% '(#* $,' '&' ! ,, '
4 % '(! '$ ' ! , ' $,' (!,, ,, ! ,'
2 $' ' '(%,'& '$%' $ ' ! %$ T' '&'
! ,',' %((% '$ A'B ,' 2 $'% *% $,'% ' !
(% ',! ' ! ! '$%' (!,('& ',! '%& , %K
! ' ',! '% %) (! '$%'F % ' ' ! A % '
(%,'&2 - A '& '$ ' ' ! (,' A! -' ' ' -%#'
', 4 '&! '$ ' , $ % '$ '($,'% % %A ' '
(% ' E% % ,' % A ' $%' *! ' (B$ '
($# ' '&' $,' $$,'$ 4 ,' T J \' $$ '
%Z $%# # $' * ! & ' ,%' *! '$! , 2% ' $ '
& '$%' & ,, '(B$ ' $' 4 & ', ,'B! ,'(! ', #'
! ' $ '4% '& '$%' 3 A T' ! ,' ,% , N'
,, ,' ' ! , % ! '% ,,'*%4! %B$ '')! .#'
%A' ' '4! ,' & N'% ' , '&' ' ' '
& '%', ,'4 ,'(B$,' 5
// 2 '%' 2 ' ,% ' $ '*! ,'% H'*% '$ ',% K
* '&2 ',! '& '1' $$! ,' ' '&' ,' .
4 ,'& '4% '& '@! ! ' ! _#4! ,'%' 2&#'
A% &' &2 'B! ',% 4%' 'F % ' !B'(% ', '
% ,' % ,'(% ',! '& ! ! ' ,%'B! '%& ,K
% ! '(! N#4! ,'& ' ,'(% '& ,' ! , K
& % ! ,'&2 &'(&! % 'B ' ! ,' (! % #'
,'T ! ' ,, ,'4! ,' '$% ,, * '(%,'),(('
'! %, ! '&' ! A '%' $$ '&% ,'$%'(,! '
& ',! '& ' E ! ' ! B ',%' & ! '4 ,'
, ')

'?1.6'7,47.6',.6';,<6 >>1'7 ,06'8-,71.'.,7<7>''
?.<6>'=4.'-,46'?,411 .'8'6'06';,/?1,/.771.'5.6' <'
7>1>76'>.'5'' 0'7 ,<8';,<E1/.1'?41./.47.7'6 /?5.'
/.<7' 5.6';,<71'76' >.;:'<J.'.7'>.'64??5./.<7'>>'
;:' /.?'66.6'4'?1,E7>.' 4 455V8'6'<6'1'651. <>1.'
''5'' /11''5 7.'>4<.'<,4-.55.'.1 54'7 ,<'
, >'<,71.'?1,0.7'>.'>..1.7'7

$'0 76./0 ..'<'75,<'5.8' '?1 ' '-0 E.'a7>< >;,'
/7.'>.'>,/'<.68'%>.;5'1.'=4.' ' 3'>55. 1;:. 77'1778
'-..6.6'>.?.<>',;.'8'.67'4 '2'7.<?0E.'E1',;' 68'.78'.'
;,<6.=4.<;.8'>.;1#7.';.'=4'64'7'
'$' 17%5 % .6'.-'54'7,<6.,7</' ;..6.<.@.;47,<'>,'
;,7 1''>4' '6.?7./01.' (9'6.1,<7'1.?1 6.68';><5<4..6'
.7'?'1';:.- . 8'641'5.'?#>'>4'>.<.1'9' ' .J'1'>4>7'
?'V6'>B.01;5./. 8 .7'4'>.<.1' ' ' .J'1'>.6'>,'
['<.6';> .6'?'1' 5'' 7' ,:8' '<6'=4 5'.67'.<, ,:'4'>7'
#,5 E1'7f .7';.8'>'?1.6'5.6'10J5.6'.7'5.6'&01<.6'=4'6.1,<7'
>.7.1/<..6'(%'4<'>..1.7'?'15;45.1%
' '/.7.'>.;' 5'>. .1> >.1''5.0' 104<'4@';:'1M5.';,1?6'>.' ';7.8' '77';:.6'0'4<'<,/',<'104<6'0'5''6'\'
J.6'>.'Q4J.1' 5.6>7. '>' '54'7,B6' .7'>.'10J5.1'5.6'>.>4.'
5,<68'>671';7,<6' .7'1.E,1/.''>>,7'#55.7'?,>71,<7' 71.'
6<6..?7 0 .6 Y

#.'>. .1.7' .67''>,?7>8

3 2 ,, B '&(* ,'%4! ' &%' ' %((! '
&' ' ! &% '& * '$,'% $,', 4% ,R
X' ' .' *! '$,')% B ,'&' ! ' ' -,K
'&% ,'$ ' ! %! ' ! ,' $ ' $ ' '& ! % ! '
2 $$,'% ' % & ,'! ' ! ,' ,! ', ((,'%
! ('& '$%'(B$ % ! '&' (, '&&
& ' g'041.'4@ . '05 6'?,41' >1 6 7.' .7' /'1=4.' >.6'
.<7.68'7455.6'.77, 5.1 .68' 6,<7'64??1 /.68' '<6' =4.'5.6'
>7.6' -6 5.6'.7'/'1=4.6f5.6';,//66 ,<6'>,<<'.6'4@'?1,M
?,6.6' ;0'1J#6'>.6>76'041.'4@8' '<6' =4 '4@':6?.;7.416'
.7'>1..7. 16'J <.1'4@'>4' ' ' ' ' (! !

ZKQ' 'V' < ''.

<6?.; .4<' /045''7''(,' ($ 0('>.6' '74E'.7,E.6Y'6,<7

6 55%' 6'041.'4'.1..' ' '1 6'?,41' '>4<5671'7 ,0' >7'
;,//.1;.'.7'>.6' /'<4E';741.68' ?'1'5.'1 J5./.<7'>' ' E'
-1 .1' (9)8' '<6'=4.'5.%041.'4' >.'5'' 0'5'<;.'>4' ;,/M
/.1;.8'6,<7'.J'5./;7'7'4??1 /.68' .7'7,47.6' 5.6';,//6M
6,<6'>,<<#;6'4@'?.16,<<.6'=4';,/?,6.<7'5.6>76'041.'4@'
6,,7'1 -,=4.. 7'6' %
\' 5.' ?1>6 >.<7' E' 7' 5.;741.' >4<.' 5.771.' >.
% K' 55V
W' %5.' ! ! (''< ,,4.4E'>'>1.66#E' <'/>/,1.'
'' 66.5<05.'<'7 ,<'5.8'=4.'5.';,1?6'/4<;?'5''';14'>.M
-,1'1 >J.1%'#.' /./=51.''?,41' ,0Q.5'E'';1;45'7,<' <M
;'5;45'05.'>.6'> 1.1. 556'0 55.76'?'175;4 .16'>;67< 6' ' 71.'
.;:'<J#6'#,:71.'5.6' '66 J<'76% ' 66;/0..'<.'>.;>.'
?'6'64 5.$;:'/?8' '<' /, <6' 5/?,17':#.'>.'5'' /'5 01.'5''
>.7.1/5<.1' 5 .5.' ' .<',1>,< .1' '1.5-,' '4';,/5 '>.6'
E<'<;.6'.7'55';.54'>. /, / '5.68'>5'';:'1J.'>.<'E' 1.'5.'
1'??,17'7' 66./05.'-'<7'5''E<'>.'6''6.66,<8' -
3 2 ,, B$ ' ! &! '$' 4! '&')!$ '%'
! '& ,'* % A
'' .'<;.'.67'$ 4 '%'>@':.41.6%' %

8 F' ' ' ' ' '' '9

W'E5' .1''1./6' '5''>6?,6 7,< >4' / <671.'>.' <5>'
1.41'Q 6= >';,<;411.<;.'>4>.'6,<04.'>.' ' / 55,<6'
?,41' 1.'./?5,V.68'6,46' '45<1 .'>4'1,' .7' '1.-?,<6''
0 5 .'>4' / <671.8'2'?1E 7.1'?1,J1.66 ./.<7'4@'>.?'1.'
<.<765.6'6.;,416' /?1#- 6'=4'6.1,<7'1.;,<,46'5.41'.=.'
<#;.66'1.68' '5''#:'1J.'?'1'5.6> ''>.?'17./.<76'>.'1.<7'
0,416.1' E5'<6'E5.4@ '<68' '-.;' <7#1.6'0' '?,4E' 8'7.''
'-'<;.6'=4' #4'6.1,,5E'7.''0'7 7E7'>.'?1#768
W ''71#6,1.1 '7'7 ,<'5.'.<E.1'' '-'<;.'#00=,'5 , 8
.<'?1,?,17,< >.6' 0.6, <6'1.;,<<46'?'1'5.' / <671.8'=4'
6.1''7.<4'>.Q7767 5 .1'>.' ./?5,'0'5''?1,;:' <<'5.J 65'741.' %
7,47.6' 5.6'E, 6'=4 .55.' .@ J.1'8' 4 5G',;7,01.' (* 8' .K'
? ,'>. '555E5'>.6>76'E,<>6' .1''1.<>4'?405;'?'15''-,.,'>.'
1 /?1.66 ,:8' .7 .<-,V.' <4@ =4,71. -<J7'71, 6'>.?'17.'
/.<56% ''#'66.'>.' .@71',1><'1;'1.67'74.1'' 64;;.66-.'
7<.<7'0'5'' 71# ,1.15.'<'7, '5.' 5.6'6,1</.6' =4.55.' '41''
'-'<.#.6'?,41';.7' ,0Q.78'

' ' ' ' ' ' F! ' (Q' ''
' 'F 'G

' 66./05>.'<'7 ,<'5.8' 'V,<7'?,41'>.V,5E'>. 1.G
.@#.45 ,<>.6'?1<#?.6 ., 67'547 ,4<0568'>.#1 5.'##=>C'
64'7'6' % % 8%' $
$' 178' E',47>7,V.<'11'<=0568'0';,/?7.1'>4'Q,41'>>'
5'' ?405;'7,:'>4' ?1.6.<7'>#.1.78'=4' < #1>1'7'>'<6'6.'
=4 77'<;.68',05 J'7 ,<68'?1, /.66.68' .7J#<.1'5./.<7>'<6'
7,<6'6.6'';7.6'=4.5;,<=4.68'=4.5=4. 4<.6'>. '=<'5E;''
7,:' >??1 /#.6'?'1'5'';,<67'747 ,<8' ,<'=4.5=4.6 4<6'>.]'
5'71.6' ; >.-'<7' '771 04>6' 0' >. 'E4<;7 ,<6'=4' <G.@6 .<7'
?5468' .10' ;,<>'/<>'0'4<.''/.<>.'>J'5.'0'6@ /6'5''-''
5.41'>.'6'' ;,<71 047 ,<' /.07 01.8' 6'<6'>.>4;7 ,<'>.'5''
;,<71 047 ,<'E,<; 01.'7'5.6>76' ,05 J'7 ,<6' 4 771.6'6.1,<7'
1'V#''?'1'?1,;06'-.10'5'>.6'Q4J.6'>4'71 04<'58'.7';.4''=4'
'41,<7.,//6';'>05'7';,<71.' '';,<67'747 ,<'6.1,<7'>>'
;5'106' <;'?'05.6'> ,0;4?.1'4;4<6'./?5,56'#-5.',4' /55G
7'1.6%
$' 7%' ''?. <.'.7' '/#<>.'6.1,<7'.<;0<17 .6' .7'?1,<,<'
;..68'6, 5'=4.'5.6>76'5'71.6'.7'=4'5E;'7,<6'6, .<78'>'<J'
J<'741.8' ,4' 6 /?5./.,7'0<,<.06';,//.' '<; .<<./.<7'
#@67'<7%
W 8' E .1>7'7'?,<6'>.6' /0/.6' ?.<.6' .7'6<Q.76'0' '
/0/.''/.<>.'5, 6';7,V.<6'=7' '?,17.1' .<7'5.6'/'1=4.6'
=4' ,47'0 0' '0,5 .68' ,4' =4'E.1' .<7'?,17.1'>.6'7-10.6'0'
5.416'>, /.67=4.68' '10,1.1' .<7'>.6''1EE5,71 .6'641'5.416'
/'6,<6,4'641'5.416'-, 741.6% .6',55; .16' /4<;?'4@'.7'
>.'?,5;. 6.1,47'7.<46'>.';,7767'7.1'..;70' #,<71' .B,<'
?'1'5.416'?1, .06 -.10'4@8' .7'>.'5''1./.771.'0466 7E 78'>'<J'
'' ?.16, <.'>4' J1.E 5.1'>4' 71 04<'58' 0 ';,//66'1.'>7E'
1, 8' =4 8' 6,46'?. <.'>.'E,17'74 .8' 6.1''5.<4'>.<'E'1>'
0 '7' '4@'Q4J.6' >'<6'5.6' - <J7 =4'71.'0.41.6'>.'5''1./6.'
<45'54' '41'' 07.'E'7.'>.6>7'6' ?1, .06-.10'4@'?'1'5''-,#f
>4' J1;5E.% 8
' f .6'<,5'1. '.7'7,<6' '<71.6'E,<;75,,<'1.6' .7,EE '
'?405 ;6'<.'?,411,<7'1.;.-, 1'>.6'';7.6' ,>' '=4'5

;'7 ,<6 ,4 7 1.6 '4??1 / 6 6.1' .<7 ; ,<7.<<6 ,4 <,<\
H 7 ?. <. 5 <7.1> ; ,< '06,5,. >. 5.416 E,<;5 ,<6
7 5.41 ; ,<71'-.<7 ,< ?,411'>71. >><,< ?'1 5,47 ;7
,V.<%
$ % .1,<7>J'5. / .<7>.67 7?>6 >. 5.416 E,<;7 ,<6 7,<6
5,7' 1.6 E,<;7 ,<<' 1.6 .7 ,EK; .16 ?405 ;6 =4 '41' .<7
\1 5 .41 / < 67 1. >7'05 1 5.6 ?1.4-.6 >. ; =4 ,< '?\
5.5' 7 ; >.-'<7 5 <,05.66.8 .7 5.6 ?'17 ;<5 .16 ; 71. 5.6
c4.56 5 6.1' 7 ?1,4-. =4 6 ,<7>,<< >.6 ;.17 E ;'76 5.<
5'<7 > ;.57. E < 6.1,<7 ;,<>' / <>6 > 4<. ' / .<> >J'5. >
1 E, 6 5 -'5.41>. [,0 5 1.8 .7 > 71.
'V>6 >4 7'05.'4 ; - =4.I 56 6.1,<7 >>;5'1>6 <;'?'05.6
, , ;4?.1 > '-.4 1 '4;4<. E,<;7 ,4 ?405 =<.%
% .6 ?1>?,6>6 '4 >1, 7 >.<1.J 6 1. / .<7 6.1,<7 7.Z
<468 > ?. <. >. >.67 747 ,<8 > '11>7.1 5.6 ';7.6 =4 5.41
6.1,<7 ?1>6.<7>6 8 .7 =4 8 >'7>6 >4 Q,41 >. > ?405 ;'7 ,
>. 5 ?1>6.<7. 5, 8 ; ,<7 .<>1' .<7 >.6 5 71.6 .7 =4'5 E ;'M
7 ,<6 '0,5 6 ?'1 5 ;,<67 747 ,<8 >. 5 1.4 .771. '4 ;, / '
/ 66' 1.>41, >4 71 04<'58 5.=4.5 6.1 7.<4 > 'J 1 ;, / / .
.67 ?1.6.<7 ?'1 '17 ;7. % '

- "@ WT' """

(N -'<7 =4. 66. / 05.. <'7 ,<'5. 6.
6>?'1.8 Q ' 1. / ?5 1 4<J1'<> >.-, 1 =4 .67 '<66 7.
- 71.I Q. 64 6 ;:'1J> >. -,46 ?1.6.<7.18 >466 .0
-,46 1.Q.7.18% 4<. ?.7 7 ,< E' 7. '4 <, / >. >.4@
/ 55 ,<6 >. ; 7,V.<6 =4 >>E.<> <7 5 ;,<67 747 ,<
>'<6 5.6 J'1>.6 <'7 ,<' .68 .7 =4 5 > E.<>.<7> 4<.
/ '< .1. 0 .< > 6 <7>1.66 .8 ?4 6=< 56 6.<7 >66.456
; 7,V.<6=4 < .< 1.;4. 55.<7 ?'6% 5.6 0 .<E' 76 N . .67
>.6 7 56 >. E' / 55. =4. c. -.4@ -,46 ?'15.1% .41 ?.M
7 7 ,< .67 >- >. / / .<7 Q467.8 .7 ?.47 >71. >>.1.7. .
>'<6 5. / , / .<78 ?4 6=4 5 <. 6 'J 7 =4. >. >.; >.1
=4. 5. ->1 7'05. ?1,?1 >7' 1. ?.<7 Q,4 1 .7 > 6?,6.1
>. 6 ?1,?1 .7>% ?,411' 6 -,46 / ,<71.1 5.6 1'?M
?,176 ?,5 7 =4.68 ; - 56 .7 ;, / / .1; '4@ =4 E,<>.<7
; .77.>. / '<>.I ;'1 ,< ?,411' 7 -,46 > 1. =4. -,46
5.41 '-.0 ';;,1>> >.6 >1, 76 5 7 6, 1.6 .E7 ?.1 / .77'<7
>. >.-.< 1 # 7,V.<6 ';7 E6 .7 >5 J 05.6I -, 56 '-.0
>,<<> .7 1.7.<4 5 E, 6% #, / / .<7 .< .EE.7 6.1,<7
56 ; 7,V.46 ';7 E. .7 >5 J 05.68 >'<6 4<. ;,<67 747 ,<
=4 .7'05 7 >5 J 0 5 7. '4@ E,<;7 ,<6 ?405 =4.6 ?'1
5.6 ;,<71 047 ,<68 ;, / / .<7 6.1,<7 56 >5 J 05.6 ;=4@
=4 5 5, '1, / ' <.>>E.<> > '-, 1 '4;4<. ?1,?1 .7>
5.41 > 6?,6 7 ,< .7 Q,4 66'<;.Z ,46 77. ;,<< 66.0
?'6 7,46 . / ? 1.'06,54 >7'05 ?'1 .65, 6 1, / ' <.6
641 5.6 ?1,?<>7>6 >.6 E 56 >. E' / 55.% .? 1. 464
E14 7 5.J'5 >.6 0 .<6>,<<>6 '6.6 .<E'<768 '-.; ;.4@
=< 56 ';=4 .1.<7 ?'1 5.41 <>4671 .8 5.41 ;, / / .1;.
,4 5.41 >;,<, / .N . .67 >. 6.6 0 .<6 =4. 5. E 56 >. E
/ 55. <. ?.47 Q,4 1 < > 6?,6.1%
.?'1. 56 ?1,?1 >7' 1.6 <. ?.4-.<7 >,<. ?'6 >71.
;,<71 04'05.6I 56 <, ?.4-.<7 >,<;% >71. ; 7,V=<6 ';M
7 E6% 56 <. ?.4-.<7 ?'6 ';=4>1 1 ?,41 .4@ I 56 <.
?.4-.<7 ?'6 1.;.-, 1 ?,41 .4@% #.6 ?1 <; ?.6 ;,<-.
<' .<7 ?.47 >71. 5 ;,<67 747 ,< 1, / ' <.8 , .6
;5'-'J. >7' 7 >7'05 >'<6 5.6 E' / 5 .6%
.'1. / '1=4.1' ;.?.<>'<7=4 '4 / 5 .4 >.;.65, 6
0.6?,7 =4.6 5.6 , / ' <6 '-'5.<7 >>;5'1. =4. 5.6 E 56
0.E' / 55.>7' .<71.?45>6?.1.6 >. E' / 55. ?,418 7,<
7.6 5.6 E,<;7 ,<6 ?405 =4.6% + 4 ;,<71' 1.8 ?'1 /
<,468 5. E 56 >. E' / 55.8 <>7'<7 ?'6 ;,<71 04'05.?.1
6,<<.55. / .<78 <. ?.47 >71. '> / 6 '4@ E,<;7 ,<6 ?4M
05 =4.6% + ,46 5.41 ?.1 / .771.0 >,<. > >71. ?1,?1 >
7' 1.6 >. 5.416 ?1,?1 .7>6% #.77. .@?1.66 ,< ?'1'57
0 0'11. I.55. ?. <7 ;.?.<>'<7 >7'7 / '5:.41.4@ >4
E 56 >. E' / 55. >'<6 5.6 ?'V6 >. >1, 7 >;1 78 .7 / > / .
>'<6 H5'<>1.8 , 5 / .1. 464E14 7 >J'5%
. / , / .<7 .67 -.<4 >. 5.6 E' 1. Q,4 1 >. 5.416
>1, 76 <;,<7.67'05.6I . .67 4<. ;,<E 1 / '7 ,< >.6
>1, 76 ; - 56 ?,41 5 ?1,?1 >7>8 . .67 4<. -4. ;, /
/ .1; '5. .7 <>4671 .55. >.<J'J.1 5.6Q.4<.6J.<6
';=4>1 / ?,41 .4@8 .5 > 6?,6.1 .7 Q,4 1 >.6 0 .<E' 76
=4 5. [6.1,<7 '>1.66.6 ?'1 >.6 7.67' / .<76 ,< >.6
>,<'7 ,<6%

.6Q4 E68> '?1 6 -06 >>;1.76 > : .18 ?.< .<7>.
-.< 1 ; 7,V.<6 ';7 E6% .6 E 5]'>. E' / 55.8 5.6 ' / 6 0>
>6 >. 5 ;,<67 747 ,<8 ; .6 ;,<1'J.4@ 1>.6 <'7 ,
<'4@8 6.1,<7 56 5.6 6.456 .@:>1>>>6 ?,5 7 =4. / .<
.7 ; - 5. / .<7'4 / 5 .4 >.6 0 .<E 76 > / . ;,<67 74
7 ,< 5 01. Z+ 34. >. / '<>.<5 56Z =4. 5 5, 5.41 J
1'<7 66. 5. E14 7 >. 5.41 71'-' 5 .7 '. 5.41 <><67<.
=4. 5 5, 5.41 '6641. 5 Q,4 66'<;. >.6 0 .<6 =4 5.4
6,<7>,<<>6% # .67 ; 8 ?,41 ' <6 > 1.8 5 ;'46. >.
6.1E6 >4 / ,<7 41'I> '471.6 =4 .4@ >7' .<7?1,?1 .
7' 1.6 >. 5.416 ?.16,<<.6 .7 >. 5.416 0 .<6
,< >. / , '7;47. >>. > 'EE' 05 1 '47,1 7> ?'7.1
<.55.8 5'=4.55. 5.6 ?.4?5.6 6'J.6 >, -.<7 ?1.6=4
> .-.1 >.6 '47.568 .7 =< ,< >, 7 E,17 E .1 >'-'<7'J
=<'<> 5 5 0.17> 1.5 ;:. 5.6 ' 71.6 5 .<6% ' 6 <
?4 66 <;. ?'7.1<.55.8 7.55. =4. 5 <'741. '-,4. .
=4. 5 6, ;E>7.;,<E 1 / .8 <.;,<6 67. ?'6 >'<6 A
;476 '-'1.68 >'<6 >.6 <7>1>76 > 464E14 78 >'<6 >.I
> 6?,6 7 ,<6 >. 6.1- 74>.% 'V ?546 I >'<6 5.6 ?'V
>. >1, 7 >;1 78 464E14 7 ' & >,<7Q. >. / '<>.
0,5 7 ,48 < '??'17 .<7 ?'6 '4 ? 1. =4'<> 5.J1'<>
? 1..@ 67.8 .7 5< '??'17 .<7Q' / ' 6 5 / 1.% +'#
< .67>,<. ?'6 ?,41 .7'05 1 5. 1 ?.;7 E 5 '5 =4. 5 ;
; - 5. <-.<7> ;.77. 641?'7 ,< >. 5 ?1,?1 >7> >
E 56 >. E' / 55.% + .1.6?.;7 E 5 '5 7 .<7% >.6 -.1746
>>4;'7 ,< .7 '5 / ,1'5 7.8=4. 5 5, :. ;, / / '<>
?'6% .1.;5' / . 5.1.6?.;7 > '4@ ?1,?1 .7.68 .7>.
>1, 76 ?,5 7 =4.6 =4 < . ?.4-.<7 >71. 546, 1.6%
;1.<-, 5 >J 67'741. ?1,;: ' <. .67 5. ;1 >. <
6,4; '<;.% + ,47>1, 7 1>;5' / > =4 < .67 ?'6>.;5'<
.67 4<. <Q467 ;. >J'5.% .>. / '4>. =4. 7,47 ; 7,V#
J. >. - <J7 ; <= '<]' ;;, / ?5 6 ' 7 5 > 6?,6 7 ,
.<7 1. >.6 0 .<6 =4 5 '41 & ';=4 6% 5 6 >
5.-' 7>.6> EE ;4 >68Q. 1 ;, / 7>N
>. Q41 6?14>.<;..7>. ;,<67 747 ,<.<1.<>.<7 ;, / ?a
>.4@ .41.6% + & <>. / '<>. ,1>1. >4 Q,418 V
% ! ,4? 5 .7 #,'01,4>>. / '<>.<7 5. 1.<-, 5
?1, ;:' <. 5.J 65'741.%
66. / 05.. ?'66.8 6'<6 > 6;466 ,<8 ,1>1. >
Q,41%
N . ?1 . 66.1'05>. >. / . ?.1 / .7
71. >. E' 1. 4<. <7.1?.55'7 ,< % K'1 1. / .4
b';641 5 5, 1. >4.% 5. >4 ;,41'<78 '464Q.7>.
;5'46.6 ?1,: 0 7 -.6% # .67 '= <, / >.7,47.65.6?.1
6,<<.6 =4 8 ?1 ->.6 >. 5.41 5 0.17> ?'1 >. ?'1. 55.S
;5'46.68 '466 ;,<71' 1.6 '4@ 0,<<.6 / / 416=4 '5
<'741.8 ,<7 .14 .7 ;1, .<7=4. 5 5, '1.<>4. 5. 6.<
7. / 01. 5.416 ;:'E<.6I ; .67 '466 '4 <, / >.7
?.16,<<.6 47>1.66>.68 =4 >,47.<7 >. 5 ;5'17> >. 7
5, 8 =4. Q. ?1 . % K'1 1.8 641 5. 1'??,17 ><=4.5 #.77
5, 0 .< ' 6'<7.8 .7 =4 E' 1. 7'47 > :.41.4@8 .7
1.<>4.8 >. -,45, 1 4 .< >,<<.1 4<. .@?5 ;'7 ,< =4
.;'17. 5.6 >,<7.6 >. ; .4@ =4 8 -,45'<7 ?1,E 5.1 >
0><.E ;. >. 5 5, 8 6,<7 1.7.<46 ?'1 5 ;1' <7. =4
>.6 ;5'46.6 ?1,: 0 7 -.]'1.<E.1 / >.6 >'<6 >.67.67
/ .<76 ,4 ;,> ; 5.6 ?4 6.<7 .<;,1. J><.1 5 5 0.15
5'=4.55. 56 '6? 1.<7%
N .-' 61>?,<>1. > 4<. / '< 1. 6'7 6
E' 6'<7. ?,41 5.6 ' / 6 >. 5 5 0.17> .7 ?,41 5.6 ?.1M
6,<<.6 =4 ,<7 J. / '6,46 7. Q,4J >.6 ;5'46.6 ?1,:
0 7 -.68 6 ;,<71' 1.6 '4@ 0,<<.6 / ;.4168 5 5 0.17>8
'4@ >7, 76 >. 5 <'741.% 5,7>,<7 ,< - .<7>. -,46
?'E5.1 .67 71 6 ;5' 1.I 5 .67 .@?1.66> / .<7> 7 >' /
5. >. .1.7 =4. 7,47. ;5'46. / ?>1'7 - . .7 ?1, : 0 7 -7
=4 J>4.1' 7 5 5 0.17>8 .7;%8 .7;%8 .67 1.?47>. <,1
.;1 7.% (-.10. '4 ?1>6.<7 1 4 7'7,<7.65.6> EE ;45
7.6 =4 ,< ?,411' 7 ,??,6.1 .0>;47 ,<>. 5 5, >4
6.?7. / 01.%
'55.416Q 'Q,47. =4. ;.77. =4.67 ,< >7>8 >'<6
7. / ?6S > 6;47>. '-.; 5 ?546 J1'<>. '77.<7 ,<>' /
;, / 7.6 >. ;,<67 747 ,< .7 >.6 >, / ' <.68.7 -,
;, / 7.6 ,<7 7,4Q,416 ?.<6> =<. >. ?<1. 55.6 >'46.
>.-' .<7 >71. 1>?47>.6 <,< >;1 7.68 ;7 =4. 5.416 '4

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

5 K 3' ' K' % B K 3 / ' & P%

G (' ' ! ' ,

[illegible]

[illegible]

& P .; , / / .<; . / .<7>.%..'1'??,1'6.'71,4-.''7''<6' JE7 .7'C9C8'?'J.69C)' .7 (7%

' 8 S $' (^ .

?1,>'5⁷ >.ˢ ';:'7'<ˢ?1,>, ˢ>.ˢ .6? .6ˢEE5,<7'V>.6ˢ #'7
@;>>'<7 6.4ˢ>7'<7 ;,<6'1->641ˢ >7'7 >.6 >>?.<6.68 7.ˢ
;,<?7,ˢ>./ .71ˢ5.ˢ/>7<.Iˢ;'5ˢ'?1 6 ,?1'5 ,K ,< ,@',ˢ
7./.<7 5ˢ /4EE5.ˢ, / / ˢ=' '4?'1'-'<78 EE5, < ˢ =4 ˢ<>
;,>7>?,41ˢ >;5 '<J. ˢ < ;:.1'57 <;,1.ˢ> '>71.ˢ '17 ;5'6
?,15>6 K>.?.<6.8 7. ˢ =4ˢ >.ˢ '-'<;. / ,/ .<7'<>. ˢ>.ˢ
6,/ / .6=4ˢ>,-' .<7>1.ˢ1.<>4.6 6,46 ?.4ˢ>.ˢ7./?68>.ˢ
>>?>76 =' ˢ5.ˢ71>6,1ˢ?405 ; ˢ1.65 74> ˢ > ˢ1.6;15?B,<6
>;04.6 .7 ;=4 77>.6 E'47.ˢ>.ˢ?'V. / .<7 >'<65.6 ?1,-<;.6
7'<>56 =4.ˢ ,< ?,17.ˢ .< 1.;.77.ˢ5ˢ 1.<71>.ˢ>.ˢ;.6 />/.6
8ˢ6,/ / .6 '-'<;>.68 >.ˢ<,4-.'4@ >>?>76 70 76 '4 71>6,1ˢ?4ˢ
05 ;8 ˢ;=4 4./.<7 >4<.ˢ?'17.ˢ >.6 / > / .6 1.6;1?7 ,<6
6,5>>.6 >.?47.ˢ?'1 5..ˢ1.;.-.416 J><>1'4@\ ,47 ;.5ˢ <.67
=&E.;7-./.<7=4 44 / ,-./.<7>.ˢ;' 66.8 0,< >ˢ; ,<<'771.8
:' 6 =4ˢJ1,66 7 <47 5.ˢ/.<5 7.ˢ;,5,<<.6 >.ˢ1.;.77.ˢ.7>.
>>?.<6.8 ,7 >,<7 ˢ0'5'<;.ˢ6.<7.ˢ> 57 ?1,>4 1.ˢ4< 1.`457'7
'?75 ;'05.ˢ> 4<.ˢ,4>ˢ '471. 7 6.1' 7 <47 5.ˢ>.ˢ;7.1> '4ˢ
71.6 '1 ;5.68 ?'1;.ˢ=4 5.67 <>;#66' 1.ˢ>.'1'?? .E'.<>.M
7' 5 7,56 ;.4@ =4ˢ ?1>6,<7.<7 >ˢ /> / .ˢ>.6 1.;.77.6 ,ˢ>.6
>>?.<6;6 5;7-.6 ?1>6 5.'1'66./05./.<7>.ˢ.4@ '4@=4.56
;.77.ˢ ,06.1-'7 ,< 6.ˢ1'??,17. ,< 5.6 6>?'1.1ˢ>4ˢ;. /?.ˢ
1>.5 ˢ0'5'<;.ˢ.<6.1ˢ5ˢ />/Yˢ/ '76 5.6 6,/ / .6>.6 1.M
;.>.6 .7 ;.>.6>.6 >>?.<6.6 6.1,<7 > EE.1.<7.6G .7 5,<8'41ˢ
4<.ˢ?546 0467.ˢ >>0 >.6 4<.6 .E>.6 '471.6_

300 ˢ ˢ ' ˢ0 ˢ Aˢ ˢ

17 F ˢ ?1./ .1ˢ., / 7<76 >4ˢ J1'<>ˢ;, / ?7'<7 >7' 7
>'<6 46'J.ˢ>.ˢE,41< 1ˢ>.6 0,<6 >.ˢ;' 66.ˢ?,41ˢ ';=4 57.1ˢ
;.17' <.6 >>?.<6.6 .ˢ71>6,1ˢ?405 ;ˢ>ˢ=47 7 5.6 1./.75' 78
.< E' 6' 7 ,< '17 ;5.ˢ>.ˢ1.;.77. ?'1;.ˢ=4 5 . .<6.1-' 7.<\
64 7.ˢ?,41ˢE' 1.ˢ6.6 ?'V. / .<768=4ˢ '5,16 .7' .<7 ?,17>6 .<
>.?.<6. < < ;.6 0,<6 >ˢ7.1/.ˢ>7ˢ5,<7 ˢ;=, 77.6 >ˢ5.41ˢ
>;:.'<;.8 .7 . .7' 7 4< 6.;,<>ˢ '17 ;5.ˢ>.ˢ>.?.<6.ˢ641ˢ5.ˢ
/./.ˢ, 0?78 =4 75 EJ55'57 .< <6;1'1.ˢ?,41ˢ ,1>1.ˢ>.ˢ5ˢ
;,/?7'055 7.8 / '76 >,<7 ,< 1.;,<<'57 ' 6./.<7 5.ˢ>,405.ˢ
./?5,ˢ5,16=4 ,< 5.ˢ71,41.ˢ>'<6 5.6 ;, ??7.6 75 <Vˢ1 .<
=4.ˢ>.ˢE ;7 E>'<6 ;.77.ˢ,?.1'7 ,<Iˢ6 75ˢV'-' 7=4.5=4.ˢ;:,6.ˢ
>.ˢ1..58 ;.ˢ6.1' 75ˢ>EE.1.<;.ˢ.<71.ˢ5.6>.4@ 1.6455'76 ˢ<.ˢ
?,411' 7 /#/.ˢ.<.@ 67.14<.ˢ/, / ,<7'<..ˢ=4 .< 64??,6'<7
=4.ˢ7,46 5.6 0,<6 .< =4.67 ,< <.ˢ6.1' .<7 ?'6 .;:468 ,4
=4 76 4 '41' .<7 ?'6 .7.ˢ71.6.<7>6 >'<6 5ˢ >41..ˢ>4ˢ;, / ?7.ˢ
1.<>4I / '56 ˢ < .< .67 ?'6 /, <6'<1'5 =4.8 >G'?1.6 ;.77.ˢ
1.>> 7 ,< >.ˢ;, / ?7.G 71.6 0,4<.ˢ?,41ˢ;,<67'7.1ˢ5.6>5'76 >.ˢ
;' 66.8 ,< ?,411' 7 ?1.<>1.ˢ4<.ˢE<466.ˢ>>.ˢ>.6 6,/ / .6 .EM
E.;7-.6 =4ˢ6.<7 .<71>.6 '4 71>6,1ˢ?405 ;ˢ.7>.ˢ;.5.6 =4ˢ.<
6,<7 6,17 .6 ,41ˢ#71.ˢ>'<6 5.ˢ-1 / 8 ˢ.67>,<.ˢ,>..66' 1.ˢ
>.ˢ1.71'<;:.1ˢ>.ˢ5ˢ1.;.77.ˢ5.6 0,<6 >4ˢ?1./ .1ˢ;./ / 6 >4ˢ
J1'<>ˢ;, / ?7'<78 .7>.ˢ1.71'<;.;.1ˢ4<.6, / /.ˢ>J'5.ˢ>.ˢ5ˢ
>>?.<6.

<6 8 <G T8 '17 ˢ ˢ 558 E.6 0 <6 ˢ7.1/.ˢ>4ˢ?1./ .1ˢ
;./1< 6 >4 J1'<>ˢ;, / ?7'<7 E,1<'.<7 ,< '17 ;5.ˢ>.ˢ1.;.77.ˢ>.ˢ
U / 55 ,<6 (8 9 ˢ5 -
ˢ #.77.ˢ1.;.77.ˢ>, 7 > 6?'1'7 1.ˢ.<7 >1./.<78 .75'>>?. 6.ˢ
#,11.6?,<>'<7.8>.ˢ(/ 55 ,<6]* 8 C ˢ G>, 7 #71.ˢ1.>4 5.ˢ
>4<.ˢ6, / / .ˢ?'1. 55.
17 ˢ ! '4>. .78 0'<=47.1ˢ K1.678 V 'E'57 5,<J5./?6
5.ˢ6.1-;.ˢ>4ˢ71>6,1ˢ?405 ; ,< 7 1.ˢ641ˢ54ˢ>.6 / '<>'76I 5
E' 7 >.6 E1' 7.6 641ˢ5.ˢ?1./ .1ˢ;,</ 6 >4J1<<>ˢ;, / ? / <78
.ˢ.67 4< ;, / ?7.ˢ,4-;15 >.ˢ?'17 .7 >'<51.ˢ ! '4>. .7
.<-. .ˢ=4. =4.E,56 >.6 .571.6 >.ˢ;:'<J.ˢ641ˢ '1 6I ,<?,17.ˢ
.<>.?.<6.ˢ>'0,1>5.6 ?'V. / .<76 =4 ,< 54ˢE' 78.7 .,64 7#
#.54ˢ>.6 71'55.6 =4 5 E' 7 641ˢc.ˢ71#6,1ˢ?405 ;I / ' 6 >.ˢ7,47
;.5ˢ 5 <V ˢ>.ˢ1..5 =4.ˢ5.ˢ6,5>.ˢ>4ˢ;, / ?7.
<6' ?,41ˢ;,,<' 71.ˢ5ˢ-.1 7'05.ˢ1.;.4,8 ˢE'47>;'17.1ˢ
#.6 '17 ;5.6 8 =4ˢ< .4 ;.<7 .<<.<7 =4 4<.ˢ ;7-.8 .7 ?,41ˢ
'-,1ˢ1.7'7 0467.ˢ>.6 >#?.<6.ˢ 7 E'47 .< 1.71'<;:.1ˢ4<.ˢ
6, / / .ˢ?'1. 55.
G F8 '17 ˢ ˢ ˢ .6 5.771.6 >.ˢ;:'<J.ˢ.<-.V>.6 ?'1ˢ
B ! '4>. .7 E.1/.<7 4< '17 ;5.ˢ>.ˢ1.;.77.ˢ>.ˢ 85\ (8 9 \
ˢ '17 ˢ ˢ I .6 / '<>'76 ><'?1./ .1ˢ
#, / / 6 >4ˢJ1'<>ˢ;, / ?7'<7 E.1/.<7 4< '471.ˢ
'17 ;5.ˢ>.ˢ1.;.77.ˢ>. ˢ G(8 *(8U9

,7'5 >.ˢ<1.;.77. I)8(U8)C
<ˢE.47 E. 1.ˢ>6?'1'71.ˢ;.77.ˢ6, / / .ˢ>.6 1.;.77.6G .7 .<
1.71'<;.:.1ˢ4<.ˢ6./05'05.ˢ>.ˢ;.55.ˢ>.6 >>?.<6.6ˢ;,11.6?,<Gˢ
>'<7.68=4ˢ/,<7.<5 ˢ5ˢ/ 55 ,<6 ˢ -

(Fˢ Sˢ ˢZ Z 9 Z ˢ ˢW7 ˢ

17 d \^ ˢGY'17ˢ ˢ ˢ .7 .EE.4ˢ1;<71>6 ?'1ˢ ./

<'7 <<<ˢ 7,1 / .<7 4< 617 >.ˢ >.ˢ1.;.77.ˢ>.ˢ CC / B ,<7
(GC ˢ55-
G UG '17 ˢ ˢ B ˢ64??1.66 ,< >.ˢ;.6 / > / .6 .EE.7.ˢ
E.1/.ˢ4< 17 ;5.ˢ>.ˢ>>?.<6. >.ˢCC / 75 ,<6 (8C9* -
#.6 >.4@G6, / / .6G '06,54 / .<7 '5.6\?.41.777.7>, -.<
>71.ˢ1.71'<;.:>.6 >.6 .7'76
G C G '17 ˢ -' 66.55.ˢ? V7>.ˢ'4@ ,<<' .6 E,1/ˢ
4<.ˢ1.;.77.ˢ>.G8 G - ˢ G U U
G UG '17 ˢ ˢ1./ 0,416./ .<7 >.ˢ;.77.ˢ
/ > / .ˢ-'566.55.8 ?,17>..<>>?.46.G / ,<7.ˢ UG)C G(

'1.;.77.ˢ641?'66.ˢ5ˢ >>?.<6.ˢ>. Iˢ$ˢ $$W C GC)*
! .67 ;.77.ˢ>.1< >1.ˢ6, / / .ˢ=4.ˢ '<7;5.ˢ>.ˢ1.;.77.ˢ>,5
>71.ˢ1>>4 7I ,.54ˢ>.ˢ>>?.<6.ˢ>,55 >71.ˢ1'V>
$ E7G UG '17 ˢ;:'76 >.ˢ/ '7 1.6> ,1ˢ,7 > '1
J.<7 6,<7 ?,15>6 .< >>?.<6.G .7 ,<7 ,, 7> CGU* G
G)8 '17 ˢ .7>1.J4>.ˢ& ˢ< > / .6 8
0Q.76 (G99 G)(C

ˢ>>?.<6.ˢ.@.>>.ˢ:1.;.77.ˢ>. UG) GU)
K< 1.71.<;:'<7 5ˢ6, / /.ˢ> ˢ?1,>477G ˢ<.ˢ1.67.1ˢ=4.ˢ
'17 ;5.ˢ>? >>?.<6.ˢ=4ˢ/ ,<7.1< ˢ;.77.ˢ>.14 1.ˢ6 / /.
CP '17 .6 6,1' / .6 -.16>.6 .< 64??5>/ .<->
<'<;.ˢ?'1ˢ5.6 ;, / / 66' 1.6 >.6 J4.11.6 ,,6.1->6 E,1/.6
4<'17 ;5.ˢ>.ˢ1.;.77.ˢ> I $ C G
GU8 '17 ˢ I .6 60 / / .6 1./ 0,416>.7ˢ
'4@ ;, / / 66' 1.6 >.6 J4.11.6 64??5574>6 E,1G
3 ˢ'17 ;5.ˢ>.ˢ>>?.<6.ˢ>. G \ 7G \ \ G \ 7 \ ˢ U* 8

'>>?.<6.ˢ.@; >.ˢ5ˢ1.;.77.ˢ>. - 8 ˢ C* G
<6 8 .< ;, / ?.<6'<7 4<.ˢ?'1 '471. ˢ'< ;5.ˢ>.ˢ1.,.77
>, 7 >4 ˢ1.71'4.0>8 .7 ;.545 >.ˢ>>?.<6.ˢ>, 7 > 1.ˢ1>><ˢ
C* 8 ˢ d
G U G '17 ˢ K-,16.6 '-'<;.6 E57.6 ;:'1J.ˢ>.ˢ1.<7
0,416./ .<7 E,1/ .<7 4< '17 ;5.ˢ>.ˢ>>?.<..ˢ>.)G UU
C8 '17 ˢ I ˢ >7> E' 7 >.6 1./ 0, 16.ˢ
/ .<76 > 4<.ˢ?'17 .ˢ>.ˢ;.6 '-'<;.6 ?'1ˢ5ˢ-55.ˢ>.ˢ
'1 6 .7 ?'1ˢ5.ˢ>>?'17./ .<7 >.ˢ5ˢ ! 1,<>.I 6
E,1/.<7 4< '17 ;5.ˢ>.ˢ1.;.77.ˢ>. C 8

ˢ>>?. 6.ˢ.@; >.5ˢ1.;.77.ˢ> . 8 9)G:U7ˢ
'17 ;5.ˢ>.ˢ>>?.<6.ˢ>, 7 > 1.ˢ1>>4 7 ˢ;.77.ˢ6, / / .Iˢ;.5;
>.ˢ1.;.77.ˢ>,07 >71.ˢ1.71'<;:> 8
G U8 '17 55 .6 71' 7.6 .7 '471.6 >>?.<6.6 1.
5'7-.6 '4@ ;:'76 >.ˢJ1' <6 E,1/ .<7 5 4 17 ;5.ˢ>.ˢ>.?.<6
>. U(8U(8(
E C8 '17 ˢ 55 ?1,>4 7 >.6 J1' <6 -.<ˢ
>46 E,1 / .ˢ4< '17 ;5.ˢ>.ˢ1.;.77.ˢ>. 8)) 8 U

ˢ ˢ>>?.<6.ˢ.@; >.ˢ5ˢ1.;.77.ˢ>. ˢU 8)(8 U9
& .67 ;.77.ˢ6, / /.ˢ=4.ˢ5ˢ>>?.<6.ˢ>,57 >71.ˢ1 77 7.I '1ˢ
7 >.ˢ>.ˢ1.;.77.ˢ>,57 >71.ˢ1.71'<;:>
GU8 '17 ˢ ˢ1./ 0,<16./ .<7 U;61.6;15?7 ,ˢ
=4.ˢ5.ˢ71>6,1ˢ?405 ; >7>ˢ,05 J.ˢ>ˢ;=4 77.18ˢE'47.ˢ>.ˢ?'V.M
/ .<7 >'<6 5.6 ?1,-<;.6G E.1<.ˢ4< '17 ;5.ˢ>.ˢ>>?.<67
>. % C8((G (
F 8 '17 7 G ˢ1.675 47 ,0 E'57.ˢ'4 71>6,1ˢ
?405 ;ˢ>4 / ,<7'< > 4<.ˢ?'17 .ˢ>.ˢ;.61.6;1 ?ˢ 8
5 .<6 ?'1ˢ5.6 1.;.-.416I J><>1'4@ E,1/.ˢ4<.ˢ
1.;.77.ˢ>.)8

ˢ>>?.<6.ˢ.@.>>.ˢ5ˢ1.;.77.ˢ C)8))*8 8
'17 ;5.ˢ>.ˢ1.;.77.ˢ>, 7 >71.ˢ1.71'<;.:>ˢ;>45>.ˢ>>?.<67
>,57 1.ˢ1>>4 7 C)ˢ/ 7 ,<6))*8 9 -
C8 '17 ˢ >E, 5 >.ˢE '4@ >>?>:ˢ
'4 71>6,1ˢ?405 ;8 ,: ˢ .< .@ 67' 7 >>Q I 7 6 E,1/ .<7 4< '1M
7 ;5.ˢ>.ˢ1.;.77.ˢ>. CG G9
GU8 '17 ˢ ˢ < ˢ >7>1.7 1>ˢ>4 71>6,1ˢ
?405 ;ˢ4<.ˢ?>17 .ˢ>. >>?>767'<7 '<;. ,<6=4.ˢ
<,4-;'4@ =4 5 ˢ-'51.&46 #.7 '17 ;5.ˢ>.ˢ>>\
?.<6 ˢ.67 >. % CG9(89

,'>>?.<6..@; >.ˢ5ˢ1.;.77.ˢ> ,)>"\,ˢ
'17 ,ˢ>.1.;.77.ˢ>.57 >71.ˢ1'71'<.0>Iˢ;.54ˢ>.ˢ>>?.<67
>, 7 1.ˢ1>>4 7 ˢ)8 ˢ - 8

< .77<@,4<,

Iˢ I'1 ˢ ˢ ˢ ! ˢ Cˢ ˢ/ ˢ
(S *U I I / U I

17 GG ˢ ˢ U8 (8 9
17 ' ˢ)\(>U\)C7

DF41 2 12' $

'I U' F ' ! S (' ' '
C' ' / CS ( )

1 h%% %' * 9 %*9* %
17% %%%%%%%%%%%%%%%%%%%%%%%%' ' ' ' ' ' ' U8)C 8(
17% B 8%%%%%%%%%%%%%%%%%%% %%%%%%%%' 7899S8) (U%
1 %%%%%%%%%%%%%%%%%%%%%%%%%%%' ') %
17% %%%%%%%%%%%%%%%%%%%%%%%%%' ' ' C 8
17% %%%%%%%%%%%%%%%%%' ' ' 8)) 8 U
7 7(7
17% %8%%%%%%%%%%%%%%%%' ' ' ')8 89
) 8 %**) %

,1' ,?? =4.1' ,7 5. / ,<7 .Y ,0Z.1-'7?? [' ?1 >. / .G'
'<@' 7'76' >.' 1; ; . 7. ' .7 >.' >'E' .<6.' E, ,1<56' ?' 1' 5.6' ,1> ,<?' '
7.=16' >4' 1>6 ,1' ?405 ;' >4' G ,' ' ()*' '4' ' '<V ?1' (* %
B E' 4 7' > '?1E.6 5.6' / ,7 E' =4' -5' <<.<7 > .71.' .@?5 =<g8' 1. '
71' <; : .1' > .6' 1. ; .77. ' .7 >7 , .<6 .6' ,1> < ' 1 .6 5' ' , /1 , ' >.'
)' 1, 5 ,<' U8*)U 55-% .7 ; .55.' >.' ' / 55 ,<6' 8**)' 5c-8'
>.6' 1. ; .77. ' .7 > .6' >>?.<' .6' .@ 1' ,1> <' 01.' % c5' .' 7 ; .17' <
=4.' ; . '7)' '.45' / ,V.< > '- , 1' 5.6' 1. ; .77. ' .7 5. ' > ?.E76. '
1>.57.6% %
'1' .EE.7>.' ;W.1.71' <. : . [.<E)Y5' '7. . .77.' ,1> <' 1.8' =4'
>7' 7 > .9(9' / 55 ,<')8 ' 1%8' <,' ' .1' ' ? <' 'J , ,' >.' 99'
/ 1'6' 9 8 (C' 5-%I' 8' %
7 '> ,?.K6. ,7> K' [8=45U7'S7>.)) / c5 'K' 9%( ) %8'
'.71,4-.' 1>>4 7' ' ') *74 5 ,<' '* 8' U)' <-8' 8
34' <7 '4@ 1. ; .77. ' .7 >>?.<' .6' .@71' .1> , '71. ' '\ .< .4'
1. 1'<.5 '<7 >J' .7<.<7 ' ' , / /.' >>7' 5>.' . %>.664' '>.' 9'
/ ,<6' 8**)' B-i' 7.' ?. ; .77.' '@71' .1> < ' 1.8' '45' >7' 7>.'
9)' / 55 ,<6' (*% 9 '5 -%5' .' ' .1' ' ? <6' =4 ,' >.')' / 55 ,<'
C 8 9C' 5 18'
7 5' ' >.?'<6.' .@71' ,1> < ' 1.8' =4' >7' 7 >.' U ' / 55 ,<6'
)U 8 9U 5 -' 8' <.' > , 7?54' ' > 1.' =4.' >.' (C' / 557, , '9 (P)9 %
#. 7.' .@?5 ;' ' ' > ' 7 '06 ,54 / .<7 <> [.'6' 1.' ? ,41' > ' '
05 1' 5.6' E' %N 5.' '-. 5 0 .< ?.6>68' .4@ <,4 .'4@ 7'05.'4@
>.6' 1. ; .>.6' .7>.6' > ?.<6.6 @71' ,1> <' 1.68' <4 / >1,5>6' *
.7 9 8' ,5' ,57.' 1>>4 ;7 .4' 'W 7 ' .@?1 / >.8' 1. >1 ,<7 ,?>'
1' 7 ,< ?546' 6.<6 05.' 1' <,46' 5. . '? '? ,<6' ' (E' 64 7.' > .6' ?1> ;>%
>.<768' 56' ,HE1.<78' '17 ;5.' ?' 1' '17 ;5.8' 5.6' #>4.7 ,<6' 1< ,7 %
G>.6' .5 >.66468' 7 4' '471.' 7'05.'48' <G (8' ?1>6.< .' 5.6' >. ,@
6. '56' '17 ;5.6' >.' 5' ' 1. . .77. .7 >.' 5' ' >>?.<6.' ,1> < ' 1.' '4@'
=4.56' ; .77.' ,?>1' 7 ,< '?? ,17.' =4.5=4.' ;0' <J. / .<7% ,46'
, / / .6' >, <.' ?'1- ,<4' ' '4' ?, <E>. ,-' 1' , <<' 71. .@' ; '
7. / .' 7' ; .' =4.' <,46' '1.<' ' >>?.<6>%' -'<5' >.' <.46' .< ,;.4'
?.18' 5.' ; '5 ;45' 645- <7 ?.47 >71.' .< ; ,1.' <7 .' ? ,41' >> / <71.1'
5' '6 / 5 74>.' >.6' 1>6457' 76%
' 1. ; .7 .' ,1> < ' 1.' 1>.55.' ' '> >8' ; , / / ' ,< . <7 >.' 5.'
- , 18' ?.<>' <7 5.6' - <J7 / ,56' .< =4.67 ,<8' V . . / ?156' 7.' E.<>6'
>.' . '767.' >.')' / 55 ,<6' *8 (* 5 -% =<5' .@ 67' 7 '4' * ' ' -1 5'
( )*8>. %%%%%%%%%%%%%%%%%%%%%%%%%' 99 8 9 8 (* %
D F 'G' =4' 1>> < 7 5' ' 1. ; .7 .' .5. ;7 -.8' .<
>>E.5=4' <75.E.<> >. ; '566.8' / 555 ,<6'
CU8C*)' 55-%
'>>?.<6. ,1> '51.>'K 5.EE5>EE . .6?'6.'
>.7. / ?66 .67>5. - >. >%8%%%%%%%%%%%%%%%%%%%')) 8C 8(U)

<6 5. ' 1. ; .77. ' ,1>5<' 1. ' ,<7>7>' 7=E>\'
5 .41.6' '407 >#?.<6.6' ,1> < ' 1.6' >. %%%%%%%%%%%%%%' (8999 8 (9 %
66. / 0 .' < '7 ,<' .' <.' ? ,<- '57 6.' > 6?.<6 ,1' >.' ; ,4'
-1 1' ; .' >.E ; 7 > '<6' 5.6' 1. . .77.6' 6=55.' ' E' 78' 55.' ' '>.' ?546'
%' E, 1<5' '4@ >>?.<6.6' .@71' ,1> < ' 1.6' J=' .<7 .4' 5 .< > '<6' 5.'
/ > / .' 7. / ?68' .7 =4 8' ? ,41' 5' ' ?54?' 178' ; ,<6 67.<7 .= 1.<G
% ,416. / .< 6> . . '?57' 4@>.' 5' '>.5 .' E. 76' > 1. .5. / .<7 '4' &1E '
6,1%?405 ,% ,6' >>?.<6.6' .@71' ,1> < ' 1.6' / ,<7.<78' ;? / <.'
,< - .<7>.' 5.' - , 18' ' *(C' / 55 .=6' 9((8 99' 5 -%
8' <6 8' > '?1#6' 5.6' >.4@' . , / ?7.68' 5.' 7 ,7' 5' >.6' ,00.76' '4@'
=<.56' 66. / 05>.' <'75 ,?' 5.' ' E7>' ,055J>.' >.' ?' 41- ,51' ?' 1'
8' >.6' / ,V.<6' '471.6' =4.'] .6' 1.- .<=6' / ,<7.' %' 9U)8 U 8UUC %
% .6' 1. ; .77#6' .@71' ,1> < ' 1.6' .EE. ;7 - .6' ,<7
/ ,<7>8' ' 46' J4 ,< ' -4% . >.66468' %' %%%'))98 8C9C

5<65' ' ' > ,' 6.' 71 ,<- .18' '4' 5W' '<- .1'
(* 8' << E, ,>6' >.' ; '566.' ,4' .' '.>>647 >.1.
. . 7 7 . > . % %%%%%%%%%%%%%%%%%%%%%%%%%%%%' 8 8 □ %
#, 7 .@.>>' <7>.' 1. ; . >.' . .' .EE. ;75- . / . , ' 5.' ?1. / .1' '1M
7 ;5.' >55' , / ? .' >.' 5' ' ?1>6. < .' '<,>.' .@' ;7 ,>.' #.5'
;476' ?1>.>>.<76' 6.' 71 ,41.' > ,<.' >> / <<71>.' >.' < ,4- .'4' ?' 1'
5' ' , ,<E ,1 / 5> >.6' 6 , / / .6' ,< / ? ,6' <E' 5.' E.<>6' >.' . .066.8' >.'
)9' / 55 ,<6' 9(*8*C' 5 -%
,1< - .<,< ' - , 1' ==.' 5' ' >>?.<' .%7 ,7'5 ,1>>5.' ? , 17g

>'<6' 5. ' '>.<@' , , <?7. ' =7 ' <,< ' 6 / 7 , , <'8' ?.<>'<7 5.6'
- <J7 / , 6' =4' ' ' , <7>. , >>' ' > ' E1' ' 5 ' 7 5. ' .YY'
-5.1' BHTB/ / ,<7' 78' 6' - , 1N
< >>?.<6.' , > < ' 1.8' 98W 8 J % * 8 C) 7 %'
$ < >>?.<6. .671' ,1> 6' 5 / 8' * 8 % (C 8 9 ((8 9 9

,7' 5%%%%%%%%%%%% %%%' 8*'
'5.' '< W '<- .1' (* 8' >?,=<.' , ' 6.' 7.<<7< .<7 5. '
; , / ?7.6 ; >.66468' 5.6' >>?.<6.6' ?405 =4.6' <>7' .<7 ?'6' '<
: ,41' <7 '<; , <<.' / > ,>.' >.' <.' E' 1.' ; ? .' >.6' ?' - . / .<76'
?' 17 .568' >.' <.' >.<< .1' =4 ,' > .6' '? .1.46' <, / ?7.768' >'
?1.6.1 1.' >.6' >>5' 6' '4@^ / 15 .6' ?1.<' <7.68' 'E' < >.' 1. ,45.1'
5.6' . / 0' 11' 6' >4' / , / .<78' ; .77.' / > : .>.' 7 7E .46.' '406 6' 7
.<; ,1.8' .78' .< ; ,<6>=4.<. . ' ' 1.67' 7 ' ' .=4 77.1' 75 65. ,1'
,00.76' / ? ,17' <76' >.' 5' ' >>?.<6.' ,1> <>1.% < '<71'
'17' ;5.' ; ,<6 >>1' 05.' 6.' 7<,4- ' 7 '11 >1>% . .457.' >.' (*'
'<6 =4.5.71' . / .<7>.6. ; ;5>6' '675=4.' '4??1 :<>6' '-' .<7
> ' >71.' ?' I>' 6415.' 1, - .<4>.6>. / ' <.6' <'5 ,<' <@>.' (* 8'
/ ' 6' 5.6' 1.<71>.6' >.' . .6' 1.- .<<6' >7' .<7 7' 1> - .66' 5.6' E.1'
/ 'J.6' >.' 5' ' > / 8' =4' / 'E' 6' .<7 ?' 175.8' <.' 6.' ?' .<7 ?' '
'< / , / .E 5 > , 5' ' 1> , .1 ' >7' 57 > , <.' <> . .'6K 1.' >V '4?'
75> .1' ? ' 1' > ,6 6. ; ,41' ' ?'1 .45 .1' % <E < 5' .@ 67' 7 4< '471.'
'11 >1>' .< >0J<.' >.' E @.1' 1' 77.<75.<>.' 66. / 0 >.' <'55,'
<' 5.8' ; ,545' >.6' 1.<7.6' .5' <7>1>7' ' ?' V>6?' 1' 5' 7 ' E5' ,<>7' 7
>.' 4<6. / .671.' ,471.' 5.' ; 1 <7 # ,67 ' ; .77.' >? ,=4.' =< ' 'W'
641>.' >.' ; , 'E' 568' .7 - ,45' ' <7 > '05 1' 4< ,1>1.' >41' 05.8' 6'
6. / 05>.' +' ,1> ,<<>' 5' ' 6>?'1' 5 ,< .<7 >1.' >.' ; . ' ,00.7'
.< 1 ,7' 1>' > ' - .' 5.' ; , <?7>' ; ,41' <7 >.' '<<>.7 .55.' '
- ,<5< =4 '4' ; / / .<; . / .<7>. .0' ;4< >.6' / , 6' >.' ('
>5' 7 >.' ; .' =4 '41' 7>7>' ?'V>' 7.' / , 6' ?1>. .>.<7 641' . .7
<077- .5' '11' >1> 54' E07 ?1>6.<7>%— '5J1>5. ' ?' - . / .<76' >>
E' 5687 ,47 < .67 ?' 6' . ' , 1.' 6 ,5>>' / ' 675 . .< 1.67 , '?546' =4.'
? ,41>.' / >> , .1 6 6 , / / .6' #.' =4 ,' ' '?' V>641 ; .55.
7 . ' '??' 17 .<7>- >. / / .<' '<<>.' (*e' .7 ' / ,<7>8' ?.<'
>' <75.?1. / .1' 6. / .671.>.' ; .7 >' '<<>.8' % *)8UCC8U * %
,41' ' - , 1' ,14< - .16' 5 E>' >.6' >>?.<6.6'
'<7>1 .41.6' (* 8' ' 7 ,47 > ,<.' '0 ,47.1' %' '
; .77.' 6. / <.' '5' ' ?1>.>>.<7.' >. %%%%%%%%%%%' 8C 8*) U

75 ,< ' '1' 4< 7 ,7' 5' > . %8%%888 3 8 58C 5\'
#.' 71' 7. / .<7 . , / ?1.?>' 4< .' 6 , / / .' . ,<6 >>1' 05.' .< .' '
? 7' 4@>.' 5' ' >.77. .@ J 05.' 1. / 0 ,416>6' > 1> ,7. / .<7 '4 71>6?1'
?405 ;% ,418' 6 '6641.1' >4' / ,<7' 47 >.6' > .? .' 6.68' 5 .'7<>'
; .66' 1' ' >.' ; , <<7E 71.' 5' ' 6 , / / .' >.6' 1. / 0 ,416. / . 56% >7' 7
6 .< 71 ,41.' >' <6 5.6' , / ?7.6' =4.' ' < ' - , ' ,' 1' ??. >' 7 ' <.'
6 ' 7' ?546' =4.' >.' 5.' 71' <6 ;1 1 ,%

'! 9!' ' '!' ' I'
6 ' 'F' ' E% (
.10 ,E7. .1< ' ' ' h

.6 ;1 ?7 ,<6' >.6' 6. .7E.6' J><>1' 5. ' 1.1.<< .6' 641' <E1E. ,?
?405 ;7 , / .' >.' ?' V. / .<76>' <65.6' ?1 , - < ; .68' C)8))*8 9 ' 8'
. / 0 ,416. / .<7 1.7 ,>E / ,7 ?.J<.0<7 ,' =<'
,<7 >7>' 64?? 1 / >' '%%78' c UU *39
. / 0 ,416. / .<7 >.' 1' <. . < ?' ?5. B 'G
<' .' >.6 5 .6' >.' 1' <; .' .5' >.' K3410.<%' $8W'
. / 0 ,416. / .<7 >.' ?>5B.6 1.<7.6' >.') 8' ' '
.7' '4 >.6' ,46% ' cC9*'
. / 0 ,416. / .<7 1 E) ; .' ' >.' 1.>.V.<1'
J><>1' <@ .7 ?' 15 ; <55 .168' ?' 1' ; =1 ,00.< / 75 77
>.' ?' 1. 5 .' 6 , / / .' 6415.41' ' > .0.7' % /7 33
. / 0 ,416. / .<7 >.' >.4@ ,EE ; .6' > ' 1; : .1E'
>.' 5' ' ; , / ?' J< .' >4' <1>->7 J><>1' 5 >.6' ,<%
<' .68' 64?? 5 / >6' .7 5 =< >>G% 8' I C
. / 0 ,416. / .<7 >4< ,EE ; .' >.' # E.55 '
> . 1 0 >' 7 . 5 ; , / 1 , 4 K >.' , < ; . 6 8 8 8 8 UU*8'
. / 0 ,416. / .<7 > << .005 ,5' >7 >.' >.4*'
?1 / .6' >.' 5' ' 5 ,7.1 .' 7EE5#7.0 / ' ( ))8' ?<17>6' '
#' 19#9 . H [
. / 0 ,416. / .<7 >.' 6 <J 0 55.76' >W 5' ' 5 ,5.'
1 .' >?K7 ,01.' □8' 1. .<6' 4+ .' > .=' ' ?.51 ,7 ' ' %
=4.6' .7 ? ,<>6' .< 1. ; > . %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
. / 0 ,416. / .<7 >4< .EE.7677 ?.<><81. ;77
>' <6' 5' ' . ' / 17047 ,=' ?' 71 ?7 =4.8' .7 ? ,17>' .<
E. ; . 7.% %% 8' E
. / 0 ,416. / .<7 >4< .' 6 , / / .' 1.7 1.' >.
>' .6' < ,' ?' V. / .<7 ? .1' <7 E' 7 ? ,41' 8
7>1>7' ' >4' ?1 @>.' 0>7.5' - .<>4 ' F G>.
+
K ,410 ,<%% 8EK*
. / 0' ,416. / .<77 , 7 '4@' ? ,7 1. >.' '16' 8

/ ? , 17. %%%%%%%%%%%%%%%%%' $) 9 8 <

)

%E7;?,17G $ $$$$$$$ ' 7)9\ )

>.W : , , 1'51.6 > ' ;7.6 =4 ' 5.41 >7' .<7 >'6
>'<; .<6 . / ?1' '76%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 9C)% U
./0,416. / ; 7 > ' 0 55.76 =4 ; ' 5.' 65. [
K.'4J.'1>8 1. ; - .41 J><>1' ' >.6 ' . > .-'<7
>7'76 > .'K1.7'J<.8 '-' 7 E,41< 6 ?,41 5.6 / M
?,6 7 ,<6 > . ; .77. ?1,- <; ' . 7 =< 5 < ' ?4 %%%%%%%%
' ;=4 77.1%%%% %%%%%%%%%%%%%%%%%%%%%%%% 8 * X8%%
./0,416. / .<7 >4< 0 55 ' >4 6 .41
K,,5,<J<.8 '<; .< 71>6,1 .1 > .'5 ' J4.11.8
- .<4 641 5.'71>6,1 ?40 ;8 E'47. > . ?'V.
/ .'78 ?,17> .< 1. ; .77. %%%%%%%%%%%%%%%%%%%%%%%%%% $ 7 K
$ ./0,416. / .<7 E' 7 ' 5 ' 7555.' > .' '1 68
; ,<E,1 / > / .<7 '<>>;1>G> .' 66. /05.1 <' '
7 ,<'5.8 ?,41 '-'<; .6 =4 ' ; .77. ' - 5 7 '>'a.6
?,41 >.6 ,00.76 > . /0.55 66. / .<78 '47,1 6>6
?'1 >> 7> .6.?7. /01. ( )K%%%%%%%%%%%%%%%%%%%%%%%% 8)55
./0,416. / .<76 > - . 1 6 % 9 8*CC
./0,416. / .<7 >4 ' . / ?14<7 >7 .< B,5
5'<>.'?,41 5.6 / > 1 ; ' < 6 %%%%%%%%)8C (
./0,416. / .<7 >4< . / ?14<7> .' ! ><.6% U89 8CU*
/ ?14<7>.5'H5'<>1. / '1 7 / . %%%%%%%% ' U(U8
./0,416. / .<7> '<;5.<<,6'<7 ; ?'7 ,<6 CC58U 8 ('
./0,<16. / .<7 > . ' >>?>76 76 '4 71>6,1
?405 ;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%]8
./0,416. / .<7 ?,41 ?'17 .'>4 ? 7 7
' ?'1 96 E.1 / 5.16 J> / 1'7 @ 641 5.41 0>< ; %
>'<6 5.'>.1< .1'0 4 7%%%%%%%%%%%%%%%%%%%%%%%%%%%% C8U9 8
.1< >1.' ?'17 ' >4 1. /0,416. / .<7 E. 7
'4@E.<< .16 J><>1'4@ 641 5.6 E, >6> .'?5'; '
><<E.1 / .1J><>1'5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% C 8
./0,416. / .<7 ' B% 5.' ?1 <; .' #,<>8
?,41 5.6 >1, 76 47 5.6 >4 #5.1 / .< , 6%%%%%%%%%% 9 8
./0,416. / .<7 > .6 '-'<; .6 E' 7.6 ?'1 .6
1. ; .- .416 J><>1'4@8 .< ( ) %%%%%%%% P 8 ' %
./0,416. / .<7 > << ?1>7 E' 7 '<'71>6,1
?405 ;'-'<7 5.' G / ' ( )*8 ?'1 5 ; 66.
> .6; , / ?7.%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 89 8
./0,<16. / .<7 '4 6 .41 > .'B,1V 641 6.'
'<; .<<.6 '-'<; .6%%%%%%%%%%%%%%% (
./0,416. / .<7 641 5 ' 5,7.1 . > .6 0 ? ,
7'4@8 > , ;7,01. ( )(%%%%%%%%%%%%%%%%%%%%%%%% 9R *8 C9
./0,416. / .<7 ' > .6 ; , / / 56' '1.6 > .6
J<.111.68 64??1 / >6 '< / , 6 > '-1 5 ( ))%% C* 8
./0,416. / .<7 > ,EE ; .6 > . V. ; .- .416%
?'17 ;45 .16 > .6 <'<; .6 =4 ' 6 ,<7 .< E' c 7.% 98C (
./0,416. / .<7 > .6 . / ?14<76 > .6 ?'V6
>>7'76%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %98UC UU(
H1' 6 1.5'7 E, 5'66. /05>.'>.6 <,7'05.6>.
( )) %%%%%%%%%%%%%%%%%%%%%%%%%%%% * (

,7'5 > .6 1. /0,416. / .<76 ; , / ?1 6 >'<6
5.6 ; , / ?7.6 > .'B% ; .1 .7> .'B% 4E1.6<.8
> . ( )*.7 (* %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
.67 <> 6?.<6'05.' > '0,<7.1 ' ; .6 1. / '
0,416. / .<76 5 ' 6, / / .' ./?5,V> ; >'<6 5.6
; , / ?7.6 > . % 4E1.6<.% > . (* & P8 '<6. '
'/.671.' '11 >1> > .6 1.<7.6 .7 <7> >76 > .' 5 '
> .77.'?405 =4.%#.67 0 .< 1> .55. / .<7 ,<1# / '
0,416. / .<7 > . '115>1> =4. ' < > .- ' 7
; / / .'7 ,<6 5.6 '471.6% B% 4E1.6<.8 >'<6G
6,<'?.1=4 < . '-' 7>- 54>=4 ' * ' / 55 ,<6
8 5 -% 5 ' / ,<7>8 64 -'<75.; ; / ?' ; .E1
E. ;7 E =4 5 ' 1.<>48 %%%%%%%%%%%%%%%%%%%%%%%%%%%% U8U(8C U

,7'5 > .6 1. /0,416. / .<76 0 76 > 1. ;7. '
/ .<7 '<71>6,1 ?405 ;8 .< ( )*8 (* .7 (* % U 8((8)9U %
W#.77.' 6, / / .8 >'<6 7,46 5.6 '68 > .- ' 7
> 1.%?'V>.'?'1 5 ' ; ' 66.'>.' .@7 / ,1> <'1.8
6?> ; '5. / .<7 ; ' > . > ; =4 77.1 5 ' > .77.'.@ M
J 05.8 > ,<77,46 5.6 ,00.76 ; > .6646 E' 6' .<7 %
.66.<7 .55. / .<7 ?'17 ,% E'47 > ,<.'5 ' 1. '
71'<; . .1 > .'5 ' 6, / / .'>.%%%%%%%%%%%%%%%%%%%%%%%%%% 8U 8 8C

<'1.67.1 ' 5.'7,7'5 > .6 >>?.<6.6 >4 F / ' '
( )*'4 G '<- .1 (* 8 =4 ' / ,<7.' %%%%%%%% *))89C 8 9* %
& P '<?1>7.<>1' 7 ?.47 >71.'=4.'<,46 '-,<6 7,17 > . / .0%
71.' '4 1'<J > .6 1. /0,416. / .<76 ; . '1.67.' > .6 1.<7.6 '11 .%
1>.6% #.?.<>'<78 6 5.' 6V67 / .' J><>1'5 >4 1. /0,416. / .<7
> .' '11 .1> . 7 >7> '??5 =4> '4@ 1.<7.6 '<6 =4 '4@'<71.6
> .77.68 5. C '<- .1 (* 8 5 < V'41' 7 ?'6 > . > ,47.8 6
6. /05. .8 ?'1 1.6?. ; 7 ?,<1 ; .77. ' > .77.8 5 ' ? <6 6'.1> .'> .'
7.47.68 < '?' ' -,454 .< 646?.<>1.' 5.' ?'V. / .<7I .55.' '?1 6

'<6 ; .77.'6, / / .'> .'*))' / 5555,5 6 9C 8 9* B1% 6.'71,4
\ .<7 ; , / ?1 6.6 5.6 >>?.<6.6 > .'7,47 J.<1.% ,41 <. ?'
<,46 > ; '17.1 > . <,71.' / >7; .> .8 5 1,47 .< .@717>1.' 5.
>>?.<6.6 .@71',1> <'1.6% 5 .6 '71,4- .<7 >'<6 5.'7'05.'4
<G 9% 5 .6 V 6,<7?5'.>.6'-'67 5.6 1. /0,<16. / .<56%
,41 e ; , / / 7 7> >4 5. ;7.418 <,46 '55,<6 1.?1>6.<7.
> >7'7 ; .6 >>?.<6.6 .@71', > <'1.6 8 7 , 7 6.<58 'E5
=4 .< 1.@'7< <' 7 .< ?'17 ;< 5.1 ,< 6 '667 E.'0 .< =4 '<;4I
'>.6 ,00.76 =4 5%1.<E.1 / .'<.'E' 6' 7 ?'17 .'> .6>>?.<6.6 ,1
<' 1.6%

7V ' F ! (' .Y ( )* .E (* 8 , ('
, ' FA ; 2 ' ' F ' !!

' 1'-<,@ > . .< 6. <7.>4B'-1.7>.5'1'>.'>.#0.10,41J
>.6 E,17 E ; '7 ,<6 / 5 7' 1.6 > .' !0.10,4 JI > , ? , / ' >
,4 6 ' I > .'5 ' > .' '1 6%%%%%%%% % U8U 8) C
% 1'-'4@ >4 ; '<'5 > .' #0'1, 5' 68%%%%%%%%%%%%%%%%%%%%%%%%%% UC 8
1' 7.6 .7 '471.6 >>?.<6.6 1.5'7 - .6 4@
J1' <6 .7 ' @ E'1 <.6%%%%%%%%%%%%%%%%%%%%%%%%%%%%% U 8)(8 U9
; '7>.' / '7 >1.6 > ,1 .7> ' J.07 .@71' M
7.6>.' >71'<J.1%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% U8) 8U)
; '7 >4 <4 / .1' 1.'?,41 5.' 6.1- ; .' >4
71>6,1 ?4 0 5 ; %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% 8 *

- (' ' * ; '
F ! (' V ('

T 4@ E,1J,6 1,V'5.68 '5 ' - . > . '1 68 '4@ '
E.1 / .16 > . ; .'4@ .7 , 6 V8 '4 >>?'17.
/ .<7 > .'5 ' ! 1,<>.8 .7 '4 6 .41 ! ,0'1>8 ?,41
?'V.1 5.6 1.<7.6 > .' 6. ;1.7' 1.6 >4 1, %%%%%%%% 9)8 UU
>?.<6.6 1.5'7 - .6 'E,<< 5 ,<>.6 '66 M
J< '76%%%N%%%%%% %%%%%%%%%%%%%%%%%%%%%%%% ( )8
1 / .6 ?,41 / ?,17'>,<>.6 J1' <6% %% 89(8* (

,7'5%%% (8UU U 9
5 ,<- .<7 > V '0,47.1N G ,<'17 ;5.' =4 8
>'<65.6 ; , / ?7.6 ?1>.>>.<7.8 .67?5'; > ?'1 / '
5.6 >>?.<6.6 ,1> <'1.68 / '76 =4 8 '-'<7 .
G '<- .1 (* 8 < .<E >67<7?, <7?'1>.8 6<
- , 1N 5.6 . ,<,1' 1.6 > . ' >>?47>6 .7 5.6 E1' 6
> . 1 66. /05.'<'7 ,<'5.I 6 .<7 / ,<7>8 .<%
( )*.7 (* & P8 %%%%%%%%%%%%%%%%%%%%%%%% % 189 (U&<%5%
&! .7 '17 ;5.'6.'77,4- .' >'<6 5.'7'05.'4 <4 ' '
/ >1,7> 8 '17% U %
CG %.6'-'<; .6 / 7.6 .< (* 8 ?,41 5.' ;457.
.75. 71' 7. / .<7>,6, ; ;5>6 '67 =4.6 > . (* I%
.75.6 ,<7 / ,<7>8 ?,41 7.6 ; <= ?1. / .16
/ , 68 64 -'<75.'.'5;451' 6,<77> >4 > .4@ > / .
1'??,17>.6 ; , / / 66' 1.6 > ; ' / 7> ; .<71'5
> .'5 =4 >'7 ,< .7> .'5 ' ; ' 66.'> .' .@71',1> '
<' 1.8 ?'J.6 9 .7 (8 % % %%%%%%%%)8 ( )8CU
' <<'1 .< .4 ?'V.1641; .7,0 .7.< '5<% % %

' ,7'5 > .6 >>?.74.6.@77',1> <'1.6 > .5( )*
.7 (* %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% % 8C(% U
<1.71'<; ; '<7 ; .77.'6, / / .'>'7,7'5 > .6 '
> <6.6 1'??,17>.6 ; > .-'<78 / , 7'47 %% *))89C 8 9*

' <'41' 5 ' >>?.<6> ,1> < 1. ' > .6 - <J7 8
/ , 68 =4 < .' / ,<7.1'.EE. ;7 - . / .<7=4 %%%%)) 8 U 8CC9 %
#. 7 .@' ;7.'6, / / .'> .6 >>?.<6.6 ,1> <'1.6 > , h / '
( )*'4 F '<- .1 (* 8 .78 4 1'1> ; '? 745.1 5.6 >>?.<6.6
> .E,<7 J.<1. E' 7>6 ?.<>'<7 ; .7 <7.1-' 5.8 <,46 1'??.55. %
1,<6 ; '5.6 7.,76 '17 ;5.6 ?1> .>>.<76 N
1 '7%.6 6, / / .6 . / ?5,V>.6 .< 1. /0,416. / .<761 .55.6 6.
/ ,<7.<7 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% U 8((8)9U
C % .6 6, / / .6 . / ?5,V>.6 .< >>?.<6.6
. , 7 / '<>>.68 ,4 ?'1 5 ' > 6.77.'> .6 ' <68
; ' ?'1 5 '64 7.'> .671'-'4@ ; , / / .<7 '6,46
'<; .< 1>J / .8 ,77 ?'1 5 ' 1'1.7> >4 <4 / > '
1'51.8 ,4 ?'1 5.6 E1' 6 > .' 66. /05> .' <' '
7 ,<'5.8 ,4 .<E <?,41%'-'<; .1 5.'?'V. / .<7

' / ?,17.1%% % U 8((8)9U

5.'?'17 > .'[> .1 ; .7 '11 >1> .< / > / .'7. / ?6=4.'7.' ; ,41'<7%
#.67 > ,< > - > . / / .<7 5 ' / > / . . ; .6.'=< .55.' ' E' 7 >'<6
4<. '471.'E,1 / .I . .67> - > . / / .<75.'?'V. / .<7 > 4<.' > .77.'
'11 >1>.%

& P '?'17 1 >= '<- .1 > .1< .18 ; .77.'>>?.<6. .67 '<
1'<J > .6>>?.<6.' ,1> <'1.6I - . '?,41=4, .55.'< .67.KB
5,V>. ; '=4.'?.'1 ( )* .7 (* 8 % % %

[illegible]

=$ 'E,<>">,' 66.'4<'.76 >7/ F'/'' ()*6
3 9)8 *% (* 8
G .' 61...77.',1>< ' 1.'E >7.><'5G1 / '5
()*' '4' T'0'4- .1' (* 8%%%%%%%%%%%%%
G .'5'1.'.77.,1>< ' 1.E' 7.>4'5G '7:'
.1' '4' F04 55.7 (* 88% % /:+601::7
UG '. '/?14<7<'7E,<'58 >.' ;.<7 >..
8?'V6 >>?'7.8 >. ;.54' >.' !><.68 >.6 >,<6
?'71 ,7 =4.68 ><'?1,>. '>.6 ;,4?<''1.'
. 6 '-.'5.6 '66 J<'7S8 .7>.> -.1'.6 1.,
71>.6 .@71',1> < ' 1.6%%%%%%%%%%%% 9 8* 8 9
' G .'5''#' 66.'>.6, ,/?7.8 .4 0 55.76 .7
?1, / .66.6 >'66 J<'784'5'' ?%>.' ()*' .7 8
>'<6 5.; ,416 >.' (8888888888888888% U 8 % 8
9T '66 J<'76 E,41<7.' .< ,;7,01.8 <, 8
-. / 01.' .7&E>;. / 01.' (* % U8 * Y
(d '66 J<'76 E, '1< 6.?' (*'?,7 #'.\'
=4 77.1 .'1.67,>.6 >>?.<1.6>.' (* 8 >6
E1' 6 >4' ;457.8 .7; %%%%%%%%%%%%%%%%%%%%%%%%))8UCC8U
)G '665J<'7.'E,41<7.'.< (*'?,4164? '
?>.E '4'>> ;7>.61 . . . 7 7 . 6 % % U G 9 8 U
W '66 J<'7.'E,<1< 6><' ('?,41%',8
=4 77.1'5.6 >>?.<6.6?'17 ;45 >1.6 '1'<<>.
(* %%%%I', %%%%%%%%%% %%%%%%%%%%%%%%%% (8 8) & P8
G' ' .<04 08?,41'5''6?>.' ' '<J '
/ .'7'75,4>.' '1 / >.8 AAAAAAA8AA8A

,7'5%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%% 8(98C 8C * %
.6 >>?.< '; .6646 6,<7> . 8 8(*8 U %

'17'<781.'7.' .K .'7.6.8 ;, / / '' .0>.G
-'<7%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%% %%%%%%%%%%%' 9899*8*C &CP

[illegible]

.?.17.18 U U 839

=4''<7 ';.'1>>'5.6 74??5>'<'768 .<Y ' . .67 ?'7'?'1'
7. 1.' G /, <>16 .0'<J. /..7%
46'J '>.6 1. ,.57.@ .7 >.'>>?.< .6 E5.7 -.6 .67 ?1.7.1 7
>.?4 .7'05 66. / .<7 >'' G71>7,1.1 .% 8 0J8

[illegible]

7B7

.?,17 U U) U *8)

;, / /. 5 <. 6G'J77 ; =4. >. 6,< ?1,?1.
., /?7>8 c4 .55. V .1'?5, 7,47 ; =4 17
-.16. '4 71 6,1 ?405 , <>5655,; . <.<58
E'478 ?,41 5.1,??1,, :. / .<5>. >.4@;,7'?G
7. '8 1.?,17.1 5,7 ;.77. , / / .8; 8 ?,41 Y @
<,7%%%%%%%%%%%%%%%%%%%%) 8 8
8 ,46 <,46 .4 75.<>1 ,<6 <,46 <, E'7 G
' ?' 5 , /?'1' 6,< >4< 47 >. '
'4 F ' '-.;% 4< ;, /?7. =45 E5< '4 5p1
Q4 55.7I 7 E'47 >,4; Q, < 71. ; ?'-. / .<7 W
>. 1.-.<4 >. >, / <. <'7 ,<'468 E' 5 .<
4 .7%%%%%%%% %%%%%%%%%%%%%%%%%%%% 98 8
5 E'47 'Q,47.1 >. / / . 4< ' .;,<> ?'V.G
/ .47 >. 5 , / / . > ;1 7 ?'1 / , ?,41 5
[>. >. E'4J / .<7'7 ,< >. 1'1 / .% 9*98*EU

,7'5 >. -.1'. / .<7 =4. 5 ;'5''. >. .@G
71',1> <' 1. >, 7 '-, 1 E' 7 64 -'<75.';, /?G
7 ; G>.6'4'8 .< V 'Q,47'<7 5. ?'V. / .<7
E' 7 ?'1 .55. .< Q4 55.7%%%%%%%% %%%%%%%%%%%%%%%% 9* 8 98*(
, > . ., / ? . =4. 5 ;' '6. >. .@71',1>7<'51. 1.<>
.55. / / .8 '4 4 55.7%

% 0

B4 '<7 . ;, /?7. '4 >.1< .1 Q45<%%% U)8) 8 9U % '%
.<>'<7 Q4 55.7%%%%%%%% %%%%%%%%%%%% %% 9*8)U8 9 (
C 8 8)(% g%

.45. > Ea1.<;. .471. 5. >.4@;, /?G
7. '%%6%8%%%%%%%%%%%%%%%%%%%%%%%%%%% (% '%
. '7 > E 5;55. > .71.'?546 > ';;,175&5P% 8
. ;, /?7. ?1.;.>.<768 ;,<71 .6 ?'1 7,<6 ..75 =45 ,<7
=4.5=4. 1.5'7 ,< '-. ; .4@8 >,<<. 47 5. / . / . 1.'457'7'I 5
.'7 >,<. ,?,'' 05. >. >,47.1 >. 5.41 .@';7 74>. j
,41 <,46 1.'4 <.1 '41 7,4 5. ;'5;45 ?1.;,.>.<768 .5
?,,1 '11 -.1' 4< 1>'457'7 J.<.1'58 ,< '4??,6'<7 ,;.'<J.
>. 0 55.76 >. 5 #' '6. > .6;, /? . .7 >. ?1, / .'6. > '6
J<'77.1 / <>8 >7. E,<1< '4 71.6,1 ?405 ;8 ?'1 5 ;' '6.
>. .@71',1> <'51.8 >.?4 6 . ;' / / . ';.4.<7 >. 5 1.-,54M
7 ,< 4'=< '4 F Q4 55.7 (* 8 7'< ?,41 ?'-.1 5. U / 5M
5 ,<6 '-'<;,6 ?'1 5 #' 5. > .6;,< ?7.8 =<. ?,41 5. 6,?
? . / . '76>. 1.;.77.68 1. / 0,41'. / .<7'8 >.?.<6. .@71',1>
<' 1.6 >. '<<..6 ()* .7 (* .7 >.?.<6. ?'17 ;<55.1.
(* &CP%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%)) 8U *8 9 %

, (! 0C; :67 9+; #
G

5' >55 >1.7 .. >.7 >.<@ ;, /?7. ?1,-5.<7 >,< .11.<1
=4 '6 .4 7 J5 66..8 ' <6 =4 ,< -' . -, 18 >'<6 . ;, /?7. >.
5 ;' '6. >. .671',1> <' 1.%
4 ;, /?7. >. '<- .1 (* 8 ?'J. 9 8 .7 . >.>4 7 >. 5
5, / /. >. 6. -.16. / .<0 '4 71.6,18?<05 ,8 >.4 '17 ;5.6
p ,415. ;,4?,<6 '<<.@.6 '4@ -,17. <.<7 >.) ;5,01.
.7 9 <,-. / 01.% 8 9)8)* 5 -%
p <'??, <7 .<'1J.<71.'7.., ' ' J''7'%

,7'5% % _ 8 9 8 -%

#.77. >.>4;7 ,< >. ;,4?,<6 <. >.-'57 ?'6 7, E' 1.8 ?'1..
=<.8 5 ;' '6. >. .@71',1> '51. 7. 'V'<7 . /?5,V ;, / /.
-'5.<1 >'<6 6. ?'V. / .< 6 '4 71.6,1 ?405 ,8 >.?4 6 5, 64?M
?1.66 ,< >. <7>1.7 >.6 '66 J<'768 .55. .< >.-' 7 ;, /?7.'7
'466 .55. 1.?'1> #.77. .11.41 >'<6 6,< ;, /?7. >4 / , 6 >.
/ ' 8 ?'J. % 55. V 1>7'0 78 >'<67 6, / / .>.6 -.16. / .<7
E' 7 '< 71 6,1 ?405 ;8 5. / 55 ,< 9)8)* 5 -% =< .55. .<
'-' 7 / '5 ?1,?,6 >.>4 76I / '5 .55. < V 1>5 '05 7 ?'6 '??, <7
>. ' 5 -8I '<6 5 >, 7 V '-, 1 ., <67' / / .<7 4<. > 1.1.<;.
>. 7 5 -% .<71. . ; , /?7. >4 71.6,1 ?405 ;.7 ; .54 >. 5
;'66. >. .@71',1> <' 1.% 55. < .67 ; =4. >. (5 -% 5 6%
#.77. >.1< .1. > EE.1.<;. ?1,- .<7 >.6 6,46 , / 6 >'<6 5.
, , /?7. ?1.;.>.<76%
.11.<1. G>.'64 .'71..,<<4. ?'1 5 ;' '6. >. .@71',1
>5<' 1.8 .7'.1 1.E,1 / >. >'<6 6,< ?1, .0'< ;, /?7.8
% 77%
&CP <<. ;, /?1.<> ?'g >'< ; .77. ', / / .7. / 55 ,<G
'-'<.>6 6<1 7, ?1,>< 7>.6 >, / ' <. <'7 ,<'<@8 =47 E,<7 ?'1
7 . >.61.-.<4g ,1>44>1. >. (* 8 .7 44 1.< 1.<7 Q,<1'.5G
5. / .<7% % %

5.?,10 U $ U)) 8U *8 9*
E < V 'Q,47'<75. ?1,>4 7 >. / ? / <E <'M
7 ,<'5 .7 >.6 '471.g 1.;.4; .@1',1><'5G
1.g%%%%%%%% %%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%% 9 8*C 8 9C

,7'5>.61.;.57.6.671',1> <' 1.68Q4'=< '4 %
5W1 Q4 55.7 (* %%%%%%%%%%%%%%%%%%%%%%%% % U98 *8UC(%
,1 ;.77. ' , / / .8 5 [H . /?5,V. .<1. /
0,416. / .< '%%%%%%%%%% %%%%%%%% %%%%%%%%%%%%%%%%%% U 8((8)9U %

.7,7'5>.G;'? 7'4@ ;,< , / />6 .< >>?.4G
7. .67 >. %%%%%%%%%%%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%% KU%9' % 9 5%
< ?'17 >. . .77. ' , / / . .7. . /?5,V..
'41. /?5';. / .<7 / , / . / '<.8 >4 <7,5<'?<41
4<.'J1'<>. ?'17 .8 >.6 /?,6 5 446 '11 .1..68
/ ,< ''7 '%%%%%%%% % %%%%%%%%%%%%%%%%%%%%%%%%% *8 (8 9U 8

% <6 8 7,45.'5. >.?.<6. .@71',1>5<' 1.6
>.G ()*8 (* .7 (* 8 .5 5. 1. /?5';.1'.<
>4<. ?'17 . >. '<; .< >.E ; 78 =4 4,<7<
9 / 55 ,<6 '< / , / .<7 >. ,4-.1541. >.6
>7'5KJ.<.1'4@8 < ,< ;, 7. =4.%%%%%%%% % \ (8 UU ** %
7 '41 ;.77. ', / / . 7 .'7 1.67..< ;' '6.8 ;, / 5; ,<
-4 ?1.;.>. / / .<78 9 / 55 ,<6 99*8*C %
. '7 ?.47 >71. <>..6''71. >. ?1.6.<7.1 .<;,1. 4< >.1M
< .1 1.645 '7% ,46 <'-,46 ?'15.8 >'<6 ;. / . / , 1.8 >. 7
;' '6. >. .@71',1>7 5'71. =4. 6,46 . 1'??,17 =4 .55. .77
'-. 7 71.6,1 ?405 ; ?,41 5. -.16. / .<7 >. E,<>6 =4 .55. V
/ E' 56% ,46 <'-, 6 ?'6 1.<>4 ; , /?5. >. 6. '451.6 ,?.1'M
7 ,<68 .1,V'<7 < 5 >. 1 ?. .1 =4 .55. /?1 / . 7,<6 5.
/ ,56 >' 6 5.%?54g J1'<> >.7' 5% 55. ?405 ;'047 ;, /?7.g
; ,<6.;47 E6 >.?4 6 5. / , 6 >. >.;. / 01. (* 8 .7 5. >.1< .1
1.;'? 745. ;,<67' / / .<7 ;.54 >. 7,4 5. / 4 6 ?1.;.>.<76%
'5'8 ?,41 <.1 .< ' 66.1 .< '11 >1. >4< ,4-1'J. =45 >, 7
?1.6.<7.1 .<6. / 05. >.6 ,?.1'7 ,<6 >4 J,4-.1<. / .4 8 <,46
'55, 71';.1 5. 7'05. '4 >. 7,<6 5. ?'V. / .<7 >. 5 ;' '6.
>. 1.@71',1> <' 1.%
55. .67 ;:'1J.. >. . /?7, 7,7'5>.6 '66 J<'76I 56 ,< ?5 1
Q.416 >.67 <'7 ,<6 > EE.1.<7.6I %
1 >;:'<J. >.6 ?1, / .'6. > '66 J<'7 .7 >.6 0 55.76 >. 5
#' 66. >.6;, /?7. Q,6=4 5 ;,<;411.<;. >.% U 8 >P 1
1 Q4 55.7 5. ..0'<J.g =4. 5 .' 67.
'-' 5E' 7g / ,<7'. .<7 ' % U8 U8 % E J3 7%
#.<@>. Q4 55.7 %%%%% 8* (8 A G I T I

7581.g7. >,<. .>5'<J.1%% U 8)8(

,7'5%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%%%% % U &0 8 %
8 CG 4 T ', 76. -.16. / .<7 E'556 '4 71.',1?407 .< ,<
7' .<78 ;, / / . ,< -4 ; >.66468 '%%8 I%% C P 98*(* %
G . 1. / 0,416. / .<76 >. 7,47 J.<1. =4 .55. ; >.-'<7
,?>1.6 / ,<7' .<7 8 '4 7 4 55.78 U %%%%%%%% U98))89 %
#.4@>. Q4 55.7 %%%%%%%8 9 8U 8 *

,7'5%%%%%%%%%%%%% %%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%d 8%%%)*98(8*C*
UG 1.<0, 16. / .<E%>.g ;,4?,<6 > '66 J<'76 / ,<7'
' F Q4 55.7 ' %%%%%%%%%%% % %%%%%%%% U8*) % 9 %
.54 > .Q'555.7'% %%%%8%7%%%%%%%%%%%%%% C9U%UC*

,5' %%%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%%%%% 8CU(8(*C
9p . '-'<;.6 E' 7. ?'1 .55.8 < -.17< >.6 >>;1.76 >=
1 '6.<705>. <' ,<'598' [-91 6- c.68 / ,<7' .<7 '4 F ', 7
) 9)8 %

9&: 0 %%

1 .0'<J. >. 0557. g >. ;' / .7 ,4 ?1, / .66.g ;1'66 M
J<'76%%%%%%%%%%%%%%%%%%%%%%%%%% %%%%%%%%%% %% 9*8)9 8 %
CG .16. / .<76 E 56'<71.6,1 ?4057.% % C 8 98*(*
. / 0,416. / .<7g >. 7,47 J.<1.% %%% *98(*8*C*
UG . / 0,'16. / .<7g >.6 ;,4?,<g> '66
J<' g%%%) 8 C U (8 (*
9p -'<;.6 + > -.16.g%%%%%%%%%%%%%%%%%%%%%%)8

,7'5>.6 '66 J, 'E6. <?5,V>G%%% %%%%%%% 8C) 8C()8
7% 7, '5 > >.6 '66 J<'76 >..1.7>6 ?'1 66. / 07.. <'7
'5.8 .67 >. ' / 5 7'1>) / 5 ,<6 >. 5 -%
% '6 >.?4 6 =4. 5.6 '66 J<'76 <. ?,17.<7? <6 > <7>1>768
,<!'>. -1> '4 196,1 ?< >.G '66 J<'76 J'1< g>. 5.416
;,4?,<6I V ,<7 .7U 1.E46 ;, / / . .6? 6% ;' '6. >.
.@71',1> <' 1. 'V'<7 <'V> -. ; .77. -'5.418 =45 .@;.>.
;.55. >.7U / 55 ,<6 >.6 ?1. / .16 '66 J<'768 .55. >, 7?.1

[illegible]

[illegible]

[illegible]

[illegible]

õP ,<' .@71' ,1> <' 1.'E7 <,67 .6f)p ..'=475 ,< .,E77.1' 7
?,41 '<.771.' '4 ;, /?5.7 >.' J4.11.' ; <=4'<7.' 1.J / .<768
1'5.' '-' 7 ; /?7 '?,41'5 , 6 ; 6 ,0.76 641'4<.'>.?.<6.'> .<'
671,K) ' / 55 ,<6% ' ; .75.' 6, / / .8 '4 ' ' ,E778 5 V "
U / 5 ,<6 >.' ?'V 6% <6 ' >'<6 ,1>1.' >.6 ; ; .6.6 ?1 '
4.68 ,<<'41' 7 ?546 0.6, <=<.>.' U9 / 55 ,<6f /' 6 5"
< ; .667 '>.6 , 1; ,<67'<; .6 " E,1; '>.' ?,17.1 7,46 5.6 1 J '
/ ,<56 '4 ; /?5.7 >.' J4.11.' .7 >.' 0 ,5>.1 =4'71. - <J7 >@'
6.?7 / 55. B, / / .6 >.' J'1>.<<'7 ,<'5.6% #.6 >.4@ ,00.76
; 7.1,<7?'1 / , 6 .<- 1,<' ' / 55 ,<6 9 8 ' %f E7 =4,S
'0,47'<7 4<E , >6 >.'U / 55 ,<6 '; ,1> .6 .<64??5. / .<7 '4@
71" -'<@ >.6 E,17 E ;'7 ,<6 '5" ' ?.<6.'>4 1. ;147. / .<7 .7
; .55.' >.6 ; ; .1' @ >'17 55.1 .8 5" > '?.<6.' >.' ; .75.' '<< .
6.1" ' ; ;14.'>.<- 1, 1' ' / 55 ,<6% <6 8 '45 .4 >.'U9 / 5G
5 ,<6=4' 1.67' .<'E7 ?'V.1 64E ; .7 ,00.78 5 E'<76 '77.<>1.E7
.<> ?. .1(
% 34'<7 E7 ,05.7 >.6 64??5. / .<76 E7 5" 1. ; .75.' >.' ; ; .=4.'
1' ,568 <,46 .<,<6 >.' > 1.' =4 ,< >.-' 7 ?;<6.1 =4'5 < .<
6.1' 7?546 =4.67 ,<=4.'?.<>'< 5.6 / , 6> ' ,E77 .7 6.?7. / '
B\1.8 .78 ? ,41 <.'?'6<,46 71, /?.18 <,46 '54.1,<6 ?,41
;0' ;4<>.' ; .6 / , 6 '466 ' : '45 =4.'?,41'5.' / , 6>.'04 5.5M
; .'6.1" 4<'17 ; 5.'>.' * / 55 ,<6%
5<>.'<.'1 .< , / .771.8 <,46 6<??,6.1,<6=4.'5.6 1.67.6
>.' (*' '06,10.1,<7 .<; ,1.'C ' / 55 ,<6%

9 0 ' ' ' ! Ue E' !

G H, ,>6 .@71' ,1> <'51.6 . /?5,V.6 .<
4 5.7%% % 8 UU8 &a " 8
Q0 H, ,>6 ' > ?.< .6 ?'17 ;45 1.6 E7 %
(*' 'E7 ?'V.1 > ; 'E7 5" E<>.' '<< .%%%' (98 8
p 4??5 / .<7 '4@ 1.; .77.6 ,1> <' 1.6%%8 *8 8 '
UpE .67.6>.5(* %%%%%%%%%%%%%%%%%%I%%%%%%%%%%%' C 8 8

,7'5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%' **8 8 %
#.77.'6, / / .'0, <7.' '4@% %%%%%%%%%%%%%%%%%')) 8 %
> 0 ' - .16>6?'15" ; ' 66.' >.' 5 .@ 1'.< T
<' 1.' '4 71> [1'?405 ;'E ,1 / .1'4<7,7'5>.' 8)U8 8 %
641'5.=<.5 5" ; ,<71 047 ,< ?'71 ,7 =4.'>.' (* 8 >>0E7 ; , /M
?1 6.' ; ; <65.6 - .16. / .<76>.' ;0'=4.' / , 68 , ?E71.1" 4<.'1.<M
7.>' <>40 7'05.' '4 / , <6>.' ' / 55 ,<6% ,46 .< .6? 1,<6
>'471.6 ;? .'< ,46<.'E'56,<6 ?'6 .< 1.1'.<5 J<.>.' ; / ?7.I'
'<6'5" ; ,<6, / / ' ,< .< '66 J<'76 E' 7.'?'1' .' 71E76,1 ?4M
05 ;'?,411" / ,<7.18 '< F '<- .1' (*C8 E7 U 8 8 %
?,41'5.61. / 0,416. / .<76 E' 76 .< ()* .7
(* 8 .7 E7%%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%% % 9U 8 >P
?,41'5.6 >E7?.<6.6 ?405 =4.6%

,7'5%%% 8 8 8
<>, 7 ?1E7- , 1' .< ; ,1.' ;? .' 5.6 / E7 / .6
>1; ,<67'<; .6?.4- .<78 '<<>.'?1, 0' <.8
.@ J.1'4< E, ,>6 .@71' ,1> <' 1.I' <,46 5.'
6<??,6.1,<6 >.'U / 55 ,<6 ?'1' / , 6f ; '
=4' >5E7- .1" " 6, / / .' .<7 E71.' E7 ?.< ?1E76
E7 ' / 55 '1>' ' / 55 ,<6%
.' ; '5;45 =4.' <,46 '-,<6 E' 7>.'5" >.77.' .@ J 05.'5"
?,17.' E7 C8) 8 8 %
#.545 =4.'<,46 - .<,<6 >.'E051.'>.6 '6>
J<'76 ' >E7?.<6E76 ,4 E7 >>?.<6.1'> ; 'E7 '
> @ 5 / 7 / , 6 ? ,41'5.' 6.1- ; .' >4 71E76,1
?405 ;' .<?,17.'5"6, / / .' E7%%%%%%%%%% %%%%%%%%%%' 8 8 8

#.6>.4@ ,00.76 E.1 / .<7 4< 7,7'5>.%%%' 8U 8 8 %
,46 '-,<6 > 7 =4.'5.6 >, / '<.6 <'7 ,<'4@ 6,EE 1' .<7
?,41'5.6 ' ;=4: <18 ' ; .?.<>'<7 5'6.45.' -'54'7 ,< ,EE ; .55.'
=4' ' 7U7 '?1 6.<7 .'E7 66. / 05 .'<'7 ,<' .8 5.' *0, <>.1M
<.18 <.' / ,<7.'=4 "C / 5 ,<6 U C8 '5 - %8 V ; , / ?1 6 5.6
0, 6 .7 E,1 76 =4'>, - .<7 71.'1 6.1- % 5,16 ' <'V' -' 5 =4.'
71, 6 ; .<7 =<'7,16.'> 671 ;76 =4' .466.<7 E,4 / '>.6 7'76f '
V.<' "'40, 1> ;4'=4'71.' ; .<7 =4'7,10.f 5 .< / '<=4.'.<; ,1.'
; .<771.<7.' & Pf / ' 68 ' ' / ,V.<>4<.'1 J5.'>.'?1,?,17 ,<8
,<?.<7 4J.1' <; / <<4 ?'1'5.' ; ,<<48 6417,47 ,16=4.' <'
; ,<<4 .67 <E < / .<7 <E.1 .41'E7 '471.% ! .67 ; .' / ,V.<=4.'
<,46 '55 ,6 . / ?5,V.1%

&CP <<9>, 7.1"?'6>.'5" / ,>.1'7 ,<>.'<,71.' '?.1.<
5,16=4 ,<6 41" =4.' ; 77.' 5 67.' ; ,<70.<7 6 @ > 671 ;76 >4 >.'
?'17. / .<7 >4 ,1>8 ; <=>4 '6>. #'5' 68 71, 6>.'5" '<'
;0.8 ; <=>.' '<. 7 , 1.8 =4'71.'>.'5" .<17: .8 71, 6>.'
5" B.46.8 ; <= >.'5" B,6.55.8 71, 6>.' 1<.8 .7 6.?7 >.6
,6J.6% % 1'%

p .60 .<6 - .<>46 641'=4'71.'7 <7 =4'7,10. > 671 ;76 ,47
/ ,<7 E7%%%%%%%%%%%%%%%%%%%%%%%%%I I%%%%%%' (8 U8(U %
5E'47 '0,47.18?,41; .<7;? '71.> 671 ;76 '
641; .<771.<7.=4 < ,<7?'6>,<< > 4 568 W
5.'=4'17 >.' ; .77.%6, / / .%%%%%%%%%%%%%%%%%%%%%%%%%') 8( )89))8
,41'5.6 - 4J7 6 @ > 671 ;76 1.67' ,78 5.'
=4'17 >.' ; .77.'>.1< 1.'6, / / .%%%%%%%%%%%%%%%' U 8* *89(C

' ,7'5>.60 .<6 - .<>46%%%%%%%%%%%%%%%%%%%%%%%%% *9U8(8 U %
C' .6 0 .<6 E7 - .<>1.'641' =4'71.' ; .<7 =4'7,10.'> 671 ;76
6.<7 -'54 6%%% %%%%%%%%%%%%%%%%%%%%%%%%' 9U(89 U8C*) %
,41 ; ,<7 =4'71.'> 671 ;768 641'5.6 ; .<7 N
71.< .' =4' < ,< ?'6 E,</ ' > 7'76f 5. ' %
=4'17 >.' ; .77.'6, / / .%%%%%%%%%%%%%%%%%%%%%%' 9 8* 8 (U
,41 5.6 - <J7 6 @ > 671 ;76 5.67'<78 5.'
=4'17 >.' ; .77.'>.1< 1.'6, / / .%%%%%%%%%%%%%%%' U 8U(* '

'6'J 7 E7 ?1 6.<7> -'54.1' ; .'=4.'?1, '
>4 1,<7 E7 " - .<7.' ; .60 .<68 .677, 6%%%%')U*) 8(9
< <.'?.<7 .<; ,1.'6.'1 . E' =4.'?'1'
.@? 1 .<; .'=4.'<,46 '- ,<6% 8
'0 .<6'- .<>46 '4 ' / '78 / 7 -'<7 8
5.6 7'76 7. / 6 '4 ; / 7> >'5 <'7 ,<8
'- '5.<7 7 .6 / 6%I%%%%%% U 8 *8 *
556 ,<7?1 ,>4 7 E7 5" - .<7.%% (*8 89 %
.7 ?'1' ; ,<6 =4.<7 4<.' ?546 -'54.' >.'C *
/ 55 ,<E7U %8 ; .6 1.'5* / ,<6
'4 >.5E7 >.67 .168 1' / .? ,1E'<7 =4 E7 71, 6
; <=4 / .6 5" ?5<6 -'54.' E7 - .< 18 .55.'
/ ,<7.1'E7%%%%%%%%%%%%%%%%%%%% %%%%%%%%%% %%%%%%%%%%%% *8**98C *

,7'5>.60 .<6 E7 - .<>1.%%%%%%%%%%%%%%%%%%%%%%%%%%% * * CU %
G .6 0 .<6 >,<7 5" - .<7.' .67 646?.<>4.' ' ,<7 ;6 '
/ %%%%%% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% % 9((8(U %
,1' ; .<7 =4'71.' > 671 ;76 .'1'
5.6 ; .<771;<7.'=4'< ,47?'6E,41<'
> 7'768 5.'=4'17 >.' ; .77.' 6, / / .%%8 U 8*9)8U % E7%
,41 5.6 - <J7 6 @ > 671 ;76 1.6 '
7'<78 5.' =4'17 >.' ; .77. >.1< 1.'
6, / / .%%%%%%%%%%%%%%%% %%%%%%%%%%%%%%%%%% %' 8U*C8)' ('%9>%
<<.' ?,17.1" 5" ?546G-'54.' >.' % G
; .77.' ?E715 . =<'4 =4'178 '4 5 .4
>.6 71, 6 ; <=5 / .6%%%%%%%%%%%%%%%' 8 8 9*

,7'5>.E7 0 .<6 >,<77" - .<7.' .67
''6?.<><.%%%%%%%%%% %%%%%%%%%%%% C(9(UU % ('6%9'>\

5.6'

' ; , /?7.' >.' =4'71.' ; .<7 =4'7,10.' >56E1 ;56 5.6 ?,17.'
E7%%% % C** (*
,1' ; .<7 =4'71.' > 671 ;76 641' 5.6
=?<771.<7.'=4 < ,<7?'6 E<4 / '> 7'768 %
5.'=4'17 >.' ; .77.'6,< <.%%%%%%%%%%%%%%%%%%% %' (U8(* ' '%
,41'5.6 - <J7 6 @ 1.67'<78 5.'=4'17
77.' ; 7 .'>.1< 1.'6, / / .%%%%%%%%%%%%%%%%%%%%%%%')89)(*'

' ,7'5 >.60, 6%%%%%%%%%%%% %%%%%%%%%%%%%%%%%%%' ' *C U(8) % 6%
5.67 ; ,<<4'=4.' ; .77.' .67 / '7 ,< 3.' / ,<7.'?'6E7 c" / , 75 '
>.'5" - '5.41>.60, 6% ,4 '< .<71.1,<6>'<6 '4; /'> 7' 5E7
; .'640.78 ?'1; '=4.'<,46<.' ; , / ?1.<,<6 ?'6 5.6 0, 6>'<6
<,71.' -'54'7 ,<%

6, ' ' 9' ' '

' '<;5 776>, / '<.6>.'5" ; ,<1,<<.8V ; , / ?1 6 .60 .<6
>.6 E7?'<'J.68 ; .4@ > 6>, / '<.6 .<J'J 68 1.7 1 68 1.- .<'
>,68 .7 #5.1 / ,<7, 68 5.6 </ 05.6 , ; ;4? 6 ?'1'5" E.1 / .'
J <.1'5.8 5;)1 J .68.7;%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%' ' C 8 %
.1' ; ; '?>.6 / ,4- '<; .6 E ,>'5.68 7'47
>4 >, / '<.'>.'5" ; ,41,<<.'=4.'>.' ; .54'>4
;5.1J 8 .7 .61.<7.6>4.6'4'>, / '<.%%%%%%' 8 8 '

,7'5%%%%%%%%%% %% %%%%%%%%%%%%%' 8 %
" ; 1 '<; '' / 1 ; ' <.8 ; .B.'>4 >4.'>.' .4@ ,<768.7 .6
1.?1 6.6>471 6,1?405 ;'641'5.6; , / ?7'05.6% 8 8
<E <8 641'5.6 E'1 76 =4.' ,<>, 71 6.1- .187'<7 >.'H'<G
; .<>, / '<.'=4 >4 <,4- .'48>'<65.' ; '6, ; 5.6 -'54'7 ,<6
?1 ; >.<7.6 <.'641?'66.1' .<7?'6 .66, / / .6 -'54 .68 E5
6.1' 7 ?,66 05.8 6'<6'57 1.1' / ?,17'<; .'>.'5" 1 6.1- .<'M
7 ,<' .'>.'7,46 .6 ; ,1?6>.'E,1.768 >.' > 671' 1.'5.6 7' E7

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

&%

B < a 5 7

! " # $ % "# #&' $

% 5WE P ()* 5W1 K (* 8

6 / 6 6 ! # ? ! K 7a 5K K # E " K K K %

, Q I

- . . 37 Y; .

'05.'4 J < 1'5 >.6 1.;.77.6 =4" ,< ?.< 1.J'1>.1 ;, / /. '<<<.55.68 E'57.6 ?'185.'71>6,1 ?405 ; >.?4 "5. G / '7)* Q46=4 '4 G Q'<- .1 (* 8 ,41 ,K ;, / /.<;. W <,4-.5 ,1>1. > '> / < '71'7 ,< 1 J5. ? '1 '6. /05>. <'75,<'5.% #. 7'\ 8^05.'4 .67 >1.'6>8 ?,41 ',<>. .,7 >1.8 >4 Y / '7 ()* '< GG / '7 ('\> '?1 6 5. ;, / ?7" 1.<>4 ?'1 K5% .>1<18 .7 ?,41 5.6 0 >7>. / .16 / , 6 (* > '?1K" 5. ;, / ?7. 1.<>4 ?'1 % 4E1.J<.%

)

C%

" $

[illegible]

<.# # < H%

[illegible]

=

a_Y %

" F" A$

'05.'4 J>< 1'5>.6>>?.<6.6?4055=4.6% .' G,<?.'7 1.J'1>.1 ;, / / .'>.J ,>?.<6." '<<4.55.6 =4.'7.71>6,1 ?405 ;'
' ;=4 77 '>.?, J5.' G1'' ()* 046=4 '' 5EdQ[sc;6? ^ E P8 =?1 ?=?EK.';.' .' <,4-.5 ,1>1.' > '>/ J71'7 ,<
?'1 J6./05>.'<'7 ,<'5.' #.'7'05.'4 .67 >1.56.8 ?,41 1'<77.' .<7 1.8 >' 5GG / ' ()* '' G / ' (* 8 > '?1.6 5.'
;, / ?7.'1.<>4 ?'1 (A .;57.18 .7?,41 5.J04B>.1< .164,7' (* 8> '?1 '5.'., / ?7.'1.<>'?'1 B 4E17 .%

W F %5

	5 -%	55-%	51%
'6, '>4 1.08 >.'5Y1? <.8.7;%%%%'Q %%%%%%%%%%	(8(U8 9	C 8 (U8(U)	)8)8) U
C% >'.['>.'R ,7 60;=18 E0.1? >4 ?=c%%'Q %%%%%%	989(8())	8 (8 C	8CU 8UC9
% '6,=>.' %> 15,0E%		C8 C8	
/ EE'1 '.71'<J 1.0 %%%%%%	% (8) 8	8 C 8	C8U 8
T 6% !4.11.8'17 55.1 .8 J <.8 .5''71.6>>?.4J.6 < 5'1.J%	BIF/BXT WHX	(8C) 8 C	(U8U 8(*
9% '1<.'97 ; 5 ' 6 % F % % %%%%%%	9 8 U 89 C	8 * %)U	8* 98U
(% .?.<6.J>.'5";'6J.'; -5>.'E 5.'>.'#,16.%%%%%%%	C 8	C 8 *	(%
) <7J .7;:'466..6%%%%%%%%%%%%% %	989 98(9	U8U (8*	8 UI99C
* B'1'6%	U I)	*8*UC	9(8C
02 .<7.6 ?.1?> 4.55.6 .7 - 'J>1.6%%%%%%%%%%%%%% %%	C8 9 89((	U(8 (U8C 9	CU*8U 8)*
.<7.6>.6 ;, / /4<'47>6> '176 .7 / >7 .16 64??1<>.6%%%%%%%		C (8 99	C (8 99
08 <7.1756>.1E.76 ?405 ;6 .7 '471.6 ; 1 > ' < ; . 6 %%%%%% %	G 8	8U*U8(	998 98 C
% /.<> 6.7 E1' 6> .6;, / ?7.%%%%%%% %%%%%%%%%%%	8)8))	* (8U *	C8C(8**(
U% 7>1.76>.' /' 6,<'':=4 6.6 67715.6 ?'<76 8>'<6 7.6 :'55.6 .7 / '1;:.6%	9 8(*	8()	% *UI UC
% !'J.6>.6;:'1J.6 1.?1.6. B'<7 <7>1>7>.'5" <'<;.%%%%%%8	<I98 5U	) 98))	)8 UCI) C
9% !'J.6>.6 ,EE ; .16 >4 , <7 > B,<<.41%%%%%%%%%%%%%%		)8)	)I)&
(% !'J.6>4 ;,<6.58 71'7./.'7>.6 / < 671.68 >.'5" / 'J 671'7<6?8 .7.%%%	8 C I	8 9 8	C8) 8 U
)% !'J.68 1'7./. 76 .7%J1'7<;'7 ,<6 '> EE>1.<7.6 ?.16,<<.6%%%%%%%	) 8 C*	I) 8 C	U9*
* !'J.6>.6 <' 1.6>.' ?,67.6%%%%%% 1%%8% %%%%%%%%%	8 9	C 8 UU	U U8C
C <>./<7.6 '> EE.1.<765 71.6%%%%%%%% %%%%%% %	8(* 89 U	8 UU8C	C8 (8 9U
.<6 4<68 >.>4;7 ,<E' 7.'>.J 1.7.<<.6%%%%% %%%%%%%%% %	8U9 8 9)	)8(U8 99	U8 ((8 U
<5.<>'<76>.'?1,-<;.6 .77.'16 041.'4 %%% %%%%%% %	*) 8 *C	(*8U(U	8 9U8 99
C % B>?.<6.6 ?'17 ;4 . .6 "5" - 55.'>.' '1 68 6'-, 17			
,5;.%%%%%%% % %%%%%%%%%%%% %%%%%%%%%% %	8() 8)Z	* *8 (C	C8(%(*
!'1>.' / 5 7'1.% %%%% %%%%%%%%%%%%%%%%%%%%% %%	89)C8	U8 (989C	8 %(8( )%) (
./ 6,5>.';,<J.1->.'' '<; .< J4.7.7J ' 1 > . % %		)C	8)C
'-.%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	F 8C))8	](E7C	899 8 C
1'-'4@>'<65.6;'11 .1.6 =4 '6,<76,465" - 55.%%%%%%%%%%%	U98*C	CU 8 9	)(%* 9
CU% '1..0'466..'>.'E 5.'>.'H1'<;.%%%%%%%%%%%% %%%%%%%%%	C9 8 9	C9 8*C	C(8)
C % ./ 6,68 <,<-'5.4168 >.;:'1J.J.7< ,>.1'7 ,<66'1 >6 / ?.6 5c,<6%	8*)8 (9	9 (8UU	98 (% C
C9% ./ 6.'641 5.6%>1, 76>.' / .<<'V'J.%I%% %%%%%%% 1%%%%%%%%%% %	98C C	)) 8UUU	989*9
C(% >/ <671'7.416 >4 71>6,1 ?405 ;8 .7 5.'16 041.'4@%%%%%%%% %%%%%%%%	8(8)	)9*8U*	C8 * 8)(
C)% K41.'4@ >.' '>/1< 671'7 ,< J><>1'5.%%%%%%%% %%%%%%%%%	C8U)U8C C	8U 8U99	8)**89()
C*% 1'5./.<76 '4@1.;.-.4168 E.1/ .168 H>J 66.4168 .7 '471.6 E1' 6>.'1.8			
;,4-1./.<7%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% %	%))9 8U U	U C89CC	)%99(%* 9
% B.?.<6.6>.'5";'66.'>4 ;, / /.1;.8 >4 >>?'17./.<7>.6 / <.6%8 .7>.			
'>/ <61'7 ,<>.'5" ,<<'.%%%%%%% %%%%% %%%%%%	)U9)(	CC)%*9	% (%* 9
% H,?>6 1.6.1-.6 ?,41>.'?.7 76 ';7.6>.'0 .<E' 6'<..%%%%%%%%%%%%%	C9))	98C(C	)C8 (
C% .; 416 '4@B,55'<>' 61.E4J >6 .<H1'<;.%%%%%%% %%%%%%%%%	)	) 8	8CC 8 9
% #, / /4<'47.6 1.5 J .46.68 .5 6.;,416 ?,1 5" ;,<6714; ." >.6>> E5..6			
6'.1>6%%%% %%%%%%%%%%%%% %%%%%%%%%%%%	8C *8 ()	8))8(*	C8 *(8(C
U% B>? '4@,7 .<E'<76 71,4->6%%%%%%%%% %%%%%%%%%%%% F% 1%8%	)8)8) U	)8C*98 *	98 U8**
9 7.5 .16>.';:'15E '?,41640-.<1' ' / '<=4.8>.'71'-' 5>'<65'-55.'>.			
8 '16 .7 5.6 .<-.1,<6%%%%%%%%% %%%%%%%% %%%% %%%%%%	8) 8*C	U8) 8*9C	)8 C8)
9% .6714;7 ,<>4 -'J'0,<>'J.'.7>.'5" /.<> ; 7>%%%%%%%% %%%%%%%%%	89(8U (	9U8 C	8(8UU
(% 1 /.6 .7 .<;,41'J./ .<76 ?.41 5.' ;, / / .1;.%%%%%%% %	9%U)C% U(	CU 8)*	98(CU%U
)% '1>< 1,V'5>.6 5'<7.68 .7 #'0<.7> : 65, 1.'<'74 /55.%	C U))C	6 /K	U9 %9U9
K05 ,7;.=4.>41, %%%%%%%%%%%%%%%% %	998(	9 8C 9	
U % <-.16 7>8 ;'>.' / .68 6; .<; .6 .7 '176% % %%%%%%% %	9(8UC(	)U 8)	c8 5I(&
U % <1.7 ,<.6>.6 0'7 / .<6 ?,41 5" ;; ,6.'?405 =4#%%%%%%%%%%%%	8**U8 U	) U	C8 (U%U9
UC% .?.<6.6>.'?1,;.>41.6 ;1 / .55.6 .7>.'?16,<< .16%%%%%%%%%%%%%%%%%%%	)8 8C9)	/ (/	)8))8)C9
U % ./0,416./.'/'>.6 '>4 ?1./ .1 ;, / / 6 >4 J.'<>\;, / ?7'?7%%%%%%		(8I* 8 *	(8)* 8 C
UU% 1'7.6>4 6 .41 !'4>.5.78 0'[>.1 ''K1.678 . '1./?5'.'./.<'>.'?'V.			
/.<76 =4 ''E' 56 ?,41 5.'6.1-;'>.'5" J4.11.'.7>.'5" / '1 <.%		) C8W	
U % <>./<7>6 '' % 5.6 >>?47>6>.' 66./05>.'<'7 ,<'5.8 '7E1' 6 1.5'75?6			
j ' '5'>7. 66./05>.%	)89)()9		
"7...E/R[1E%%%%%%%%%%%%	UU(8U U8C 9	* 8U9*8(U	) (8)*U8U(

)Z

% % &'G6 5G NE ;Y $ J 1Z C W I 6

5 % 5 % B1G

V *%%%%

U9% 6?.<6.6>1.16.6 .7 7 / ?1>-' .6%%%% % UU(8U U8C 9 * 8U *8(U) (8)*U8U(
U(% !4.7>. '176 '-'<7 >7'05 66.< .<7>. 5" J'1>. <'7 ,<'5.%%%% (89* 8U U 8 U
U)% 34 77'<;.6>. J'J.6 .7> '??, <7. / .<76 ?,17. " '< 1.; .77. >'<6 5" ;,<71 (8** (8**
0,7 ,< ?'71 ,7 =<.%%%% CU 8)U(CU 8)U(
U*% ./ 6.6>.6>1, 76 ;'64.56 ';;,1>>6>.7,47 7. / ?6 '4@ ,E3; .16>" !0>G
7.5.7 .7 "> '471.6 / 'J 671'76%%%% % C 8()U C 8()U
% 34 77'<;.6>. J'J.6 .7> '??, <7. / .<76> -.168 ?,17>6 .< 1.; .77. >'<6 5'
;,5,<4. ; ;,<71.%%%% % *U8 U *U89U
% ./ 6. >.6>1, 76>" / '1; > ,1%%%% N %%%% % HM[[% 8(
C% .?.<6.6 5,;'5.6 .7 -'1 '05.6I 6.;,416 ' / ?'4-1.6 :'0 7'<76>.6 ?1,M
- <;.68 .7;%%%% % 8U *8*UC 8U *8*UC
% .<7.68 <7>1>76% <>. / < 7>68 J'J.6 .7 '471.6 ;:'1J. >.1'> / < 671'
7 ,<>.6>, / ' <.6 ?'V>6 .< ?1,- <;.%%%% %% (8 *)8) U8 *)8)
U% ./0,416. / .<76>.6 1.;.-. 716J><>1'4@ =4 ,<7 71,??'V> 641 >'<; .<6
.@.17>;.6%%%% % 98UC)) 8UC
< 7'47 >>>4 1. ><;, / ?7. >. % .; .18 ' <6 =4 5 5. E' 7 5, 1<> / . 5"
E <>. 6,< ;, / ?7.8 ?, ,1 5.6 0,<6 7.1 / . >4 ?1. / .1 ;, / / 6 >4 J1'<>
;, / ?7'<7%%%% % e8(C)8CU*
B' 6 ,< < "?'6 ;, / ?1 6>'<6 5. ?1>6.<7 7'05. '4 5"6, / / . > 4< / >;, / ?7.
=4 .67 '-,4> .7 ;, / ?7. >'<6 5. ;, / ?7. >. B% .. .18 <G) % .67>,<. <>
;.66'51. >. 'Q,47.1 2 5"?1. / >1. 6, / / .8 ?,415 .@';7. ;,<E,1 / 7>>.6>. /
,, / ?7.6I 5"6, / / . .67 8*)U 5- . \ 8*)U

U9 8 UC8UCC * *U 9) 8 98(C
Y

G U%

" 3$($$#$+

'05.'4 J><>1'5>.6>>?.<6.6 ?<055=4.68 =<.5 ,<<.?.47 1.J'1>.1 ;, / / . .6>>?.<6.6 '<<4.55.68 =4. 5. 71>6,1 ?405 ;"
;=4 75>.6>.?4 65. 5G / " ()*Q'6=4 '4 F '<- .1 (* Q,41 ,5 ;, / / .<;.5. <,4-.5 ,1>1. > '> / < 671'7 ,< 1>J5>
?'1 66. / 05>. <'7 ,<'5.% #. 7'05.'4 .67 >1.66>8 ?,41 '<<>. .<7E>1.8 >4 GG / 'P ()* '< G / '7 (* 8 >'?1>65.
;, / ?7. 1.<>4 ?'1 % a.. .18 .78 ?,41 5.6 04B >.<'161,&>6 (* \& '?45. ;, / ?7. 1 / >"?'1 B% 4E1.6<.%

&W \ 7& DG ! 5 J K()%D$ SI
" a 8
RWh

% 5 % 5 %
% 1'-'4@>. ,<;.7<7. >4 B'-1.%%%% % % 99 8 C 9%) 8
C% 1'-'4 >.5"1'>. >. #:.10,41J%%%% % U8 (8 * 8*% 98(U(98 *8))9
% 1'-'4@>.6E,17E ;'7 ,<6 / 5 7 1.6>. #0.7 0,41J%%%% % 9 %) %
U% 1'-' @>4 ?,<7>. ,4 6 " %%%% % U C8 * C8
% 1'-'4@>. 5" ;5>741.>. '1 6%%%% % %)8)(C8_Y 8) 8 9 8((8UU9
% 1'-'4@>4 ;'<'5 >. #:'1,5' 6%%%% I UC % UC %
(% 1':.6 .7 '471.6 >>?.<6.6 1.5'7 -.6 '4@ J1' <6 .7 '4@ E'1 <.6%%%% 6 6 % [(8 *)8* U(8U(%(
)% ::'7>. / '7>1.6>,1.7> '1J.<7 ,@71'57.6>. >71 <J.1%% AA %%% C8CC)8 9 C8U* 8
% ::'7>:<4 / >1'1. ?,41 5. 6.1- ;. >4 71>6,1 ?405 ;%%%% 8U9 8U 8U9 8U*
% -'<;.6>-.16.68 E'7.6 ?'1 ;71>6,1 ?405 ;8 6'-, 1N
4@ E,1J.6 1,V'5.6%%%%)(%
'5" >55. >. 'B6%%%% %
4@ E.1 / 5.16>. ;.'4@ .7>. , 66V% %%%% % *)8 UU
4 >>?'17. / .<7>.5' ! 1 <>.%%%% $ %% % %
4 6 .41 ! ,Q'1>8 ?,41 ?'V.1 5.6 1.<7.6>. 6..1>7' 1.6>4 1, % % % % 8 UU
% .6;1 ?7 ,<6>.6 1#;.77.6 J><>1'5.6 1.-.<4.6 6415. 71>6,1 ?405 ;E'47.
>. ?'V. / .<7>'<6 5.6 ?1,- <;.6%%%% *8 9 8) C 8 U98UCC)C8((8 (
C% >/0,41 . / .<7 1.5'7E '4@ ?'= .0,76 =4 ,<7 >7> 64??1 / >6%%%% 8 UU8* 9 U % 8 UU8* 9
% ./0,416. / .<7>> '<>.< ?'? .1 / ,<<' . >.6% .6 >. H1'<;. .7>.
K,410,<% %%%% 8*U% 8((**8C(* C8 UU8**9

A 9C8 98 C8*U)8*) 8U)U%)

&

B, +C<4+4' +D / ! 2 ; ' <6 2< ! +8

D ' ,\ h' = <'
b#6' A #
'%Q'$G % A K E 1,6 %
$$,

55-% 55-% 55 %

U% . / 0 , 416. / .<7 >.'? .7 7.6 1.<7.6 >.'C '5 -1.6 .5 ' ' >.66 ,46 9C8 98 C8*U)8*) 8U)U8*
% . / 0 , 416. / .<7 >.'5" -' 66.55.'?,17>.'>'<6 > -.16 :>7.56 >.6 B,<<' .6%)C8* * 8)9 C(8C)*
9% . / 0 , 416. / .<7 >,HE ;.6 >.' 1. ;.-.416 J><>1'4@ .7 ?'17E;457.168 ?'1 89 8 9 *8 9 8U U8)C 8(
;,/?.<6'7 ,<>4<.'?'1. 55.'6, / / .' 641'5.41' >>0.7%)C 8
(% . / 0 , 416. / .<7 >.'>.4@ ,EE ;.6 >'1;.16 >.'5" ;. / ?' .'>< ?1>->7
J><>1'5 >.6 ,<<' .68 64??1 / >6 .7 5 =< > 6% C C
)% . / 0 , 416. / .<7 > ,< ,EE ;.'>.';,<6. 5.1'>.' 0>5.5 ; , / /4<>.' . / >< UU %)C 8
*% . / 0 , 416. / .<7 >4< 0 55.7 .7 >.'>.4@ ?1 / .6 >.'5" ,7.1 .'>,;5,01.
() % ?,17>6 .<1. ;,57. * *
C % . / 0 , 416. / .<7 >.';<=0 55.76 >.'5" ,7.1 .'>,;7,01.' () 81.W<]'?'1'5.6
>,<6 ?'71 ,7 =4.68 .7 ?,<>6 .< 1. . .77.%
C % . / 0 , 416. / .< 6 > -.16 9 8*CC
CC% . / 0 , 416. / .<7 > ,< .EE.7 646?.<>48 1.E4' >'<6 5" ; ,<71 047 ,<?'51 ,G
7 =<.%.7?,17. .< 1, . .77. 9 '
C % . / 0 , 416. / .<7 >4<.'6, / / .' 1.?4.'>.'71, ?>'<6 << ?'-. / .<7 ; >.
-'<5 E' 7 ?,41'5.6 <7>1>76 >4 ?1 @>.' 0>5.5 1.<>4 BpY>.'K,410,<% 8(
CU% . / 0 , 416. / .<7 E' 7 '4@ <,7' 1.6 >.' '1 6 >.6 ;,<,1' 1.6 > ' ;5.6 =4
5.41'>7' .<7>46 >'<;.<6 . / ?1,<76 % C89C)8 U ' ' 8
C % . / 0 , 416. / .<7 >4< 0 55.7 >< 6 .41'>.'K,45,J<.8 '<; .< 71>6,1 ,1'>.'5',
J4.11.8 1.-.<4 641' 5.' 1>6,1 ?405 ;'E, ,7.'>.'?'c. / .<78 ?,<>' .< 1. '
;.77.'>'<6 5" ;,5,<<.' ; ;,<71.
C9% . / 0 , 416. / .<7 >.'0 55.76 =4.'5.'6 .41'K.'4J.'1>8 1. ;.-.41'J><>1'5 >.6
; >,-'<7>'56 >.'K1.7'J<.8 '-' 5 E,4 / 6 ?,41' 5.6 / ?,6 7 ,<6 >.'
;.77.'?1,-<;.8 .7 =4 5 < " ?4 ' ;=4 77.1 8 *98
C(% . / 0 , 416. / .<7 E' 7 >5" -55.'>.' '1 68 ; <E,1 / > / .<7 '4@ >>.1.76 >.
66. / 05>.'<'75,<'5.8 ?,41' '-'<; .6 =4.' ;.77.' -55.' " E' 5.6 ?,41' >.6
,00.76 >. / 0.55 66. / .<78 '47,1 6>6 ?'1>> 7 >.6.?7. / 01.' ()9% 8 8) U
C)% EE.76 1.?46 .<>,405. / .<7 >'<6 . / ?14<7 >.') ' / 55 ,<68 .7 ?,<>6 .<%
1. . .77.'>'<6 5" ,5,<<.' ; ;,<71. % CC8 (8C9* CC8 (8C9*
C*% . / 0 , 416. / .<7 >4< . / ?14<7 E' 7 .< B,55'<>.'?'1' 5.6 < 1 ;'0'6% % / 8 ' 8C (8*(C8C (8*(
% . / 0 , 416. / .<7 >4< . / ?14<7 >.' ! >< .6% $ 8C* 8 C 8 *8 *(U89 8CU*
% / ?14<7 >.'5"H5'<>1.' / '1 7 / .% *8 ' 8 U(U8
C% . / 0 , 416. / .<7 & '<; .<<.6 '<7 ; ?'7 ,<6% *R 9(8*U 9C8 9(89C CC 8U 8 (
% . / 0 , 416. / .<7 >,6 >>?>76 E' 56 '4' 1>6,1 ?405 ;% C89(89 C89(%9
U% >?.<6.6 1.5'7 -.6 >'5"E,1 / '7 ,< >.6 '66 J<'76% ' ' I % ()8
% 1 / .6 ?,.1' / ?,17'7 ,<>,6 J1' <6 % 89(8* (; +1/ 791
9% . / 0 , 416. / .<7 ?,41'?'17 .'>4 ?1>7 E, 5 ?'1'5.6 E.1 / .16 J><>1'4@ 641
5.416 :><E ?6 >'<6 ;.'>.1< .1'0 ' 5% C%U9 % ' < :+9 999
(% .1< >1.'?'< .' >< 1. / 0 , 416. / .<7 E' 7 '4@ E,1 / . / ' J><>1'4@ 641' 5.6
E,<>6 >.'?5';,'><< E.1 / .1' J><>1'5% H" "2" " "'
)% . / 0 , 416. / .<7 > 5.'?1 <;.'>.'#,<>>'?,41'5.6 >1, 76 47 5.6 >4 #5.1
/ ,<7, 6% 9 8 +99S/99
% . / 0 , 416. / .<78 .<1.6 ;1 ?7 ,<6>.' (' .7 (* 8 >.6 '-'<; .6 E' 7.6 ?'1
5.6 1. ;.-.416 J><>1'4@ .<' () % /98 R 02 022 222
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U % . / 0 , 416. / .<7 '' >.6 ; / / 66' 1.6 >.6 J4.11.6 64??1 / >6 '< / , 6
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U % . / 0 , 416. / .<7 >.6 . / ?14<76 >.6 ?'V6 > >7'76% % 98UC 8UU(98UC 8UU(
U9% H1' 61.5'7 E6 ' 66. / 05>.'>.6 ,7'05.6 >.' ())9% *8(*8(

- 0 C9)8C 8 (* (8)*8U) UC98)U 8 9U

)C(

, 6%

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P5.'4>.7 / / .6.& K; -.)' ; , / ? ,6'<7 5''1. ; .77.' .@71' ,1> <' 1.'>.6 ; , / ?7.6>.B% . ; .1.7 .' % ,E71. / .7>"5F <'5'
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' HH # ' ' '

' / 66'H B ' K"<47 K K G

5 B '%6' 'B %W ')

5 1% 2 2

9 !& & % $$ (! & '% -'B& $,& ,'?! %$, .6;1 ?7 ,K '>.6 1. ; .77.6 J><>1'5. '' . \>.-'<7' ;=, 77>.6 ?'1' c.' 71>6,1' ?405 ;8 .7 1.7 1..6 .<7, 7.'?'1'>.6 1. ; .-.<16 J>,>1'4@%	8 U8 U	C 8C)*
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8 ,'&&B ,	8 *8*9*	89 *8*9*
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/ ?14<7 >.6 ; >.-'<7 ?'V6 >>7'76 %	98U *8)	' 98U *8)
*% / ?14<7 <'7 ,<'5% % W % % % G % I %' % W	8* 89	8* 89
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% EE.76 ?405 ;6 1.?,6 .<>,405.<'.<7>.6 / 6.6 E.57.6 <,' ; , / ?7'<7>'<6		
. / ?14<7>.' ' / 55 ,<68 .7 ?,1 >6 .<>>?.<6.'&-,V%7'05.'4'<\'98 P%	CC8 (8C *	
6' 1,>4 7>.6 J1'<6 .7' '1<.6 '<; .<<. / .<7 -.<><6% % % % %	8)) 8 U	
% B'7 .1.6 > ,1'.7 >' J.<7 .@71' 7.6 >.' . 1'<J.1% %		
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% '$ '&&(% '& '$%' ! & % '$ ' &, ! '& '$%'4 $ '&' % .' ' ' % '5.6?'V.416 &%,'1.<7.6	8** 8 9*	8** 8 9*
*% .?4'>.'B%>.'K 1>8 ?'V.41'>.6 >>?.<6.6 >.'5''J4.11.8 ?,41'-.<7.'> .E' E.76 '??'17.<'<7 '4 1, 8 1.5 =4'76>.6 ; , / ?7.68 .7'471.61.?1 6.6'<% 7>1 .41.6 ' ())% % % % % % % G % %' %	$ 8U998* ' C8U C8 C	8U998* C%U C8 C
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E 4?? > / '.<7>.6 E <'<; .6 '4@., / / 66'71.6>.6J4.11.6 ; ,<6.1-.6% % % % H,<>6 >.'; '47 ,<<. / .<7>.'>-.16 '> / < 671'7.416 8 .7 '<7 ;6 ; , / ?7' ' : .6% 8 % % % % %	89*(8(C	89*(8()C
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* 'W7 %

% .;4'>.'5''#' 66.'> .6; , / ?7.8 6< -'<7 5.6 >>;1.76 >.' 66. / 05>.'<'7E,G' <'5.8 ?,41'5.'6.1- ;.'>4'71>6,1'?405 ;'?.<>'<7 5.6 / , 6 >.'<,-. / 01. .7>#.. / 01.' ()*8 .7 046=< '<' / , 6 >, ;7 01.' (* % %	U 8 8	U 8 8
)% .;4'>.'5'';' 66.'>.' .@71' ,1> <'51.8 ., <E,<<> / .<7 '4@ >>;1.76 >.' 66. / 0 .'<'E ,<'5.8 ?,41'5.' / > / .'6.1- ; '?.<>'<7 ?'17 .'> , ;7,' 01=8 / '?,41'5.'' / > .'<,-. / 01.'.7>>;. / 01.' (* % %	CU8 * 8	CU8 * 8

9%

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'07.'<>.6 6,<4<.6.E 51.6 ;, /?,6'<7 5.6> ?.66.6 .@71',1> <' 1.6 >.6 ;, ??7."'>.' >% .; .1 .7>.' K,E1.6<.8 >'' F /'' ()*'4 F0'<@ .1 (* 8>>>,;7 ,,'E' .'>.6 ?'17 .6 E ;7 -.68'1.,'>67<;7 , 7>.6 6, / / .6 .< & .7 ;.55.6 . / ?5,V..6 .<1. / 0,'16. / .<7% G

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G)% ;:'7>.<'> .6> ,1 ,'>'1J.<78 .@71' 7.6>. >71'<J.1% %%%%%%%%%%	C8U* 8	U8) 8U)	.>4;7 ,< E'7.' >4 ?1, ' >4 7
*% ;:'7>.' , />1' 1.'?,41 5.'6.1- ;.'>'' 71>6,1 ?'05 ;%% ' ' * ' ' '	8U9 8U*	8U) 8U*	
% -'<;.6>-.16.6 E' 7.6 ?'1 5.'71>6,1 ?405 ;N '@ E,1J.6 1, V'5.6%%%%%%%%%% %%% % ' 5'' -<.'>.' '5 6% % ' %%%%%%%%%% % <@ E.1 / .6>.' ; .'4@ .7 ,566V%%%%%%%%%%' W %%%' $ % 4 >>?'17. / .<7>.'5'' ! 1,<>.% 4 6 .41 ! ,0'1>8 ?,41 ?'V.1 5.6 1.<7.6>.'6.;1>7' 1.6>4 1, % % ' \	*)8 UU	9)8 UU	.>4;7 ,< E'7.'>.6 ?'1 7 .6 1. / 0,4? 6>.6%
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- 0	$) 8C (8U9C	(8UUC8U 9	
% .6;. ?75,<6 >.1.;.77.6 J><>1'5.6 1.-.<4.6641 5.'77>6,1 ?405 ;8 E'<7. >.'?'V. / .<7>'<6 5.6 ? 1 , - < ; . 6 % %%%%%%%%%%	C8 (8 (	C)8))*8	Z .>4;7 ,< E'7.'>.;'=4' .67 1.471.%
U% . / 0,416. / .<71.5'7 E'4@ ?'=4.0,76 ='5 , ;7>7>64?? / >6% %	8 UU8* 9	8 UU8* 9	
% . / 0,416. / .<7>.' '<; .<?'? .1 / ,<<' ' >.6 .6 >.' H1'<;.' .7 >. K,410,<%%%%%%%%%% %% %%%%%%%%%%	C8 UU8**9	C8 UU8**9	
9% K / 40,416. / .<7>.'?.7 7.6 1.<7.6>.'C ' -1.6 .7'4 .66,46%% % % % % %	C(8C)*	C(8C)*	,41 />' / , 1.1 ?546 =4.' ; , / ?.<' 6.'?'1 5.'?1, ' >4 7>.5'-' ' 86.55.%
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*% . / 0,416. / .<7>.'>.4@ ,EE ; .6 >'1;:.16 >.'5'' ;, / ?'J< .'>4 ?1#->5 J#<>1'5 >.6 ,<<' .6 64??1 / #6 .7 5 =4 >>6%%%%%%%%%% %% %%%%%%%%%%		H"H	
C % . / 0,'16. / .<7>4< ,EE ;.'>.' ; ,<6. 55.1 >.' :#7.5 ; , / / ,<'>.' , / .<V%%%%%%%%%% %%%%%%%%%% %% %%%%%%%%%%		UU '	
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% . / 0 ,416. / .<7 >.6 >>?>76 E.576 '4 71>6,1 ?405 ;% % % % % % % % % % % C89(89])8 E. 7. >. ; .4@
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55 %

1%

.551.7ˢ >.ˢ ; : ' J.7<1ˢ '1 66ˢ =, .5.ˢ6 . ,1ˢ & 3 '77 .78ˢ 0'<=<5.1ˢ E7ˢ K1.678ˢ ''> >ˢ ,05 J>ˢ >.ˢ 1. ; ; - , 1ˢ >.ˢ > .16ˢ ?'17 ;45 .16ˢ =, ˢ .ˢ 545ˢ , <7ˢ E, 410ˢ >,ˢ < ['>

'<><76ˢ =4.ˢ5.ˢ?1. / .1ˢ ; , / / 6ˢ >'ˢ J1'<>ˢ . , / ?7'<7ˢ 'ˢ E, 4 / 6ˢ 7 , 1ˢ 5.ˢ >. '1

8 (8 9

(8 *(8U9

ˢ)8(U8)C

ˢE7 7.1 / .ˢ >,ˢ ?1. / .1ˢ ; , / / 6ˢ >'ˢ J1'<> .> / ?7'<78ˢ E, , / 6ˢ ?, ,1ˢ 5.ˢ 6.1M - ; .ˢ >.ˢ > EE 56>>?'17. / . , 57%%ˢ %%%%%%%%%%%%

U8 (8 9 U8 (8 9

,1' / ;%$ ' W ' WW . G %%%%%%%%

8 U8*)U 8 U8*)U

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<6 8ˢ 5.6ˢ 1. ; .77.6ˢ ,1> <' 1.78ˢ =, ˢ / ,<7.<7ˢ E7%%%%%%%%

9(9899)8 9

8 U8*)U

, / / .ˢ >.7ˢ 1. ; .77.6ˢ ,1> <' 1.7ˢ 1>>'77.7%%

a *ˢ E.

<

)ˢ) Dˢ E ˢ <ˢ

K K ˢ B %

' G '

J

5 5 5 5

%C

Z Dˢ ˢ 7<ˢ

$6ˢ ˢ C

EEˢ $

5 %

77-%

1%

1' 7.6ˢ ><ˢ 7 .<1 ! ''>. .78ˢ 0'<=' .1ˢ E7ˢ K1.678ˢ .<ˢ 1. / ?5' ; . ˢ / .<7ˢ >.ˢ ?'01. / .< 6ˢ =4 5ˢ 'ˢ E' 56ˢ ?,41ˢ 5.6ˢ 6.1- ; .6ˢ >.ˢ 5' J4.11.ˢ .7ˢ >.ˢ 5'ˢ / '1 <' %%%%%%%% . / 0,416. / .<7ˢ >.6ˢ 0,<6ˢ >4ˢ ?1. / .1ˢ ; , / / 6ˢ >,ˢ J1'<>

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U)C8 *6)5C8 % 8C U8 U % 8 *8 CC

(8)* 8 C

,7'4@%%%%%%%%

U)C>P (8((8U)8)*8U9 8)U8U)U

ˢ 5<6 8ˢ 5.7ˢ >>?.<6.7ˢ ,1>E<'71.78ˢ =4ˢ / ,<7'E.<7ˢ %%%%%%%%) C8 98(C

>,5 .<5ˢ >.ˢ / > / .ˢ >71.ˢ 1>>4 7.7ˢ >.%%%%%%%% 8 U8*)U

, / / .ˢ >.7ˢ >>?.<6.6ˢ ,1> <' 1.7ˢ 1>>'57.7%%%%%%%%ˢ) *8C 8(U)

)

2 : ! ' [B&E !' ' #%! !' %) ' ! '5)!! ' !&! ( ) ' ! ') (#% '', !' !< = A
F ;' 'H ',F ' !' ' # ' ' ' (' #' ', !' /W A6H !' & ' !' ') :# '$ '
4 !' ! '& : 4 !' #' '&<&!' !A H ') & ' ! ' ' $$! !)!' !' ') :# ') ! !' %!)' ' #%!?!F

a >.6 6 ! ,<6% E	>.6 Y B	J 6' 0 , 'W B T _ B' W W	,6. 7 .< (* 8 ';7 1.%	<> 1 >,.55.%	#,<71 047 ,<6' E,<; .1.'.7 / ,0 5 #1.' ?,41' (* %	#.<51 0,7 ,<6' ',; .<<.68' .7 6.<6' ?,41' a-1.' ;, / ?1 6%	EE.1.<;.' >.6'<; ;<<.6' ; 1 047 ,<'' -.,' ,.>.' >.' / 5 ,<'%
% ,1>%%%%%%%%%%%%%%%	(C 9C	8 9*	(UU8* (	U8( )89*	) 8)*8	)8 (	(8 CCWU (
C% ,1> 67%%%%%%%%% % *	9 *C	C8)CC	UU 8 C	C89(8 9	C98 8U	U*8UCC8U C	CC8 (8 C
% '7%%%%%%%%%%%%%%%%%%% *	9 (	C8*9U	U) 8UU(	>P*(8C	) 89 U8(	89 U8U7,	C 8 C*8(
U% ,> 67%%%%%%%%%%%%% *	U U(9	C8**	)*8	C8 UU8()(	98 98(	C*8 C 9	8 8)9
9% *	U) U	C8)	)C8	C8U 8UC	C 8(8C	U98 C8(9	C 8) *8 9
*	) U 9	8 C	U(*8 (	C8*U(8) 9	CU8*(98 U	U 8 *98 U	C 8CC %
%%%%%%%%%%%%%%%%(#%34.67	9 U(	C8* 9	U (8(*	C8*C(8 C	C)8)(C8U	C8(U8C(	C 8)) 8 ('
) % S ,1>\ 4.6 %%%%%%% *	(9	C8) *	U8*U)	8)8C	98C	9(8*9C8C	8(U98U
*% #.<71.%%%%%%%%%%%%%% *	9U U (	8 (	U * (	C8 U98	C 8C 98 9	U(8 C8*9*	C 8) 9*
,7'5' J.<.1'5%%%)	UU U89)	C(>Y	U8C*)8 9	C(8 * 8 C	8 8	C8 U( )9	6 6(/(7

' ! !'# !' $$! !)!' ! !')! ' ! # ' ! ')!# ' ') & !' ! ') :# ' #: +#! (' '+# !&!' : ! #A
#') > ' !% ' ! ' ++! ' ! ') # ! ('$$ #' $$! (' "! ! !' ! !(!' 6' ?!#!< ! ' #'+#!' !'
) & !( )!' +#, ' ! !' !' ! !&! ' !' ' # ! !'+ H '6/ ?!#! (#' !#' ! / A)! ? !< 1 !P! P '
+ ,! W (!# !' A !' !' ! K/' ;' ! , % '&! # ! ! ! ' ' (, !' '3!) ! '
-6f' 3 #' $$! ' ! '& (!) !') & !(!' /(6 K' %' ' !' ' ! ') :# ') ! ! ! ' #' # 2 !) &H
' ' > '! !#' ' B' #) & !'(H '&!&!! !# ! F #?' ' !' ' !' ' ! ! !)R !(!! '
!! ' .

R ' !'!- ' (! '2 '! ' ! ' '',) - : $+ !(!' ! !' 1 !& !!' <Q
!' ' ') ' # !# (!) (/W ' [#!' ! ' !(H K\

T C(U% 5 '5W1' 8 ' '7(* %' +' "

3 %

/ % $0

G & ' ' ' + .Y - ' 66.'4@>.'
5J<.5# ><.7 ' ; ' '?1 76 7E' 1.' - , 5.%
.'<. /01.'>.'<' / .6>.'> - .16.6%<'7 ,<6=4 \'>.?4 6 5.'
8 ,<7?'66 '?'1'5.' 4<>8 / ,<7.' ' ; .<7=4'1'<7. = ,'71.%
< / '<>.'>.' 7, ; : ,5 /' =4 5' ' V .67%?746=4.67 ,<>' '
- ,V'J.'>4'1, '?,41' .5.160,41J%
.'>,'>.' 4>.. / '< .' .67 '57.' ' #'1 6;1,<'\' ,>' ,<
E' 7 7,40,416>.671' - '4@' '5"E5,77.%

) - %

' ' ' ' ' +' 34, =4.' ,<< ' 7 ^7'6
.<; ,1.' 1. ;I4' >.'<,4- .55.6 >.' % 0 .>4' 6 8 .<- ,V ' '
1.6>.8 ,<<.'?'1'77?, <7 ' - , 1'> <=4 .74>. ' 1 .55.6 641'
' ; : .?7'7 , '>.' 5. ;7.41'>.' '@.% <'?.<6.' / /.'=<.'5.'
71' 7.'?'17 ;45 .18 =4' '>7>; ,<E 1 / 6 5 .<71.-4.>.' 5< 708
< .67 ?, <7 >>> - ,1'05.' ' 5" <,4- .55.' ; ,<67 747 ,< >.' 5"
,5,J<.% .=<4, <6 .6 .<<. / 6 >.' 5" E>5 ; 7.' ; , / / 4<.'
,<7.<; ,1.'4<'?'17'>'<65.'1,V'4 / .% '6 .67>5.-#=4.5=4.6
/ ,4- . / .<566#> 7 . 7@>7 ?5465.<16' ;'<7,<6>.5' 704'\'
7 .8 , ' .6 / '5 <7.<7 ,<<.6 ,<764?1,E 5.1'>4' / #; ,'7.<5.G
/ .<7 '?'V6'<68 6'E' ; 5.6 ' #J'1.1% #.?.<>'<7 4< ! 1G
5'<>' 68 <, / / >' % : . , > ,1.' ,??8 :'0 74.' .< 7 :4' < .%
V' "> ,<<>' 4< 0.5 .@. / ?5.'>.' ; - 6 / .% ' "E' 7 4<.'E,<>'G
7 ,<>.67 <>.' '> ,7.1' '<<4.55.< .<78 5.' ' / ' 8 71, 6?'4-1.6
E55.68 .< / # / , 1.'>.'< ,71.' ' ; .' ; <67 747 ,<<#5%#. ; 7,V.<
. ' 7 >>0 ' ; ,<<4' ?'16,<'?'71 ,7 6 / .8 .7 5.'1, 8 '7'<E
; .77.'>.1< 1.'E.7 ,<>.' J>,>1,6 7.8 ' - ' 7 >>#,1>'>.' ,1'
>1.'>.' 7'< 65'68 .< 1. ; ,<<' 66'<; .'>.'6.66.1- ; .6 .7 >.'
6,<' ' / ,41'?,41'5"?'71 .%
< / '<>.'=4.8 >'<6 5.'&1' 7 '>.'?' @=4'6 .0>- .' .<71.'
" 466 " .7 5" ,17.8 5'V' '=1" ,< '17 ;5.' 71>6 >>5 ; '7 '
71' 5.1I' ; .6.1" ; .54' =4'1.J'1>.' '> / < 671'7 ,< .7 >7'7
>.6 >.4@?1 <; ?'<5>6>.' ,5>' - " .7 >.' '5' ; : .% <6' 5'
= .8 5,16 >4' 71' 7.'>.'?' @ >.' 'V<'1>J 8 5.6 466.6
' - ' .<7 E,1 > .6 ,1.6 ' ?1, / .771.'=< 56 < .@ J.1' .K5' '
' - .<518 >.6 >.4@%?1, - <; .68 =4.'5.'71 047 =4 ,< ' - ' 5 1>G
J >8 .7 =4.8 =4'<7 '4@' .0'<J. / .<76 E1.=4.<76 >.6 0,6?,G
>' 68 ,< >7' 7 ; ,<- .<4' =4 56 < '41' .<7 5 .< >>6,1 / ' 6
=4.' 5,16=4.'>.6 / ,7 E6 J1' - .6 5.'1.=, .11' ; <7<> ; .66'01. '
/ .'7% #.6 .<J'J. / .<76 E41.<71.<,4-.5>6 .<64 7.I / '76 5
.67 <,5, 1.' =4.' 5.' / < 671.' ,77, / '< <.'6 V .67 J4>1.' ; ,<'
E,1 / .'8 .7=4.'5">6?,6 7 ,<>.6 ?1 <; .6 6 .67 7,40,416E' 7.'
6; ,<5.'0,<'?5' 6 1'>.'5" ,17.8 / '5J1>' ; .'=4' ' - ' 5'>>67 '
?45>' ' ;E7 >J'1>% #, / < .'5 6 'J 7 '40,'1> :4'>.'5" ; ,<E 1M
/ '7 ,< >.6 71' 5>6 .7 >.6 ; ,<- .<7 ,<6 '<7>1 .41.6 ' ; .>.'
J77>11.8 5'.67?1,0'05.'=4.'R" ; ,41'>.' >5.160, 1J?1.<>1"
7 ; : .' > .'?1>- .< 1' .5K; ' ; .<7.<7 c.6 > E E>1.<>6 450>1 .4168
.7 =4 .55.' '11'<J.1" 5.6 'EE' 1.6 >.'5" ,5>' - ' .7 >.' 5"
'5' ; : .8 >.'5" / '< >1.'5" ?546 6'7 607 6'<7.8 .7 .< / >/ .'
7. / ?6 5" ?546>41'05.'?,41'5.6 : '0 7'<76 >.' ; .6 >.4@ ?1,M
- <; .6%

1 %

'$! ' ')' ' +' < - .<7 >.'?<05 .1'
5" 1>?,<6.'=4.' . / ?.1.41' " E' 7.' ' ,@1. / ,<71'<; .6 >.6
>->=4. '>.'5" ,/ 0'1> .' '471 ; : .<<.%
% % V > 7N ' .' / >/ .'=4.8 >>6 <,71.' ' - ><. / .<7 '4'
1>J<.8 <,46 ' - ,<6 ' ; :4. 55' ' - .;0,< >'5.6 1.?1>6.<7'7 ,<6
>.' '640.76 >.'5" ,/ 0'1> .' '471 .0 .<<.'?,41'.@' / <.1'
5.416 J1 .E6 .7 V 7 : 1>'>1, 7 > '?1>6 5" 1' 6,< .7 >=< 5>8 >.'
/ . / .8'466' <,46 <,46 6, / / .6 6. / ' .<; 5 < > > ; ,47.1'5.6
1.?1>6.<7'7 ,<6 =4' <,46 ,<7>7>E' 7.6 ?'1'> ; 1 7 >.'5" ?'17
>.'1' ; : .->=4.' ,7 >.6 >->=4.6 >.'5" ,/ 0'1> .8 .7 ; .5"
> '<5'<7 ?546 =4.' <,46 5.6 ' - ,<6 <- 5>6 <,46 / >= ,6 >.'
<,46 ; , / / 4< =4.1'5.416 ' - 6 .7 5.416 - , .4@8 7'47 ?'1'1'?M
?,17 '5"1.5 J ,<8 5" > 6; ?5 <.8 5.' 0 .< >51.'>4' ;5.1J>' .7
5.' / ' < .<>.' '47,1 7>'>? 6; ,?'5.8 =4.'?'1'1'???17 '4@
5 ' 6,<6 =4' .@ 67.<7 .<71.' 5.6 ?,4- , 16 > ; ;5>6 '6 =4.' .7
5'5=<.8 ' <6' =4 '4@5 / 7.6 =4' .6 6>?'1.<7% ,46 ' - ,<6
?1 6 .< ; , 6 >>1' ,< ; .'=4'4,46 " > >1. / 6 7'47?'1' '1'
; : .-#=4.'=4.'?'1'5.6 >->=4.6% '1 / '5.'J1'<>' <, / 01.'>.'
>. / ',>.68 <,46 .< ' - ,'6 71.4->' 0.'4; ,<? =4' <.6 , ,7
E,<>. .6 =<.' 641' >.6 '<; .<6 ?7>04J>6 .7 =4' >>1 - .<7>.6

?1 <; ?.6 .11,<>6>.' ; .6 7. / ?6 , ' ,< <G' - ' 7 ?'6 .<; ,1.'
>.6 <,7 ,<6 ;5' 1.6 .7 ?1> ; 6.6 641'5.6 55 / 5;6 >5'?,4- , 1' .;W
;5>6 '67 =4.%
" '<6 > '471.6 1.=4E 7.6 <,461. ; ,<< / .6 64 6' / < .<7 %
=<.'5.416 '47.416 < ,<7?'6 .<; ,1.'6' 6'7,<6 5.6 ' - '<7'J.6
=4' ,<7 1>6457>'?,41'5" 1.5 J ,<8 ?'1' =4.5=4.6 1> 5. / .<76
>.'> 6; ?5 <.'=4' ,<7 >7>'?405 >6 >'<6 5" , / 0'1> .8 ?,41'
5.' / ' <7 .< ,4' 5.' 1>7'05 66. / .<7 >.'5" ?41.7>'>4' ; 457. .7
5" 64??1.66 ,< >.6 '046 =4' >>6: .<,1'5.<7 5" 1.5 J ,<%
<E <8 <,46 ' - ,<6 71. ' - >'>.6 ?, <76 =4' <,46 ,<7?'1"
/ >1 7.1' > > 1.' ; : '<J.6I 4<.?'15 .'>.' ; .6 .0'<J. / .<76 "
>7>' .5 .;7'>.' 641 . ; : ' / ?I 5.1.67.8 =4 " 0.6, <>.?7, '
6 .416 >;5' 1; 6 . / .<768 " >7>1. ; , / / '<>>' ' <'77.<7 ,< >77
J,4- . / . / .<7I <,46 ' - ,<6 / 6< ,71.'1>6, : 7 ,< ' ; >7>'>.'
; : '=4.' '17 ;5.8 .7 71'<6 / 6' <6' <,6 1>?,<6.6 ' '1; : >4.'
J,4- .1<.<18 = '5. 'E.1"?'1 .< 18 ?,41'>71.' .@>;47>.68 '5"
; ,<<' 66'<; .'>.' '1; : .->=,.' .7 >.6 >->=4.6 >.'<,71.'
, / 0'1> .8 ,46.6?>1,<6 =4 56 1. ; ,<<'771,<7 ' - ; .'>.'
6>< / .<76>.'J1'7 74>. , .' 4.<,46 ' - , ' : 7 ?,41' >'1>'
7'05 66.1, .47>.'5.41'47,1 7>'>'<6 >.6 'EE' 1.6>.'041 > ;7 , '
. ; ;5>6 '65 =4.8 .7 ?, ,1'?1, ;41.1'44' .<71.7 .< ' ; ,<<>7.' '77
;5.1J>'>.67 <.' ' ; : '1J.' > ' .68.7 =4 '< / >6 ?'14<@>5.'
5,4'05.8 56 6 . ,7.<>1,<7 ' - .;'5.'J,4- . / .41J><>1'5 ?,41'
>?41.18 ; ,<E,1EE > / .<7 ' <,71.' - .4%.7 > ' >6' >.' 0,<6
?1 <; ?.68 ' ;457.' > - < .7 5" / ,1'5.' ; :1>7 .<<.I' ?,41'
?1, ;41.1' >4' ;5.1J>' ' ; : '1J.'> / .6 5.6 ' - '47'cI.6 =4 5'
/ >1 5.8 .7 ?,41' ' - '<; .1'5.'0,< ,1>1.' .7 5'R>] ; ?5 <.' . ; >>'
, '65 =4.8 .7 ;%
'C %G+' . / ?.1.418 - ,<5'<7 1> ; , / ?.<6.1' 5.'5'<>M
J1' - .'>.'B.66. #'66.5> ' - , 1' ; , , - .175 '<<>.'>.1< >1.8 ' - .'
4<' ; ,1?6 >.'6;671,4?.68 5.' ; ,41,4<. / .<7 [?>1 '58 "E' 7
.@?>> .1'<'?15<; .%4<'> ? > / .?,17'<7 ?1 - 5>J.' 5 / 7>'>.'
^; 1.' - >.1',<>.1< .1'1.66,175.6?1, .>6=4'6 > ` - .1,<7>'<6
5.' ; , / 7>'>.'B' '4%
' '?'1'57 >> ; >>' =4.' . / ?.1.<1'<.' ; ,<6.1- .1" 6<7' 5.%
? .>'>.'J4.11.'=4.' ,40.'1>J / .< 6 : , 1, 68 ' <6' =4.'5.6
71,4?.6 =4 ' 6.<7 >'<6 5.6 'V6 K'6% ' ; .6 >.1< >1.6 6.'
0, <>1,<7 5.6 1>J / .<76 >.' .=J.0'4.1' .7 >. .<>.1%
< / '<>.'>.'B.5<:'46.< =4>' %>.'K, / 0.55.68 =4' .67
'40,47> 04' '4'6.1- ; .'>.'K466 .' ; , / / . % K,4B5>8 "
?'66>'5.' '> ,' ; ' / , 6 ?'1' . .77.' - 55.8 - > <'<7 >.' >7.16'
0,<1J .7 '55'<7 " # 05.450%
' ?1 <; .' H1>>>1 ; #: '15.6 ,4 6 >.'%B,0.<5, : .' .67
/ ,17 " . .160. 1'8 >J>'>.'=4'1'47.''<6%
<>; 1 7 >.' #'15614 : .'&.< ,4'0;P =4.8 5.'U'> ; : .' / , e'
5" ; ,41' " >> ;5'1>' 5.' / '1 'J.' E4541' >4' ?1 <; .'H1>>>1 ; '>.'
'K'>.' ' - . .' 5" ?1 <; .66.' #:1 67 <.' ,4 6.' >.' a' / '4'
66 <J4.%
' ! 2 ' ' ' ,71.'> J<.'?1 <; .' ; ,<M
7 <4.'>.' / >1 7.1' ' / ,41' >4' ?.4?5.' .7 5.6 0, / / 'J.6 >.'5"
?,67.1 7V ' - .<7> '= ; , < <,>.1'#'<>'07.'4<'?1, .56. 71.'
6.6 640.76.7 54 8 5.=<.5'>41'57>.?4 6 ; .<7 ; <=4'<7.'<6% 5'
'0,5' 5" 6.1- 74>.'>.'5" J >0.8 .7 5.'5'0,41.41' <.' 6.1"
?546 &,<1 / .<7>'?'1' .6 #,1->.6% .' / 7' 1.'<'??5 ,6> '4'
71.G , ; ;4?'7 ,<=4.'>.'E' 1.'5" J'1>.' >4' ; :'7.'4% K<E <8
?,41'> / <<.1'5.'?, >6 >.6 . ,<7 47 .<68 77 " '0.5'&K-.1'
. / ?5, 6 <47 5.6%

) $ 2 + +

' 8 (' ' ' +' 6 / ;0 / .7 EE.<> 8
.<- ,V>' >.'5" ,17. 7 , / '<.8 .67 '>>' ' ,76>' / '?,41'
?1.<>1.' ; , J>'>4'1, % < ;1, 7 =4 5' =4 77.1" ; .77.' - 55.'5.'
C '>.' ; .' / , 6% ,47 .67>6?,6>'?,41' ,<>>?'17I 5'< '77.<>'
?546 =4.'5.6 >.1< >1.6 ,<,4- .55.6 >.'6" ; ,41%
' ">7>' ; , / / '<>>'>.'5" ?'17 >4'1, 8 '5" / '<4E' ;741.'>.'
?,1; .5' <.8 4<6.1- ; .8 ' - .'> - .16.6 '471.6 ? >. .'>.?1 @
?,41'.<E' 1.'5.' ; , / ?5>/ .<78 =4' ; , 7.1" 8 '1 @>'55.16I
/ ' 6 ?.16, 4.'<.'6'57 " =4 ; .'1'1.'?1>6.<7?.<7 1.'>.6G
7 <>%
%> 6;'16 .67?'17'> ; '?,41' 71'56 / >%

+) - %

'F ' ' ' ' +' ' .,EE 7.'>.'B'1 W'
.<- ,V>' .@71',1> <' 1.' >4' 1, '>.' ,5,J<.' .< ; .77.' ; ,418
>, 7 .<?'17 1'>'<6 =4.5=4.6 0,416?,<16.' 1.<>1.' ' '1 6 '
< ;1, 7 =4 5' .]7>.67 <>' '4'?,67.'>.'K.15 <%

I *< I' '.

' .'1, ' .5'5"1. <.=4 .K7'4Q,41_1:77'5.'?'5' 6>. ' 7'
;E,<6.'?,41' 6.'1.<>1.' ' ;;54'>.' 6;41 '5% .' ?1 <;.'
_>.6' 6541 .6' .7' 5.6' <E'<76' ,<7' '?1 6 >. <' <' 1.Q, <>1.'
%
<' " ! '>.6' <,<-.55.6'>.' #.< '8' .<'>'7.'>4' ' ',7771'
=4 ' ?<B;<7' =4.' 5.6' 6?'Jl<,56' ,<7' E' 7' <<.'6,17 .'>'<6'
5'=<. .' 56' ,<7' / 6'5.6' '41.6' .<E4 7.' .7 .<;5, ,>'?746 .416'
>.'5.<16' ;'<,<6' .7' / ,17 .16% <' '77.<>'Q<..66' / .<7'>'<6'
&;.77.' ?5' ;.' % B4.78' , ; .1J <>1'P' >4' J>< .8' =4 ' '
;:'1J.'>.'> 1 J.1'5.6' ,?.1'7 ,<6'>4' 6 >J.%
^ % >.' ,1'5.68' '?1>6' '-, 1' .@>;45>' 5.' 0, / 0'1>. / .47'
'>.' ' J.18' 6 ,671.7 1.' '4' ;'?' ?'17.58' > ,>' 5' 6.'?1,?,6.'
> '55.1' 0 .<7>7' 0, / 0'1>.1'47 .'6.;,71>.'&0 6' ;.77.' 55.%
" E1>J'5.' .6?'J<,5.' ' A ' " E' 7' 5.W'
5.' '>4' / , 6'>.1< .18' ?,41'5" B'-'<.%

%

'$ L ' ' ' ' +' <' / '<>.'>.';.77.' - 55.'
=4.'5.'?.,?5.' .67' .< <6411.;7 ,<'>.?4 6' 5.')'>.' .' / ,76' .'
H'<,8' - 55.' ; , / ?,6>.' >.' - <J7 ; <=' 0' 1.<7.' / 55.' 0 / .6%
.6' <,05.6' 3' '-' .<7' 6.456' 5.' >1, 7' >.' > 6?,6.1' >.6' 0 >6%
.' ?.<?5.' " - ,454' 6 ,??,6.1' 0' 5.41' 6,17 .8' .7' .<-,' .<' "
> >'646?.<>4% #.'?1. / .1'64;;>6 " .<0'1>'5.6' / .; ,<7.<76l'
56' 6.' 6.<7' . / ?'1 '0' / ' <' '1 / >.'>.8' 5" ; 7'>.55.% .' J, ,G'
-.1<.418' ,05 J>' >.' 71'<6 J.18' " - ,V>' 0' , / .% <' "
?1, / 76' '4' ?.<?5.'>.'6 ,;;<?.1'>.'6.6J1 .E6% " / 457 74>.'
'">,<.'=< 75>'5" ; 7'>.55.l' / ' 6'0 .<7>78' - ,V'<7' ' 15-.1'>. '
71,4?.68' 5.' ?.4?5.' " ; ,414' 6 . / ?'1.1'>.6' 5,17 E ;'7 ,<6'
.@7>1 .41.6l' .78' 64 7' / ?14>.<;.'>.'5"?'17'>.671,4?.68' 6,B'
E>1, ; 7>'>.'5"?'17'>.6' 6>> 7 .4@8' 5.' ; '<,<'> 4<.>. / 544>'
1E' 7' E.4' 641'5" 1 55.%

H # %

8 ' ' ' 'C)' ! '55>
,4 68' ?'15"J10..'>.' .4' .7' ?'1'5"5.' ; ,<67 747 ,<<.55.'
' >.' 5'78' 1, ' >.6' H1'<.' 6l' 0' 7,46' 5.6' ; 7,V.<68' 6'547.
' ' ';;.?7.'5";,<67 747 ,<l'Q . / ?5, .1' '7,46' / .6' .EE,176'
7'5" / ' <7.< 1' .7' 0' 5" E' 1.' .@7.47.1%
.'7.1 / .>.'5"1>-,545 , 7' .67' '11 ->l' 5' .677. / ?6' =4.'
5.' 1>7'05 66. / .<7' >.' ,1>1.' - .<<.' >,<<.1' 0' 5" ; ,<67SG
745 ,4' '??4 ' =4'54' .67' / ' <7.<'<7' 5.' ?546' <>. / ' 1.l' P'
.677. / ?7' >.' E @.1' ,?< ,<'>.' 41,?.'641'5" >.67 <>.'>.'
2"H1'<;.8.7' >. / ,<71.1' =4.'5.6' H1'<?' 6' 6,<7' > J4.6' > >71.'
5 01.6%
' 6' / " - J 5'<;.'.7' / .6' 6, <6' >, - .<7' .<;,1.' > 1.'6.G
;,<>>6' ?'1' 5.' ;,<;,16' >.' 7,<6' 5.6' ' / 6' >.'5" ?' 1 .' .7' >.'
5" 5 : .17>N . .67' ?'1'5"6, , / 66 ,<' '4@' 5, 68' . .67 .<' '0Q4G'
1'<7' .6?1 7' >.'?'17' ' .77,47. 'Q.6' ?'66 ,<6' =4 ' ';.,/?' '
J<.<78' . .67' ?'1'4<.;.,1.,6.' 1>4< ,<'>.' 6.<7 / .<768' >.'
-,.4@ .7' > .EE,1568' =4.'5" ; ,<67 747 ,4' 6 '5 .1 / 1'8' .7' =4.'
5"<'7 ,<' ?,411" Q,451'>. ,<6' 5.6' '-'<7'J.6' =4 .55.'54 ' J'G'
1'<7 7%
34.' 7,47.' >>.' > <7,5>1'<;.' 6, 5' >,<.' >.'17>.' ?,41'
Q' / ' 67' =4.' 5.' >>6 1' 11>E5>;0' >.' <>.?.<>'<;.' <.'6, 7'
?546' .,<E,<>4' '-..' ' / ,41'>.'5" 5 0.17>l' =4.';.6' =4'5 5G'
;'7 ,<6' <Q41 .46.68' '-.;' 5.6=4.55.6' ,<;;.1;.0'J 7.1'5.'
?.4?5.8' 6, .<7' 11>-,;'05. / .<7' 0'<< .6' l' =4.' 5.6' ,?< ,<6'
1.5 J .46.6' <.'6, .<7' ?546' <<.'6,41;.'>.'?.16>;45 ,<6' .7' >.'
:' <.6l' =4.' ;:' ;4<8' .<' ,06.1-'<7' 5.6' 5, 68' ?< 66.' 0' 6,<
J1>' ?1'7 = .1'5.' ;455.' '4=4.5' 5.67' '75'.:>l' .7' =4.' >.'?'17'
.7' > '471.' ,<'< ,451'J.' ?546' ;.4@ =4 8' .<64 -'<7'>.6' ,?G'
< ,<6' > EE>1.<7.68' ;1, .<7' ,0> 1' 0' 5.41';,<6; .<;.%
' 6' 5' <.'645 '?'6' >>- .1' 5.6' .@; '>'<6' 5.6=4.56' .6G
?1 7' >.@'J>1'7 ,<' ?,411' 7' - ,46' .<71' <.1l' 5' E'47 .<;,1.'
1. / ?5 15.6' ,05 J'7 ,<6' =4.' <>1>7' ?405 ;' - ,46' / ?,6.l'
<<.'>.6' ?1. / .1.68' <<.'>.6' ?546' .66.<7 .55.68' .67' 5.'?'V.G'
/ .'5'>.6' ;,<71 047 ,<6'>7'05 .6' ?'1'-,6'1.?1>6.<7'<76% # .67'
?,41'5.' / ' <7 .<'>.6' .<J'J. / .<76' =4.' 5 ,<<.41'<'7 ,<'5'
"1.<>46' 6' .1.68' ?,41'5" 71'<=4 55 7>' 67.1 .41.'>.' 7'58'
?,41' 6"631.7.' '4' >.0'168' . .6Q' ?,41'5"67'0 5 7.' / > / .'>.' ='
;,<67 747 ,<8' =4.'Q.' - ,46' 1'??.55.';.'>.-, 1' <> 6?.<6'05.%
7,V.<6' '1 / >6' ?,41'5.' / ' <7 .<'>.'5" 7, 8' J'1>.6' <' '
7 ,<'5.68' < ,405 .@'Q' / ' 6' =4.' . .67' ?,41' W' ?1,5>J.1' 5"
K01.7>' >.6' ?.16,<<.6' .7' >.6' ?1,?1 >7>68' 5" ?.1;.?7 ,<'>.6'
;,<517047 ,<6' ?405 =4.68' 5" ; 1;45'7 ,<' >.6' J1' <6' .7' >.6'
6406 67'<;.68' \' =4.'5.6' '1 / .6' =<.' - ,46' ?,17.0' ,<7' .7' >'1.G'
/ 6.6' .<' - ,6' / ' <6l' . .67' 0' - ,46' >.'6.<7 1' =<.'5"0467 ;.' .7'
145 5 >'1>; ?1,=4.'>. / '<>.<7' =4 .<71.' 5.6' :'0 7'<76' > 4 '
/ > / .' . / ? 1.' '0,<>'4;.' - .<<.' '4' 6.;,416' >.6' :.6, <68

.7' =4 .'. .67' 0' 5"E,1;.'?<05 =' .'0'E'-,1 6.1' '.7 ,<' >4' ;, /G'
/ .1;.8' ; , / / .'5.' / ,V.<' =4 ' 1. / >> .' 0' <5. / ?>1 .'>.6'
6' 6,<68' =4 ' 1.?'1.'7 <>J'5 >'>.6' 1>;,57.68' =4 ' 5 .' .<6. /G'
05.'1,47.6' 5.6' ?'15 .6' >4' 1,V'4 / .8' .7' =4 ' 5.41' 1.<>' ;, / M'
/ 4<.6' 7.6' ?1,>4;7 ,<6' -'1 >.6' >.'5.41' 6,5' .7' 5.41' <G'
>4671 .%
7' - ,468' =4.'5.'?.4?5.' " ;5 , 6 6' ? ,41' - . 55.1' 0' 6.6 <7.1>76l'
- ,46' '466 ' 0' =4 ' 5' " ; ,<E>1>' 5.' ?,4-, 1' 1.>,45'05.' >.'
?1,<,<;.1' 641' 6.6' 0 .<68' 7 0; / <.41'.5'5" - .'>.6' ; 7,V.<6' ^
- ,46' .<;,1.' =4 5" <65 74>6' ?,41' ; ,<; 5 .1' 5.416' > EE>1.<>68'
/ . / :1.6' >.6' > - .16' ; ,1?6' '> / < 671' E68' Q4J .6' >.671 04G'
<'4@8' Q4J .6' >.' ?' @8' Q.' - ,46' 1. ; , / / '<>.'>.'-,<6' ?.<>'
71.1' > ;' / ?,17'<;.' .7' >.' 5" > J< 70' >.' - ,6' E,<;7 ,<6l'
1. / ?7 66.0 5.6' '-.;' @ .G '-.'; ,41'J.8' '-.; / ?'15 '5 >l'
71'-' 55.0' '-.;' / , 0' 1' / .<.1' 5"?' @ .7' 5.'1>J<.' >.6' 5, 6l'
.7' .<' '6641'<7' ' <6' 5.' ; ,<0.41' >.' 5" <'7 ,<8' ?1>?'1.0' 5.'
1.7, 1' >.' ; .4@' >,<7' >, . / .<7' 0 ' '?,41' / ,7 E'=4.'5"
;1' <7.'>.6' >>6,1>1.6' .7' ' - ,5.<; .6%
7' '7,46' =4 ' ?'1' > - .16' / ,7 E6' '- .0' =4 750- ,71.'
?'71 .8' - ,71.1, ' - ,46' 1'??.5 .'?'1 / ' - ,6' ; ,<; 7,V.<6l '
- ,46' <- 7.' 0' ,>>.1' '<' - .>4' ?<05 ;' .7' 0' <7>1>7' <45 ,<' '
.-. .0' '-..' ;,<E '<; .' 6,46' 5" J'1'<7 .'>.' " 5, 8' .7' ; .'
1.5,41' : ,<,1'05.8' '4' / , / .<7' , '5" ; ,<67 747 ,<' - .<7' > >71.'
>>5 7 - . / .<7' '11>7>.8' 1.<>1" ?546' E' ; 5" .7' ?546' ?1, / ?7'
5.' 1>7'05766. / .<5' >.' ,1>1.' .7' >.'5"71'<=4 7>8
7' - ,468' ?.4?5.' E1'<.' 68' <'7 ,<' .> >01.' >.?4 6' 7'<7' >.'
6 0;5.68' / ,<51.0 46' / 'J<'< / .' .7' J><>1.40' '4' / , / .<7'
,0' - ,71.' 5' 0.150' .67' 'EE.1 / .l' 1.?1.<.0' - ,71.' : .41.4@ ;' '
1'.7>1.l' =4.' - ,71.' / ,>>1'7 ,<' .7' - ,71.' 60J.66.' E'66.<7'
1.<'571.' ;0.0' - ,465" 6.;41 5>' =4.' 5.6' ,1'J.6' >.' 5" 1.- ,54M
7 ,< .<' '-' .<7' 0'<< .8' .7' =4.' - ,71.'1, 'Q<4 66.' >>6,1 / ' 68'
6'<6' <=4 .74>.' .7' 6'<6' 71,405.8' >.' ; .6' 7> / , J<'J.6' > 'G'
/ ,41' .7' >.' E >>5 7>' =4'?.4- .<7' 6.'56' '6641.1' 6,<' 0,<0.41%
H' 70' '1 68' 5.' - <J :4 76.?7. / 01.' / " 0?7' ;.<7'=4'71.G'
- <J7 ,40.% <>' %
&'?546' ' 4666 K76'
' '8
6 K' K' , ' " ' % ' ' / ! K' =7Q7'
/ ' 1 ' [.<7'C*%
' F ' ! ,78' <6,<8' : ,<>. '#5 ' / <.>
' '9 F' K1 >1.' >.' 41JV8' '1, ;0.E,4; '<5>8'
<;.5 <8' ' 55,78' 5.@'<>1.' ' / .708' .55'1>8' ; / '47,17
! 1' - .1'>.' ;1J.<<;6%

K

' % " ' '
\ ' F ' 'F ' <
' ' ' !K ' 5' *' K %
' ' ' 'F ' !
3 4 '<7' 2' 5"17 ?WT GG,<8' - ,71.' ; ,7< 7>' - ,46' 1.?1 '
6.<7.'6'<6' '4;4<' ; :'< / .<7' ; .55.' =4.' - ,46' '-.0'
>..1>7..'5.'C(' / '7' >.1< .18' <,<' ?'68' ; ,7< / . 5' - ,46'
" >.Q" > 7' > '<6' 5.' 7. / ?68' =4 5' 5" ;1E77' ?'1E' 5.8'
/ ' 6' ?'1;.' =4 .57.' >7' 7' .7' =4 .55.' .67' .<;,1.' 5"
/ , <6' >.E.;74.46.' =4.' - ,46' ?4 667.0' E' 1.l' >.?4 6'
;.77.' .?,=4.' 5' " 1.?4' >.6' 1.;5' / '7 ,<6' >.?546 .416'
>.?'17.< .<76% 5"1.;,<<4'=4.5=4.6' .11.416' >'<6' 6.6'
;'5;456l' / ' 6' 5' < .67' ?'6' 547G< > / .' '66.0' ; .17' <'
=4.'6.6' 0'6.6' 6, .<7' 5" 1.?1.6.<7'7 ,<' .@';7.'>.'5"
?1,?,17 ,<' >.6' 1 ; : .66.68' ?,41' '??1. ; .1' '-.;'<:.'
.<7 .1;' 6>1.7.' E54.<;.'>.' ; .6' .11.416l' 7,<6' 5.6'
1.<6. J<. / .<76' =4 5" 1.?46' 6.1,<7' 71' 6 / 6' .<' 0,<'
,1>1.' " - ,6' 6 ; ; .66.416l' 75' <- 7.' <>7<.' ; ' % 5.6'
>.?47.6' =4 ' - ,<7' 1.7, 41<.1' > '<6' 5.<6' ?'71 .8' .5'5. "
'> / < 671'5.4 ' >.'7,46' 5.6' >.?'17. / .<768' " E' 1.'
?'66.1' 5.' ?546' 7 7' ?,66 05.' " 66. / 0 . .'<'7 ,<'5.'
5.J 65'7 - .' 7,47.6' 5.6' 54 / 01.6' ?1,?1.6' " 54 '7' 1.'
; ,<<' 71.'5"6 74'7 ,<'1.6?.;7 - .'>.6' > 1.16.6' ?'17 .6'
>.5 . / ? 1.
,46' '4'5' 66.0'4<.6 , / / .'>.'9' / 55 ,<6(8 %
641' 5.6' E,<>6' >.' <,< - '5.4168' >.' (* l' .57.'41"
?'1'5.' / > / .' E,<>68' .< (* 8 ' / 55 ,<6l' ; .'6.1"
>,<.' (' / ,<6(8 ' -% =4 .55.'?,411" > 671 '
04.1' .E7' >>J10- . / .<76' 4' 6.;,416' ?,41' 1>?'1.15.6'
.11.416' =4 ,55 ' '41" 1.;,<4'.68' ,4' 5.6' / '5:.416

3+ ('D'$ ''3. '.+44 *("4+.'($ +* (*$($$$' .' +' "$(' - '. (' '3('-(',$* (/ + ''$,-,'+4.,('5 (' - $+,(*'+ .+'-,-' +..(,-'4+.' (" -$.(3, $$%(" -(' - 4+.,((*,/ ' .' +0$" -3" -$.(3, $.3" -(' -$',.$3,/ ('- +4.,(' +'-(+*-(' -(" $3 !' 4+ $ -'

W"' % .6'> 1.;7, 1.6'>.'>>?'17. / .<7'?,411,<7.<-,V.1' 5.6' <6?.;7.416,4' - 6 7.416'>.6'1,5.68';1>>6'?'1'5"5,'>4%%%8' 6.?7. / 01.' (* 8'>'<6' 5.6' ;, / 1'4<'45>6' =4 '5.6'>. / '<' >.1,<78' .7'>'<6';.57.6' >,<7'&.6' / '71 ;.6'>.' >5.6' 6.1' .<7' .<' 1.7'1>8' ?,41' 5.6' ' >.1' ' ?'1';5 .1.1' 5.6> 7.6' / '71 ;.6' >.'19 .6%

W" % .6' ?1 ,; ?'<@' >.6' ;,<71 047 ,<6' E,,; 1.' .7' / ,0 5 J1.8' ?,41' (*C8' 6.1,<7' 1>?'15 6' .<71.' 5.6' = '71.' - 4J7 71, 6'>>?'17. / .<76>4' 1,V'41'.'' <6' =4 5'64 7N

& .'7'05.'4' .67';,<5,1 / .'7';. <'>''C(' / '' (* %P

W" "% .6' 7'@.6' >.' .<1.J 671. / .<78'>4' 7 / 01.8'>.6' ?'7.<7.6' .7'>.6'>,4'<.68' 6.1,<7'?.<I4.6' .<' (*C';<<E01 / >' / .<7' '4@' > 5a1.<7.6' 5, 6' =4 '5.6' ,47'>7'05 .68' .7' =4 '.<' ,47' 1.J >5"?.1;.?7 ,<%S' %

% 'E'4>1' 7' =4 ' - '<7' >.' 1.<>1.' ;.' >.;1;7' 66. / 05..'6.'E 7'1.<>1.' ;. / ?7.'>.' .67 / '' 7 ,<'>.6'>>?.<6.6' 5,;'5.6' >.6'>>?'17. / .4768' .7' '?' ?1 7' '4@''>/ < 671'7.416' = 1.' 7,47.65.416'>>?.<6,6' 6.1,<7' 6>-.1. / .<7' <6?.;5..6' ?'1' 5" 5.J 65'741.% '<6' ;.5" 5' '11 - .1" =4.' 5.6' ;,<71 04'05;6' 6.1,<7' 641;:'1J.6' .7'?'1'1 / ?,6 7 ,<'>.' (*C8' .7?'11 1' ' ?,6 7 ,<' '11 >1..8' .7' 6417, 7' ?'1' '6,46' '>> 7 =<' <.56''10 71' 1. / .<7' 7'05 6'?'1'5.6'>.?'17. / #<7E%

% K #K 4; 447N 66. / 05>.8' .<' >.6 ' J<'<7'5.6'>.?.<6.6' =4 '>.1' .<7'>71.'''5"; :'1J.'>.6' >.?'17. / .<768' .7' .<' E @'<7' 5.41' '"U' 6,46' ?,41' 5 -1.' >.6' ;,<71 047 ,<6',1> <' 1.68' ''>>.1 7>' =4 '4;4<.'1.>4;7 ,<' < V' 6.1' 7' E' 7.' =4.'?'1'5"5.

$ 65'741.64 - '<7.8' =4 8;, <?,6>.' .<' J1'<>.'?'17 .' :, / < .6' =4 ' '41,<7'>/ < 671>8' 6.1" ?546' "?,17>.' > '??1>; .1' ?'1'5" ?1'7 =4.'5.6' <;,<-><.<76>.'-,' 71.'5, %' .6''>/ < 671'7.416' 6.1,<7'> ' 55.<E61.7.<46' ?'1'5.'Q467.' / .;,<7.<7. / .<7'>.6''>/ < 671 '641'=4' ?.6.1' .<7' 5.6' 641;:'1J.6' 5,;'5.68' .7' 5" 1>>4;7 ,<' ?1,;:' <.'>4'<, / 01.'>.6' > 671 ;76'> / <4.1'';,<6 ' >.1'05. / .<5;.6'>.?.<6.6%

>% 'N .'>. / '<>.' 5"=4.67 ,<'?1 '5'05.' 641'5.'?1,Q.7' >.' >>.1.7 ' ;'1' - ,46' <.'E.1.0' 1 .<'641%

<?>7' =4.' '64;;.66.416'<.'6, .<7' ,05 J.6'>.'1. ' ;, / / .<;.1%

%!%' 'N #.'=4.'<,46'>. / '<>,<6'1 66. / ' 05..'. .67' >.' ?1,1,J.1' ?,41' (*C' 5.6' ;,<71 047 ,<6' =4 .55.'" -,7..6'?,41' (* 8' 'E <'=4.'5" c .1;.?7 ><'<.' 6,45E1.' ?'6'> <7.114?7 ,<8' .7' =4.'5.6'145.6' ?4 66.<7' 71.' E' 76' " 7. / ?6%' ,46' 6, / / .6' ;.17' <6' =4.' 5" 6, / / .'>.';.6';,<71 047 ,<6' <.'6.1" ?'6'71,?'E,17.' I' 6'.55.' .67' 71,?' E' 05.' 5"5.J 65'741.' =4 ''41"';,<M 67'7.'5.6' 0.6, <6' / ?,6.1''>.6' 6,46''>> 7 ,<<.56%' .' >. / '<>.'>,<.'=4.' ,<' 55.''4@'-, @%

.'?1,Q.7' >.'>.;1.7' ?1.6.<76' ?'1' % '1,.0.E,4' ;'45>'.67''>,?76%

% & ' ,46' - .0.<7.<>44:.,06.1-'7 ,<' >.' % '5,4.7%' '-,46''> 7' =4 4 '>.6' <;,<-><.<76' >.' '17 ;5.' '>4'>>;1.7' >4' ;, / 7.' 641'5.6' / ?,6 M 7 ,<6' 7' 7' =4 ,<' 5' 66' 7' 5.6' >.?'17. / .<76' / '771.6' > / ?,6.1' 4<.'6, / / .' '10 71' 1.' >.' 6,46' '>> 7 ,<M <.56%' ,46' - ,<6' 1 ?,<>4' ?'1' 4<.' - >1 7>' 6.<7 .'>.' ?4 6' 5,<J7. / ?6'>'<6' 66. / 05..N . .67' =4 .<' E' 6'<7' ?.6.1641'5.6''>/ < 671.6' 5.6' >.?.<6.6'?'17 ;45 1.6' >.6''>/ < 671'7.416' .7'>.6';,1?6''>/ < 671'7 E68' 5' V' <' - ' 7'>'<6' 5" 1.6?,<6'0 5 7.' / ,1'5.'>.6''>/ < 671'' ' 7.416' 4<.'0,<<.';'47 ,<'>.'5"1.>4;7 ,<'>.';.6' 6,46' '>> 7 ,<<.56%' <' 5' 66'<7' 7'<7' 5.6' 6,46''>> 7 ,<<.56' =4.'5.6'>.?.<6.6'?'17 ;45 `1.6' "5";:'1J.'>.6>.?'1' 7. / .<768' - ,46' - .0' ?.<6>' =4.'-,46',? 1.1 .0'?'1' 5"5"1 ;7 ,<' >4' 71,?' J1'<>' <, / 01.' >.'> 671 ;76' =4 '.@ 67.<7' .7'>.6'>.?.<6.6' =4 56' ;;'6 ,<<.<7%' <' ;,<6.=4.<;.'>.';.'?1 <; ?.8' - ,46' - .0' >>;1.7.'=4.' 5.6''>/ < 671>6' E.1' .<7' ;,<<' 71.'5.416' - ,.<@'?,41' 5"'& 4;7 ,<'>.6'> 671 ;76G8' / ' 6' >.?4 6' 5.6'>>;1.76

=4 ' ,47' 7'05 ';.6' > 6?,6 7 ,<68' 7' " >7>' <7.1> 7' '4@' '66.7<05.. ` ?1 / ' 1.6'>.'>.5 0 1.1%' 'E'47'=4.'5.';,M / 7V' >.';,<67 747 ,<' - .4 55.' 0 .<' - ,46' '??,17.1';,' 6, 1' 4<' '17 ;5.'=4 '.@?1 / .'=4.'5.6' > 6?,6 7 ,<6' =4 ' <7.1> 6.<7' 5,<7.'>.5 0.1'7 ,<' '4@' '66. / 05>.6' ?1 ' / ' 1.6' <.' 6 ,??,6.<7'?, <7'' .@.;47 ,<'>4'>.;1.7' =4 '5.6''47,1 6.' " . / .771.' 5.41' - / 4' ?,41' 5" 1.>4;M 7 ,<'>.6';,1?6''>/ < 671'7 E6' .7'>.6' 71 04<'4@' =4 '6.' 71,4-.<7'71,?';,<6 >.1'05.6%

"?1,?,6 7 ,<'>.' % ,.>.1.1' .67''>,?7..%

' B'N .'>, 6' 1'??.5.1' ' 66. / 05..'4'7 ,G' K'5.8' =4.8' 5.' CC' <, - . / 01.>.1< .18' Q.' 54' 1.<> 6' ;, / ?7.8''4'<, / '>4';, / 7.'>.'5 =4 >'7 ,<'8> 4<.'64 7.' >,?.1'7 , '=4.'Q.'<.'=4'5 E .'?, <78' '' '>.'>.6' =4.55.6',<' E7' 7' ?'1-.<4' "F.<5.-.1' ?546'>.' C / 5M 5 ,<6' '4' 71>6,E' ?405 ;8' ?,41' V' 64067 74.1'5"?1.7.<' >4.?1,?1 7.'5 V' >.6' =4'71.'; <=4 . / .6>.' .7'05 6' 6. / .<7>.6' .'4@'>.' '1 6I' C V'>.6' =4'71.; <= ., .6' > 4<.';' 66.' ,7' .7' .<7' >.?,6.6' .<- 10<' ' / 55 ,<6' =4 ' ,<7'> 6?'148

66. / 05>.'<'7 ,<'5.''-' 7 ,1>,<<>' 5" 1. <7 '7 ,<'>.';.77.'6, / / .' .7' 6,<'>.? 7' '471. 6,1'?4 '

.'I / ' 68' 6414<.'>.<,<;'7 ,<Q5'<65'=4.55.,<'' ?1>7.<>4'=4.' / ,<'1'??,17' .7' 7' <.@';78' 1.@.;45 ,<' >4'>.;1.7' " .7.646?.<>4.%' '<6';.7' .5'7'>.6' ;:,6.68' ' 5"5.J 65'741.' E < 78' 5.' ;, / 7.'> 6?'1' 78' .7' ';;46'' 7 ,<' 6406 67.%' .'?.<6.'=4 5' .67'>.' / ,<'>.-,18'>.' / " >.5 ;'7.66.8' .7' 6417,47' >.' <7.1>7' <'7 ,<'5' >.' >. / '<>.1' ;'7.' " 66. / 05.;'<'7 ,<'5.'>.'5"'>.;5'M 1'7 ,<' 64 - '<7.' =4.'Q ''>;1 7.' '4' 0'6' >4' 1'??,17' =4.'Q ' - ' 6' E' 7%' %

W V'<7' .7.''; ;46>' >. - '<7' 66. / 05..'<'7 ,<'5.' >.' '-, 1' <>4 5.' .<'.11.41' ?'1'5.' ?1.6.<7'1'??,178' .7?'1' .EE.7' >.' ;.77.'';;46'7 ,<' .@>;47 ,<'>4'>'' ;1.7' =4 ' ,1>,<<.'4<.'1.67 747 ,<';,<6 >. 1'05.'.7'<7' 646?.<>4.'Q46= '';.'=4.'5.6' E' 76' 6, .<7' - .1 5 .68' Q.' >>.5'1.' =4.'Q .<7.<>6' >. / .41.1' J'1'<7' .7'?.16,<' <.55. / .<7' 1.6?,<6'05.'>.' .@';7 7 >.'>.6' E' 76' - '<' ;.6'>' 6';.'1'??,17I'=4.'Q .<''>'<6' / .6' / ' <6' 5.6' ? .;.6Q467 7 ;'7 - .68' ;7' =4.'Q.'5.6' 1. / .771''"7,45.' 1.=4 6 7 ,<'>4';,1?6' 5.J 65'7 E' =4 ' - '1 ,4664;;.>.1%G' %

66. / 05>.'>.;1.7.' =4 ' 6.1" E' 7' / .<7 ,<'>.' ;.77.'>.;5'1'7 ,<'>'<6' 5.'?1,; 6 - .10'5%' 888

'I ,46' - .0' ?5';.'>'<6' 5.'5 .4'>.' '6>'<;.6'> EE.1.<76' ,0Q.76'>.67 <.6' " ;,<6';1.1'5.6' 8 ?1 <; ?'4@' .-.<. / %.<76' >.' 5" 1.-,547 ,<' E1'<;' 6.% ';;.?5'7 ,<'>.'5" ;,<67 747 ,<'?'1'5.'1, ' / .'G6. / ' 05.' 4<.' >?,=4#' '66.0' / . / ,1'05.' ?,418' >71.' 6'<6' ..66.'?1#6.47..''4@' V.4@' >.' ' '- '>.' 6 1.1' 6' =4.'5.'1, 'E47 <- 7.''>,< .1'6,<'?,171' 7' '<' ;,1?6'5.J 65'7 E%' , . 8' U' ;.64Q.78' 5.'?1,Q.7' >.'>.M ;1.7' =4.'Q '' :,<<.41'>.'-, 6' ?1,?,6.1N

' 66. / 05..'<'7 ,<'5.'>. .1 7.' =4.'5.'#,' 6.1" ?1 .'>.'E' 1.'?1.6.<7'>.'6,<'?,171' 7' '4';,1?6 .J 6 ' 5'7 E'?.1 / '<.<78'?,41' X71.'?5';.'>'<6' 5.'5 .4>.6.6' 6.'<;.6I' =4 5' 6.1" <- 7.' " 6 V' E' 1.'1.?1.6.<7.1'7.M <'<7' 2'5" / ' <' ';7.';,<671747 ,<<.5' =4.' " 'Q.67>' 1,V'5.'"';;.?7.8' .7' 5.' ?1.6.47'<7' " 6,<' E 56' 5.' ?1 <;.' 1,V'58' ;, / / .' 5.'>>?>7 6';1.' =4 5' >, 7' 4<'Q,41'541' 71'<6 / .771.%G

#.'?1,Q.7' >.'>.;1.7' .67''>,?7.8%

+' 41'5.'1'??,17'>.' % .1< .18' 5.'>.;1.7' 64 - '<7' .67' 1.<>4N

W 66. / 05..'<'7 ,<'5.'>..1 7.' =4.'5'71.6,1.1 .' <'7 ,<'5.';,<7 <4.1''>.'E' 1.'5.6' ' - '<;.6' <.;.66' 1.6' ?,41' ';=4 7'>.'7,<7.65.6'?'17 .6'>.'1.<7.68' ?.<6 ,<6' .;;5.6 '67 =4.68' <7.1>76'>.' 5"'>.77.'?405 =4.'.7' 1.<M 7.6' =4 ' 1.67.1' .<7'>4.6' '<7.1 .41. / .<7' '' .?,=4.' >4' 5.-'Q4 55.7' (* 8' ' <6' =4.'5.6' .E .76' '<7.1 .4168' ;,<E,1 / . / .<7' '4' >.;1.7' >4' (''-1 5' >.1< .1I' .7' 5" ;' 66.'>.' .@71',1> <' 1.';,<7: / .1''>.'1. / 0,<16.1' '4' 71.6,1' ?405 ;8' / ,76' ?'1' / , 68' 5.' / ,<7'<7'>.';.6' ;1>'<;.6%' "71.6,1.1 .'<'7 ,<'5.';,<7 <4.1" 7 .'1.<M >1.' 4<' ;, / ?7.'?'17 ;45 .1%' %34'<7' '4' 1.67.'>.6>>

>4'1,VE54 / .I' .7?, 41'5.6' 1 7 .16'>.6'06.<768'5.>. ' '
>.' 6 @ / , 6 <.' ; , / / .<; .1' " ; , 41 1'=4.'>4'Q, 41'
=4 56' 41, <7 ?1 6 5" 64 ; ; .66 , <I' .7' .<' ; '6'>.' 1.7, 41'
>.' '06.<78'5.6'>1, 76'6.1, <7' 1.67 74>6% \

W" % .6'1.<7.6' ; , <67 74. .6' .7'5.6'1.<7.6' - 'J>1.68'
6.1, <7' ' ' - .< 1' '664Q. 7 .68'>'<6'7, 47'E.'1, V'4 / .8'
; , < / .'7.568' '4@'>1, 76'> .<1.J 671. / .47'c @.]'641'5.6'
/ / .405.6'E ;7 E6IY

d" % .6' < , 7' 1.6' .7' '471.6' , EE ; .16' ?405 ; 6'=4'
6.'71, 4- .1, <7' .<' ; , <71' - .<7 , <' '4@'> 6?, 6 7 , <6'>.6'
'7 ; 5.6' .7 " ' 6.1, <7' '664Q.77 6' .'?'V.1'>.4@'E, 6'5.'
/ 41 7'<7' >.6'>1, 76'>.6' ' ; 7.6'=4' < '<1, <7' ?'61. ; 4'
5" E, 1 4'5 7.'>.' .<1.J 671.< .<7%Y

W" 8' .6'?1.?, 6E.' <.'?, 411, <7' .@ J.1'>.6'?'1M
7 .68' ?, 41' 5.6' 1. ; : .1. : .6' .7' ?, 41' 5.6' .@71' 76'=4'
5. 1'6.1, <7'>. / '<>.68'= .' '6, 46'?'1'<<. .' <> '
=4 .8' .7 6, 46?'1'.@71' 78'V; , / ?1 65.'?'? .1'7 / 01.%
W#.6' .@71' 6' <.'?, 411, <7' .71.'>.5 -1.6'=4.'641'
, 1>, <<'<; .'>.'Q4J.8'5, 16=4 56'<.'6.1, <7'?'6'>. / '< A'
>.6' ?'1'=4.5=4 4<.'>.6' ?'17 .6' ; , <71' ; 7'<7.6' , 4'
; 416'V'<76 ; '46.%$

W" % "?1.6 ; 1 ?7 , <'>.6'>1, 76'> 6'641'>.6' ' ; 7.6'
?405 ; 6' '<5.1 .416' " 5" 5, '>4' *'>. ; . / 01.'>.1< .1'
.7'5 , <' <6 <4.6%'41"5 .4' '?1 ; 6' ; <='<68' ; , < ?7.1'
>4'Q, 41'>.5.41'>'7.%Y

$" % " E, 1 / .'>.'?1, ; .>41.'?1.6 ; 1 7.'?'1' '1'
7 ; 5." " '>.'5" 5, '>4' *'>. ; . / 01.%6.1"64 - .?, 41'
7, 47.6'5. ' <67'<; .6'1.5'7 - .6' '4@'>, / ' <.6' .7'>1, 76'
>, <7' 5" 1>J .' .67'1.4< .' " ; .55.>.' .<1.J 671. / .<7%
$" 55% , 47.6' 5.6'=4 77'<; .6'>.'1. / 0, 416. / .47'
>, EE ; ?6 8' >.57.6' '11 .1>.6' .7' '471.6' ; 1. '< ; .6'641'5.%
71.6, 1'?405 ; 8' .@ ; .?7. .6'>.' 5" E, 1 / '5 7V' .7'>4'>1, 7'
> .<1.J 71. / .<7'?'1'5.'>. ; 1.7'>4' ' ' - 1 5' (* 8'6.M
1, <7' .<1.J 671>.6'>'<6'5.'>.5' ' 0@>'?'1'5" 5, 8' / ' 6'
'4'6 / ?5.'>1, 7'>.' '6, 46'?, 41'6 / ?5.'E, 17<'5 7>%G

H%

'4'WD >;'

$' 17%5.1%' .6'>1, 76'> .<1.J 671. / .<7'6415.6' ; '4'
7 , <<. / .<76'<.'?, 411, <78' .<'4 ; 4<' ; '68.@ ; .>.1. .4@'
?.1 46641'5.6'> 6?, 6 7 , <6'=4 56' , <7' ?, 41' , 0Q.7%Y

'4<p' '5 .' (

$' % .6'>. ; 5'1'7 , <6' ?1.6 ; 1 7.68 ' " 5" 6. . , <>.'
6. ; 5 , <>.'5" ?1. / .1.' ; 5'66.8' '4@'>?, 4@'641- - '<768'
>.6'5 .<6'>, 5' 56' 1. ; 4. 55.<7' 464E14 78' ; , / ?1.<'
>1, <7'5.%6 0 .<6 / . 05.6' ; , / / .'5.6' / / .405.6%Y

'9W' #

W' % .6'>1, 76T 41'7, 46'5.6'0'4@' " - .8'6, 5'=4 56'
6, .<7'641' 4<.' , 4' ?546 .416'7.7.68'6, <7'5 @.6' " _ '6, 46'
?'1' ! ! '5 11.6'641'5.' ; '? 7'5 4'>.< .1' %$%

T, 'N' 8'

$' % .6'6 J< E ; '7 , <6' .7'>. ; 5'1'7 , <6'> '??.5'>.6'
Q J. / . 76' '4' 71 04<'5'>.'> 671 ; 7'=4' >, 7Q4J.1.<'
>.1< .1'1 . 6 6 , 1 7 8

'C(' (* %

$' 17%7.1%' "1. / 6.'>.'^'?, 41' 8' ' ; ; , 1>. .'?'1'
5" 5, '>4'C(' / ' '>.1< .1'?, 41'5.6'1. ; .- .416'>.6'>1, 76'
>.'5" 1.J .'>.' .<1.J 671. / R<78'6.1" 1>?'17 .'?'1'5.6'
1.J 66?416' .<71. 7, 46'5.6'1. ; .- .4168'>'<6' 5" ?1, ?, 1M
7 , <'=4 56'Q J.1, <7'5" ?546' ; , <- .<'05.8' " 5" ; : '1J.'
" .4@'> .<'E' 1.' '11>7.1'5.'7'05. '4 ?'1'5.' / < 671.'>.6'
; , <71 047 , <6%

% " 1>J .' .67' '47, 1 6>.' ' '4J / .<7.1'5.6' . / Y'
?5, V>6' >.6' 041. '4@'>.' ; , 11.6?, <>'< ; .8' .7' '5.41'
E @.1'>.6' 71' 7. / .<76' .7'1. / 6.6'1.5'7 E6' " ; .4@'>.6'
. / ?5, V.6'>.6' / / .6' J1'>.6' ' ; 74.55. / .<7' .<' .@.1'
; ; .8'5.6=4.56'71' 7. / .<76' .7' 1. / 6.6'6.1, <7'?1 6'641'
5" 1. / 6.'>.Q '>.' '?, 41' ' ; ; , 1>. .'?'1'5" 5, '>4'
C(' / ' '7 ?, 41'5.6' E '6'>.6' 041. '4@'>. ; , 11.6?, <'
>'< ; .%$

(* %

W .6'1.J 671.6' , 4' / <47.6'641'5.6=4.56'5.6'J1.E'
E .16'>.'7, 46'5.6'71 04<'4@' ?, 17.1, <7' 5.6' '>Q4> ; 'M
7 , <68'5 6 ; '47 , <<. / .<768 ; 6'EE 1 / '7 , <6>.' - , V'J.8'
5.6'?1.6.<7'7 , <6' .7'5.6'>. E'4768'5.6' .<1.J 671. / .< 6'
.7'?405 ; '7 , <6'>.6'7.67' / .<768' >47 '7 , <68' 64067 74M
7 , <68'5.6' .@71' 76'>.6' ; , 1 71'76'>. ?, 6>6' " .E .7'> , 5'
7.< 1>.6'5.771.6'>.'1'7 E ; '7 , <8'6.1, <7' '664Q.77 6' '<'
7 / 01.%
W .6' / <47.6'>.6'?1, .E.6 - .10'4@'> '??, 6 7 , <' .7'
5.- . '>.' 6 ; .55.68' > <- .<7' 1.8' > . / '< ; ?'7 , <8'>.'
747.55.' .7' ; 41'7.55.8'6.1, <7' '664Q. 7 .6' '4'7 / 01.%
$#0' ; 4<'>.6'=4'71. - <J7'71, 6'> 1. ; 7.416'>.' .<
#671. / .<78'>, / ' <.6' .7' >1, 76'1.4< 68'6.1"7.<4'>.'
. / .41.1>'<65" - 55.' ; : .7 5 .4'>.'>.?'17. / .<7%
W' .6'Q J. / .<76'>.6'71 04<'4@'>.'?' @' .7'>.' ; , <M
; 5 '7 , <'6.1, <7' '664Q.77 6' '4' / . / .'>1, 7=4. ; .4@'>.'
> 671 ; 7%Y

'D>4' '5.1%

$' % .6' < , 7' 1.6' <.'?, 411, <7' <6714 / .<7.1'6'<6'
; , <<' 71.'5.'< , / 8' .7'7' .7' 5" >. / .41.'>.6'?'17 .68'
, 4' 6'<6'=4 56' 5.41' 6, .<7' '77.67.6'>'<6' ' ; 7.'?'1'
>.4@' ; 5, V.<6' 'V'<7' 5.6' / . / .6'=4'5 7.6'=4.' ; .55.6'
1.=4 6.6'?, 41'>71.'7. / 4 <' <67141'.<7' 1.%$

FK 9

$' 8' .%6' < , 7' 1.6'?, 411, <78' 641' 5" 1.=4 6 7 , <'
> 4<.'?'17 .' < 1.66. .8'1.?1>6.<7.1'>'<6'5.6' <- .<7' '
1.68' - .<7.68' ; , 1<?7.68'?'17'J.6' .7' '471.6' , ?.1'7 , <6'
' / '05.68'5.6' '06.<76'=4' < '41, <7'?'6'>.'E, <>.'>.'
?1, ; 41'7 , <' 6?. ; '5.' .5' '47 : .<7 = .8' / ' 6' 56' <.'
?, 411, <7' .<' / . / .'7. / ?6' <6714 / .<7.1'>'<6'5.6>7.6'
, ?.1'7 , <6%G

% .?.55.5 .1'?1. 6.<7.'71, 6' '17 ; 5.6'>.'5" 5, '14'
1'5.8'1.<- , V.6' '4' ; , >.'?. <'5I' 56'6, <7' ' <6' ; , < 46N
W' 17% F%' , 47' - , 5'>.' ; : '114.8' <6714 / .<7' '1'7, 1.8'
0.67' @8' ; : .- '4@' , 4' '471.6'0'7.6'>.' '71, 4?.'4 8'
14 ; : .6'> '0. 55.68'?, 6, <6'>'<6'5.6'#5'<J6' , 4' - - .16<6'
5 , <'@' .7'?'17 .455.1J8' / '1.0'<> 6.6' , 4' .5E.56' .@?, 6.6'
641'5" E, '?4057=4.8G6, '>'<6'5.6' ; ' / ?'J4.68'6, 5'>'<6'5.6'
; 5 .1, <68'6, 7'>'<6' 5.6'E, 1.6' , <' / '1 ; : .68' , 4'7, 46'471.6'
5 .4@' ?405 ; 68'6.1" ?4<'>.'=4'71.' '<<#.6' >.'>. .<5 , <8'
.7'>.'6 @ 6'5.' ; 1 / .' " #7.' ; , / / 6'5" <4 7%
. % , 47' - , 5' ; , / / 6'>'<6' 4<' .<>1, 7' ; 5, 6' .7' .1 / #85.'
<'<7' / / #>'7. / . <7' " 4<.' / 4 6, < 0'0 5>.8'6 1" ?4< >.'
" ?. <.'>.'=4'71.' '<<#.6'>.'E.16% " >41#.>.'5" ?. <.'
?, 17#.' '4'?1.6.<7'15 ; 5.'6.1" '4J / .<7. .'>.'>.4@' <. .6'
?'1' ; 0' ; 4<.'>.6' ; 1 ; , <67'<; .6' 64 - '<7.68' >, <7'5.' ; 1 / .'
6.1" ' ; , / ?'J<.% " ?1. / #1.8'6'5. ; 1 / .' . ; 4< 4 6'
5" <4 71'5" 6. . , <>.8'6 5' " >7# ; , / / 6'?'1'>.4@' , 4' ?'1'
?546 .416'?.16, <<.6' 1#4< .6'N 5" 71, 6 # / .8'6'5. ; , 4?'05.'
, 4'5.6' ; , 4?'05.6'# ' .<7' ?, 17.416' > '1 / .6' 'E.48' , 4'>.'
7, 47.' '471.' '1 / .' / .4<1 #1.%
W' % , 47' - , 5' ; , / / 6'>'<6'4<'7.11' <' ; 5, 6' .7'E.1< #8'
/ ' 6'=4' <.'7 .47'?'6'> 1. ; 7. / .<7' '4<.' / ' 6, < : '0 7. .8'
6.1" ?4<'>.'5" ?. <.'>.'=4'71.' '<<#.6'>.'>. .<5 , <'I' 5"
?. 75.'6.1">.'6 @'<, >.6 6' ' ; 1 / .' " > > ; , / / 6'?.<>'<7'
5" <4 78'G
#.6'71, 6' '17 ; 5.6'6, <7' , ?7>6%
+$ 41'5.'1'??, 17'E' 5'?'1' % #' / 468' 5.6>. , 1.56'
4 - '<76'6, <7'1.<>46'
'W' 66. / 05>.'<'7 , <'56'8' , 455.'1'?M
?, 17'>.'6, < ; , / 7>'>.6'?.<6 , <68'>> ; 1>7.'
G34.'641'5.'E, <g'>.')' / 5 , 46'>.6 <>6' ' , @' J1'>

? '5 >.6 34<0.\ 7 J7 č.7\' .< .'7 > <64EE 6'<..7 6<15.'
H9] ,1'<'7 ,<'5N
$ G <<4.55.;<.<78 .7 ˜;, / ?7.1'>4 G Q'<1 .1'>.1< .18
5"6, / /.'>.' 8* '5 -% ?,41'5.6 :,<,1' 1.6>4'?1. / .1 <'
67 74 .'18 >4'6.;,<>8 > K '>Q, <78 >.'>. " <6?.;7.<16
;:. 6 > '7.5 .168 >.'>.>'J,4 . / '<7.">.'E .68 / '57;. "
>.' 71'-'4@8 >.'=<'71.' / ' 71.6 >.' / 46 =<.' 7'<7 -,;'5.'
=4 <6714 / .<7'5.8 .<5 <>.':4 7 1>? 7 7.416 '-.4J5.6%
WCG ,41';.77.' '<<..' .45. / .<78 ?,41 71.<7.'?.<6 ,<6
J1'74 7.68 1' 6,<>. :1%;:';4<.8 =, '6.1,<7 ';;,1G
>..6"71.<7.' 5 -.6 '<65 174<.8 64 -'<7 ' 577.55. / .,55.6
>;,5.68 ;.55.'>.' 8 '5 7
$ % .6 8* '55-% > 0,<,1' 1.6 ';;,1> 6 ?'1'5 '17 \'
; .'?1.;.>.<7 6.1,<7 1>?'17 .6 ' <6 '=< 75 64 7N
' '-, 1'N '4'?1. / .1' <67 45.418 8
'W <6.;,<>' <67 747.418C8 '5 -% ' \' %
'6 ' ' '>Q, <78 C8 '55-% G G
W '>.4@ <6?.;7.416;:.56>'7. .168 '1' 6,<>.' '5 -%
;0.;4<8 8C '5 -%%
W '>.4@ J,4-.1<'< .6 / ' 51.66.6 >.' 71>-'77@8 *1' 6,<
>.'9 '5 -% ';4<.8 8C '5 -%
' ' =4'71. / ' 71.6 >.' / 46 =4.8 *1' 6,<>.'U '5 -1.6
;5 ";<<8 89 '5 -%
W '0' 7 1.?.7 7.77Y' . J5. 1*16>6 K>.'U ' -%;0'G
J8 8C 7 -%
8' ,7'58 8* 5 -% ' '
,46 '41,<7 .' ,J. / .<7%
W '>Q, <78 5.6 <6?.;7.416 >'7.5 .168 5.6 / '771.66.6>.'
71'-'4@ .7 1.?.7 7.416 '-.4J5.6 '41,<7 6.456 5"7'05.%
W % , / ?5,' >4' ?1. / .1' <65 747.418 ';74.55. / .<7
,;;4?'* <6714;7 ,<>.6 '-.4J5.6 < 68 .67;,<E 1 / .%
& % .6 >.4@ / .' <67 747.<18 '>Q, <78 <6?..7.4168
J,4-. / '<7.6 .7 1 ?.7 7.41" 6.1,<7 ;;, 16 ?'1'5.> ?'17.G
< .<7 >.' '1 68 641'5"?1.6.<7'7 ,<>4 ?1. / .1' / 67 747.41
>.6 '-.<J5.6 <>68 ;,<Q;><. / .<7 '-.;'5.' ?1. / .1' <67 74G
7,41'>.6'6,41>6 / 4.76% .6 '-.<J5.6 < 6 6.1,<7 '> / 6 >.'
?1.E.1.<;.' '4@ ?5';.6 =4.'5.41 <E 1 / 7'.7 5..16 7'5.<76
5.41'?.1 / .771,<7>.'1. / ?5 1%%
$ % .;,<, / .' ';74'5 >.6 6,41>6 / 4.76 5.'6.1"'466'
>.6 'J.45.6 <.68% .7 7,47.6 5.6 > ?.<6.6 6.1,<7 E' 7.6.<
;, / / ,<?,41'5.6 4<6 .7 5.6 '471.68>.' / '< 1.'=4.'5.'7,47
<.'E,1 / .'=4 << 6.45 .7 / / .'.7'05 66. / .<78 6,46 5"641M
-.55'<;.'.7 <6?.;7 7 / '>4' >.?'17 / .<7% $

! ' '@ % N' W '$ '&2 ' , ! ', '
'$%' (! & '(% 'E &, 'M'3 2 ,, B$& ' '%&! ('$%'
&%% ! ' '
3%',&% ' , '$ & ':' *') ,

1 ' '5'' ' '' ''

3 '& (% ' ' $%' (%$ &'&C (%* ,' , ! '
4 7*&$ ' ,, B$& '& ' 2) -'% B 4 '
& ', ,' %4% -'
I $,'&& $,' ' (" ! , % ,' &% '
& , (,%B$,' ! '& &'%&! (&,
' ! ,') , '$ ' ! ',2 , & '%' , B$& ' '
'%' ! $ '% ' $ '& ,'% $% % ! ,'& '(#'
(Y '$%' (! ,, '& ' % ' '$%' ! , ! '(% '
! ,'$,' ! ,' $ ' ' ,! '(! 4!
'&' ' '$ ',' % ,'%'*% ' , '$ '& '
(! ,#4 B%$'& '$%' ,&% ' $' ' $ '(&, & %'&&#'
$% &' ' ,, %B$& '%4% ($ ',%' ,, ! 'V/P

N' # # %
7 .' % % ' ',L K K " & . / '< '64 -.'
&!'8 ' ;' &
<5 6" '5 ', '+ 40% 5" G1.?1.6.<7'7 ,<>4'
G ',4' G9 ' ' ; / .> ,'<,4-.55.8
F ' 'G, & ' ' ' d
< a 5 7 a% +' 40% 5" UG 1.?1.6.<7'7 ,<>,'Y 6W
9& ! '& ?1#;.> .'>.'

) ')
&7P' .'0455.7 <'>.' '>.1< .1.'6.'<;.'>.' 66. / 07..';,< '
'7 54'<7.'6.'71,4 -.'>'<6'5.'<4 / .1,'>4' ' ,;7,01.%'#.'<4 / .1,'
;,<7.<'<7' '466' 5.'0455.7 <'>.'5"?1. / .1.'6>'<;.'>.'5\ 6'
6. / 05..' 5.J 65'7 -.8' <,46' '-,<6' >4' 5.' ?5';.1' .<d 7>7.' >4'
7, / .'T' 9

< / HK 68 14.'>.' K ;5 ;5 .4% + 40% 8, '
! ' ' 5' 5" F'1.?1.6.45'7Q,<>.' ' 9 ' '
' ; / >.'.<4<';7.8 64 - .'>.'8 ',4' 69 '
'@ & ' ;, / >> .'.< ' ';7.6%
4<> 8 5" F'1.?1.6.<7% 4), L ' ' 'Y (
<> K' 7 'a KHK K. 8%; >.-'<7 >; ,<6 .4'
+ 40% 9 ' ' F& ' ,? 1" 7'5 .<>'<6'5.=4'
B / .54'5.77'1. / ?5 1"5.'1>5.'>.' ,6 <'%
K< '77.<>'<7 5" G 1.?1.6.<7'7 ,< >.6 $ & *'
,?.1" E1'<;' 6%
- ' ," B 7 K K , K8 '4' ,5''
,Q'5% 40%'5" UG 1.?1.6.<7'7 ,< ,) ' ' '
3' ?.1"<,4-.'4 .< ' ';7.6%
! &' ' ' & ' ')&& '<,'& 'C 40% ='8'
& 'G ! 5 ' - '& '0'55
% J - / <f5.66'7 7.416E.1 <7> EE.1.<76 .@.1; ;.6f '$ '
.1 .6 >.% ;,?7<4 ;, / . '5.'< ' ' '93 ' ' ?'7
7, / / .' '-.;'4<> -.17 66.7<.<7%
. 8) " ' '4'0,45.-'1> >4' . / ?5.% +' 40%'
'& ' ;, / .> .' '-.;'6.6 'J1. / .<768 64 - .'>
F ! 8 .7>4' $ & ' ,?.1' ;, / =4.' '-.;'6.6 >-.'
7 66. / ;<5
- Q ' ' ' ;, / ,;6 ' " &, '2' '
' ' ' & ' ' ') '64 -;'>5
F ' 1 & ' ,?.1"0,4EE,<% d
% ' KK K '14.' ' <7 '17 <%+d 40% 0
* '64 - 6 >.') ' '.7>4' '
;< & '
B> BK '5 'K K K ,,-, 6%+' 40% 5" T' 1.? '
6.<7'7 K>.' ; ' & ' ,?.1".< ';7.68 ?1'

< '77.<>'<7 5.' ! ' ;, / .> .'.< ' ';7.6%
<> KK ' '14## #45741. ' <7. #'5:;1 4.8'
, '$ & ' '- ' ;, / >.'.< ' ';7.68 6' - ,1'
$! V ' 8';, / >> '.<'4<';7.%
+ 8' + 5 '14.'>4' '58<p *% + .57 '
-.17 7,465.6Q,4168 Q46=4 *7.55.'0.<1.'=4 5'?5' 7* %'
'0,<< 6> V 1;67.1% $

B% <7, <.' = E ' / '571..77; 1,1J .8 '>Q. / 7'<,, / '
>.' ;'> <.'>.'!: 1 [? .8 ?7.E.61.<1' ;, .'?1'7 = / '
>,;7.<1'.,'1<>>.; <.8 .7.%8 .. / / .,;.1"6.6 5.=,<6> '<'0
/ .'54<> 8 ' ;7,01.' (* 8*< >7 ?1>; 6f 5 5.6 ;,<7 <4.1
7,46 5.6Q,4168 "5" / # / .:#<1 8 .@;.?7.'5.6> / '<.0.6 .7 '
E.7.6% ">. / ,<671'7 ,<>.6> EE>1.<76 ,1J'<.6 6.1" <7 / .>'
7. / .<76<-'>.' .6?16>'>.' .416 46'J.6% <6,<' / ?: 7:..'
71.8 14.'>.'5" B4;:.57.8 5"%>.7@ / .'55>.' *J'4;:.' .< .<
71'<7 ?'1'5.'?.<7 ' 7 B 6:.5%
R

7 B 'Y 'KK ' ' B 7 % V 57#''
i' 8 8')%
@?1. / .16 / ,6 (* % >%7.6 ?'V.416 6.<7' 'E.771.'"
G ' ' & '% & ' '9' ' ' '
/ 67.1>' / % % % % %' UU'E' #'>@%%' >'
B' / 0,41J%%%%%%%%%%%' C U ! <.6%%%%%%%%%%%%%%%%' 9
,4>1.6 % % G C' % -,414.' C9
'>1 >%%%%%%%%')' % *6% 8 */ , 4 % % % %' +*4+
' '
;7 ,<6 >.6 <>.6>.'C '5 -' 8' %' %%%%%%%%%%%%%%% CC 8
/ ?14<7 > ,.7,01.'>.' '5 -%% ' U
' + >.>.;% ()C% 34 78 >.'E <% % % %' % %%' 8 'E8 I'
>.' C / 55%8 >>;8 ()U ' % CE8 E%
+'>.') ' / 558 6'<6 0455' % % % % %%%%%%%%%%%%%%)'Y' (
+'6,178 .< - 'J.1' %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%' CC
;7% <,4-%>.6 <>.6 % % % C 8 8 U8 8)98 (8*'
#'66.'>.6;% % % % % % % % %')* 8 *Z8] ' *C8 * 8) 8)
.< ;'66.'% % % % % % % % % % ' *U *8U 8'U 8 8
34 77% >.6 '4@>.' '1 6% % % % $ $ $)' ' DDY D
/ ?1%>.') ' / 55%8>',E77 ()* $ G % $ G E\ \J'$$ 1\'$Y -
6641% ;,<71.'5.6 <;.<>'$ W' *)8 **8 9 8 8 9 8 *
*)8 *
+'*- .' % % % % %' (8 98 (8)8 *8)8 (8 98
;7 ,<6 >.'5" #' 66.'?'71 ,7 =4.' % % % % % % % % % % %' 9)
+ 'Bm'3 +''('TX'4'#' T B B
V 'T'X 4';Q' '+ 'BXJ' EE%
V ED$-('T'X 4' ' '+ 'BID' ' ' ' +' 'K' PB

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